

THE DAYTIME CAFE

PROJECT SCOPE

THE WORK WILL CONSIST OF NEW INTERIOR PARTITIONS, NEW HVAC, ELECTRICAL AND MECHANICAL SYSTEMS, NEW COMMERCIAL KITCHEN

THE BUILDING SHELL AND STRUCTURAL SYSTEM ARE EXISTING. THERE

WILL BE NO ADDITIONAL STRUCTURAL WORK OR MODIFICATIONS.

OWNER AND ARE INDICATED IN THE DRAWINGS. THE EXISTING BUILDING IS PROVIDED WITH A SPRINKLER SYSTEM, WHICH WILL BE

MODIFIED AS NECESSARY TO COORDINATE WITH NEW CEILING

SYSTEMS BY A SPRINKLER CONTRACTOR UNDER SEPARATE

SQUARE FOOT TABULATION

LEASABLE SQUARE FEET

SEATING COUNT - INTERIOR

SEATING COUNT - EXTERIOR

100 ENTRY VESTIBULE

101 WAITING/HOSTESS

104A MEN'S TOILET ROOM

107 OFFICE 108 COUNTER SERVICE

FIRST WATCH

SF PER TABLE

103 TOILET ROOM VESTIBULE

104B MEN'S ADA TOILET ROOM

105B WOMEN'S ADA TOILET ROOM

105A WOMEN'S TOILET ROOM

102 DINING

106 KITCHEN

REFERENCE POINT

-ELEVATION HEIGHT

ROOM NAME

WALL TYPE

FIRE EXTINGUISHER

MECHANICAL

ROOM NUMBER

TENANT SEPARATION WALLS ARE BEING PROVIDED BY THE BUILDING

ACTUAL RANGE

48 SF 50-100 SF

310 SF 235-250 SF

58 SF 60-65 SF

1,898 SF

331 SF

1,255 SF

164 SF

4,006 SF 3,400-3,800 SF

100-130

275-300 SF

1,200-1,300 SF

EQUIPMENT, AND NEW INTERIOR FINISHES AND FURNISHINGS.

PROJECT DIRECTORY										
TENANT	LANDLORD	ARCHITECT OF RECORD	MEP ENGINEER	FOOD SERVICE CONSULTANT	BUILDING DEPARTMENT	HEALTH DEPARTMENT				
MEE HWY 291 LS, LLC 1708 MARYLEE CT. COLUMBIA, MO 65203 CONTACT: ERIC BOWMAN PHONE: (816) 304-2395 EMAIL: eric.bowman23@gmail.com	SWP X, LLC C/O DRAKE DEVELOPMENT, LLC 7200 W. 132nd STREET, STE. 150 OVERLAND PARK, KS 66213 CONTACT: DAVID OLSON PHONE: (314) 413-3598 EMAIL: daveolson@monarchprojectllc.com	ARCHITECTURAL GROUP INTERNATIONAL 15 WEST SEVENTH STREET COVINGTON, KENTUCKY 41011 CONTACT: MEGAN ESSWEIN PHONE: (859) 261-5400 FAX: (859) 261-5530 EMAIL: messwein@agi-us.com	KLH ENGINEERS 1538 ALEXANDRIA PIKE, SUITE 11 FT. THOMAS, KY 41075 CONTACT: JIM TAVERNELLI PHONE: (859) 442-8050 FAX: (859) 442-8058 EMAIL: jtavernelli@KLHENGRS.com	TRIMARK STRATEGIC. 1747 OAKHAVEN DR. ALBANY, GA 31701 CONTACT: SHANE MILLING PHONE: (229) 903-3753 EMAIL: SMILLING@TRIMARKUSA.COM	CITY OF LEE'S SUMMIT 220 SE GREEN ST. LEE'S SUMMIT, MO 60463 CONTACT: DAWN BELL PHONE: (816) 969-1200	JACKSON COUNTY HEALTH DEPARTMENT 313 S. LIBERTY INDEPENDENCE, MO 64050 PHONE: (816) 404-6415				

GENERAL NOTES

1. 'OWNER' REFERS TO FIRSTWATCH, 'LANDLORD' REFERS TO THE ENTITY RESPONSIBLE FOR THE BUILDING SHELL.

2. ALL WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER AND SHALL BE IN STRICT ACCORDANCE WITH GOVERNING CODES AND ORDINANCES AND REGULATORY AGENCIES.

3. OWNER SHALL OBTAIN BUILDING PERMIT, CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS.

4. ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR

5. TEMPORARILY BRACE THE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL IT IS COMPLETE AND FUNCTIONING PER THE DESIGN INTENT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES.

6. COORDINATE DIMENSIONS FOR EQUIPMENT SUPPORTS, WALL, FLOOR OR ROOF OPENINGS WITH APPLICABLE TRADE CONTRACTORS PRIOR TO STEEL FABRICATION OR CONCRETE PLACEMENT.

7. WHEN REQUIRED, SPRINKLER DRAWINGS WILL BE SUBMITTED UNDER SEPARATE COVER BY A SPRINKLER CONTRACTOR LICENSED TO PERFORM WORK WITHIN THE STATE WHERE THE PROJECT RESIDES.

8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS APPLIES CONTINUOUSLY AND SHALL NOT TO BE LIMITED TO NORMAL WORKING HOURS.

9. AREA AND DIMENSIONS: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL AREA TAKE-OFFS AND DIMENSIONS BY MAKING THEIR OWN FIELD MEASUREMENTS BEFORE STARTING WORK OR ORDERING MATERIALS.

10.THE REMOVAL AND INSTALLATION OF MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL ITEMS MAY REQUIRE THE PENETRATION OR REMOVAL OF FLOORS. CEILINGS AND WALLS OF ADJACENT ROOMS AND FLOORS. PATCH AND FINISH ALL EXISTING SURFACES THAT ARE DISTURBED DURING CONSTRUCTION, UNLESS OTHERWISE NOTED.

11. SHOULD A DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL CONSTRUCTION, OR CONTRACT DOCUMENTS AND THE KITCHEN EQUIPMENT DRAWINGS OCCUR, THE CONTRACTOR IS TO NOTIFY FIRSTWATCH IMMEDIATELY.

12.CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OWNER'S REPRESENTATIVES AND OBTAIN A COMPLETE SCHEDULE OF ALL EQUIPMENT. FURNISHINGS AND BUILT-INS TO BE INSTALLED IN THE BUILDING (WHETHER SUCH INSTALLATION IS TO BE SEQUENCED WITH THE CONTRACTOR'S WORK OR SCHEDULED AFTER CONTRACTOR'S WORK IS COMPLETE). CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO ENSURE PROPER ROUGH-IN AND FINISH DIMENSIONS, CONNECTION AND INTERFACE REQUIREMENTS, STRUCTURAL MOUNTING, SEQUENCE OF WORK AND OTHER CONDITIONS NECESSARY FOR SUCCESSFUL INTEGRATION OF THE SCHEDULED WORK.

13. COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE LOCAL ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION FOR DIMENSIONAL STANDARDS, CLEARANCE REQUIREMENTS, SLOPE AND GRADE LIMITATIONS, ELEMENTS OF THE ACCESSIBLE ROUTE THROUGHOUT THE SITE AND BUILDING AND FOR MOUNTING REQUIREMENTS, LOADING REQUIREMENTS, ETC. FOR ALL ACCESSIBLE SPACES, FIXTURES AND BUILT-INS WITHIN THE BUILDING.

14.TEST ALL STEPS OF THE CLEANING PROCESS ON A PORTION OF THE BUILDING AND FOLLOW ALL INSTRUCTIONS PROVIDED BY MANUFACTURER OF CLEANING

15.PENETRATIONS OR OPENINGS IN WALL, FLOOR, OR CEILING CONSTRUCTION ASSEMBLIES FOR PIPING, ELECTRICAL BOXES, CONDUIT, AND HVAC DUCTWORK SHALL BE INFILLED WITH ACOUSTICAL SEALANT OR FIRE SAFING AS REQUIRED.

16.COORDINATE DEMOLITION WORK WITH LIMITS OF NEW CONSTRUCTION.

17.ALL GLAZING IN AND ADJACENT TO DOORS SHALL BE TEMPERED SAFETY

18.GENERAL CONTRACTOR TO PROVIDE OWNER WITH AS-BUILT DRAWINGS WITHIN 14 DAYS OF THE COMPLETION OF WORK IN BOTH HARD COPY AND DIGITAL FORM.

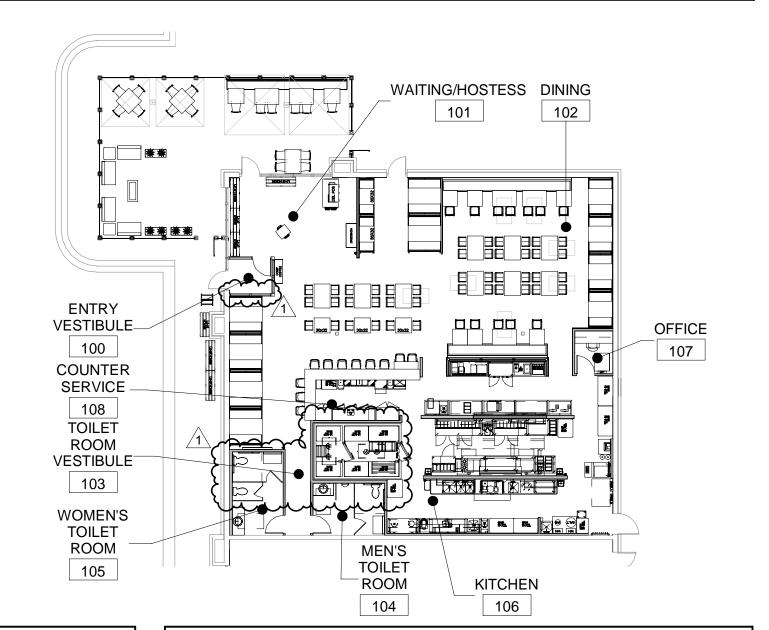
S	YMBOLS LEGEND
DETAIL TITLE	DETAIL TITLE
	SCALE: 1/2" = 1'-0" DRAWING SCALE
SECTION	SECTION I.D. NUMBER
	SHEET WHERE SECTION IS LOCATED
DETAIL (ENLARGED PLAN)	AREA TO BE ENLARGED
(LINEARGED FEAIN)	DETAIL I.D. NUMBER
	SHEET WHERE DETAIL IS LOCATED
ELEVATION	ELEVATION I.D. NUMBER
	SHEET WHERE ELEVATION IS LOCATED
CEILING HEIGHT	CEILING TYPE CEILING HEIGHT ABOVE FINISHED FLOOR
DOOR	DOOR NUMBER DESIGNATION
WINDOW	WINDOW NUMBER DESIGNATION
FINISH MATERIAL	X FINISH DESIGNATION
KEYED NOTES	KEYED NOTE DESIGNATION ON APPLICABLE SHEET
REVISIONS	ADDENDUM LETTER OR CHANGE BULLETIN NUMBER
	REVISED AREA CLOUDED

ELEVATION HEIGHT

ROOM DESIGNATION

FIRE EXTINGUISHER

WALL TAG



KEY PLAN

VICINITY MAP

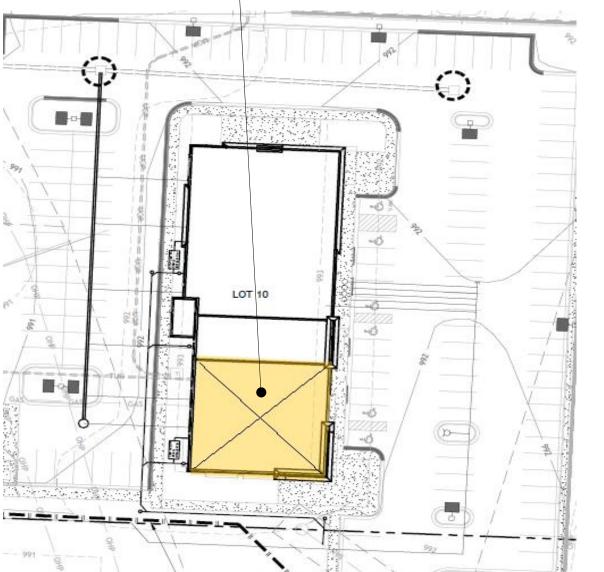
7 11 1	ADOVE THINDITTEOON	MEOII	MEOI I/ MAIO/ LE
AHU	AIR HANDLING UNIT	MIN	MINIMUM
ALUM	ALUMINUM	MTL	METAL
BD	BOARD	NA	NOT APPLICABLE
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CLG	CEILING	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONT	CONTINUOUS	OPP	OPPOSITE
CPT	CARPET	PLYWD	PLYWOOD
CT	CERAMIC TILE	PREFAB	PREFABRICATED
C/L	CENTER LINE	PT	PAINT
DBL	DOUBLE	QT	QUARRY TILE
DIA	DIAMETER	R	RISER/RADIUS
DIM	DIMENSION	REINF	REINFORCE
DN	DOWN	REQ'D	REQUIRED
EA	EACH	RO	ROUGH OPENING
ELEC	ELECTRICAL	SF	SQUARE FEET
ELEV/EL	ELEVATION	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
EXIST	EXISTING	SS	STAINLESS STEEL
FD	FLOOR DRAIN	STL	STEEL
FE	FIRE EXTINGUISHER	SUSP	SUSPENDED
FF	FINISH FLOOR	T	TREAD
GALV	GALVANIZED	TELE	TELEPHONE
GWB	GYPSUM WALL BOARD	TYP	TYPICAL
HC	HANDICAPPED	UNO	UNLESS NOTED
HM	HOLLOW METAL		OTHERWISE
HVAC	HEATING, AIR	VCT	VINYL COMPOSITION
	CONDITIONING & VENT	VERT	VERTICAL
INFO	INFORMATION	WC	WATER CLOSET
INSUL	INSULATION	WD	WOOD
MAX	MAXIMUM	W/	WITH

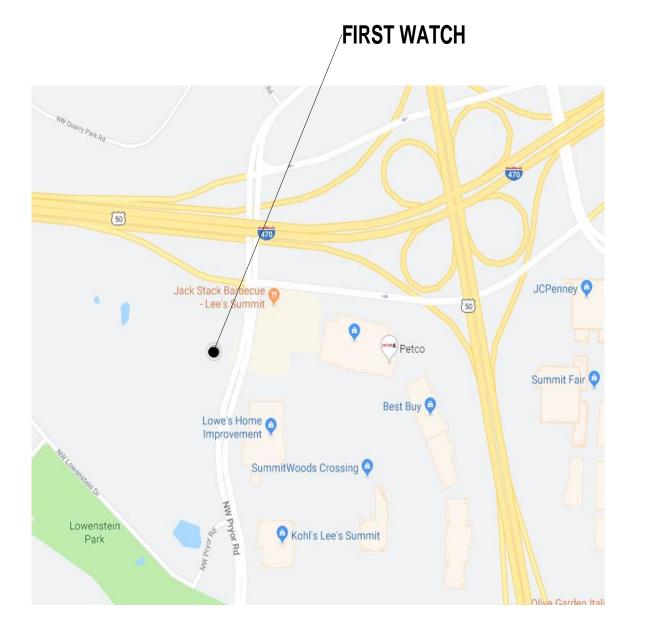
ROOM ____

ABBREVIATIONS

ABOVE FINISH FLOOR

MECH





	DRAWING INDEX										
		ORIGINAL DRAWING DATE	REVISED 11/20/2019 🕇								
ARCHITECTU	RAI		<u> </u>								
A001	COVER SHEET	10/23/2019	•								
A002	CODE AND PROJECT DATA SHEET	10/23/2019	•								
A101	FLOOR PLAN	10/23/2019	•								
A102	FURNITURE AND FIXTURE PLAN	10/23/2019	•								
A102a	FURNITURE & FIXTURE SCHEDULES	10/23/2019	•								
A103	REFLECTED CEILING PLAN	10/23/2019	•								
A104	FLOOR FINISH PLAN	10/23/2019	•								
A105	FINISHES SCHEDULE	10/23/2019									
A106	CEILING FEATURE DETAILS	10/23/2019									
A107	PATIO PLAN AND DETAILS	10/23/2019									
A201	ENLARGED TOILET ROOM FLOOR PLAN & ELEVATIONS	10/23/2019	•								
A202	INTERIOR ELEVATIONS	10/23/2019									
A203	INTERIOR ELEVATIONS AND DETAILS	10/23/2019									
A301	SECTIONS AND DETAILS	10/23/2019									
A302	ENLARGED BAR FLOOR PLAN & ELEVATION BOOTH SECTIONS AND DETAILS	10/23/2019	•								
A303		10/23/2019									
A304 A305	HOST SECTION AND DETAILS PIPE WALL DETAILS	10/23/2019 10/23/2019									
A305 A306	HOST SECTIONS AND DETAILS	10/23/2019	•								
A307	BANQUETTE DETAILS	10/23/2019	•								
A401	DOOR & WINDOW SCHEDULE & DETAILS	10/23/2019	•								
A601	SPECIFICATIONS	10/23/2019									
A602	SPECIFICATIONS	10/23/2019									
A603	SPECIFICATIONS	10/23/2019									
PLUMBING											
P101	PLUMBING WASTE AND VENT PLAN	10/23/2019	•								
P102	PLUMBING DOMESTIC WATER AND NATURAL GAS PLAN	10/23/2019	•								
P103	PLUMBING DETAILS AND SCHEDULES	10/23/2019									
P104	PLUMBING RISERS AND DIAGRAMS	10/23/2019	•								
P601	PLUMBING SPECIFICATIONS	10/23/2019									
MECHANICAL											
M000	MECHANICAL LEGEND AND ABBREVIATIONS	10/23/2019									
M100	MECHANICAL ROOF PLAN	10/23/2019	•								
M101	MECHANICA FLOOR PLAN	10/23/2019	•								
M102	MECHANICAL SCHEDULES	10/23/2019									
M103	MECHANICAL DETAILS	10/23/2019	•								
M601	MECHANICAL SPECIFICATIONS	10/23/2019									
M602	MECHANICAL SPECIFICATIONS	10/23/2019									
ELECTRICAL E101	ELECTRICAL LIGHTING PLAN	10/23/2019									
E101	ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN	10/23/2019	•								
E102	ENLARGED KITCHEN PLAN	10/23/2019									
E104	ELECTRICAL SYSTEMS PLAN	10/23/2019									
E105	ELECTRICAL LIGHTING DETAILS	10/23/2019									
E106	ELECTRICAL LEGEND AND DETAILS	10/23/2019	•								
E107	ELECTRICAL PANEL SCHEDULES AND SINGLE LINE	10/23/2019									
E108	ELECTRICAL ENERGY COMPLIANCE	10/23/2019									
E601	ELECTRICAL SPECIFICATIONS	10/23/2019									
E602	ELECTRICAL SPECIFICATIONS	10/23/2019									
FOOD SERVI	CE										
FS1	FOOD SERVICE FLOOR PLAN	10/23/2019									
FS2	FOOD SERVICE EQUIPMENT SCHEDULE	10/23/2019									
FS3	FOOD SERVICE EQUIPMENT SCHEDULE	10/23/2019									
FS4	FOOD SERVICE ELECTRICAL PLAN	10/23/2019									
FS4.1	FOOD SERVICE ELECTRICAL ELEVATIONS	10/23/2019									
FS5	FOOD SERVICE PLUMBING PLAN	10/23/2019									
FS5.1	FOOD SERVICE PLUMBING ELEVATIONS	10/23/2019									
FS6	FOOD SERVICE WALL BACKING PLAN	10/23/2019									

10/23/2019

10/23/2019

10/23/2019

10/23/2019

10/23/2019

1120/19 •

FS6 FOOD SERVICE WALL BACKING PLAN

FS7 FOOD SERVICE KITCHEN ELEVATIONS

FS8 FOOD SERVICE HOOD SHEET 1

FS8.1 FOOD SERVICE HOOD SHEET 2

FS8.2 FOOD SERVICE HOOD SHEET 3

FS6.1 FOOD SERVICE WALL BACKING ELEVATIONS

CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI 04/17/2020



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2019 MST ISSUED FOR BID/PERMIT

11/20/2019 MPR PERMIT/LL COMMENTS



LEE'S **SUMMIT**

LEE'S SUMMIT, MO

190727 DATE ISSUED 10/23/2019

COVER SHEET

			GENE	RAL RESPONSIBILITY SCHEDULE			CODE INFO
	PROVIDED BY	INSTALLE			GENERAL BUILDING CODE DATA		
			. C. J.	NOTEO	BUILDING OFFICIAL JURISDICTION: CITY OF LE		1 / 1 \
ITEM	300R		NDOR INTR. (G.	NOTES NOTES		T WATCH RESTAURANT - 920 NW PRYOR RD., UNIT A LEE'S SUMMIT, MO 64	
II ⊑IVI	RD VENI	RD RD	VENDO CONT	≧ VERIFY WITH PROJECT	APPLICABLE CODES:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	}
	N D L O N D N D L O N D N D N D N D N D N D N D N D N D N	LANDLO	TENANT TENANT EXISTIN	MANAGER PRIOR TO BID		IENDED AND ADOPTED BY THE CITY OF LEE'S SUMN IENDED AND ADOPTED BY THE CITY OF LEE'S SUMN	
	LA E	LA H	2 2 X			IENDED AND ADOPTED BY THE CITY OF LEE'S SUMN MENDED AND ADOPTED BY THE CITY OF LEE'S SUMN	
EXTERIOR/BUILDING SHELL					ELECTRICAL: 2017 NEC AS A	MENDED AND ADOPTED BY THE CITY OF LEE'S SUM IENDED AND ADOPTED BY THE CITY OF LEE'S SUMN	MIT }
MAIN BUILDING SIGNAGE			• •	TENANT TO SUPPLY. G.C. TO SUPPLY POWER SOURCE WITHIN 5' OF SIGN AND PHOTO CELL.	ACCESSIBILITY: 2017 AMERICA	N NATIONAL STANDARD ICC/ANSI 117.1 AND ADOPTED BY THE CITY OF LEE'S SUMMIT	·· }
FRONT DOOR DECALS	•			TENANT TO SUPPLY AND INSTALL	}	MENDED AND ADOPTED BY THE CITY OF LEE'S SUM	MIT
REAR DOOR DECALS				G.C. TO SUPPLY AND COORDINATE WITH LANDLORD	11 (WILLIAM STATE OF THE OWN OF LEED OOM	,
SPACE ADDRESS IDENTIFICATION	<u> </u>			G.C. TO SUPPLY AND COORDINATE WITH LANDLORD		SLY (RESTAURANT)	
UTILITIES				G.C. TO COORDINATE GAS, WATER, SEWER AND ELECTRIC SERVICES WITH TENANT	CHAPTER 6 - TYPE OF CONSTRUCTION CLASSIFICATION: VB		
DUMPSTERS				G.C. TO PROVIDE DUMPSTER FOR ALL TRASH GENERATED BY CONSTRUCTION AND TENANT DELIVERIES UP TO CO DATE AND SMALLWARES ORDER.	FIRE-RESISTANCE RATINGS (TABLE 601):		Ī
INTERIOR SLAB				G.C. TO POUR SLAB IN RESTROOMS & KITCHEN FOR NEW CONSTRUCTION.	STRUCTURAL FRAME: 0 HOURS BEARING WALLS:		
INTERIOR FINICIPE					INTERIOR: 0 HOURS EXTERIOR: 0 HOURS		
INTERIOR FINISHES					NON-BEARING WALLS: INTERIOR: 0 HOURS		
TILE MATERIAL		•		G.C. TO SUPPLY TILE, THINSET, GROUT, WATERPROOFING, PRE-GROUT TILE SEALER, AND SCHLUTER. G.C. TO UNLOAD AND INSTALL. G.C. TO FURNISH AND INSTALL TRANSITIONS PER SPEC. G.C. TO PROVIDE SHIP TO ADDRESS IF MATERIAL TO BE SHIPPED TO A LOCATION OTHER THAN THE JOB SITE.	EXTERIOR: 0 HOURS FLOOR CONSTRUCTION: 0 HOURS		(
					RODE CONSTRUCTION: O HOURS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\frac{1}{1}$
DINING FLOORING				G.C. TO SUPPLY AND INSTALL WALK-OFF CARPETING AND GLUE PER FINISH SCHEDULE. G.C. TO SUPPLY AND INSTALL ALL VINYL BASE AND GLUE, VINYL FLOORING AND TRANSITIONS ACCORDING TO PLANS AND PER SPEC.	SIGNAGE NOTES: 2018 IFC 1004.3- POSTING OF OCCUPANT LOAD. EVERY		IλΓ
STAINLESS STEEL CORNER GUARDS				G.C. TO COORDINATE, SUPPLY AND INSTALL FULL WRAPS AND CORNERS IN KITCHEN.	OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS	A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR E	XIT ACCESS \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
BAR COUNTER					BE MAINTAINED BY THE OWNER OR AUTHORIZED AGEN THE EXTERIOR SIGN.		
			- -		2018 IFC 505.1- ADDRESS NUMBERS. NEW AND EXISTING	BUILDINGS SHALL HAVE APPROVED ADDRESS ALLI	MBERS, BUILDING
FIXTURES, EQUIPMENT AND ACCESSORIES					NUMBERS OR APPROVED BUILDING IDENTIFICATION PL STREET OR ROAD FRONTING THE PROPERTY. THESE N	ACED IN A POSITION THAT IS PLAINLY LEGIBLE AND	VISIBLE FROM THE
DINING FURNITURE				TENANT TO SUPPLY, G.C. TO UNLOAD, ASSEMBLE AND SET IN PLACE PER PLAN	TENANT COMMERCIAL BUILDING WHERE TENANTS HAV BUILDING , EACH DOOR SHALL BE ADDRESSED. ADDRE	E MULTIPLE ENTRANCES LOCATED ON DIFFERENT S	SIDES OF THE
WAIT BENCHES			•	TENANT TO SUPPLY, G.C. TO UNLOAD AND SET IN PLACE PER PLAN	NUMBERS SHALL BE A MINIMUM OF 4 INCHES (102 MM)	HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCH (12.7 MM).
HOST DESK				TENANT TO SUPPLY, G.C. TO UNLOAD, ASSEMBLE IF NEEDED, PROVIDE ELECTRIC AND DATA WIRING, INSTALL GROMMETS FOR PHONE AND DATA LINES AND SET IN	CONCTR		
HOST DESK				PLACE PER PLAN. TENANT TO PROVIDE FINAL DATA TERMINATIONS.	CONSTR	UCTION CONTACT D	JIKECTORY -
OFFICE DESK AND SHELVES				G.C. TO SUPPLY AND INSTALL LAMINATE DESK TOP, WALL SHELVING AND GROMMETS FOR PHONE AND DATA LINES	ITEM SUPPLIED	CONTRACTOR/SUPPLIER	ITEM SUPPLIED
OUTDOOR FURNITURE			•	TENANT TO SUPPLY, G.C. TO UNLOAD, ASSEMBLE AND SET IN PLACE PER PLAN	KITCHEN EQUIPMENT, WALK-IN BOX, EQUIPMENT CALIBRATION/START UP		COFFEE EQUIPMENT
OUTDOOR WAIT BENCHES			•	TENANT TO SUPPLY, G.C. TO UNLOAD, ASSEMBLE AND SECURE IF NECESSARY	AND EQUIPMENT WARRANTY WORK FOR 1ST YEAR, DINING ROOM BOOTHS,	TRIMARK STRATEGIC CONTACT: HOPE KNIGHT	CONTEL EQUI MENT
FIRE EXTINGUISHERS	•		•	TENANT TO SUPPLY THE K CLASS EXTINGUISHER THROUGH THE ANSUL CO G.C. TO INSTALL, G.C. TO PROVIDE AND INSTALL ALL OTHERS PER PLAN AND LOCAL CODE	TABLES & GLADIATOR CHAIRS, EXTERIOR BLACKWOOD SOFT	PHONE: (229) 903-3754	
'COMING SOON' SIGNS				TENANT TO SUPPLY. G.C. TO RECEIVE AND HANG/MOUNT IN VISIBLE LOCATION	SEATING, COMP COFFEE TABLE, ADIRONDACK CHAIR, & SCHOOLHOUSE		COKE EQUIPMENT
CHALK BOARD				TENANT TO SUPPLY. G.C. TO INSTALL PER PLAN AND SPEC	CHAIR, HOST STAND, POS STAND, COMMUNITY TABLE, & CHALK WALL		
SMALLWARES				TENANT TO SUPPLY. G.C. TO PROVIDE DUMPSTER FOR BOXES AND PACKING MATERIAL AND ANY DEBRIS GENERATED FROM THE DELIVERY.	CHAIRS - SPECTACTULAR, RISLEY, HOST AREA SOFT SEATING, EXTERIOR		KITCHEN AND TOILET ROOM TILE SUPPLIER
GENERAL KITCHEN EQUIPMENT AND ACCESSORIES				TENANT TO SUPPLY, TENANT TO OFF-LOAD TRUCK AND SET EQUIPMENT IN PLACE AND ASSEMBLE SHELVES. G.C. TO MAKE FINAL HOOK-UP, INCLUDING GAS, WATER, ELECTRIC AND COORDINATE START UP WITH TENANT.	WAIT SOFT SEATING	COORDINATED THROUGH	
OOVE FOUNDMENT					COOKING EQUIPMENT SERVICE, ANSUL INSTALLER, WALK-IN INSTALLER	TRIMARK STRATEGIC (ONLY WARRANTY PERIODS)	DISHWASHER
COKE EQUIPMENT CO2 EQUIPMENT				G.C. TO COORDINATE ROUGH-IN WITH TENANT AND TENANT VENDOR. TENANT TO COORDINATE FINAL INSTALL OF COKE EQUIPMENT. G.C. TO SUPPLY AND INSTALL TIE-BACKS IF REQ'D.		CONTACT: HOPE KNIGHT PHONE: (229) 903-3754	
COFFEE EQUIPMENT		,		G.C. TO SUPPLY AND INSTALL RECEPTACLE, PLUG AND 6' CORD FOR COFFEE MACHINES, VERIFY REQUIREMENTS WITH TENANT COFFEE SUPPLIER	DECOR, WINDOW DECALS, EXTERIOR	FIRST WATCH	WATER SOFTENER
DISH WASHER				TENANT TO SUPPLY AND SET IN PLACE. G.C. TO MAKE FINAL PLUMBING AND ELECTRIC HOOK-UP	SIGNAGE, AWNING	CONTACT: LEIGH PHONE: (941) 907-9800	
TOILET ROOM COUNTERTOPS AND SINKS		,		G.C. TO FURNISH AND INSTALL PER PLAN AND LOCAL CODE.		FLORIDA SEATING	LOCAL WATER SOFTENER SERVICE
TOILET ROOM ACCESSORIES		,		G.C. TO SUPPLY AND INSTALL SPECIFIED GRAB BARS, TP HOLDERS, SANITARY NAPKIN DISPOSERS, MIRRORS, PARTITIONS AND SS HARDWARE FOR PARTITIONS.	DINING CHAIR - OUTDOOR PATIO FURNITURE	CONTACT: MIKE PHONE: (727) 540-9802	PROVIDER
TOILET ROOM SIGNAGE		,		G.C. TO SUPPLY MEN AND WOMEN TOILET ROOM SIGNS, TENANT TO SUPPLY ADDITIONAL SIGNS. G.C. TO INSTALL (NOT UNTIL DIRECTED BY TENANT)		TRIMARK STRATEGIC CONTACT: HOPE KNIGHT	SOUND SYSTEM (MUSIC)
TOILET ROOM SOAP AND SOAP DISPENSERS		,	•	G.C. TO SUPPLY AND INSTALL.	INTERIOR WAIT BENCHES AND SIDE		SUPPLY/INSTALL
PAPER TOWEL DISPENSERS			•	TENANT TO SUPPLY. G.C. TO INSTALL.	TABLES, ARTWORK AND DECOR, LIGHTING PACKAGE SUPPLIER	NAUTICAL CONTACT: PATRICIA	DIJONE CEDVICE WIE
BABY CHANGING STATIONS		,	•	G.C. TO SUPPLY AND INSTALL.	(SPECIALITY)	PHONE: (954) 771-1100	PHONE SERVICE. WIFI, COMPUTER/POS, PHONE/DATA WIRING AND CONNECTIONS PROVIDER
WINDOW SHADES			•	TENANT VENDOR TO SUPPLY AND INSTALL.	EXTERIOR PATIO UMBRELLAS	TUCCI THROUGH TRIMARK STRATEGIC	AND CONNECTIONS PROVIDER
MISCELLANEOUS SIGNAGE)	•	G.C. TO SUPPLY AND INSTALL ALL FEDERALLY AND LOCALLY MANDATED SIGNAGE PER CODE		CONTACT: HOPE KNIGHT	
							p o / n o / s
PLUMBING AND MECHANICAL							
HVAC EQUIPMENT				G.C. TO FURNISH, INSTALL AND OBTAIN PERMIT, PER PLAN AND LOCAL CODE.			
HVAC CONTROLS AND DEVICES				G.C. TO FURNISH AND INSTALL PER PLAN			
HVAC DUCTWORK/DIFFUSERS/GRILLES/ EXHAUST FANS				G.C. TO FURNISH AND INSTALL ALL DUCTWORK FOR A COMPLETE SYSTEM, INCLUDING ANY ROOFING/STRUCTURAL SUPPORTS AND ANY ROOF PENETRATIONS PER PLAN			
HOODS AND STAINLESS WALL PANELS				SUPPLIED BY TENANT, G.C. TO UNLOAD, PERMIT AND INSTALL PER PLAN AND LOCAL CODE. G.C. TO SUPPLY TENANT WITH SHIP TO ADDRESS, COMPANY NAME, PHONE NUMBER AND CONTACT.			100 mg
AIR BALANCE				COMPLETED BEFORE CERTIFICATE OF OCCUPANCY, CERTIFIED IF REQUIRED BY LOCAL JURISDICTION	——		
ANSUL SYSTEM		<u> </u>		G.C. TO COORDINATE INSTALL, INSPECTIONS AND TESTS		***	
							1
WALK-IN COOLER			ullet	TENANT TO SUPPLY, G.C. TO WIRE, PLUMB DRAINS, INSTALL HEAT TAPE AND SEAL TO WALL/CEILING PER PLAN. G.C. RESPONSIBLE FOR CONFIRMING REQUIRED CLEARANCES PER WALK IN MANUFACTURER ARE MET.			i i i i i i i i i i i i i i i i i i i
1		,		G.C. TO SUPPLY AND INSTALL PER PLAN AND LOCAL CODE.			
PLUMBING FIXTURES				TENANT TO SUPPLY, G.C. TO INSTALL PER PLAN AND LOCAL CODE.			
PLUMBING FIXTURES WATER FILTRATION				TENANT TO SUPPLY. G.C. TO SUPPLY BYPASS VALVE PER PLAN AND ELECTRIC IF REQUIRED		MINIMUM REQUIRED MANEUVERING	I = 30x32 = E
		'				CLEARANCE AT DOOR (TYP.)	
WATER FILTRATION	•					OLEMANOE AND BOOK (THI.)	
WATER FILTRATION	•					SEEMWINGE AT BOOK (TIT.)	
WATER FILTRATION WATER SOFTENER				G.C. TO SUPPLY AND INSTALL PER PLAN AND LOCAL CODE.			
WATER FILTRATION WATER SOFTENER ELECTRICAL			•	G.C. TO SUPPLY AND INSTALL PER PLAN AND LOCAL CODE. TENANT TO SUPPLY, G.C. TO INSTALL PER PLAN AND LOCAL CODE.		EGRESS PATH FROM MOST REMOTE POINT IN	
WATER FILTRATION WATER SOFTENER ELECTRICAL LIGHT FIXTURES			•			EGRESS PATH FROM MOST	
WATER FILTRATION WATER SOFTENER ELECTRICAL LIGHT FIXTURES SPECIALTY LIGHT FIXTURES (PENDANTS & SCONCES)			•			EGRESS PATH FROM MOST REMOTE POINT IN KITCHEN(TRAVEL EGRESS PATH FROM MOST	
WATER FILTRATION WATER SOFTENER ELECTRICAL LIGHT FIXTURES SPECIALTY LIGHT FIXTURES (PENDANTS & SCONCES) PHONE SERVICE				TENANT TO SUPPLY, G.C. TO INSTALL PER PLAN AND LOCAL CODE.		EGRESS PATH FROM MOST REMOTE POINT IN KITCHEN(TRAVEL	

CODE INFORMATION GENERAL BUILDING CODE DATA CHAPTER 8 - INTERIOR FINISHES **TABLE 803.5** BUILDING OFFICIAL JURISDICTION: CITY OF LEE'S SUMMIT USE A-2 ASSEMBLY: PROJECT DESCRIPTION: FIRST WATCH RESTAURANT - 920 NW PRYOR RD., UNIT A INTERIOR WALL AND CEILING FINISHES: LEE'S SUMMIT, MO 64081 CLASS B EXIT ENCLOSURES AND EXIT PASSAGEWAYS: \cdots CORRIDORS: CLASS B APPLICABLE CODES: ROOMS AND ENCLOSED SPACES: CLASS C BUILDING: 2018 IBC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT 804 INTERIOR FLOOR FINISHES: STRUCTURAL: 2018 IBC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT EXIT ENCLOSURES, EXIT PASSAGEWAYS, PLUMBING: 2018 IPC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT CLASS II AND DOC FF-1 "PILL TEST" OR HIGHER AND CORRIDORS: MECHANICAL: 2018 IMC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT ROOMS AND ENCLOSED SPACES: CLASS II AND DOC FF-1 "PILL TEST" OR HIGHER ELECTRICAL: 2017 NEC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT FIRE/LIFE SAFETY: 2018 IFC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT CHAPTER 9 - FIRE PROTECTION SYSTEMS ACCESSIBILITY: 2017 AMERICAN NATIONAL STANDARD ICC/ANSI 117.1 903.2.1.2 AUTOMATIC SPRINKLER SYSTEM IS REQUIRED AND IS BEING PROVIDED. AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT CHAPTER 10 - MEANS OF EGRESS 2018 IFGC AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT 62 OCCUPANTS 5 NET SF PER OCCUPANT TABLE 1004.1.1 WAITING AREA (310 SF): CHAPTER 3 - USE AND OCCUPANCY: DINING RM-FIXED SEATING (BOOTHS) (33 SF) 56 OCCUPANTS 24" OF SEATING PER OCCUPANT DINING RM-FIXED SEATING (BANQUETTE) (132 SF, 38'-2" LINEAR FT.) 25 OCCUPANTS 18" OF SEATING PER OCCUPANT A-2 - ASSEMBLY (RESTAURANT) 303 DINING RM-UNCONCENTRATED (1898 SF - 132 SF - 333 SF = 1433 SF) 96 OCCUPANTS 15 NET SF PER OCCUPANT

EXTERIOR SEATING:

KITCHEN (1419 SF): 7 OCCUPANTS 200 GROSS SF PER OCCUPANT CLASSIFICATION: TOTAL: 246 OCCUPANTS FOR EGRESS CALCULATION FIRE-RESISTANCE RATINGS (TABLE 601): 270 OCCUPANTS FOR PLUMBING FIXTURE CALCULATION STRUCTURAL FRAME: BEARING WALLS: TABLE 1016.1 EXIT ACCESS TRAVEL DISTANCE FOR ASSEMBLY USE = 250 FEET (SPRINKLER INCREASE) 0 HOURS INTERIOR: EXTERIOR: 0 HOURS TABLE 1019.1 MINIMUM NUMBER OF REQUIRED EXITS = 2 (LESS THAN 500 OCCUPANTS PER FLOOR) NON-BEARING WALLS:

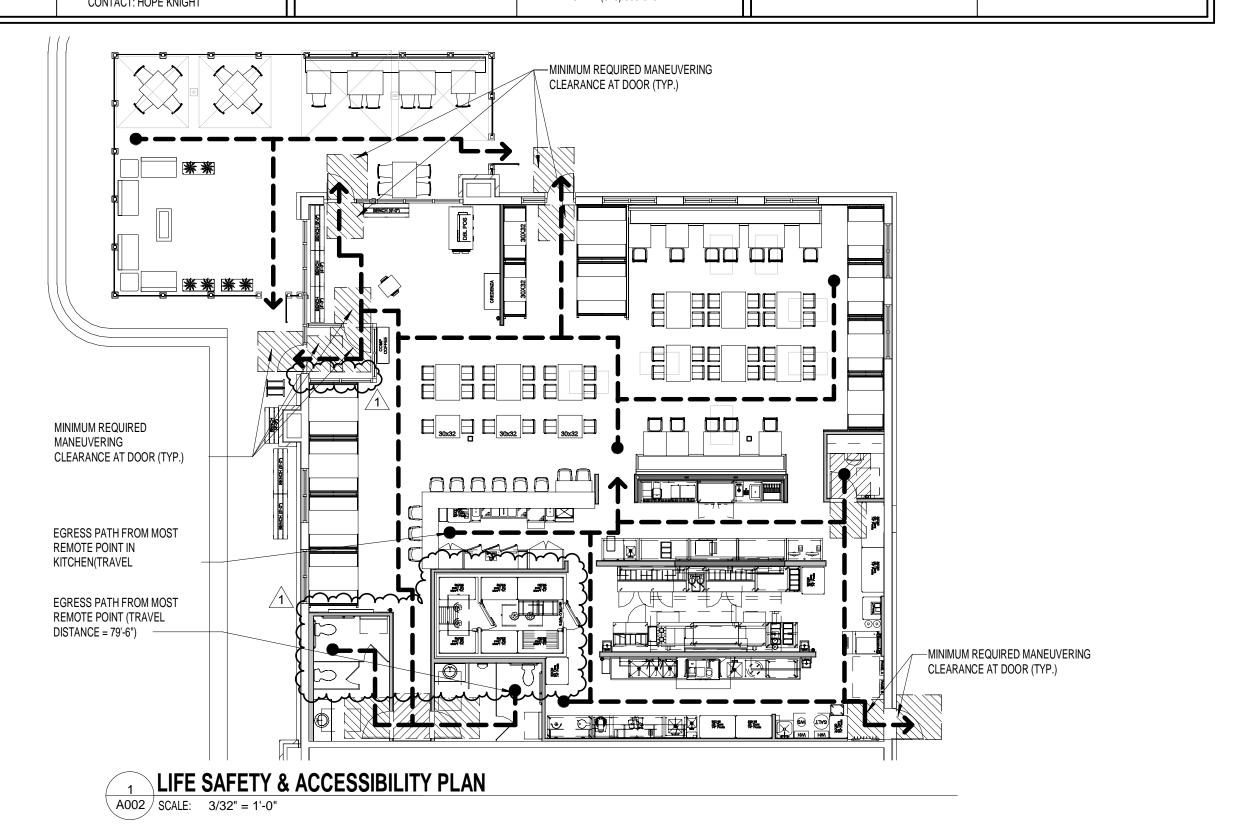
0 HOURS INTERIOR: CHAPTER 11 - ACCESSIBILITY EXTERIOR: 0 HOURS PROJECT HAS BEEN DESIGNED TO BE ACCESSIBLE IN ACCORDANCE WITH ANSI A117.1 GUIDELINES. FLOOR CONSTRUCTION: 0 HOURS -ROOF CONSTRUCTION: -_ 0 HQURS

_		7	CHAPTER 29 - PLUMBING F	IXTURE REQL	JIREMENTS
	SIGNAGE NOTES: 2018 IFC 1004.3- POSTING OF OCCUPANT LOAD. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE	$ \{$			
	OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. POST OCCUPANT LOAD SIGN AT 270 FOR THE INTERIOR AND 24 ON	{	OCCUPANCY:	WATER CL	_OSETS
	THE EXTERIOR SIGN.		(270)	REQ'D	PROV.
	2018 IFC 505.1- ADDRESS NUMBERS. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. IN MULTI-	$\left \frac{3}{2} \right $	MALE: 135	1	1
	STREET ON NOAD FRONTING THE FROFERTT. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. IN MULTI-	I)[

1		TENANT										
1	OCCUPANCY:	WATER CL	OSETS	URIN	ALS	LAVATO	RIES	DRINKING F	OUNTAIN	SERVICE	SINK	
	(270)	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	
1	MALE: 135	1	1	1	1	1	1	0	0	1	1	
1	FEMALE: 135	2	2	ŀ	1	1	1	V	O	-	'	

24 OCCUPANTS

ITEM SUPPLIED	CONTRACTOR/SUPPLIER	ITEM SUPPLIED	CONTRACTOR/SUPPLIER	ITEM SUPPLIED	CONTRACTOR/SUPPLIER
KITCHEN EQUIPMENT, WALK-IN BOX, EQUIPMENT CALIBRATION/START UP AND EQUIPMENT WARRANTY WORK FOR 1ST YEAR, DINING ROOM BOOTHS,	TRIMARK STRATEGIC CONTACT: HOPE KNIGHT	COFFEE EQUIPMENT	ROYAL CUP CONTACT: SCOTTY PHONE: (800) 486-1115	CO2 PROVIDER	HELGET GAS CONTACT: SCOTT MUNTEAN PHONE: (727) 919-0291 ROBERTS OXYGEN IN DC AREA
TABLES & GLADIATOR CHAIRS, EXTERIOR BLACKWOOD SOFT SEATING, COMP COFFEE TABLE, ADIRONDACK CHAIR, & SCHOOLHOUSE CHAIR, HOST STAND, POS STAND,	PHONE: (229) 903-3754	COKE EQUIPMENT	COKE CONTACT:YESSENIA 'JESSIE' BEATY PHONE: 1(800)531-2238 EXT. 3556	CO2 PROVIDER	CONTACT: BILL PHONE: (301) 233-0647 VOLUNTEER WELDING IN TN CONTACT: ELIZABETH
COMMUNITY TABLE, & CHALK WALL CHAIRS - SPECTACTULAR, RISLEY, HOST AREA SOFT SEATING, EXTERIOR WAIT SOFT SEATING		KITCHEN AND TOILET ROOM TILE SUPPLIER	READING ROCK/TRI STATE TILE CONTACT: SUE CAUDELL PHONE: (513) 383-4768	SMALLWARES SUPPLIER	WASSERSTROM CONTACT: MATT BROWN PHONE: (614) 737-8314
COOKING EQUIPMENT SERVICE, ANSUL INSTALLER, WALK-IN INSTALLER	COORDINATED THROUGH TRIMARK STRATEGIC (ONLY WARRANTY PERIODS) CONTACT: HOPE KNIGHT	DISHWASHER	ECO LAB CONTACT: TIM PHONE: (954) 816-5646	WATER FILTER SYSTEM PROVIDER	FILTER PURE CONTACT: JESSICA PHONE: (800) 942-7873
DECOR, WINDOW DECALS, EXTERIOR SIGNAGE, AWNING	PHONE: (229) 903-3754 FIRST WATCH	WATER SOFTENER	CULLIGAN CONTACT: RICH PHONE: (513) 615-1813	LIGHTING PACKAGE SUPPLIER (GENERAL)	GC PROVIDED
DINING CHAIR - OUTDOOR PATIO FURNITURE	FLORIDA SEATING CONTACT: MIKE PHONE: (727) 540-9802	LOCAL WATER SOFTENER SERVICE PROVIDER	LOCAL DEALER - TBD	SHADE SUPPLIER	BUDGET BLINDS CONTACT: ANGELA CARSWELL PHONE: (714) 279-2495
	TRIMARK STRATEGIC CONTACT: HOPE KNIGHT	SOUND SYSTEM (MUSIC) SUPPLY/INSTALL	AMBIENCE CONTACT: BRADLEY	MURALIST	CONTACT: ANGELA DELAPLANE
INTERIOR WAIT BENCHES AND SIDE TABLES, ARTWORK AND DECOR, LIGHTING PACKAGE SUPPLIER (SPECIALITY)	NAUTICAL CONTACT: PATRICIA PHONE: (954) 771-1100	PHONE SERVICE. WIFI, COMPUTER/POS. PHONE/DATA WIRING	PHONE: (888) 717-5550 NEXT GEN CONTACT: TIM HALL		PHONE: (813)842-7573
EXTERIOR PATIO UMBRELLAS	TUCCI THROUGH TRIMARK STRATEGIC CONTACT: HOPE KNIGHT	AND CONNECTIONS PROVIDER	PHONE: (813) 283-0684 CONTACT: BRETT CAREY PHONE: (813) 309-8407		



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

04/17/2020 P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2019 MST ISSUED FOR BID/PERMIT

11/20/2019 MPR PERMIT/LL COMMENTS

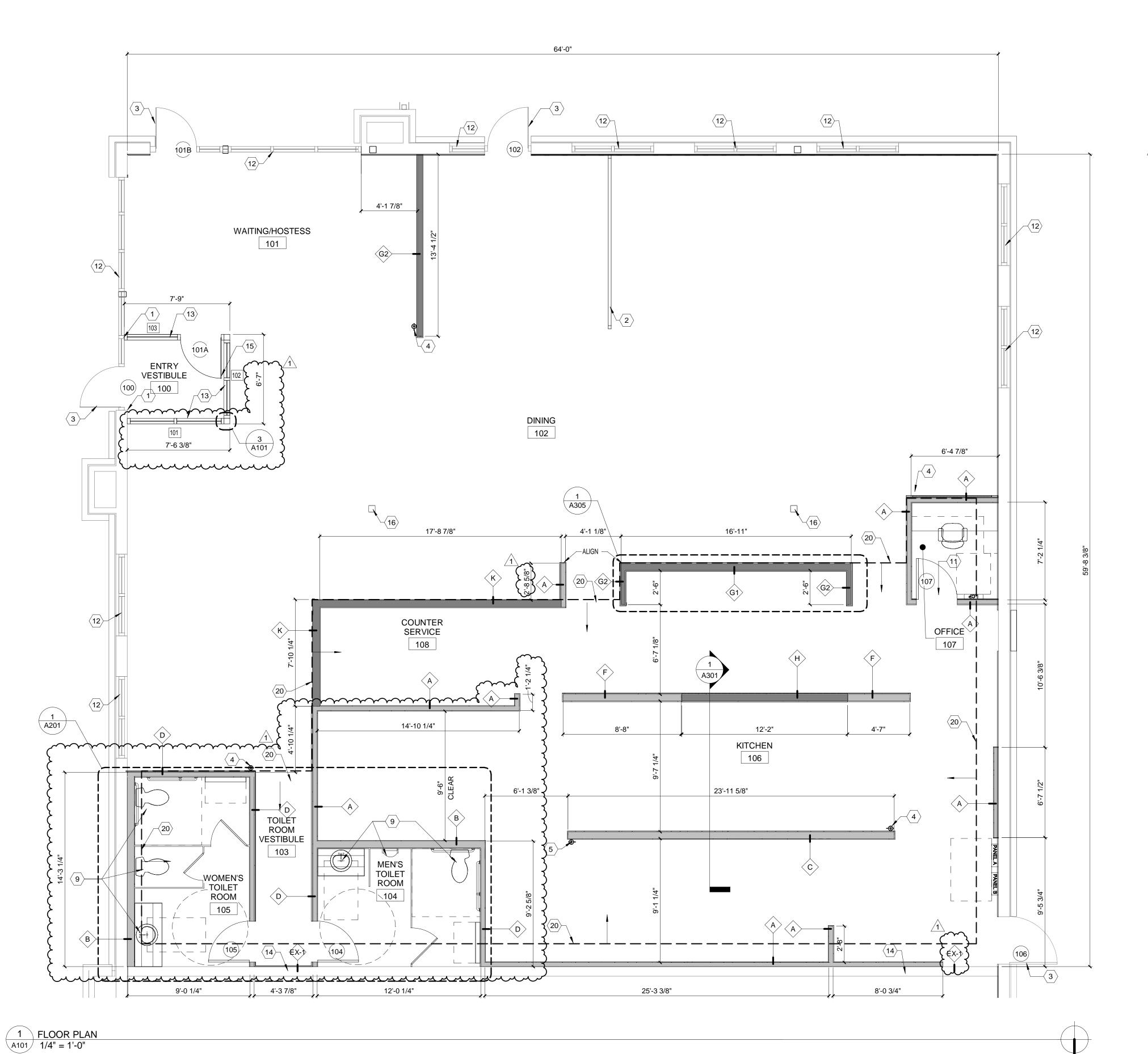


LEE'S **SUMMIT**

LEE'S SUMMIT, MO

DATE ISSUED 10/23/2019

CODE AND **PROJECT DATA SHEET**



GENERAL NOTES

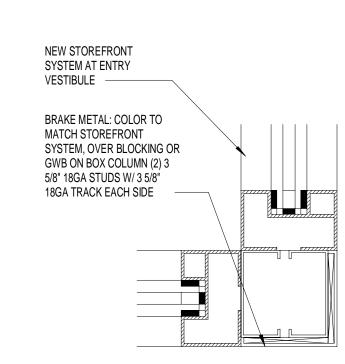
- 1. UNHATCHED WALLS/PARTITIONS ARE EXISTING (TO REMAIN); SHADED WALLS/PARTITIONS ARE NEW AND INDICATED WITH WALL TAG.
- 2. PARTITION LETTERS INDICATED REFER TO PARTITION TYPES ON A102a SHEET.
- 3. ALL DIMENSIONS ARE FROM FACE OF STUD OR MASONRY TO FACE OF STUD OR MASONRY
- 4. DOOR OPENING NUMBERS INDICATED REFER TO DOOR SCHEDULE ON SHEET A401.
- 5. FINISHES ARE AS INDICATED ON ROOM FINISH SCHEDULE ON SHEET A105, EXCEPT AS INDICATED OTHERWISE ON PLAN OR ELEVATIONS.
- 6. INSTALL MOISTURE-RESISTANT GYPSUM BOARD ON ALL TOILET ROOM WALLS. INSTALL MOISTURE-RESISTANT GYPSUM BOARD OR FRT PLYWOOD ON ALL NEW KITCHEN WALLS- SEE
- WALL TYPES FOR DETAILS. 7. CONTRACTOR TO VERIFY OVERALL DIMENSIONS OF SPACE PRIOR TO LAYING OUT NEW

PARTITIONS. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

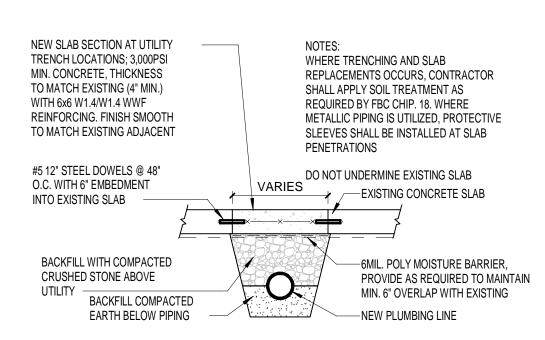
- 8. REPAIR AND TOUCH UP CEILING, WALLS AND HVAC ENCLOSURES WHERE PARTITIONS, CEILING BULKHEADS, FIXTURES, FINISHES, ETC. ARE REMOVED.
- 9. ALIGN NEW PARTITIONS WITH EXISTING CONSTRUCTION AS SHOWN UNLESS OTHERWISE NOTED OR DIMENSION.

KEYED NOTES

- \langle 1 \rangle align New Storefront framing with existing mullion/wall.
- \langle 2 \rangle WOOD BOOTH SCREEN PROVIDED BY FIRST WATCH. REFER TO 3/A303 FOR DETAILS.
- \langle 3 \rangle EXISTING DOOR & FRAME, REFER TO DOOR SCHEDULE ON SHEET A401 MULTIPURPOSE FIRE EXTINGUISHER WITH A MINIMUM SIZE OF 40A60BC (IN THE KITCHEN) AND 2A10BC (IN DINING AREAS) LOCATED PER 2018 IFC AND INSTALLED AT A MAXIMUM OF 48" THE FINISHED FLOOR TO THE TOP OF THE HANDLE. FINAL NUMBER AND LOCATIONS TO BE DETERMINED BY FIRE DEPARTMENT.
- CLASS K FIRE EXTINGUISHER, FINAL NUMBER AND LOCATIONS TO BE DETERMINED BY FIRE DEPARTMENTS.
- $\overline{6}$ NOT USED.
- $\langle 7 \rangle$ NOT USED.
- $\langle 8 \rangle$ NOT USED.
- \langle 9 \rangle PLUMBING FIXTURE (SEE SHEET A201 AND PLUMBING DRAWINGS).
- $\langle 10 \rangle$ NOT USED.
- TELEPHONE PANELS MOUNTED TO PLYWOOD BACKING PANEL ABOVE OFFICE DOOR (SEE SHEET A202 AND ELECTRIC DRAWINGS).
- (12) EXISTING STOREFRONT GLAZING/FRAMING.
- NEW STOREFRONT GLAZING/FRAMING. MATCH ANY NEW STOREFRONT AND STOREFRONT DOOR WITH EXISTING STOREFRONT.
- 14 PRESERVE ANY FIRE RATING AND INTEGRITY OF EXISTING TENANT DEMISING WALL TO REMAIN.
- 15 FLOOR MOUNTED DOOR STOP.
- $\langle 16 \rangle$ EXISTING COLUMN.
- $\langle 17 \rangle$ NOT USED.
- 18 NOT USED.
- $\langle 19 \rangle$ NOT USED.
- $\left\langle \overline{20} \right
 angle$ GC TO POUR SLAB IN THIS AREA PER LEASE.



3 VESTIBULE DETAIL A101 SCALE:



CONCRETE SLAB INFILL DETAIL A101 SCALE: 3/4" = 1'-0"

PLAN NORTH

CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

04/17/2020

P: 859.261.5400 F: 859.261.5530

www.agi-us.com designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2019 MST ISSUED FOR BID/PERMIT

> 11/20/2019 MPR PERMIT/LL COMMENTS



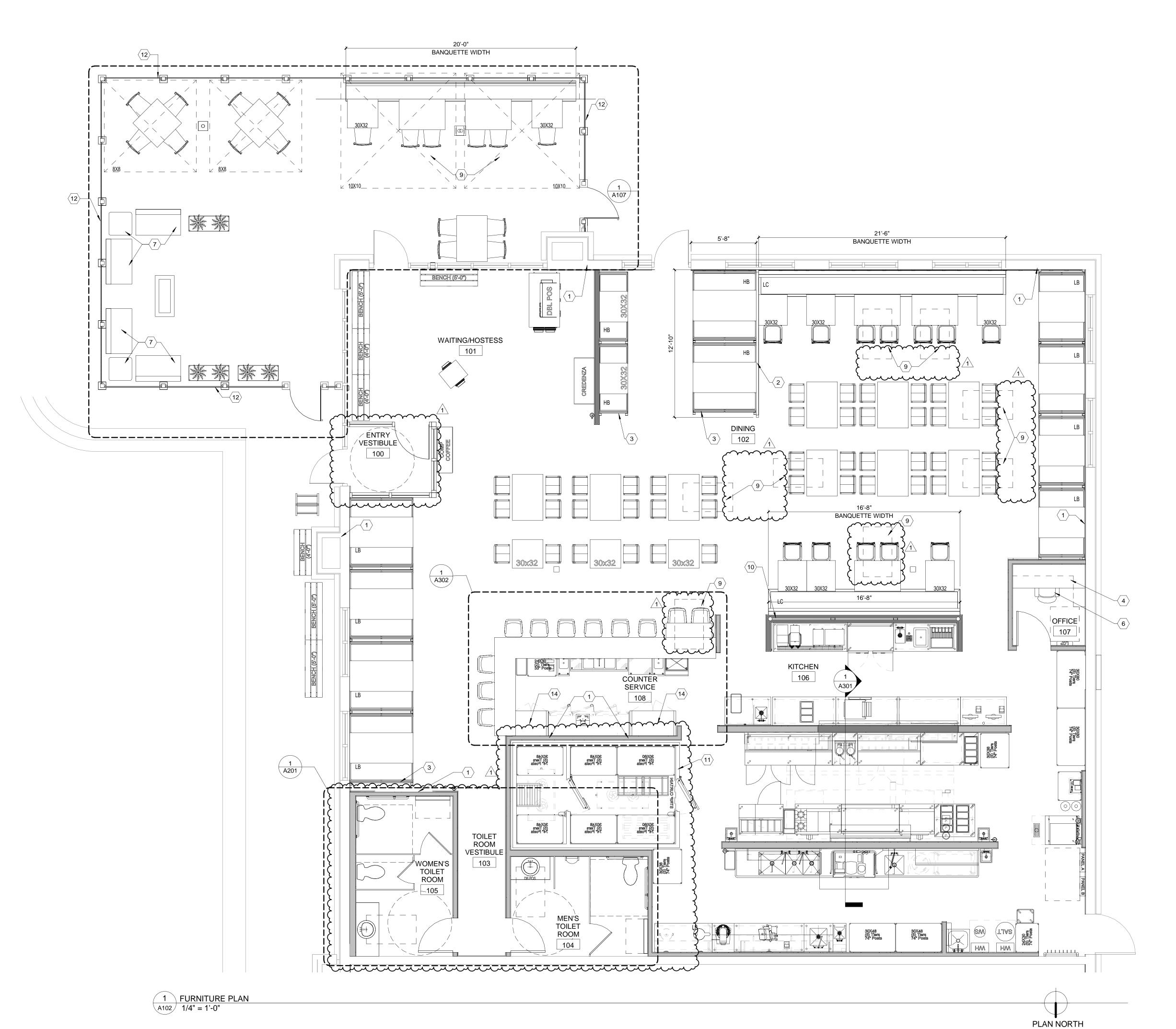


LEE'S **SUMMIT**

LEE'S SUMMIT, MO

PROJECT# DATE ISSUED 10/23/2019

FLOOR PLAN

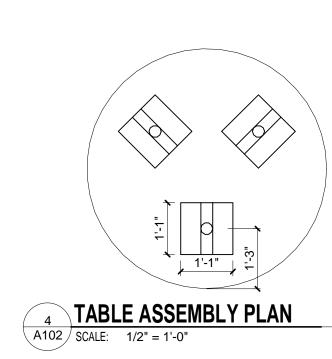


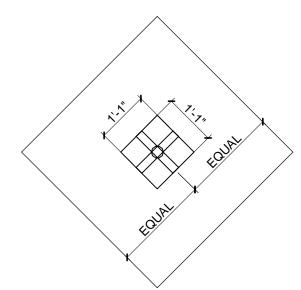
GENERAL NOTES

- ALL FURNITURE PROVIDED BY OWNER, CONTRACTOR TO ASSEMBLE TABLE BASES AND INSTALL. SEE A102a FOR FURNITURE LEGEND.
- 2. FURNITURE LOCATIONS ARE AS INDICATED, PROVIDE MINIMUM 3'-0" CLEARANCE BETWEEN ALL PERMANENT FURNITURE PIECES.
- 3. ADDITIONAL FIXTURE INFORMATION IS INDICATED ON ELEVATIONS.
- 4. ALL MATERIALS MUST BE INSTALLED TO FIRST WATCH SPECIFICATIONS AND STANDARDS. ANY ITEMS NOT INSTALLED TO FIRST WATCH STANDARDS WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO FIRST WATCH.
- 5. PROVIDE FIRE RETARDANT TREATED PLYWOOD BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS AND AS SPECIFICALLY NOTED. CONCEAL ALL BLOCKING IN WALLS.
- 6. BOOTHS AND BANQUETTES ARE DESIGNATED AS HIGH BACK (H) OR LOW BACK (L). REFER TO PLAN FOR LOCATION SPECIFIC ORDERING INFORMATION.
- 7. WAITING AREA FURNITURE TO BE DETERMINED BY FIRST WATCH PRIOR TO OPENING DATE.
- 8. WALK-IN COOLER TO BE 2" FROM ALL WALLS.
- 9. COMMUNITY TABLE TOPS TO BE REMOVED UPON DELIVERY AND RE-ATTACHED ONCE LOCATED IN THE SPACE.

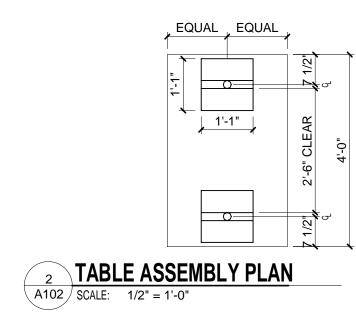
KEYED NOTES

- ARTWORK/DECOR ITEM SUPPLIED BY FIRSTWATCH, G.C. TO PROVIDE BLOCKING AS REQUIRED COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE AND SHEETS A201 & A202. IF BLOCKING CANNOT BE ADDED, PLEASE USE TOGGLE BOLT FASTENERS (REFER TO MANUFACTURER SPECIFICATIONS FOR SIZES AND INSTALLATION).
- 2 WOOD BOOTH SCREEN PROVIDED BY FIRST WATCH. REFER TO 3/A303 FOR DETAILS.
- \langle 3 \rangle BOOTH END TO BE FASTENED TO THE FLOOR
- 4 DESK.
- $\langle 5 \rangle$ NOT USED.
- $\overline{6}$ Chair.
- FURNITURE OR ACESSORY ITEM SPEC TO BE DETERMINED COORDINATION WITH FIRST WATCH REP. PRIOR TO FINALIZING ORDER
- 8 NOT USED.
- 9 ACCESSIBLE SEATING LOCATION.
- (10) PIPE WALL FEATURE SEE SHEETS A202 & A305 FOR DETAILS.
- (11) WALK-IN COOLER TO BE 14'-6" X 9'-2".
- (12) BARRIERS SUPPLIED BY AND INSTALLED BY G.C.
- (13) NOT USED.
- 14 DRY STORAGE CABINET. SEE MILLWORK DETAIL ON A302.





3 TABLE ASSEMBLY PLAN
A102 SCALE: 1/2" = 1'-0"



CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

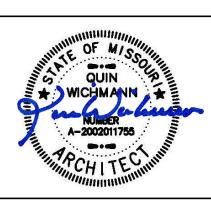
04/17/2020

®

HITECTURAL GROUP INTERNATIONAL

P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may discover

Date By Description
11/20/2019 MPR PERMIT/LL
COMMENTS

IRST WATCH HE DAYTIME CAFE



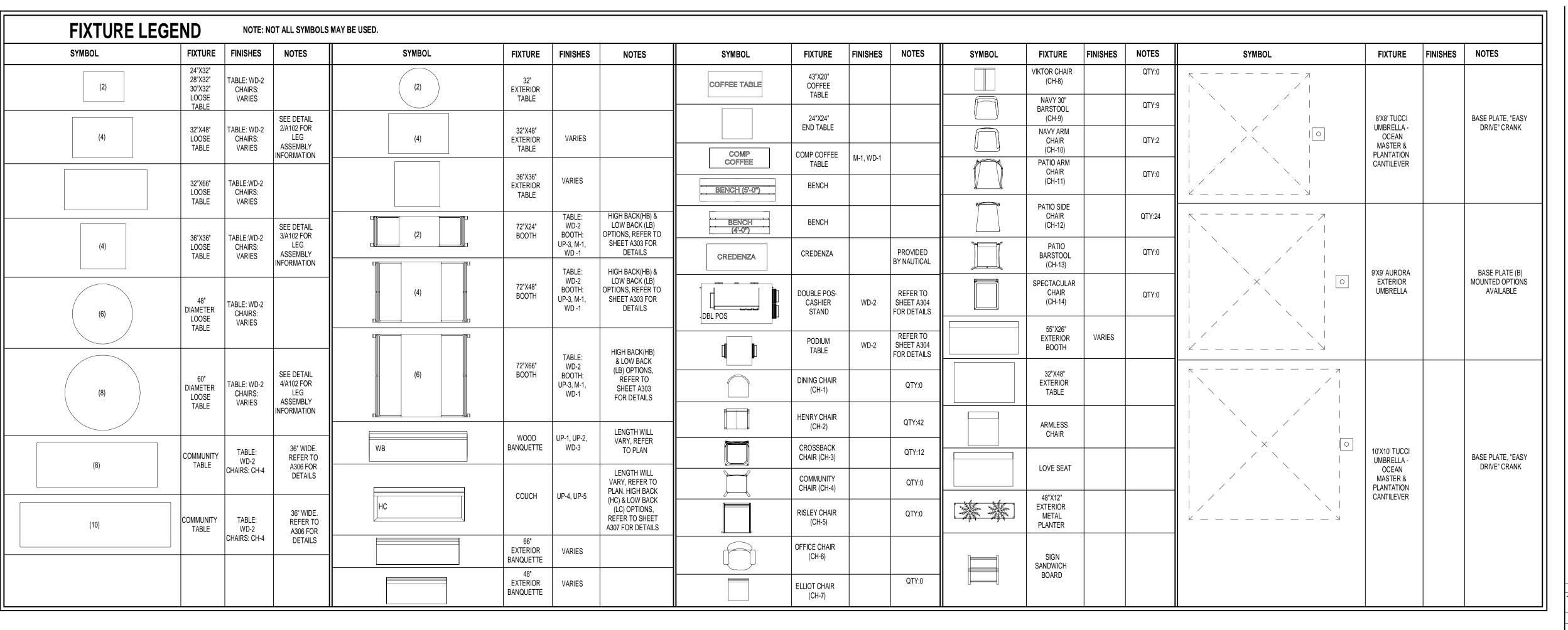
LEE'S SUMMIT

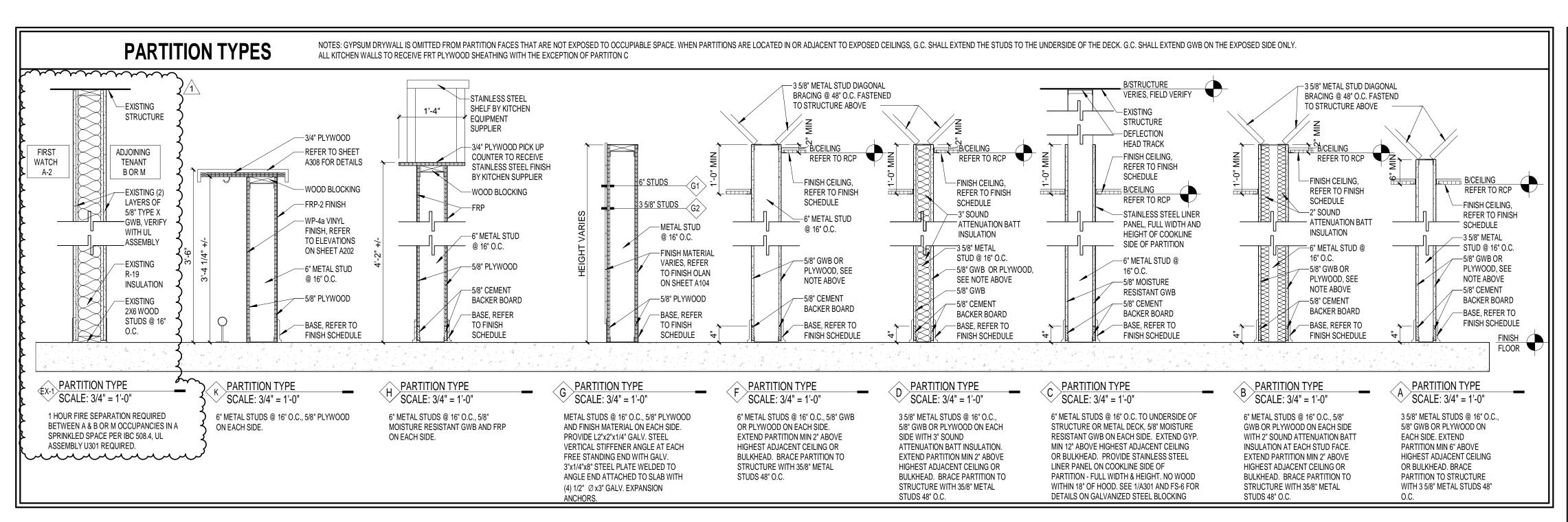
LEE'S SUMMIT, MO

PROJECT # 190727

DATE ISSUED 10/23/2019

FURNITURE AND FIXTURE PLAN





F	URNITU	RE FINISH	H SPECIFIC	CATIONS	
DESIGNATION	DESCRIPTION	MANUFACTURER/ SUPPLER	PRODUCT	COLOR	NOTES
PL-1	OFFICE DESK AND TOILET ROOM VANITY LAMINATE	WILSONART LAMINATE	1595-60	BLACK	
PL-2	BACKBAR CABINETS	WILSONART LAMINATE	HPL LAMINATE	WHITE DRIFTWOOD #8200	CASUAL RUSTIC #16 FINISH, INSTALL HORIZONTALLY
SS-1	BAR COUNTERTOP	DUPONT - ZODIAQ	QUARTZ 2 CM	VERSILLA GRIGIO	
SS-2	TOILET ROOM VANITY AND BACKSPLASH	WILSONART SOLID SURFACE	SOLID SURFACE 1/2"	NIGHT STARS 9105CS	
SS-3	TOILET ROOM VANITY SINK	FORMICA CORPORATIO	SOLID SURFACE SINK V065 INTEGRAL	ARTIC 102	
STN-1	STAIN	SHERWIN WILLIAMS	WOOD CLASSICS INTERIOR OIL STAIN	SW 3118-P FRUITWOOD	
STN-2	STAIN	TBD	TBD	LIGHT WALNUT STN-0937	TO BE APPLIED ON BOOTH AND BANQUETTE LEGS.
STN-3	STAIN	TBD	TBD	CARAMEL STN-5848	FINISH WITH BROWN WAX. TO BE APPLIED ON POS RANDOM PLANK ASH TOP
M-1	FRAME		1" HSS STEEL	NATURAL	BLACKEN ALL WELDS & GRINDS
UP-1	BANQUETTE BACK UPHOLSTERY	ARCHITEX	BILLOW	HONOLULU BEACH	
UP-2	BANQUETTE SEAT UPHOLSTERY	NASSIMI	HEMINGWAY	CHAPS WHM-002	
UP-3	BOOTH SEAT UPHOLSTERY	ARCHITEX	HUSH	MARINE	
UP-4	COUCH SEAT UPHOLSTERY	KEYSTONE BROTHERS	STUDIO VIBE	CLOVER TVI-008	
UP-5	COUCH BACK UPHOLSTERY	LTM TEXTILE RESOURCES, LLC	NEWPORT	OLIVE 7187119	
WD-1	BANQUETTES	TBD	RIFT CUT OAK	DISTRESSED WITH STAINING	TO RECEIVE PT-13 FINISH
WD-2	TABLE TOPS	TBD	RECLAIMED WOOD	DISTRESSED WITH STAINING	TO RECEIVE PT-13 FINISH

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020

(B)

ARCHITECTURAL GROUP INTERNATIONAL

15 West Seventh Street, Covington, KY 41011
P: 859.261.5400 F: 859.261.5530
www.agi-us.com

designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INTL and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

No. Date By Descriptio

1 11/20/2019 MPR PERMIT/LL COMMENTS

FIRST WATCH THE DAYTIME CAFE



LEE'S SUMMIT

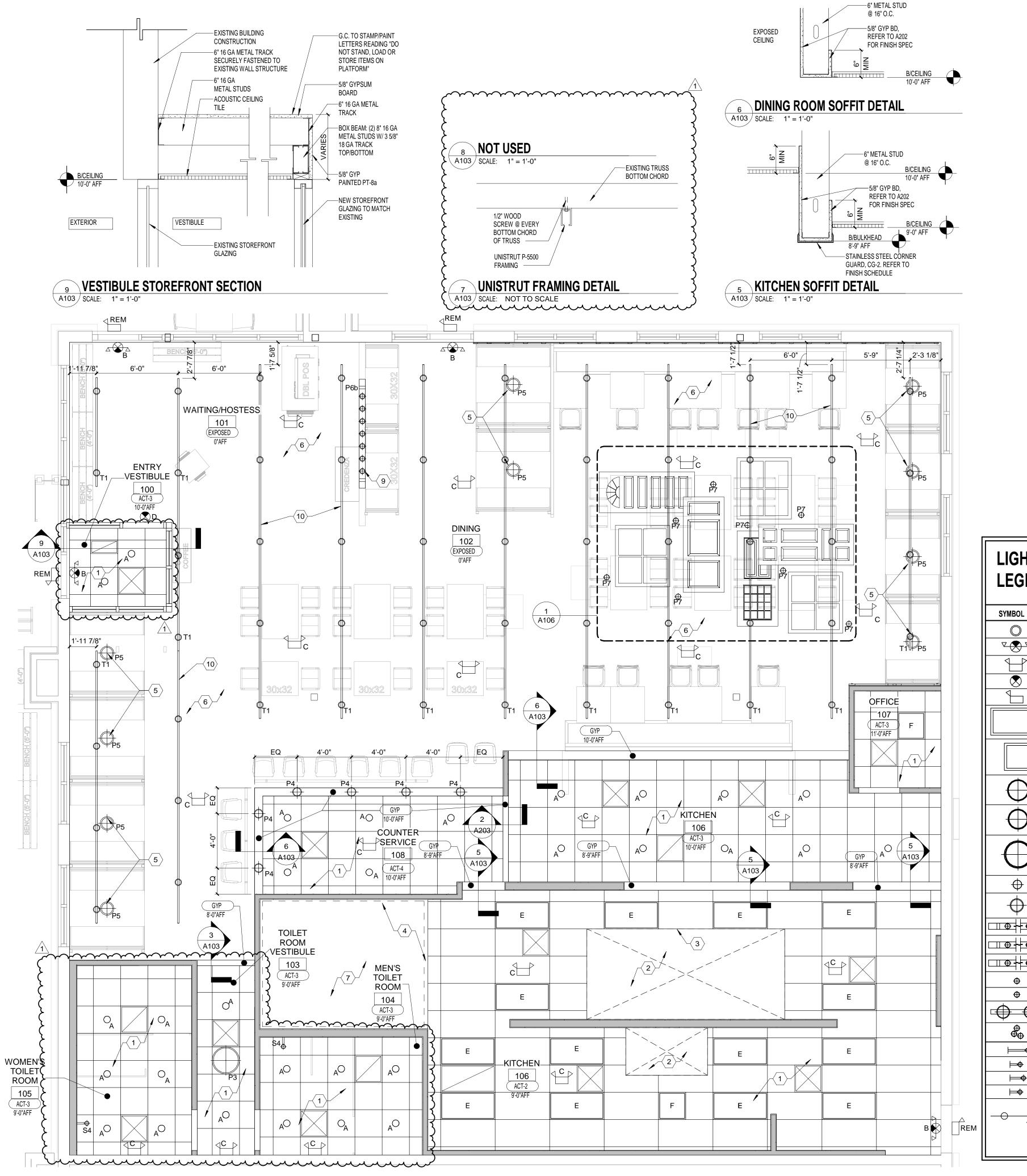
LEE'S SUMMIT, MO

PROJECT # 190727

DATE ISSUED 10/23/2019

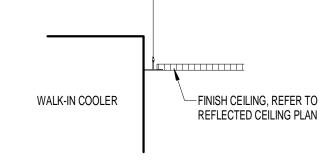
FURNITURE & FIXTURE SCHEDULES

A102a

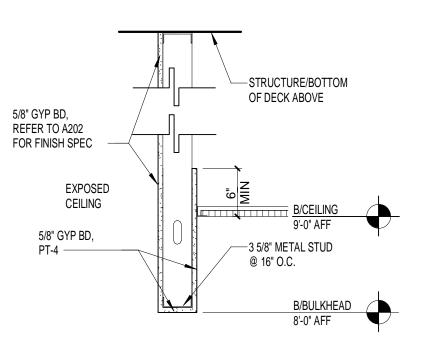


1 REFLECTED CEILING PLAN

A103 1/4" = 1'-0"

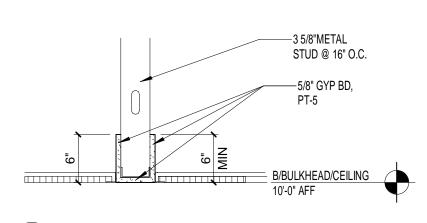


COOLER CONNECTION DETAIL A103 SCALE: 1'' = 1'-0''



DINING ROOM SOFFIT DETAIL

A103 | SCALE: 1'' = 1'-0''



FLUSH SOFFIT DETAIL A103 SCALE: 1'' = 1'-0''

NOTE: NOT ALL SYMBOLS MAY BE USED. REFER TO ELECTRICAL LIGHT FIXTURE DRAWINGS FOR DETAILS **LEGEND** NOTE: BOTTOM OF PENDANTS ABOVE FIXED SEATING TO BE AT 6'-0" AFF BOTTOM OF PENDANTS ABOVE LOOSE SEATING TO BE AT 6'-8" AFF TYPE DESCRIPTION NOTES SYMBOL RECESSED CAN LIGHT FIXTURE WITH BAFFLE TRIM BLACK IN EXPOSED CEILING SITUATIONS REMOTE CAPABLE WITH BATTERY BACKUP CEILING MOUNT FIXTURE IN DINING AREA. 2 HEADED EMERGENCY LIGHT FIXTURE BLACK IN EXPOSED CEILING SITUATIONS. LED EXIT SIGN WITH BATTERY BACKUP REMOTE EMERGENCY LIGHT UNIT SEE ELECTRICAL DRAWINGS FOR DETAILS 3 LAMP 2' X 4' LAY-IN TROFFER LED LIGHT FIXTURE

	F	2' X 2' LAY-IN TROFFER LED LIGHT FIXTURE	
\bigoplus	P1	LINCOLN HAING LAMP	BOTTOM OF PENDANT MOUNTED AT 6'-8" AFF
\bigoplus	P2	WHITE WASHED BASKET LIGHT	BOTTOM OF PENDANT MOUNTED AT 6'-0" AFF
igoplus	P3	24" CONICAL DRUM FLUSH MOUNT	BOTTOM OF PENDANT MOUNTED AT 6'-8" AFF
+	P4	WHISK PENDANT LIGHT	
lack	P5	RUSTIC FARMHOUSE PENDANT	
	P6	16' LARGE BEAM WITH EDISON PENDANTS	BOTTOM OF BEAM MOUNTED AT 10'-0" AFF
	P6a	6' SMALL BEAM WITH EDISON PENDANTS	BOTTOM OF BEAM MOUNTED AT 8'-6" AFF
	P6b	8' MEDIUM BEAM WITH EDISON PENDANTS	BOTTOM OF BEAM MOUNTED AT 8'-6" AFF
Ф	P7	BASIC BLACK CORD DROP PENDANT	
\Phi	P7a	BASIC BLACK CORD DROP PENDANT WITH CAGE	
	P8	2 LIGHT BEAM PENDANT	
⊕⊕	P9	3 CAGE LIGHT PENDANT	
□	S1	TRIANGULAR BRACKET WALL SCONCE	BOTTOM OF PENDANT MOUNTED AT 6'-0"
⊨	S2	SMALL PULLEY WALL SCONCE	AFF; REFER TO A203 FOR LOCATION OF

LARGE PULLEY WALL SCONCE

INDUSTRIAL WALL SCONCE

TRACK LIGHT FIXTURE PACKAGE - 6" DEEP

O DOWN LIGHT

 $ar{ riangle}$ WALL WASH

JUNCTION BOX FOR EACH SCONCE TYPE.

CONFIRM FINAL INSTALL LOCATION

WITH FIRST WATCH.

BOTTOM OF TRACK MOUNTED

ABOVE PAINT LINE, TIGHT TO

UNDERSIDE OF LOWEST DUCTWORK

OR STRUCTURE. ALL TRACK FIXTURES TO ACT AS DOWN LIGHTS,

6'-0" O.C. TYP., UNLESS OTHERWISE

GENERAL NOTES

1. ADDITIONAL INFORMATION FOR LIGHT FIXTURES AND SPEAKERS IS INDICATED ON ELECTRICAL

- 2. ADDITIONAL INFORMATION FOR HVAC DIFFUSERS, GRILLES, AND FANS IS INDICATED ON MECHANICAL AND FOOD SERVICE DRAWINGS.
- 3. WHEN REQUIRED, SPRINKLER SYSTEM TO BE DESIGNED AND MODIFIED BY SPRINKLER CONTRACTOR TO PROVIDE COVERAGE FOR RESTAURANT (PER NFPA 13) ADJUST SPRINKLER HEAD MOUNTING HEIGHTS AND LINE LOCATIONS TO ACCOMMODATE NEW CEILING HEIGHTS. CENTER SPRINKLERS IN ACOUSTIC TILES.
- 4. CEILING FINISHES ARE AS INDICATED ON FINISH SCHEDULE ON SHEET A105, EXCEPT AS INDICATED OTHERWISE ON PLAN.
- 5. CEILING HEIGHTS INDICATED ON PLAN ARE FROM TOP OF FINISH FLOOR SLAB TO BOTTOM OF
- 6. SUSPENDED ACOUSTICAL PANEL CEILING GRIDS ARE CENTERED BETWEEN PRIMARY BOUNDARY WALLS OF ROOM, EXCEPT AS INDICATED OTHERWISE ON PLAN.
- 7. ALL MATERIALS MUST BE INSTALLED TO FIRST WATCH SPECIFICATIONS AND STANDARDS. ANY ITEMS NOT INSTALLED TO FIRST WATCH STANDARDS WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO FIRST WATCH.
- 8. CEILING FIXTURES ARE CENTERED IN ACOUSTICAL CEILING PANELS EXCEPT AS INDICATED OTHERWISE ON PLAN.
- 9. PROVIDE HOLD DOWN CLIPS IN VESTIBULE.
- 10. SPIRAL DUCT SHALL NOT BE PAINTED.
- 11. DECK TO BE PAINTED TO MATCH ABOVE PAINTLINE. REFER TO A202 FOR PAINT DESIGNATION. 12. REFER TO PARTITION DETAILS ON SHEET A102a FOR BRACING TO STRUCTURE ABOVE.

KEYED NOTES

- ACOUSTICAL PANEL CEILING (HEIGHT AS INDICATED). SUSPENDED FROM BEAMS/JOISTS ABOVE BY 8 \langle 1 \rangle Ga. Hanger Wires (@ 48" O.C.) Height as indicated. Provide supplemental unistrut FRAMING AS REQUIRED (SEE DETAILS, THIS SHEET).
- (2) OPENING IN CEILING GRID FOR KITCHEN EQUIPMENT.
- \langle 3 \rangle CENTER CEILING GRID ON EXHAUST HOOD.
- OUTLINE OF WALK IN COOLER. DO NOT PLACE CEILING TILES OVER THE WALK-IN, SEE DETAIL 4/A103 FOR CEILING CONNECTION DETAIL.
- FIXTURES ARE TO BE CENTERED ON THE FINAL TABLE LOCATION. DO NOT INSTALL PENDANTS UNTIL TABLE LOCATION HAS BEEN APPROVED BY FIRST WATCH.
- 6 EXISTING STRUCTURE EXPOSED
- \langle 7 \rangle at walk in cooler, provide a minimum clearance of 13'-1" aff to equipment above.
- \langle 8 \rangle NOT USED.
- \langle 9 \rangle FIXTURES ARE TO BE CENTERED ON THE FINAL PARTIAL HEIGHT WALL LOCATION.
- TRACK LIGHT FIXTURES TO BE 6'-0" O.C. FOR FULL COVERAGE. SEE DIMENSIONED FIRST TRACK LIGHT AS A BENCHMARK.

CEILING FIXTURE LEGEND							
SYMBOL	DESCRIPTION	NOTES					
	24 X 24 SUPPLY AIR DIFFUSER	SEE MECHANICAL DRAWINGS FOR DETAILS					
	24 X 24 RETURN AIR GRILLE	SEE MECHANICAL DRAWINGS FOR DETAILS					
E/F	12 X 12 EXHAUST FAN	SEE MECHANICAL DRAWINGS FOR DETAILS					

CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2019 MST ISSUED FOR BID/PERMIT

11/20/2019 MPR PERMIT/LL COMMENTS



LEE'S **SUMMIT**

LEE'S SUMMIT, MO

DATE ISSUED 10/23/2019

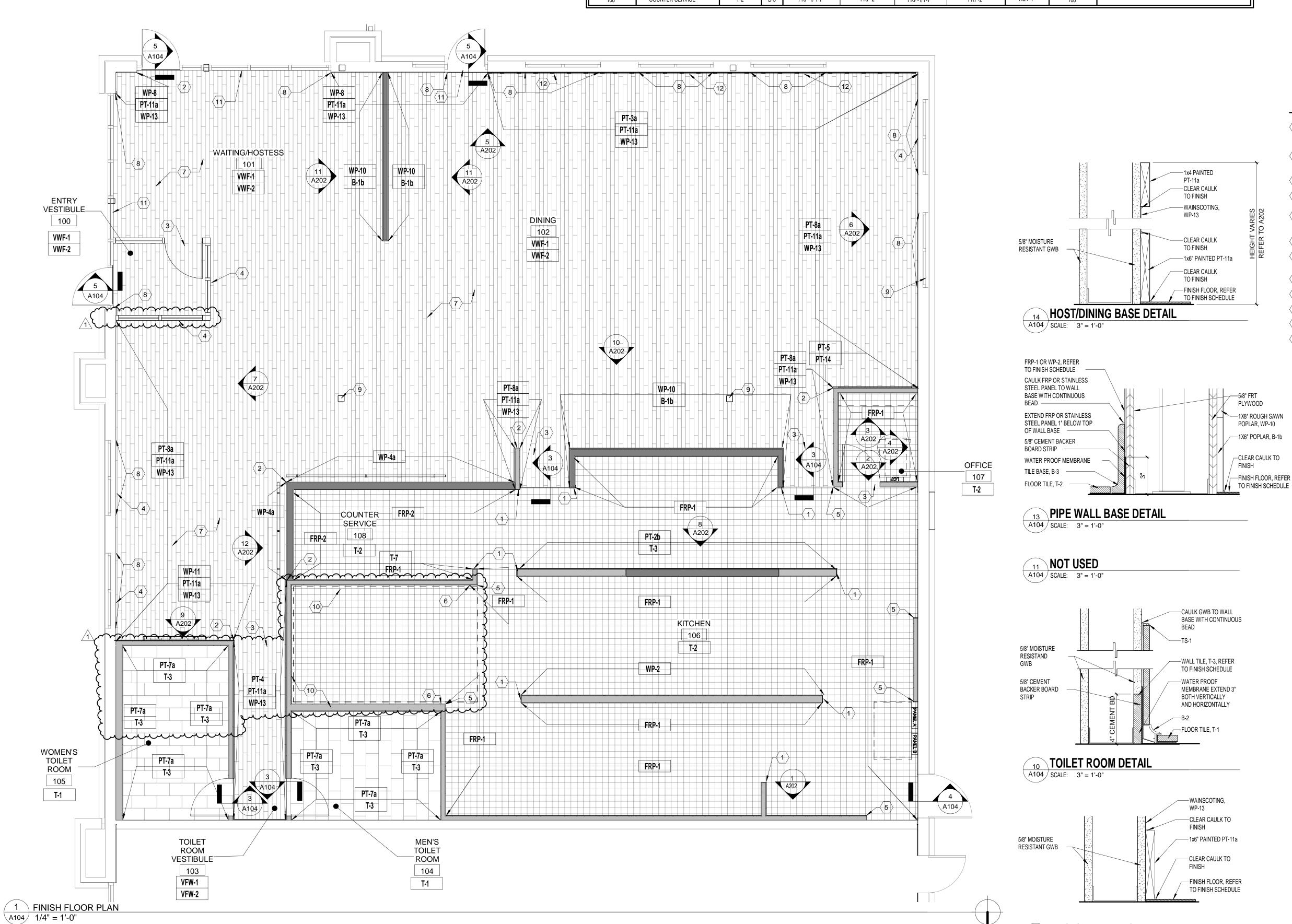
REFLECTED **CEILING PLAN**

A103



S4

	ROOM FINISH SCHEDULE											
ROOM	ROOM NAME	FLOOR	BASE		WALLS			CEILING	ROOM NUMBER	REMARKS		
				NORTH	SOUTH	EAST	WEST					
100	ENTRY VESTIBULE	VWF-1/VWF-2						ACT-3	100			
101	WAITING/HOSTESS	VWF-1/VWF-2			WP-8/PT-11a/WP-13	WP-10	WP-8/PT-11a/WP-13	EXPOSED	101			
102	DINING	VWF-1/VWF-2	B-1b	PT-5/ PT-14/ WP-10/WP-4a/WP-11 PT-11a/WP-13	PT-3a/ WP-8/ PT-11a/WP-13	PT-8a/PT-11a/ WP-13/WP-10	PT-8a/ PT-11a/ WP-13/WP-4a	EXPOSED	102			
103	TOILET ROOM VESTIBULE	VWF-1/VWF-2		PT-4/PT-11a/ WP-13	-	PT-4/PT-11a/ WP-13	PT-4/PT-11a/ WP-13	ACT-3	103	ALL WALLS TO RECEIVE MOISTURE RESISTANT GWB		
104A	MEN'S TOILET ROOM	T-1/GRT-2	B-2	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	ACT-3	104A	ALL WALLS TO RECEIVE MOISTURE RESISTANT GWB		
104B	MEN'S ADA TOILET ROOM	T-1/GRT-2	B-2	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	ACT-3	104B	ALL WALLS TO RECEIVE MOISTURE RESISTANT GWB		
105A	WOMEN'S TOILET ROOM	T-1/GRT-2	B-2	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	ACT-3	105A	ALL WALLS TO RECEIVE MOISTURE RESISTANT GWB		
105B	WOMEN'S ADA TOILET ROOM	T-1/GRT-2	B-2	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	T-3/PT-7a	ACT-3	105B	ALL WALLS TO RECEIVE MOISTURE RESISTANT GWB		
106	KITCHEN	T-2/GRT-1	B-3	FRP-1/ WP-2/ PT-2b/T-3	FRP-1/FRP-2	FRP-1	FRP-1	ACT-2/ACT-3	106			
107	OFFICE	T-2/GRT-1	B-3	FRP-1	FRP-1	FRP-1	FRP-1	ACT-3	107			
108	COUNTER SERVICE	T-2	B-3	FRP-1/T-7	FRP-2	FRP-1/T-7	FRP-2	ACT-4	108			



GENERAL NOTES

EXCEPT AS NOTED.

- UNHATCHED WALLS/PARTITIONS ARE EXISTING (TO REMAIN); SHADED WALLS/PARTITIONS

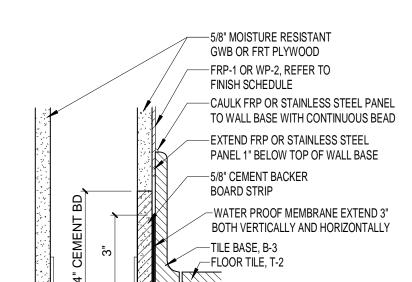
 ARE NEW
- 2. TILE FLOORING PATTERN IS CENTERED BETWEEN PRIMARY BOUNDARY WALLS OF ROOM, EXCEPT AS INDICATED OTHERWISE ON PLAN.
- EXCEPT AS INDICATED OTHERWISE ON PLAN.

 3. ALL DIMENSIONS ARE FROM FACE OF STUD OR MASONRY TO FACE OF STUD OR MASONRY
- 4. FLOORING TRANSITION NUMBERS INDICATED REFER TO DETAILS ON SHEET A104.
- 5. JOINTS BETWEEN FLOOR TILE AND ALL FLOOR PENETRATIONS ARE TO BE SEALED WITH LATEX CAULK (TO MATCH GROUT).
- 6. ALL TILED WALL BASE CORNERS TO BE MITERED WHERE APPLICABLE.
- 7. ALL NEW AND EXISTING KITCHEN WALLS TO RECEIVE TILE BASE WITH CEMENT BACKER BOARD BACK UP, SEE DETAILS 8/A104 & 11/A104.
- 8. ALL NEW AND EXISTING TOILET ROOM WALLS TO RECEIVE TILE BASE WITH CEMENT BACKER
- BOARD BACK UP, SEE DETAIL 10/A104.
- 9. ALL MATERIALS MUST BE INSTALLED TO FIRST WATCH SPECIFICATIONS AND STANDARDS. ANY ITEMS NOT INSTALLED TO FIRST WATCH STANDARDS WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO FIRST WATCH.
- CLEAR SILICONE CAULK TO BE APPLIED AT JOINTS WHERE REQUIRED IN ALL KITCHEN AND TOILET ROOM LOCATIONS. CLEAR LATEX OR OTHER PAINTABLE CAULK TO BE APPLIED AT ALL OTHER JOINTS WHERE REQUIRED.
- 11. EVERYTHING ABOVE DESIGNATED PAINT LINE TO BE PT-7 EXCLUDING SPIRAL DUCT, REFER TO A202 FOR HEIGHT.
- 12. ALL FLOOR GROUT/TILE TO BE SEALED.

KEYED NOTES

- STAINLESS STEEL CORNER GUARD, CG-2. REFER TO FINISH SCHEDULE AND SPECIFICATIONS.

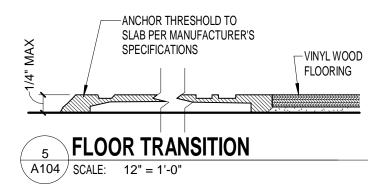
 ALL GUARDS IN KITCHEN TO BE FULL HEIGHT, ALL GUARDS ON WALL ENDS TO WRAP ENTIRE END, REFER TO DETAIL 6/A301 & 10/A301.
- STEEL CORNER GUARD, CG-1, REFER TO FINISH SCHEDULE. ALL GUARDS ON WALL ENDS TO WRAP ENTIRE END. GUARDS TO RUN TO TOP OF FLOOR, REFER TO SHEETS A201 AND A202 FOR HEIGHTS.
- $\overline{3}$ NO FLOORING TRANSITION REQUIRED.
- 4 WALL ABOVE STOREFRONT TO RECEIVE PT-8a FINISH.
- STAINLESS STEEL CORNER GUARD, CG-2. REFER TO FINISH SCHEDULE AND SPECIFICATIONS. ALL GUARDS IN KITCHEN TO BE FULL HEIGHT, ALL GUARDS ON WALL ENDS TO WRAP ENTIRE END, REFER TO DETAIL 8/A301.
- $\fbox{6}$ FRP TO EXTND 4" BEYOND EDGE OF WALK-IN COOLER.
- 7 FLOORING PATTERN TO BE 2/3 VWF-1 & 1/3 VWF -2. RANDOM PATTERN WITH NO DISCERNABLE REPEAT.
- $\langle 8 \rangle$ WALL FINISH AT STOREFRONT RETURNS TO MATCH THE ADJACENT WALL.
- 9 EXISTING COLUMN TO RECEIVE PT-9 FINISH.
- (10) WATER-PROOFING AND BASE BEHIND WALK-IN.
- (11) WALL ABOVE STOREFRONT TO RECIEVE WP-8 FINISH.
- $\langle 12 \rangle$ WALL ABOVE STOREFRONT TO RECIEVE PT-3a FINISH.

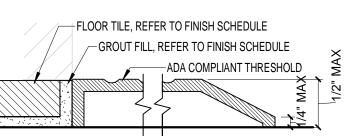


8 KITCHEN BASE DETAIL A104 SCALE: 3" = 1'-0"

7 NOT USED
A104 SCALE: 12" = 1'-0"

6 NOT USED
A104 SCALE: 12" = 1'-0"





FLOOR TILE. FLOOR TILE. FLOOR TILE. FLOOR TILE. FLOOR TILE. FINISH SCULPDUM F.

FLOOR TILE,
REFER TO FINISH
SCHEDULE

TS-5

VINYL WOOD
FLOORING, VWF-1



2 NOT USED
A104 SCALE: 12" = 1'-0"

PLAN NORTH

9

HOST/DINING BASE DETAIL

SCALE: 3" = 1'-0"

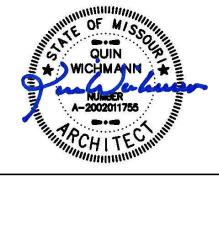
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

ARCHITECTURAL GROUP INTERNATION

15 West Seventh Street, Covington, KY 41011
P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may discover.

Date By Description
11/20/2019 MPR PERMIT/LL
COMMENTS

FIRST WATCH THE DAYTIME CAFE



LEE'S SUMMIT

LEE'S SUMMIT, MO

PROJECT # 190727

DATE ISSUED 10/23/2019

FLOOR FINISH PLAN

FINISI	H SPECIFICA	TIONS		NOTE: NOT	TALL FINISHES MAY BE USED						
ESIGNATION	DESCRIPTION	MANUFACTURER/ SUPPLIER	PRODUCT	COLOR	NOTES	DESIGNATION	DESCRIPTION	MANUFACTURER/ SUPPLIER	PRODUCT	COLOR	NOTES
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CORTEGA 704(24"X24"X5/8") TILES PRELUDE XL (15/16") GRID	WHITE WHITE	TEGULAR, REVEALED EDGE ALUMINUM CAP						3/16" GROUT; GRT-2. THIN SET & WATERPROOFING - SUMMITVILLE
ACT-2	ACOUSTICAL	CAPAUL	VINYLROCK X(24"X48"X1/2") TILES	WHITE CRF-1	OR APPROVED EQUAL		FLOOR TILE	TRI-STATE TILE/READING ROCK	12X24 PORCELAIN TILE IRG1224128 12X24	AQUA	S-9000 LIQUID MEMBRANE TO BE PROVIDED BY VENDOR AS PART
A01-2	CEILING TILE	ARMSTRONG CAPOUL	PRELUDE XL (15/16") GRID VINYLROCK X(24"X24"X1/2") TILES	WHITE WHITE CRF-1	ALUMINUM CAP OR APPROVED EQUAL	_					OF TILE PACKAGE
ACT-3	ACOUSTICAL CEILING TILE	ARMSTRONG	PRELUDE XL (15/16") GRID	WHITE	ALUMINUM CAP						3/16" GROUT; GRT-1. THIN SET & WATERPROOFING - SUMMITVILLE
ACT-4	ACOUSTICAL CEILING TILE	AMERICAN TIN CEILINGS	ACOUSTICAL PATTERN #6	ARTISIAN SILVER WASHED WHITE		T-2	FLOOR TILE	TRI-STATE TILE/READING ROCK	6X6 QUARRY TILE SQT33ARB SEL6X6	33 FALCON	S-9000 LIQUID MEMBRANE TO BE PROVIDED BY VENDOR AS PART
B-1	COVE BASE	ARMSTRONG JOHNSONITE	PRELUDE XL (15/16") GRID 6" VINYL COVE BASE	WHITE 40 BLACK	ALUMINUM CAP						OF TILE PACKAGE 1/16" GROUT; GRT-2. THIN SET &
B-1a	COVE BASE	JOHNSONITE	6" VINYL COVE BASE	55 SILVER GREY				TRI-STATE	3X6 CERAMIC TILE	WHITE	WATERPROOFING - SUMMITVILLE
B-1b	PAINT	SHERWIN WILLIAMS	INTERIOR PAINT-SUPERPAINT ACRYLIC LATEX - SEMI GLOSS	SW 7019 GAUNTLET GREY	PAINTED 1x6 POPLAR	T-3	WALL TILE	TILE/READING ROCK	USU2813X6	MATTE FINISH	S-9000 LIQUID MEMBRANE TO BE PROVIDED BY VENDOR AS PART OF TILE PACKAGE
B-2	TOILET ROOM WALL COVE BASE	TRI-STATE TILE/ READING ROCK	SDAHK1S100AE	SATIN ANODIZED ALUMINUM						1. TENDER GRAY	1/8" GROUT; GRT-2. RANDOM
B-3	TILE BASE	TRI-STATE TILE/ READING ROCK	SQT33QB3565 - 5"X6" QUARRY TILE COVER BASE (ROUND TOP)	33 FALCON	ABRASIVE, GRT-1	T-4	WALL TILE	TRI-STATE TILE/READING ROCK	MAIOLICA CRACKLED 3X12 CERAMIC TILE	CRACKLED 2. WHITE CRACKLED 3. STEEL BLUE	INSTALLATION, CONFIRM PATTERN WITH FIRST WATCH REPRESENTATIVE
CLNG-1	SNOW FENCE-RED	DISCOUNT FENCE	50'X48' ASPEN OR SPRUCE	REDWOOD STAINED	SUPPLIED AND INSTALLED BY					CRACKLED	
CLNG-2	SNOW FENCE-NATURAL	SUPPLY, INC. DISCOUNT FENCE	WOOD SNOW FENCE 50'X48' ASPEN OR SPRUCE	(SFN4850) NATURAL	G.C. SUPPLIED AND INSTALLED BY	T-5	WALL TILE	STONEPEAK CERAMICS	PORCELAIN TILE 4"x12"	ADAMS FLAVUS GLOSSY, 754972 WHITE MATTE	1/16" GROUT; GRT-2
		SUPPLY, INC.	WOOD SNOW FENCE	(SFN4850)	G.C.	T-6	WALL TILE	US CERAMICS	PORCELAIN TILE 10"x15"	FINISH	1/16" GROUT; GRT-2
CG-1a	CORNER GUARD CORNER GUARD	TBD TBD	STEEL ANGLE TBD	TBD		T-7	WALL TILE	TRI-STATE TILE/ READING ROCK	MAIOLICA CRACKLED 3x12 CERAMIC TILE	TENDER GRAY CRACKLED	1/8" GROUT; GRT-2. STACKED HORIZONTALLY
CG-2	CORNER GUARD		18 GA. STAINLESS STEEL		2" RETURNS, 1/8-1/4 HUGGED EDGE	TS-1	TRANSITION	TRI-STATE TILE/ READING ROCK	SCHAE100	SATIN ANODIZED ALUMINUM	
FAB-1	CURTAIN	TBD	TBD	TBD	TO BE DETERMINED BY FIRST WATCH	TS-2	TRANSITION	JOHNSONITE	CTA-XX-D	BLACK	
FRP-1 FRP-2	FRP	MARLITE	STANDARD FRP	P100 WHITE		TS-3	TRANSITION	JOHNSONITE	EG-XX-G	BLACK	
	FRP	MARLITE TRI-STATE TILE/	\$807N	SMOOTH BLACK		TS-4	TRANSITION	JOHNSONITE	SSR-XX-B	BROWN	
GRT-1 GRT-2	GROUT GROUT	READING ROCK TRI-STATE TILE/	S710524125 C335WGFG125	524 BUCKEYE #335 WINTER	FIELD VEDIEV COLOD MATCHES	TS-5	TRANSITION	TRI-STATE TILE/ READING ROCK	SRENOAEU100	SATIN ANODIZED ALUMINUM	
PT-1	WALL PAINT	READING ROCK SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH	GRAY SW 7057	FIELD VERIFY COLOR MATCHES	WP-2	STAINLESS STEEL WALL PANEL	TRIMARK	18 GA. WALL PANELS		HEMMED SEAMS
				SILVER STRAND SW 6207		WP-3	WALL PANEL		1X6 POPLAR		SEALED WITH PT-8
PT-2a PT-2b	WALL PAINT WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH INTERIOR PAINT - SEMI GLOSS FINISH	RETREAT SW 6207		WP-4a	WALL PANEL	KARNDEAN	VINYL PLANK 2.5mm 6" x 36"	WHITE PAINTED PINE KP105	INSTALL HORIZONTALLY
1 1-20	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - SEMI GLOSS FINISH	RETREAT		WP-5a	WALL PANEL	AMERICAN TIN CEILINGS	TIN WALL TILES	ARTISAN SILVER	BACKSPLASH PATTERN #3
PT-3	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH	SW 7031 MEGA GREIGE SW 9140						WASHED WHITE 1. ARTISAN SILVER WASHED WHITE	PATTERNS: 3, 6, 12, 16
PT-3a	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH INTERIOR PAINT - SEMI GLOSS FINISH	BLUSTERY SKY SW 6373		WP-5b	WALL PANEL	AMERICAN TIN CEILINGS	TIN WALL TILES	2. GOLD WASHED WHITE 3. SILVER TUSCAN	FINISH & PATTERN TO BE ORDEREI IN RANDOM COMBINATION OF EQU QUANTITY; INSTALLED IN MATCHIN
PT-4 PT-5	WALL PAINT WALL PAINT	SHERWIN WILLIAMS SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH	HARVESTER SW 7007	BARN DOOR	-				BRONZE 4. GOLD PATINA	GROUPINGS OF 4 TILES, ARRAYED RANDOMLY
				BRIGHT WHITE		WP-6	WALL PANEL		BEADBOARD		PAINT FINISH VARIES, REFER TO A
PT-6	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH	SW 6232 MISTY SW 7029		WP-7	WALL PANEL	-	THIN BRICK		COORDINATE GROUT EXECUTION W/FW
PT-7	PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH	AGREEABLE GRAY		WP-8	WALL PANEL	NAUTICAL	1x6 RECLAIMED THIN WOOD	GRAY	SUPPLIED BY FIRST WATCH, INSTALLED BY GC
PT-7a	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - SEMI GLOSS FINISH	SW 9143 CADET		WP-9	WALL PANEL	MDC WALLCOVERINGS	MERINO - GENON CONTRACT 1X6 BARN WOOD PRE-	HONEY MAPLE W2ME16	SUPPLIED AND INSTALLED BY G
PT-8	STAIN	MINWAX	WOOD FINISH INTERIOR WOODSTAIN	NATURAL 209		WP-9a	WALL PANEL		FINISHED WHITE SHIPLAP		50/50 RATIO OF PT-7 PAINTED
PT-8a	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT - EGGSHELL FINISH	SW 7023 REQUISITE GRAY		WP-10	WALL PANEL		1X8 POPLAR		BOARDS & PT-3 PAINTED BOARDS NO DISCERNABLE PATTERN
PT-9	SEALANT	RUST-OLEUM	ZINSSER QUICK-15	CLEAR SATIN FINISH		WP-11	WALL PANEL	NAUTICAL	CORRUGATED METAL WALL COVERING	GALVANIZED	
PT-10	PAINT	SHERWIN WILLIAMS	MACROPOXY 646 FAST CURE EPOXY	WHITE		WP-12	WALL PANEL	KARNDEAN	VINYL PLANK 2.5mm 18" x 36"	AUREGO SP716	INSTALL VERTICALLY
PT-11	PAINT	SHERWIN WILLIAMS	INTERIOR PAINT-EGGSHELL FINISH	SW 7032 WARM STONE		WP-13	WALL PANEL	MANNINGTON COMMERCIAL	VINYL PLANK 18" x 36" NATURE'S PATHS RAINFALL	MIST	INSTALL VERTICALLY
PT-11a	MILLWORK PAINT	SHERWIN WILLIAMS	INTERIOR PAINT-SUPERPAINT ACRYLIC LATEX - SEMI GLOSS	SW 7019 GAUNTLET GREY		VWF-1	VINYL WOOD FLOORING	KARNDEAN	VINYL PLANK 48" x 7"	VGW76T VINTAGE PINE	2/3 OF FIELD. NO DISCERNABLE PATTERN
PT-12	MILLWORK PAINT	SHERWIN WILLIAMS	TBD	SW 9141 WATERLOO		VWF-2	VINYL WOOD FLOORING	KARNDEAN	VINYL PLANK 48" x 7"	VG1-7 BRACKEN	1/3 OF FIELD. NO DISCERNABLE PATTERN.
PT-13	STAIN	SHERWIN WILLIAMS	WOOD CLASSICS 250 INTERIOR OIL STAIN	SW 3120 WALNUT WAINSCOT		_					
PT-14	WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT-EGGSHELL FINISH	SW 7022 ALPACA	BARN DOOR						
PT-15	PAINT	SHERWIN WILLIAMS	INTERIOR PAINT-EGGSHELL FINISH								
PT-16	STAIN	MINWAX	WOOD FINISH INTERIOR WOODSTAIN	EBONY 2718							
PT-17	MILLWORK PAINT	SHERWIN WILLIAMS	TBD	SW 2848 ROYCROFT PEWTER							

WATERING CAN

NAUTICAL

D101-1 GAL.

GALVANIZED

ROYCROFT PEWTER ARTWORK/ MANUFACTURER/ ARTWORK/ MANUFACTURER/ ARTWORK/ MANUFACTURER/ ARTWORK/ MANUFACTURER/ SYMBOL NOTES SYMBOL NOTES SYMBOL NOTES SYMBOL **PRODUCT** NOTES PRODUCT **PRODUCT PRODUCT** FINISH/DIMENSIONS FINISH/DIMENSIONS FINISH/DIMENSIONS FINISH/DIMENSIONS DECOR SUPPLIER DECOR SUPPLIER DECOR SUPPLIER **DECOR** SUPPLIER FARM FRESH EST. 1981 7.75" X 7.75" 6 X 6.5" POTS NAUTICAL ARCHED NAUTICAL D445 V2 2' 6" x 4' 5" TRACTOR SEAT 24" X 50" NAUTICAL WOODEN FRAME 30" DIA 'FARM FRESH' METAL STAMP NAUTICAL D203 D204 48" DIA 72" DIA TBD TBD WOODEN PIG NAUTICAL SIGN WINDOW NAUTICAL 39.5" X 28.5" FRAME 2' 6" x 6' 0" NAUTICAL D445 V FRAMED TRACTOR SEAT PRESSED TRACTOR SEAT NAUTICAL NAUTICAL FINISH VARIES RECLAIMED GRAY UNDERSIDE OF 39.5" X 28.5" METAL AND WOOD WOOD FRAME, UNLESS CHALKBOARD TO BE CHALKBOARD NAUTICAL OTHERWISE NOTED. MOUNTED AT 4'-6" AFF SIZE VARIES, REFER TO A202 FOR DETAIL NAUTICAL TBD 36" SHELVES UNDERSIDE OF NEWSPAPER WOOD CRATES NAUTICAL TBD 18" X 30" 18" X 36" 24 X 36" NEWSPAPER ET233 METAL NAUTICAL RACK TO BE TILTED REFER TO SHEET A201 FOR PIPE SHELVES MIR-TLT2436 MOUNTED AT 72" NAUTICAL TBD MIRROR MOUNTING HEIGHTS 18" AFF TBD WASHROOM NAUTICAL WOOD FRAME, 7.5" X 45" UNLESS OTHERWISE BAR SHELF HOSPITALITY NOTED. SIZE VARIES. BLACKBOARD NAUTICAL HC2041 WALL MIRROR NAUTICAL SITE SPECIFIC REFER TO A201 FOR MOUNTING RECLAIMED WOOD DETAILS NAUTICAL D209 30" X 30" SHELF NAUTICAL PLANTER BOX WOOD SHELF NAUTICAL SHLF1612 16" X 12" NAUTICAL DIVIDED LITE WOOD NAUTICAL MIR8442 104" X 46" NAUTICAL D209 MIRROR ANTIQUE 60" X 30" PLANTER BOX MIRROR WOOD SHELF NAUTICAL SHLF8412 84" X 12" FARM ROAD TBD 2/3 GALVANIZED & 1/3 WOODEN ROUND NAUTICAL YELLOW. RANDOM NAUTICAL D100-1 GAL. YELLOW SELECTION

2/3 GALVANIZED & 1/3

YELLOW. RANDOM SELECTION

TRACTOR AND BARN TBD

GENERAL NOTES

- 1. TILE FLOORING PATTERN IS CENTERED BETWEEN PRIMARY BOUNDARY WALLS OF ROOM, EXCEPT AS INDICATED OTHERWISE ON PLAN.
- JOINTS BETWEEN FLOOR TILE AND ALL FLOOR PENETRATIONS ARE TO BE SEALED WITH LATEX CAULK (TO MATCH GROUT).
- 3. ALL TILED WALL BASE CORNERS TO BE MITERED WHERE APPLICABLE.
- ALL MATERIALS MUST BE INSTALLED TO FIRST WATCH SPECIFICATIONS AND STANDARDS. ANY ITEMS NOT INSTALLED TO FIRST WATCH STANDARDS WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO FIRST WATCH.
- 5. CLEAR SILICONE CAULK TO BE APPLIED AT JOINTS WHERE REQUIRED IN ALL KITCHEN AND TOILET ROOM LOCATIONS. CLEAR LATEX OR OTHER PAINTABLE CAULK TO BE APPLIED AT ALL OTHER JOINTS WHERE REQUIRED.
- 6. ROOF DECK TO BE PAINTED TO MATCH ABOVE PAINT LINE. SEE A202 FOR DESIGNATION.

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020

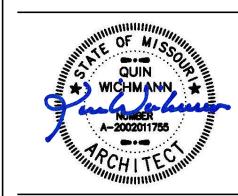
®

ARCHITECTURAL GROUP INTERNATIONAL

15 West Seventh Street, Covington, KY 41011
P: 859.261.5400 F: 859.261.5530
www.agi-us.com

designing where you want to go.

RELEASE FOR



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may discover

Revisions:

Date By Discrete B

ISSUED FOR BID/PERMIT

FIRST WATCH



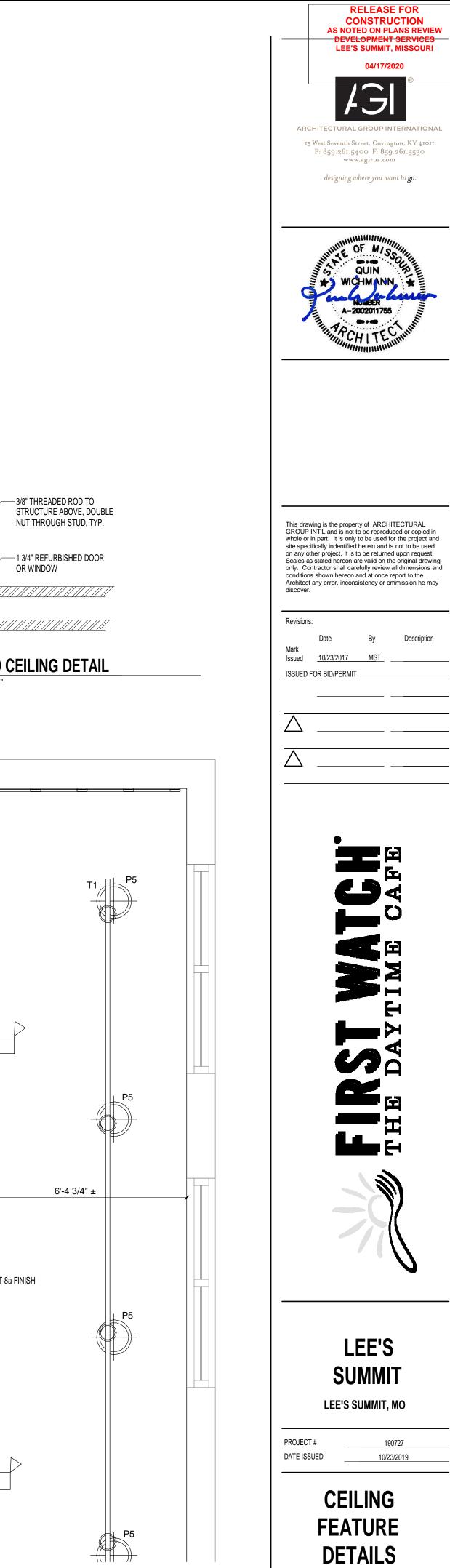
LEE'S Summit

LEE'S SUMMIT, MO

PROJECT # 190727

DATE ISSUED 10/23/2019

FINISHES SCHEDULE

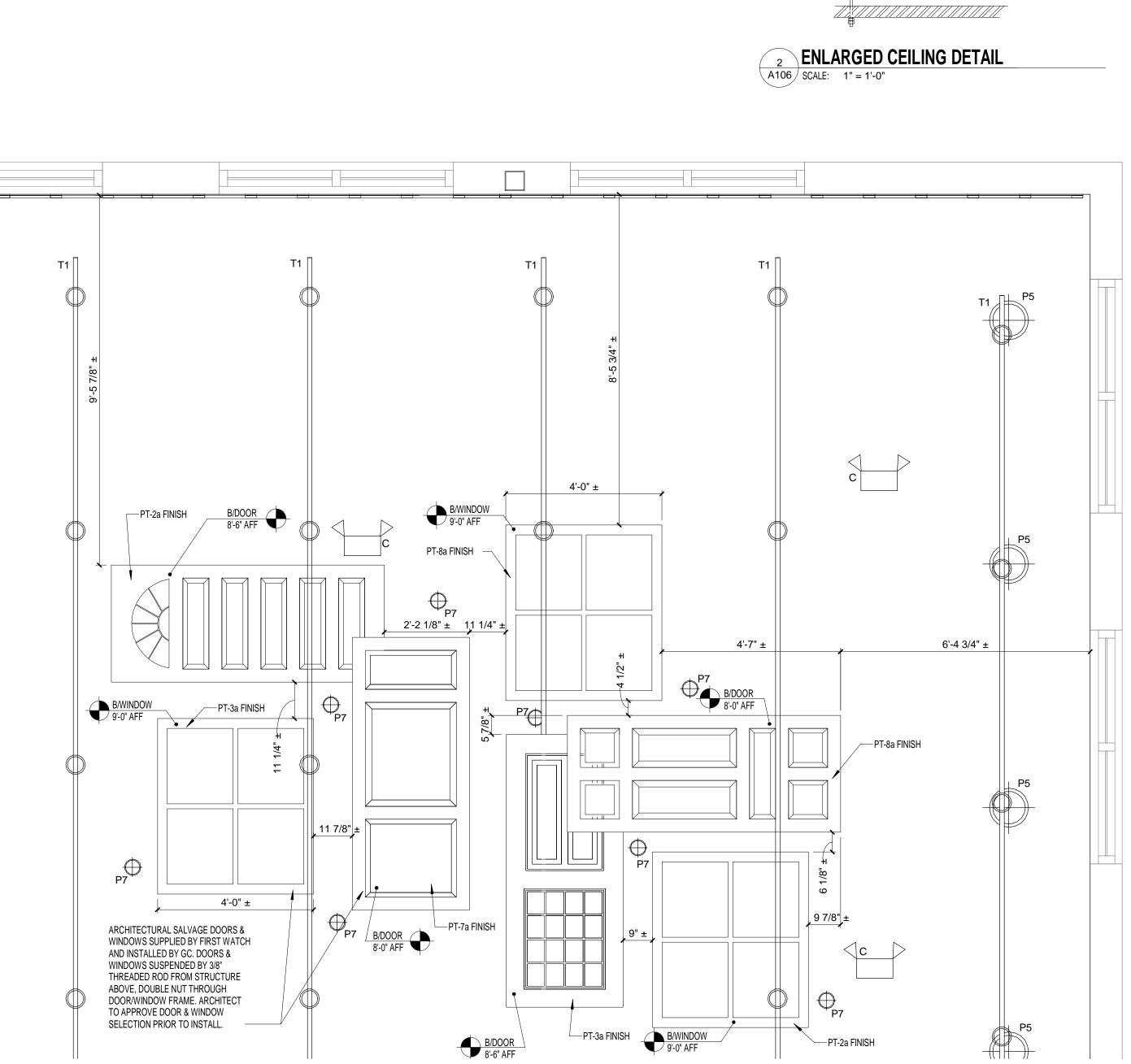


OR WINDOW

RELEASE FOR

04/17/2020

www.agi-us.com



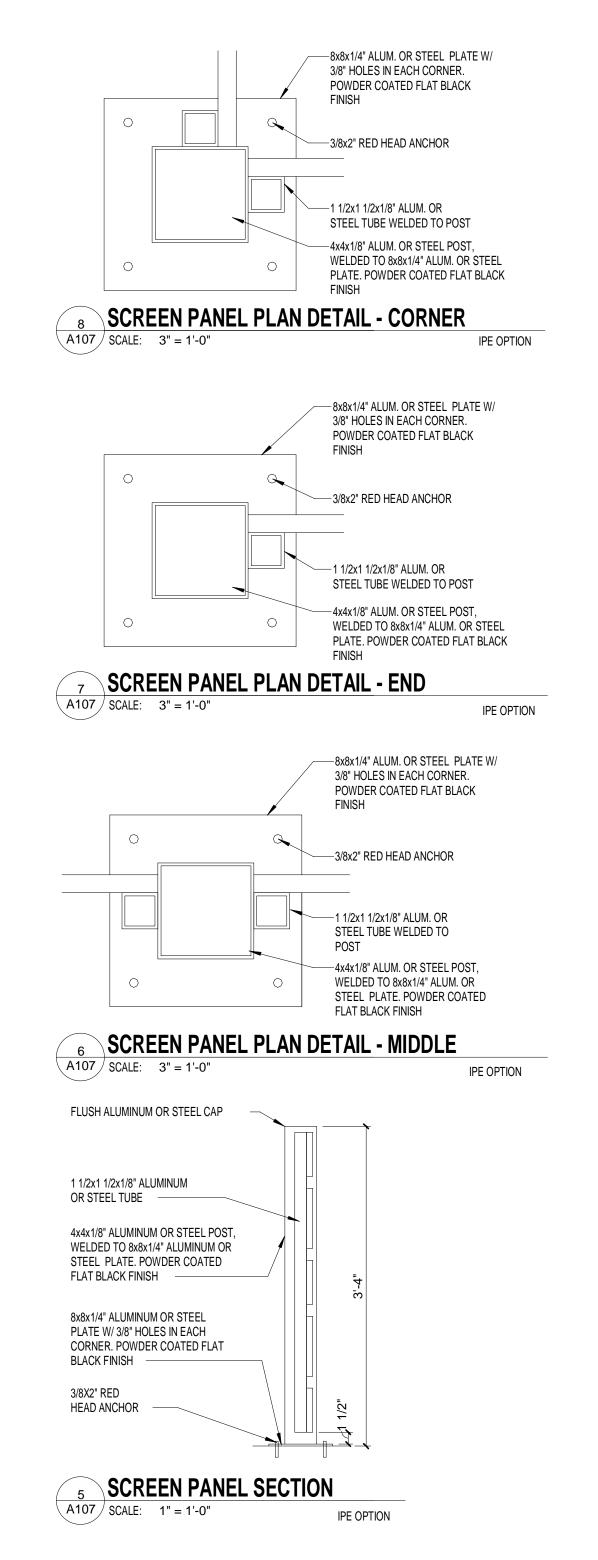
1 ENLARGED CEILING DETAIL
A106 SCALE:

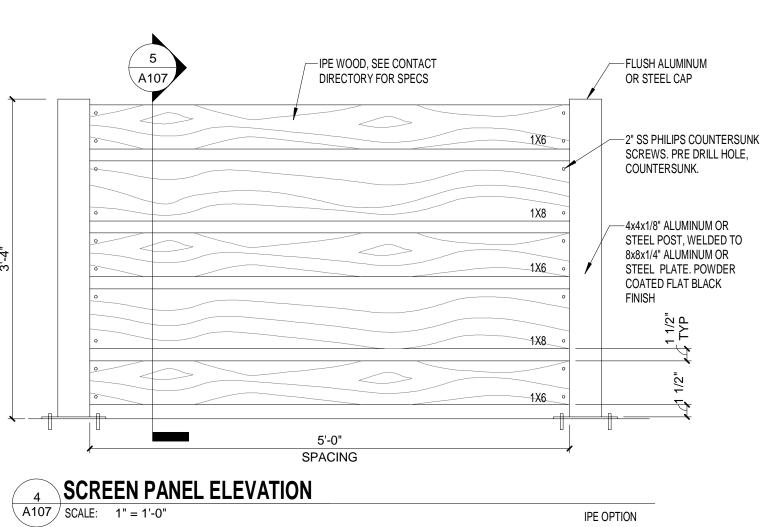
NOTE: UPON DOOR/WINDOW SELECTION, G.C. TO CONFIRM ALL DIMENSIONS WITH ARCHITECT PRIOR TO INSTALL. SHOWN FOR DESIGN INTENT ONLY.

A106

LEE'S

10/23/2019





3'-0"

-EVERBILT GATE

ALUM. OR STEEL SPRING TEE HINGE

BLACK FINISH -4x4x1/8" HOLLOW ALUM. OR STEEL

POST, POWDER

—EVERBILT GATE SPRING TEE HINGE BLACK FINISH

COATED FLAT

BLACK FINISH

METAL ANGLE ON INTERIOR SIDE TO PREVENT GATE FROM SWINGING IN.

GATE SHALL SWING OPEN WHEN

9 GATE ELEVATION

A107 SCALE: 1" = 1'-0"

PRESSED.

CONSTRUCTION CONTACT DIRECTORY -ALTERNATE VENDORS MAY BE USED PENDING FIRST WATCH APPROVAL ITEM SUPPLIED CONTRACTOR/ SUPPLIER GC TO HIRE A QUALIFIED EXTERIOR RAILING POST ARCHITECTURAL METAL FABRICATOR LOCAL SUPPLIER IPE

HOME DEPOT

COLOR: VERANDA OR AN APPROVED ALT.

COMPOSITE DECK

GENERAL NOTES 1. ALUMINUM/STEEL POST AND WOOD PROVIDED BY G.C. 2. G.C. TO CONFIRM WITH FIRST WATCH REPRESENTATIVE IF POST SHOULD BE CONSTRUCTED WITH ALUMINUM OR STEEL.

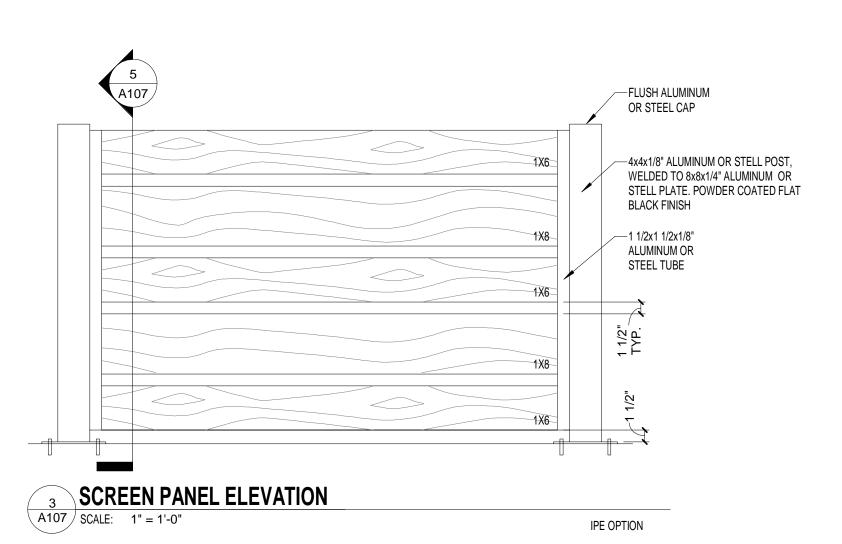
KE	YED	NOT	ΓES
$\overline{\Box}$			

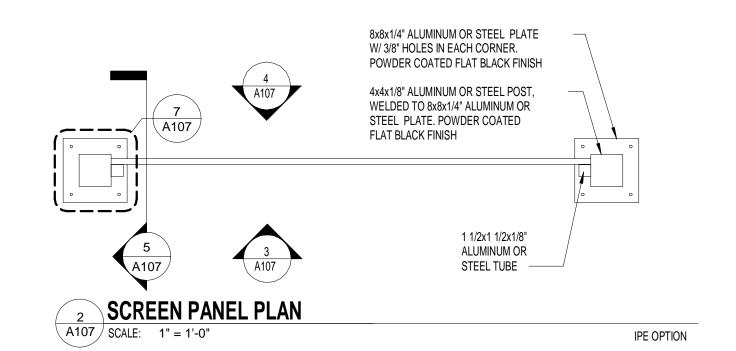
⟨ 1 ⟩ EXTERIOR WOOD PARTITION PROVIDED BY G.C.

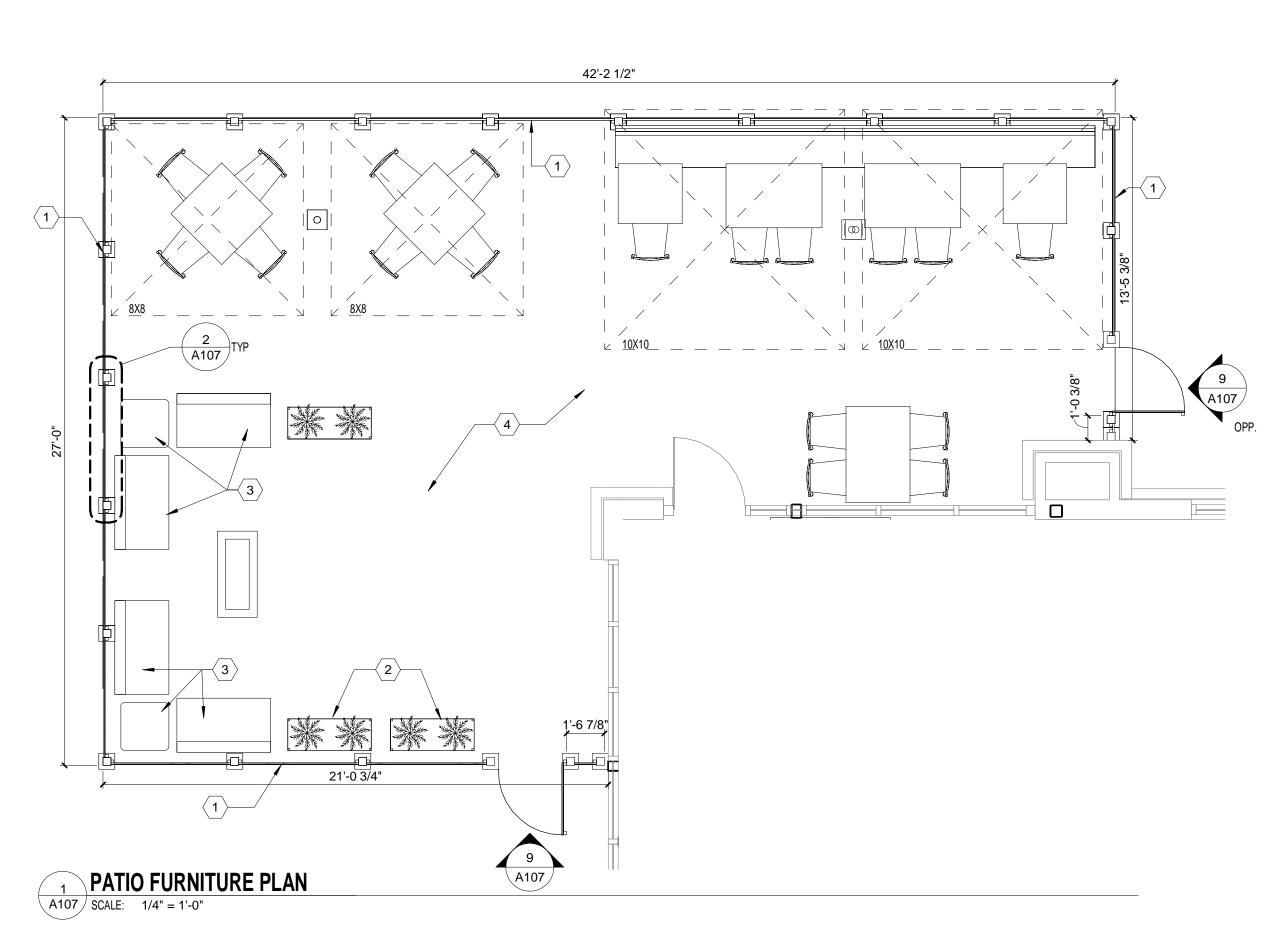
2 NEW PLANTER PROVIDED BY FIRST WATCH AND INSTALLED BY GC.

FURNITURE SPEC TO BE DETERNIMED, COORDINATE WITH FIRST WATCH REP. PRIOR TO FINALIZING ORDER.

4 EXISTING CONCRETE SLAB.







CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI 04/17/2020 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com

RELEASE FOR



designing where you want to go.

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2017 Issued ISSUED FOR BID/PERMIT

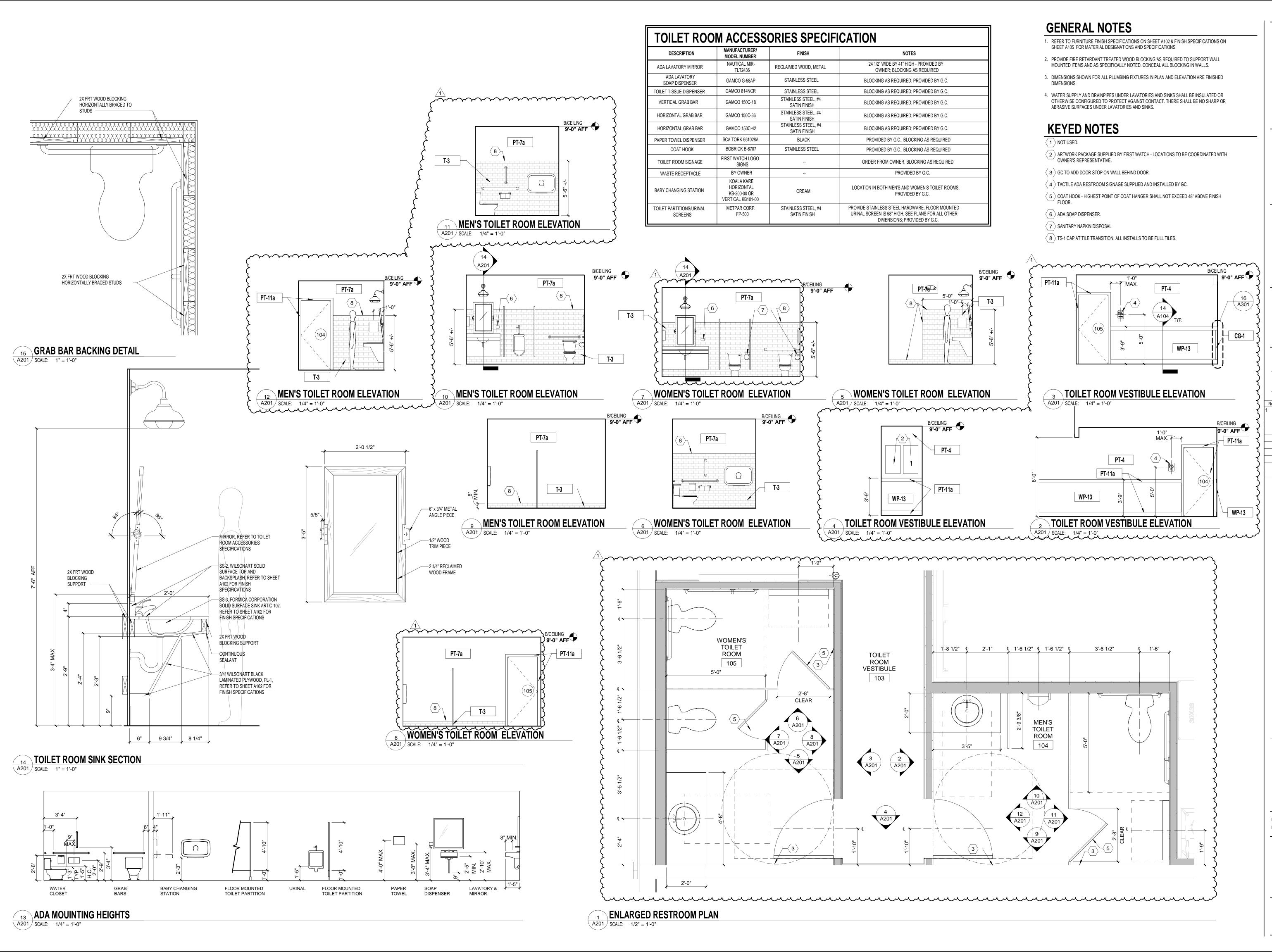


LEE'S

LEE'S SUMMIT, MO

PROJECT# 10/23/2019 DATE ISSUED

PATIO PLAN **AND DETAILS**



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

O4/17/2020

R

ARCHITECTURAL GROUP INTERNATIONAL

15 West Seventh Street, Covington, KY 41011

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

Date By Description
11/20/2019 MPR PERMIT/LL
COMMENTS

FIRST WATCH.

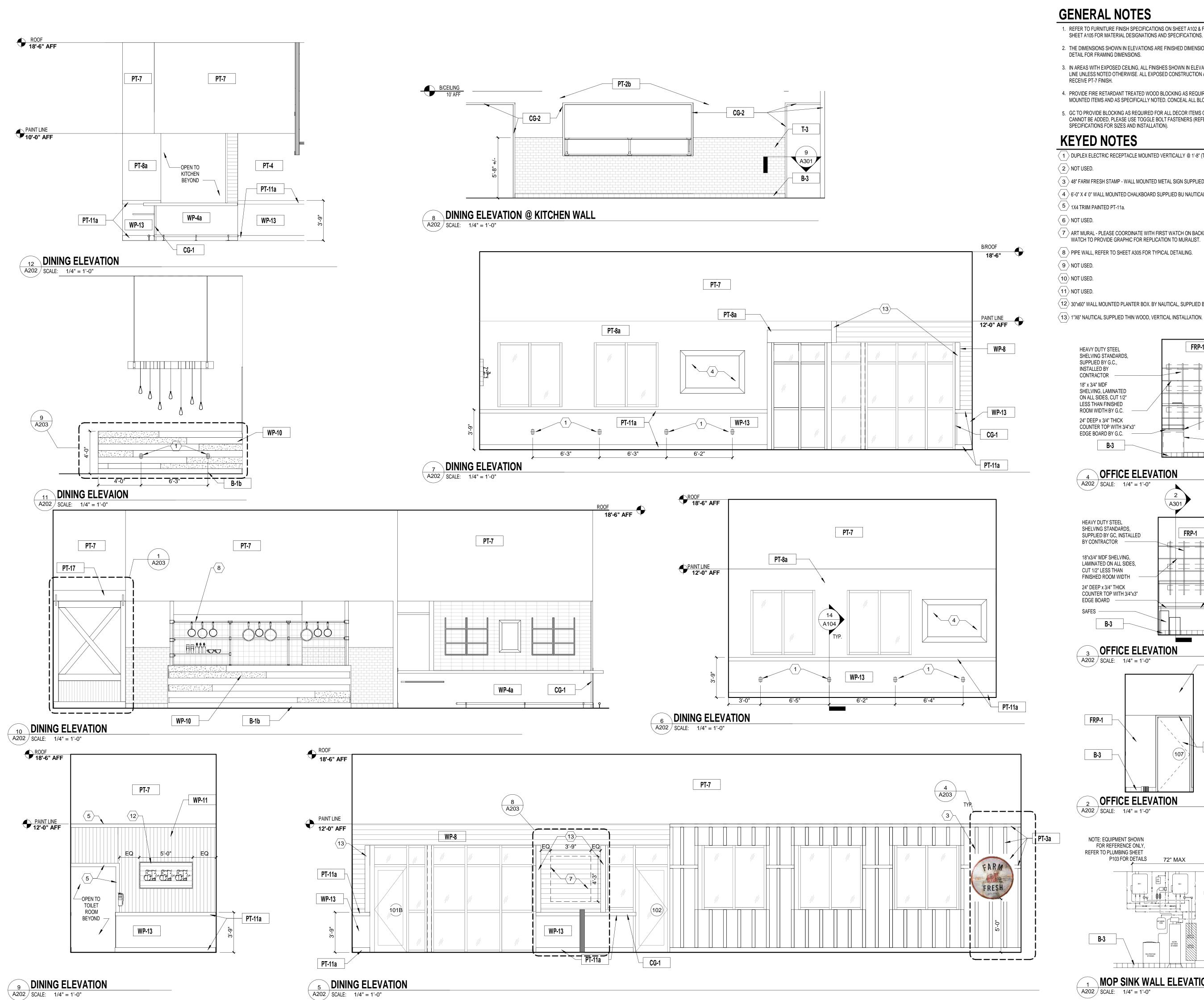


LEE'S SUMMIT

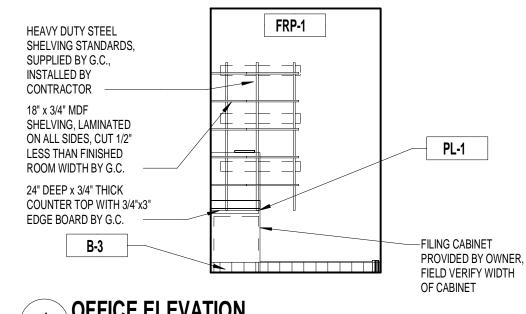
LEE'S SUMMIT, MO

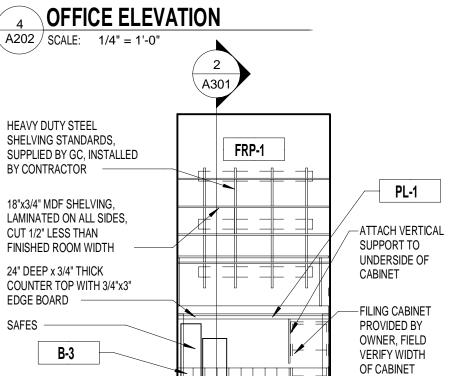
PROJECT # 190727
DATE ISSUED 10/23/2019

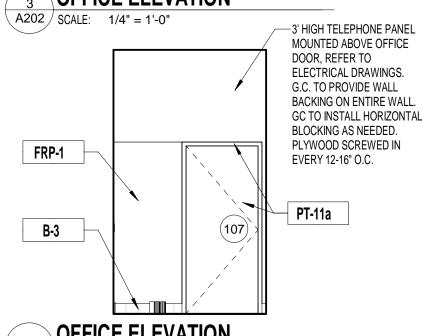
ENLARGED
TOILET ROOM
FLOOR PLAN &
ELEVATIONS



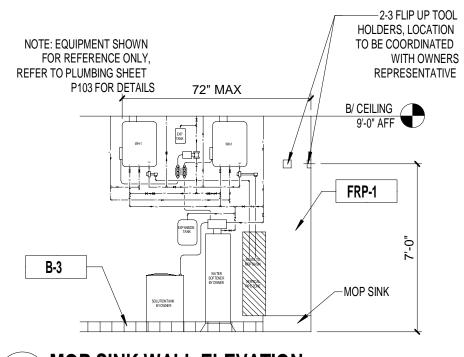
- 1. REFER TO FURNITURE FINISH SPECIFICATIONS ON SHEET A102 & FINISH SPECIFICATIONS ON
- 2. THE DIMENSIONS SHOWN IN ELEVATIONS ARE FINISHED DIMENSIONS. REFER TO THE FRAMING
- 3. IN AREAS WITH EXPOSED CEILING, ALL FINISHES SHOWN IN ELEVATION TERMINATE AT PAINT LINE UNLESS NOTED OTHERWISE. ALL EXPOSED CONSTRUCTION ABOVE PAINT LINE TO
- 4. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING AS REQUIRED TO SUPPORT WALL
- MOUNTED ITEMS AND AS SPECIFICALLY NOTED. CONCEAL ALL BLOCKING IN WALLS.
- 5. GC TO PROVIDE BLOCKING AS REQUIRED FOR ALL DECOR ITEMS ON WALL. IF BLOCKING CANNOT BE ADDED, PLEASE USE TOGGLE BOLT FASTENERS (REFER TO MANUFACTURER
- 1 DUPLEX ELECTRIC RECEPTACLE MOUNTED VERTICALLY @ 1'-8" (TO CENTER) A.F.F.
- igg(3igg) 48" FARM FRESH STAMP WALL MOUNTED METAL SIGN SUPPLIED BY NAUTICAL, INSTALLED BY G.C.
- \langle 4 angle 6'-0" X 4' 0" WALL MOUNTED CHALKBOARD SUPPLIED BU NAUTICAL INSTALLED BY G.C.
- \langle 7 \rangle ART MURAL PLEASE COORDINATE WITH FIRST WATCH ON BACKING, SIZE, AND INSTALL. FIRST WATCH TO PROVIDE GRAPHIC FOR REPLICATION TO MURALIST.
- \langle 8 \rangle PIPE WALL, REFER TO SHEET A305 FOR TYPICAL DETAILING.
- (12) 30"x60" WALL MOUNTED PLANTER BOX. BY NAUTICAL, SUPPLIED BY FIRST WATCH, INSTALLED BY GC
- (13) 1"X6" NAUTICAL SUPPLIED THIN WOOD, VERTICAL INSTALLATION.











MOP SINK WALL ELEVATION

CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI 04/17/2020 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2017 Issued ISSUED FOR BID/PERMIT



LEE'S

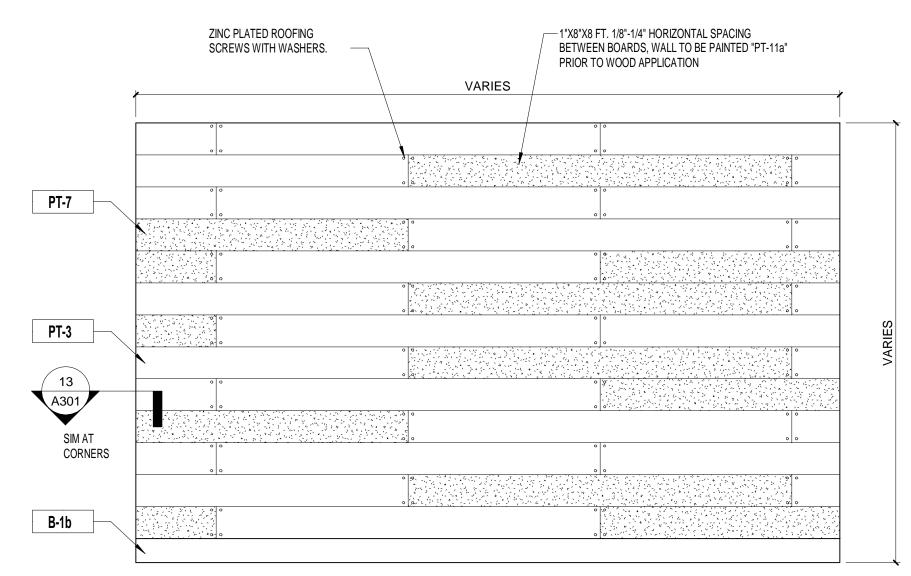
10/23/2019

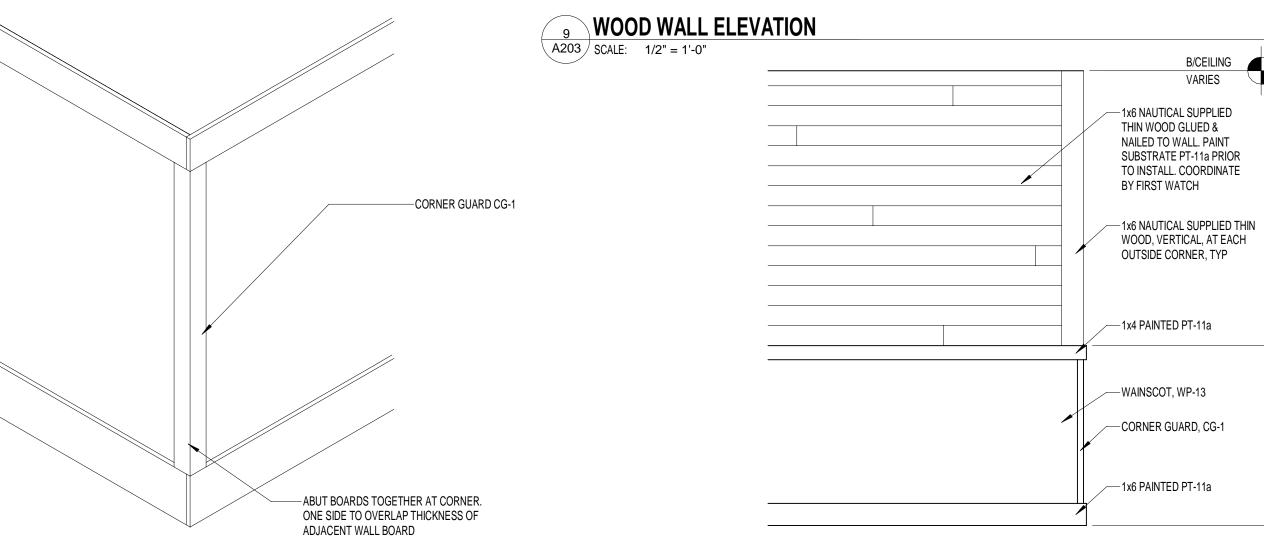
LEE'S SUMMIT, MO

DATE ISSUED

INTERIOR ELEVATIONS

PINE/POPLAR WOOD WALL PAINT SCHEDULE 1. PAINT DRYWALL PT-11a PRIOR TO WOOD APPLICATION 2. MIX A QUART OF MINWAX LATEX SATIN SPAR URETHANE FROM SHERWIN WILLIAMS AND 80z. OF SUPER PAINT SATIN MEGA GREIGE (PT-3) FROM SHERWIN WILLIAMS. MIXTURE SHOULD BE MILKY, NOT SOLID. 3. MIX A QUART OF MINWAX LATEX SATIN SPAR URETHANE FROM SHERWIN WILLIAMS AND 80Z. OF SUPER PAINT SATIN AGREEABLE GREY (PT-7) FROM SHERWIN WILLIAMS. MIXTURE SHOULD BE MILKY, NOT SOLID. 4. APPLY 2 COATS OF PT-3 MIXTURE WITH A BRUSH TO 50% OF WOOD BOARDS. 5. APPLY 2 COATS OF PT-7 MIXTURE WITH A BRUSH TO 50% OF WOOD BOARDS. 6. ONCE DRY, MOUNT THE BOARDS HORIZONTALLY ON WALL WITH ZINC PLATED ROOFING SCREWS AND WASHERS. NO DISCERNABLE PATTERN. 7.CAULK ONLY SIDES TO THE DRYWALL.





A203 SCALE: 1/2" = 1'-0"

NOT USED

A203 | SCALE: 1/2" = 1'-0"

RECLAIMED WEATHERED WOOD WALL ELEVATION

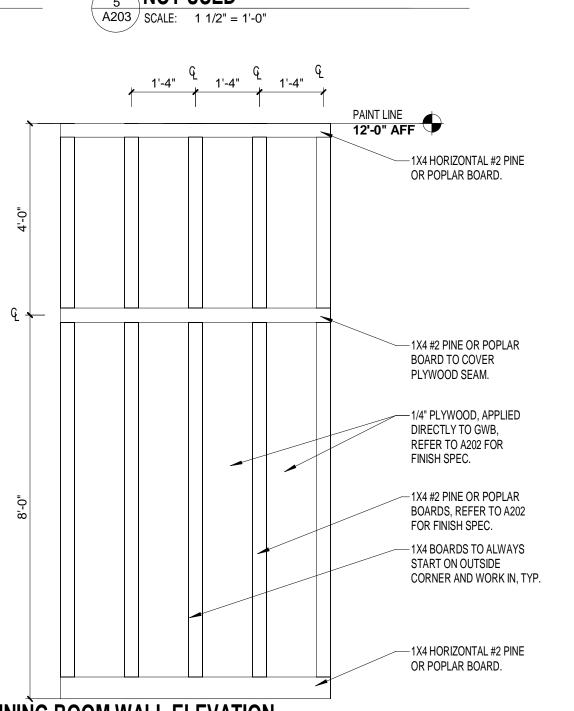
WAINSCOT CORNER DETAIL

A203 | SCALE: 1" = 1'-0"

A203 SCALE: 1/2" = 1'-0"



NOT USED



GENERAL NOTES

NOT USED A203 SCALE: 1 1/2" = 1'-0"

NOTHING ON THE WOOD.

TO INSIDE PANELS.

2. CAULK ONLY SIDES TO THE DRYWALL.

BARN DOOR PAINT SCHEDULE

1. FILL IN NAIL HOLES WITH PAINTERS PUTTY. MAKE SURE TO GET

3. PRIME INSIDE PANELS WITH SHERWIN QUICK DRY PRIMER.

ROYCROFT PEWTER (PT-17) TO OVERHEAD BEAM.

1X8 FINISHED GRADE

1/4" THICK STEEL STRAP TO MATCH BARN DOOR HARDWARE. FAUX BARN

DOOR BY G.C. - SEE SHEETS A202 AND DETAIL 1/A203 FOR DETAILS

STATIONARY BARN DOOR

STATIONARY TRACK DOOR DETAIL

6'-3 1/8" ± VIF

FAUX BARN DOOR ELEVATION

— FAUX BULKHEAD FURRED OUT TO BE FLUSH WITH FAUX BARN DOOR CONSTRUCTION, PT-17 FINISH

—1/4" THICK PLYWOOD APPLIED DIRECTLY TO GWB. REFER TO

SCHEDULE ON THIS SHEET

FAUX BARN DOOR, TYP.

—1x8 ROUGH SAWN BOARDS

-1x6 ROUGH SAWN BOARDS

FOR PAINT SPECS

-1x8 ROUGH SAWN BOARDS

-1/4" THICH

BEADBOARD - WP- 6

—1x8 ROUGH SAWN

BOARDS

PAINTED PT-17

4. MIX A QUART OF MINWAX LATEX SATIN SPAR URETHANE FROM

FROM SHERWIN WILLIAMS. MIXTURE SHOULD BE MILKY, NOT SOLID.

5. APPLY 2 COATS OF MIXTURE WITH A BRUSH TO ALL BARE WOOD ON

SHERWIN WILLIAMS AND 80z. OF SUPER PAINT SATIN BRIGHT WHITE (PT-5)

6. ONCE DRY, APPLY 2 COATS OF THE SUPER PAINT SATIN ALPACA (PT-14)

7. APPLY 2 COATS OF SHERWIN WILLIAMS ALL SURFACE SATIN ENAMEL IN

- 1. ALL TRIM WOOD TO BE OF ROUGH TEXTURE. CONFIRM MATERIAL WITH FIRST WATCH BEFORE
- 2. REFER TO FURNITURE FINISH SPECIFICATIONS ON SHEET A102 & FINISH SPECIFICATIONS ON SHEET A105 FOR MATERIAL DESIGNATIONS AND SPECIFICATIONS.
- 3. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS AND AS SPECIFICALLY NOTED. CONCEAL ALL BLOCKING IN WALLS.
- 4. REFER TO FINIHS PLAN ON SHEET A104 AND INTERIOR ELEVATIONS ON SHEET A202 FOR FINISHES APPLIED TO WALLS.



CONSTRUCTION
AS NOTED ON PLANS REVIEW

LEE'S SUMMIT, MISSOURI 04/17/2020

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.

This drawing is the property of ARCHITECTURAL GROUP INTL and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

Issued <u>10/23/2017</u> ISSUED FOR BID/PERMIT

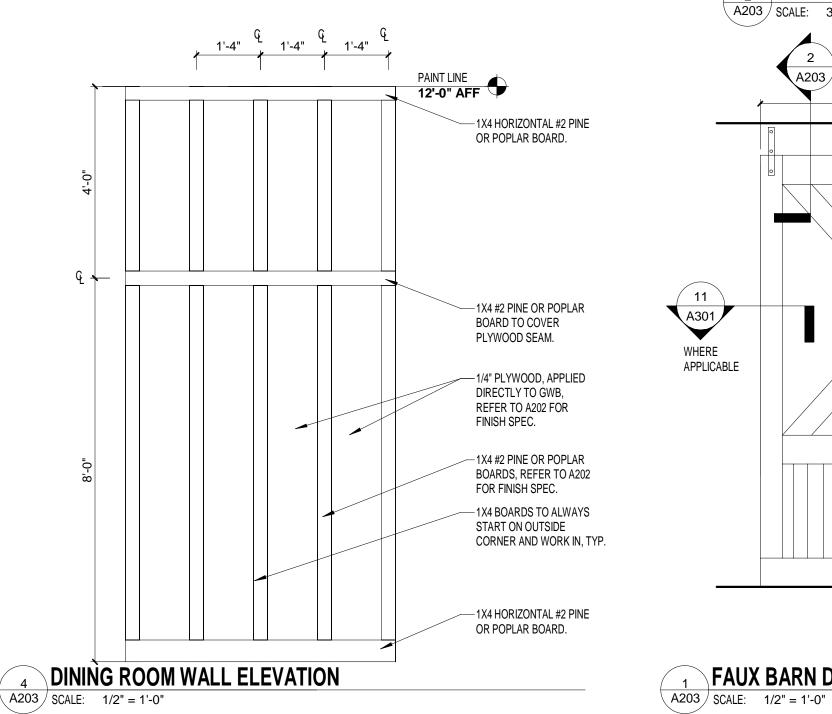


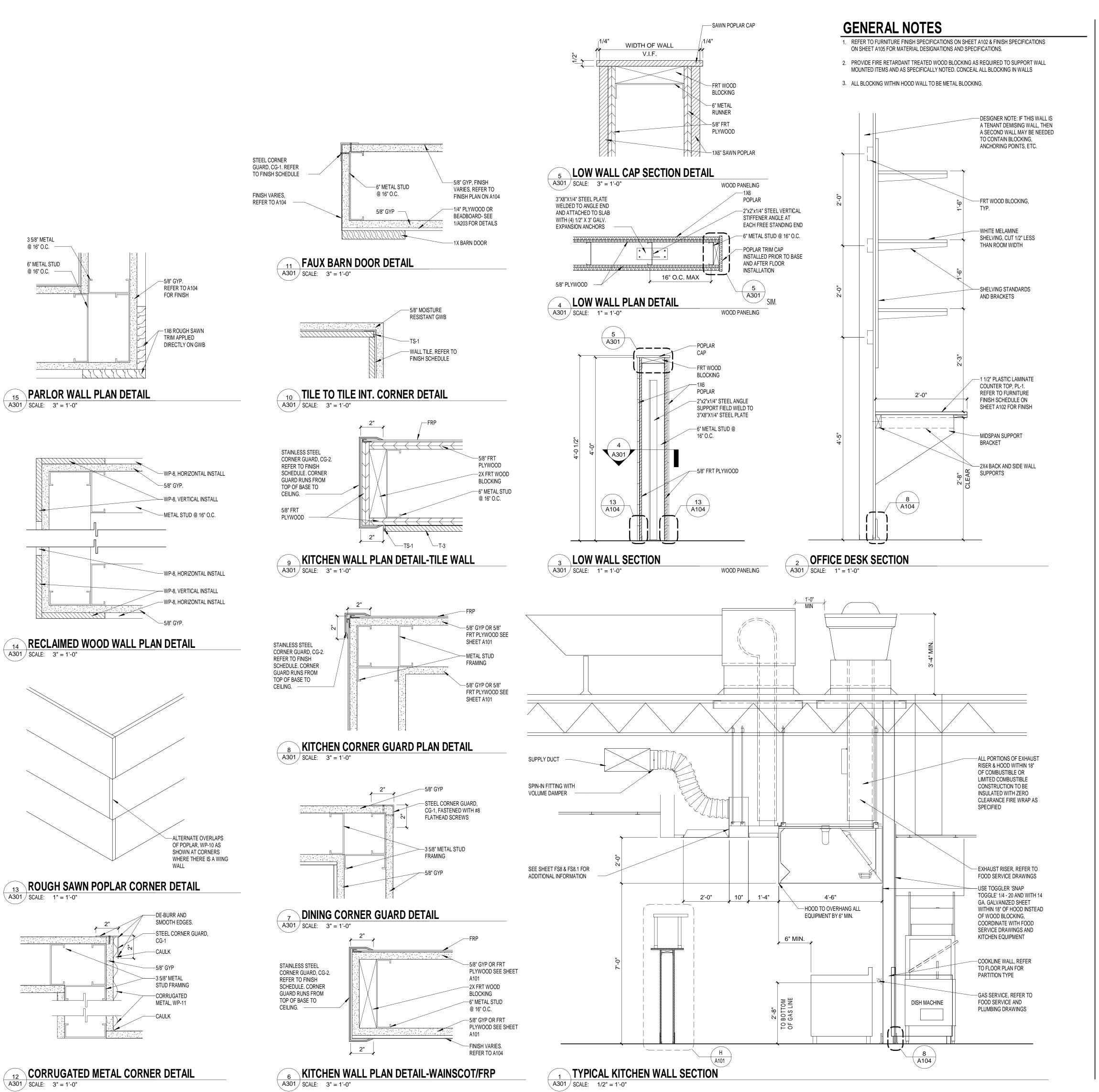
LEE'S

LEE'S SUMMIT, MO

PROJECT# DATE ISSUED 10/23/2019

INTERIOR **ELEVATIONS AND DETAILS**





3 5/8" METAL

6" METAL STUD

@ 16" O.C. -

A301 | SCALE: 3" = 1'-0"

A301 SCALE: 3" = 1'-0"

A301 SCALE: 3" = 1'-0"

-WAINSCOTING, WP-13

MAINSCOT DETAIL
A301 SCALE: 1" = 1'-0"

—CORNER GUARD

@ 16" O.C.

CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI 04/17/2020 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530

www.agi-us.com designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2017 Issued

ISSUED FOR BID/PERMIT



LEE'S **SUMMIT**

LEE'S SUMMIT, MO PROJECT#

DATE ISSUED 10/23/2019

SECTIONS AND DETAILS

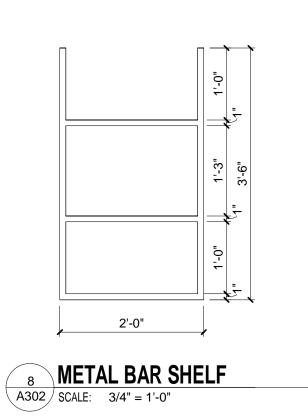
GENERAL NOTES

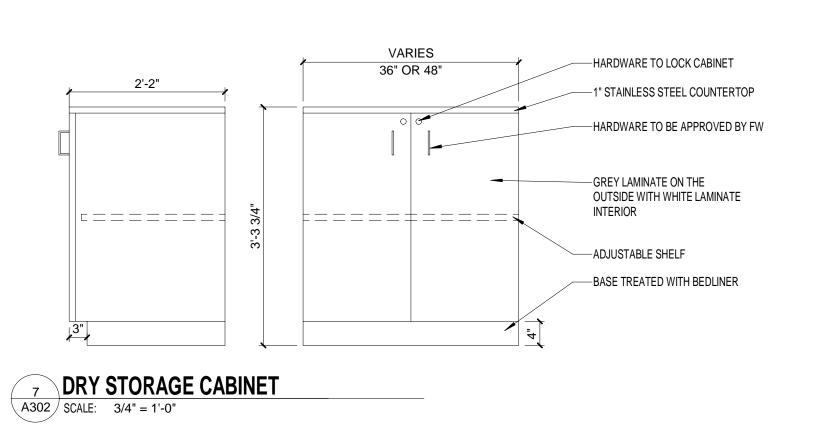
REFER TO FURNITURE FINISH SPECIFICATIONS ON SHEET A102 & FINISH SPECIFICATIONS ON SHEET A105 FOR MATERIAL DESIGNATIONS AND SPECIFICATIONS

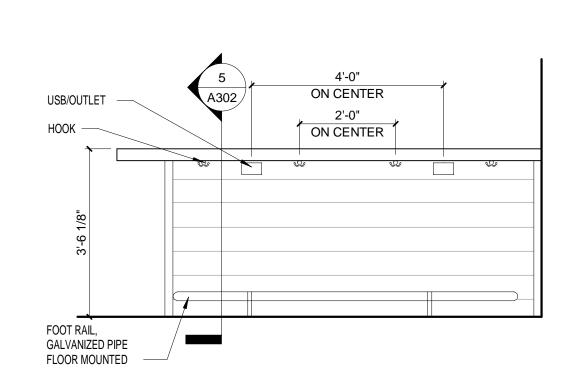
2. PROVIDE FIRE RETARDANT TREATED PLY & FRT WOOD BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS AND AS SPECIFICALLY NOTED. CONCEAL ALL BLOCKING IN

3. ALL BAR CONSTRUCTION PROVIDED BY GC

FURNITURE FINISH SPECIFICATIONS								
DESIGNATION DI	ESCRIPTION	MANUFACTURER/ SUPPLER	PRODUCT	COLOR	NOTES			
SS-1	BAR COUNTERTOP	DUPONT - ZODIAQ	QUARTZ 2 CM	VERSILLA GRIGIO				

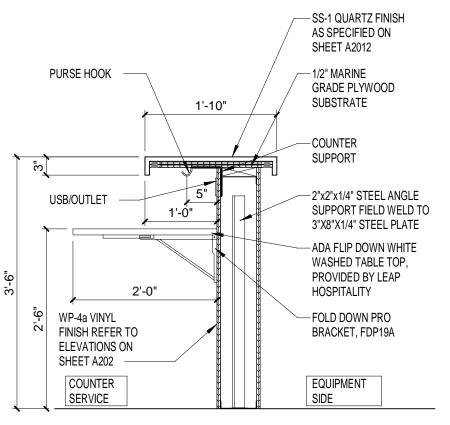


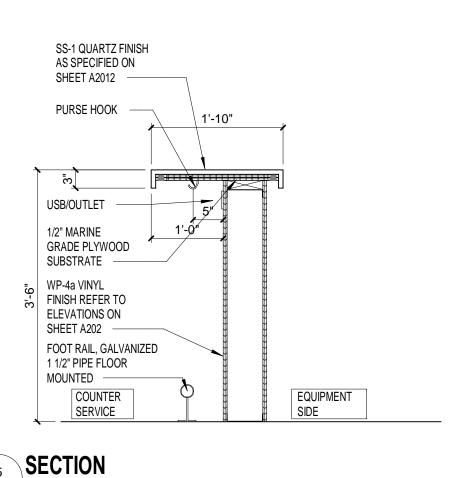




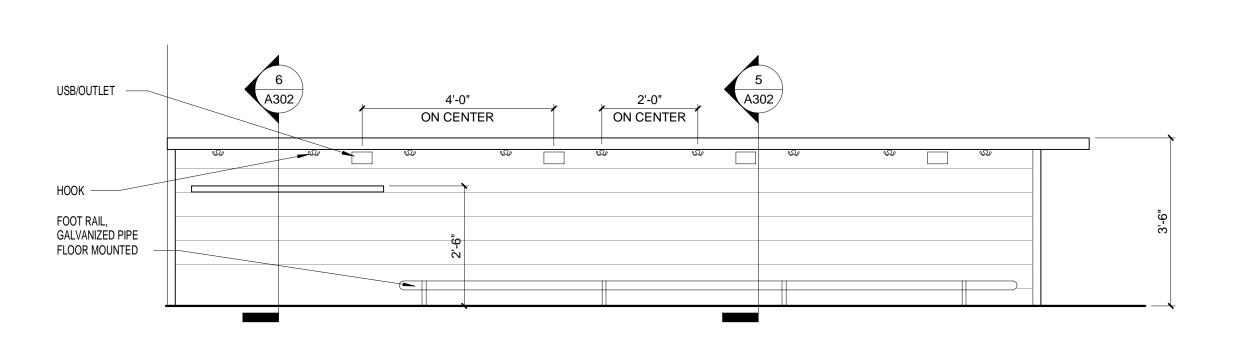
COUNTER SERVICE ELEVATION

A302 SCALE: 1/2" = 1'-0"

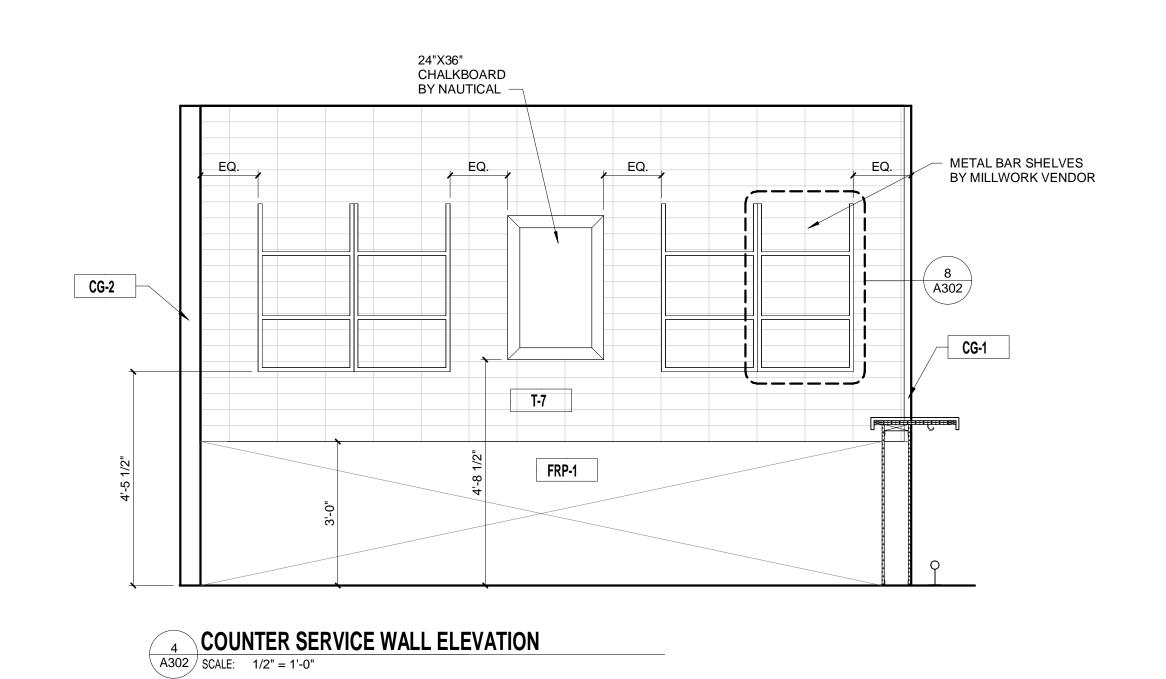


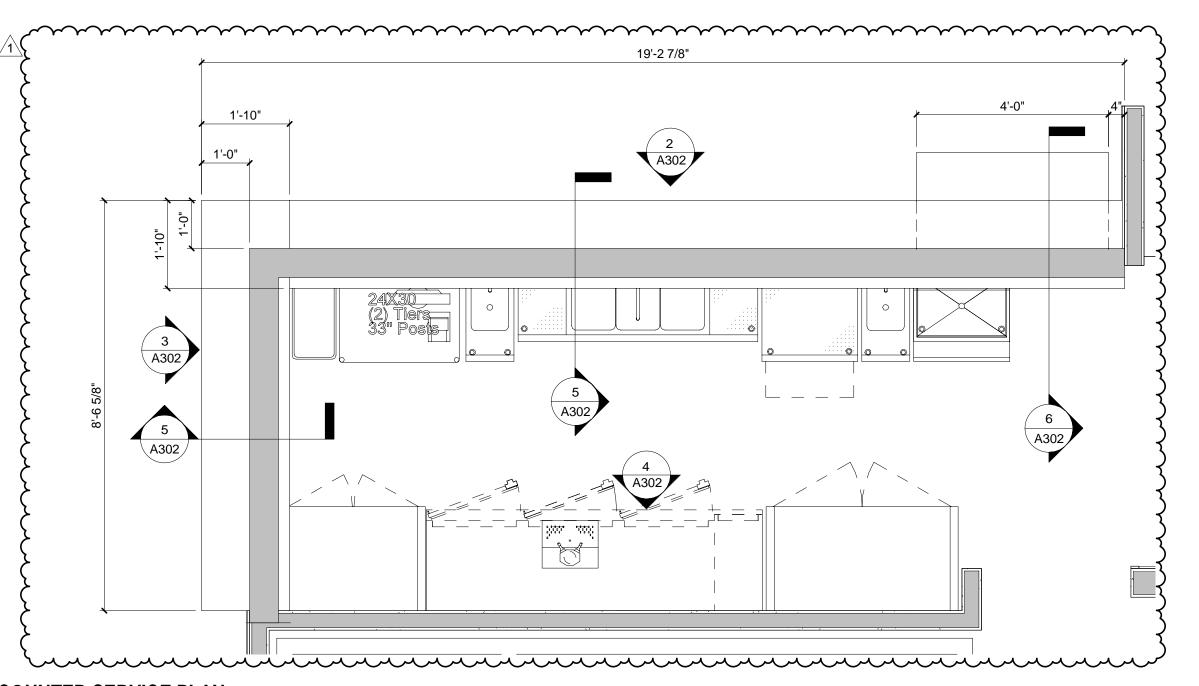


A302 SCALE: 3/4" = 1'-0"









1 COUNTER SERVICE PLAN
A302 SCALE: 1/2" = 1'-0"

COUNTER SERVICE ELEVATION

A302 SCALE: 1/2" = 1'-0"

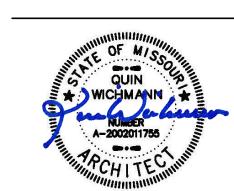
RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020

®

ARCHITECTURAL GROUP INTERNATIONAL

P: 859.261.5400 F: 859.261.5530 www.agi-us.com designing where you want to **go**.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may discover.

Revisions: <u>10/23/2019 MST</u>

No. Date By Description

1 11/20/2019 MPR PERMIT/LL COMMENTS

FIRST WATCH



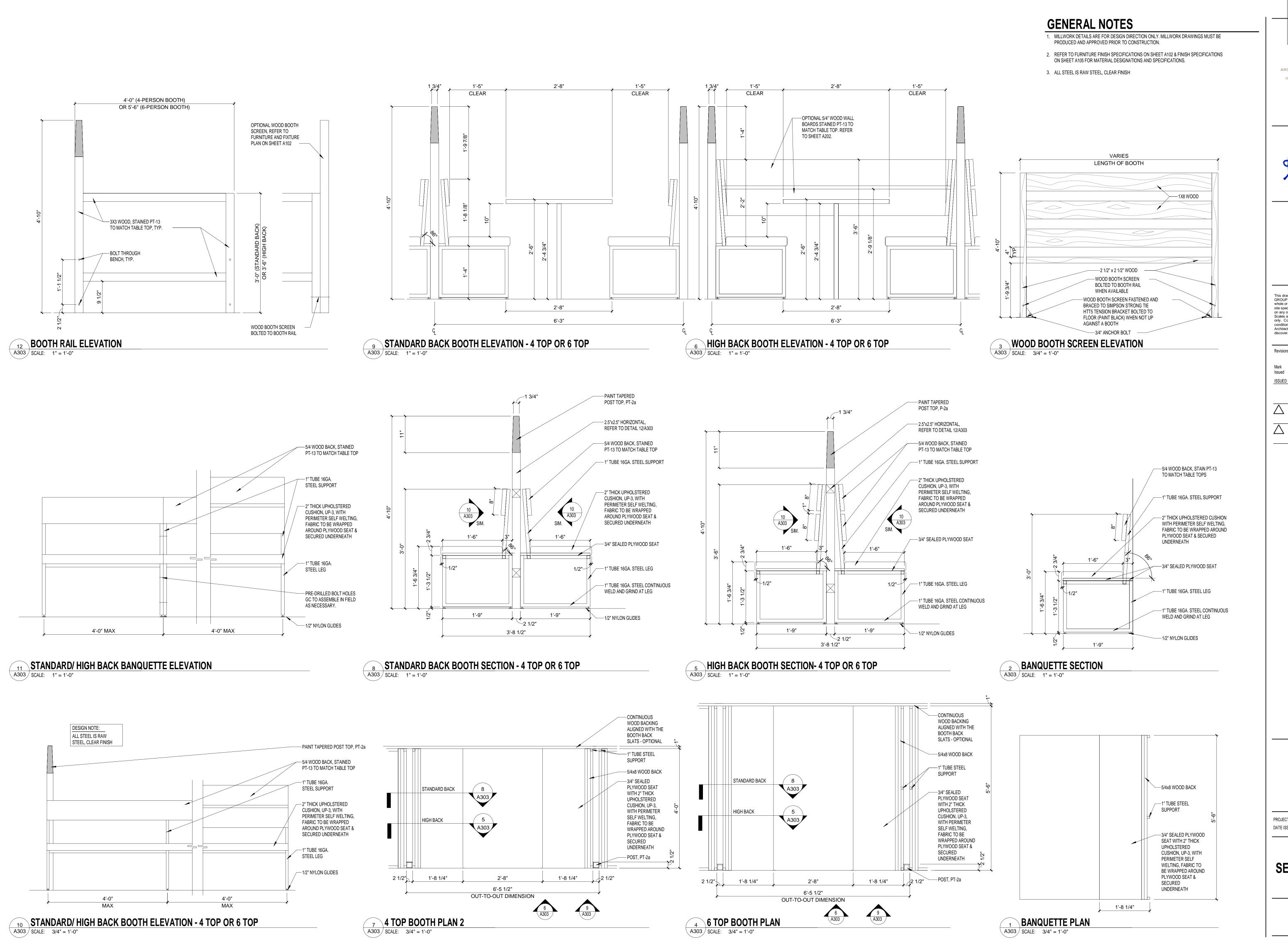
LEE'S SUMMIT

LEE'S SUMMIT, MO

PROJECT # 190727

DATE ISSUED 10/23/2019

ENLARGED
BAR FLOOR
PLAN &
ELEVATION



CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

04/17/2020 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com



designing where you want to go.

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

ISSUED FOR BID/PERMIT

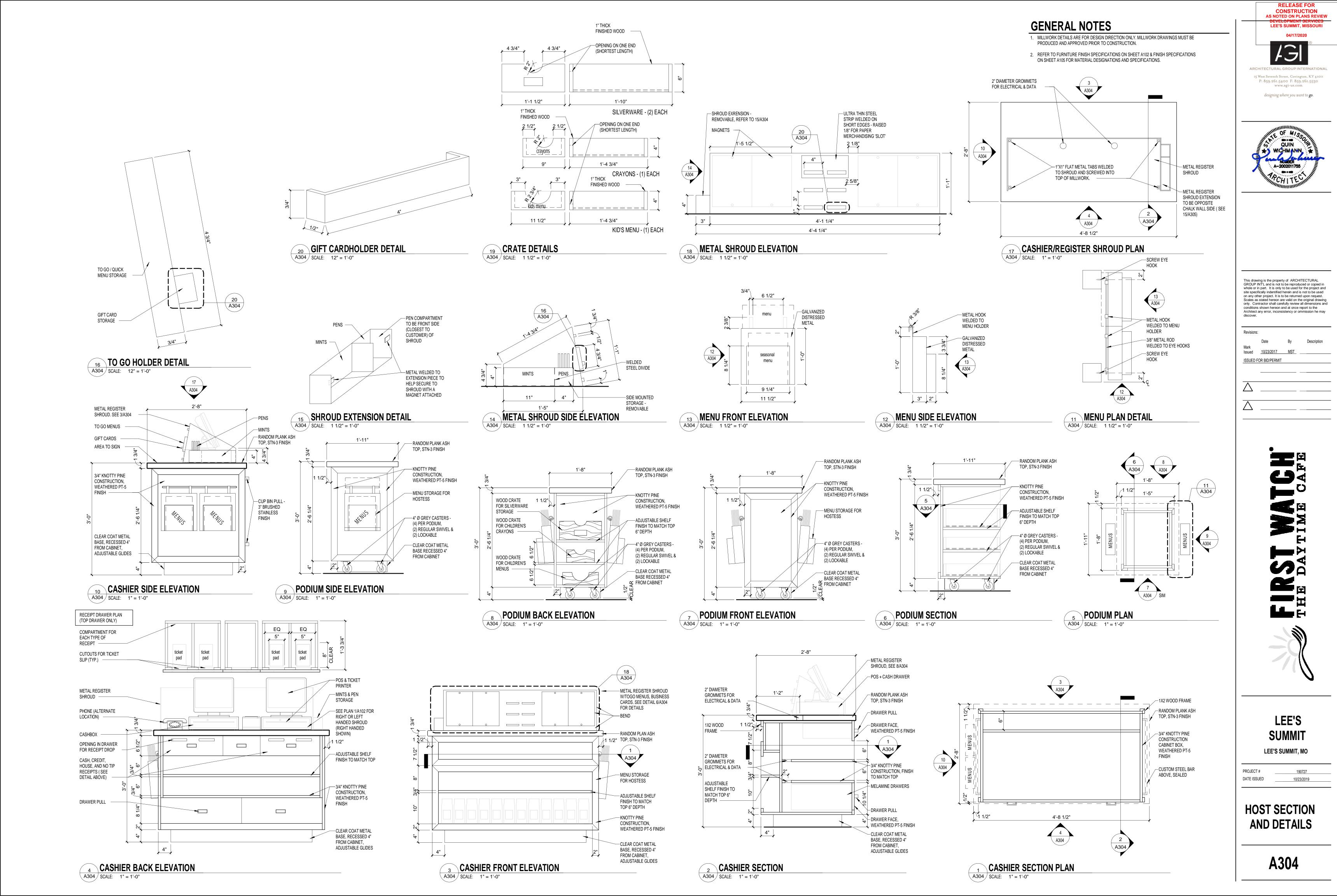


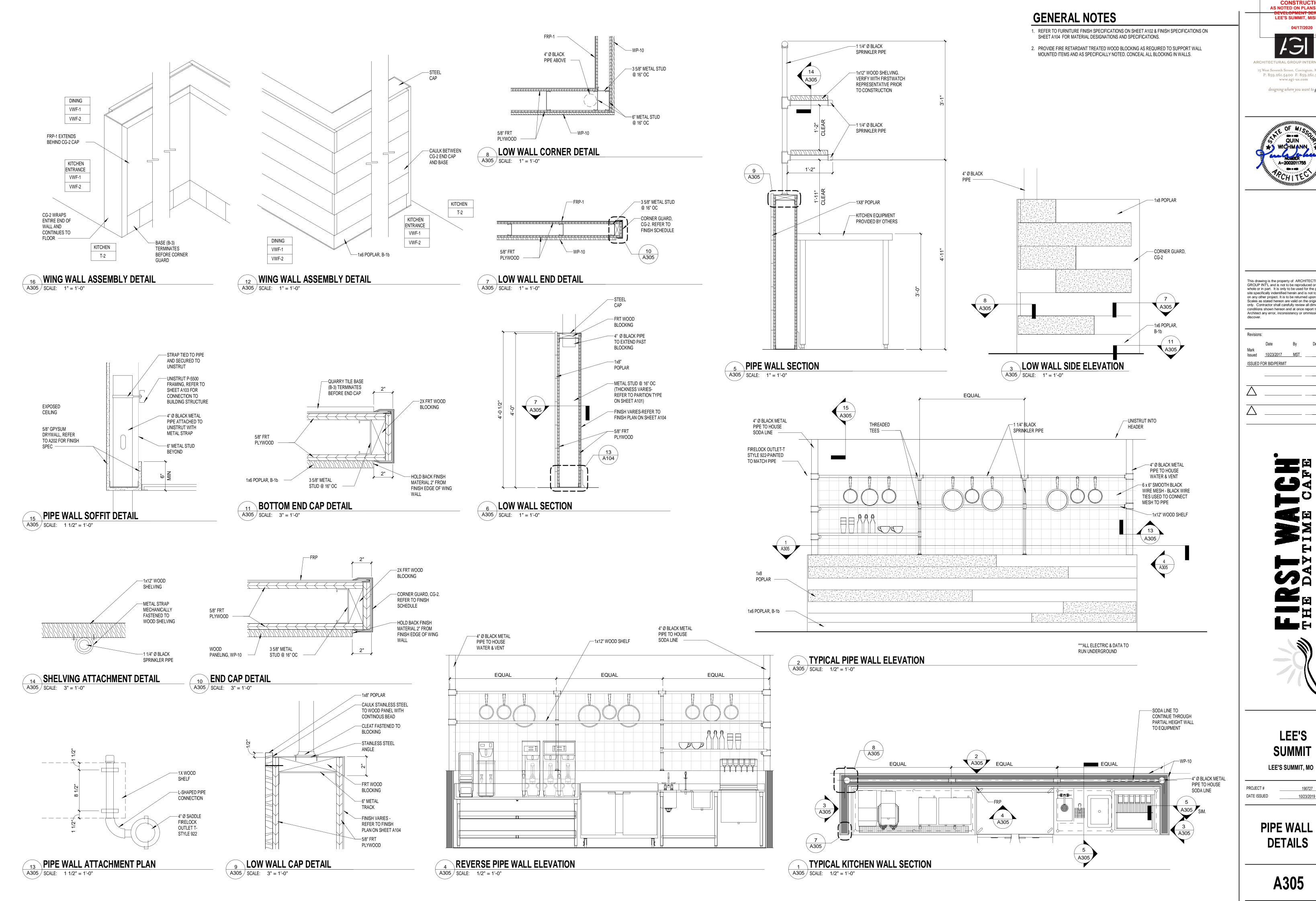
LEE'S

LEE'S SUMMIT, MO

PROJECT# 190727 DATE ISSUED 10/23/2019

> **BOOTH DETAILS**





CONSTRUCTION
AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI 04/17/2020 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com designing where you want to go.



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

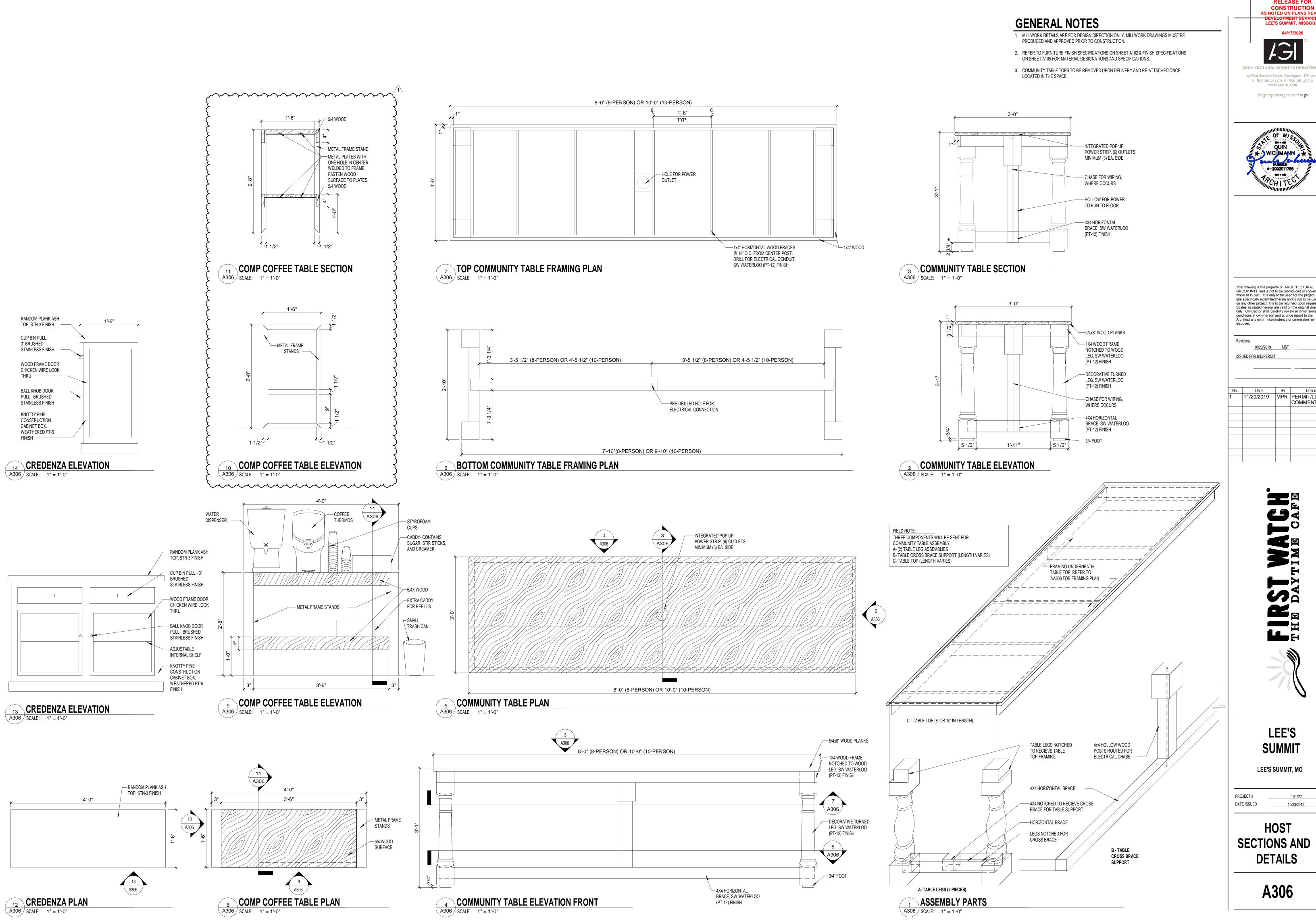
ISSUED FOR BID/PERMIT



LEE'S **SUMMIT**

190727 10/23/2019

PIPE WALL DETAILS



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020

www.agi-us.com designing where you want to go.

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

10/23/2019 MST

11/20/2019 MPR PERMIT/LL COMMENTS



LEE'S **SUMMIT**

LEE'S SUMMIT, MO

10/23/2019

HOST **SECTIONS AND**

GENERAL NOTES

1. MILLWORK DETAILS ARE FOR DESIGN DIRECTION ONLY. MILLWORK DRAWINGS MUST BE PRODUCED AND APPROVED PRIOR TO CONSTRUCTION.

----WELTING

----UPHOLSTERY, UP-4

---BLACK LAMINATE

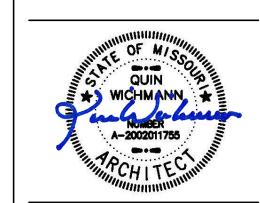
---WOOD LEG ON

CASTER

RECESSED KICK

2. REFER TO FURNITURE FINISH SPECIFICATIONS ON SHEET A102 & FINISH SPECIFICATIONS ON SHEET A105 FOR MATERIAL DESIGNATIONS AND SPECIFICATIONS.





This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

Issued <u>10/23/2017 MST</u> ISSUED FOR BID/PERMIT



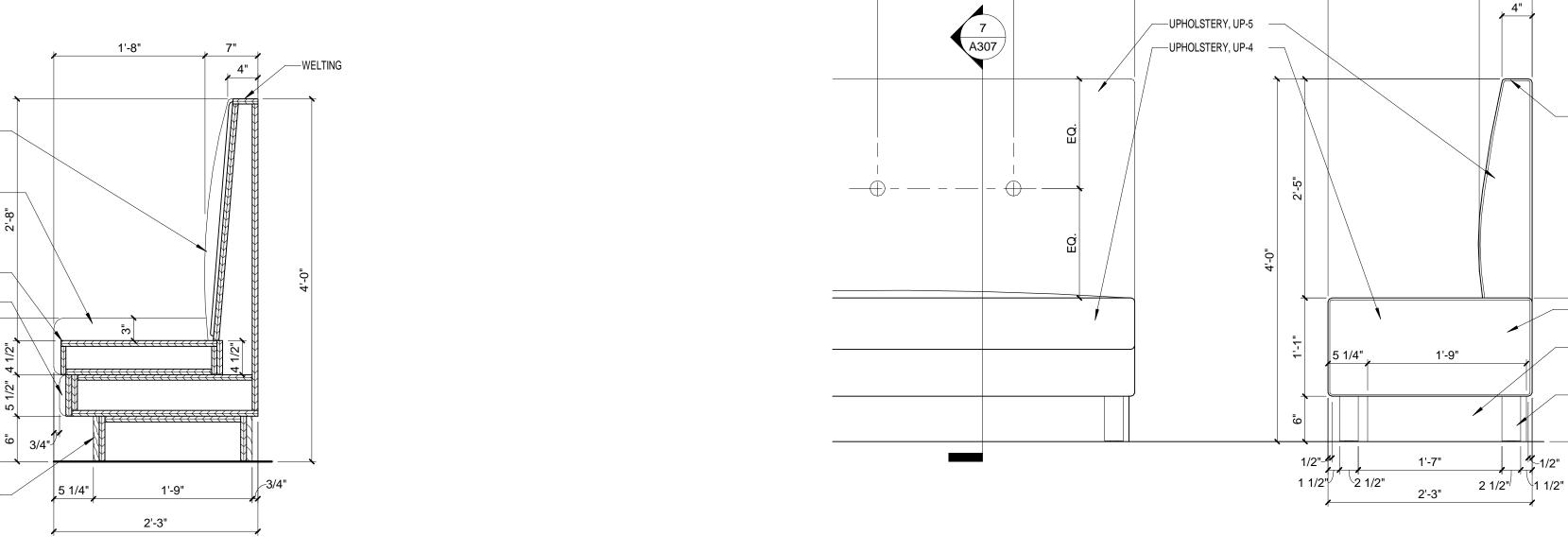
LEE'S

LEE'S SUMMIT, MO

PROJECT# DATE ISSUED 10/23/2019

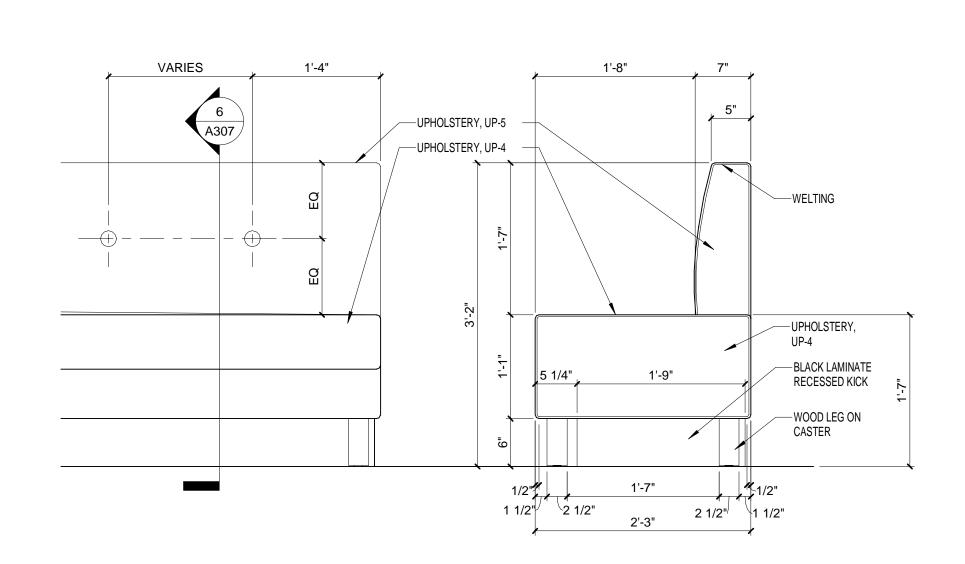
> **BANQUETTE DETAILS**

> > A307

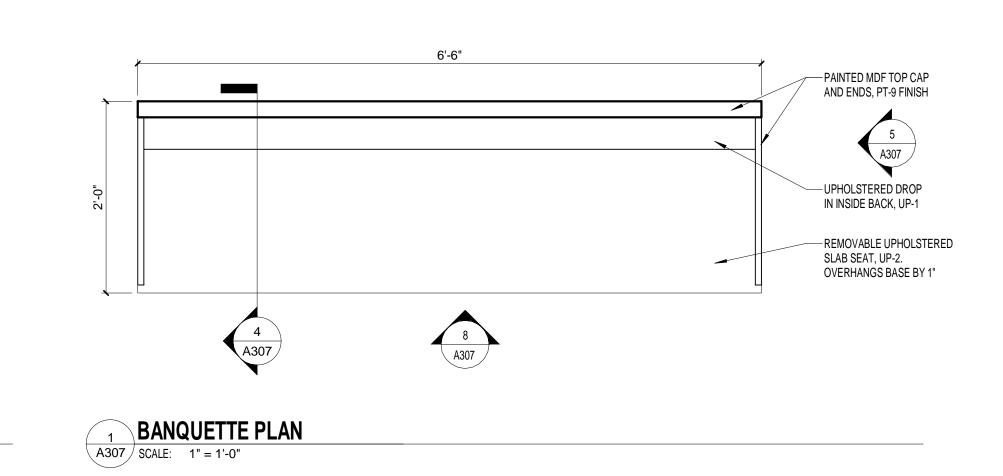


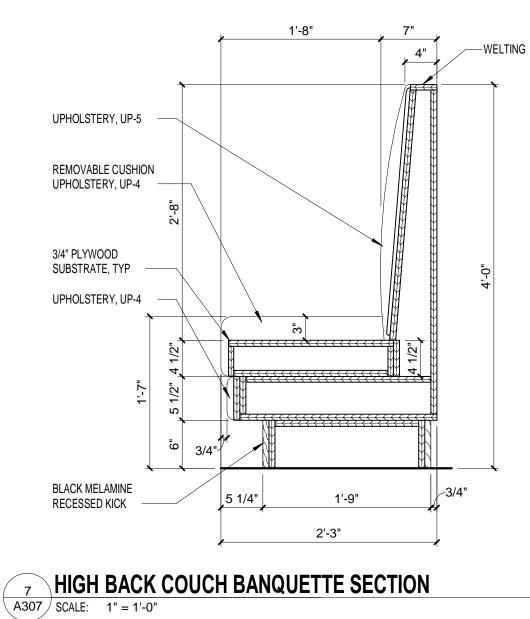
3 HIGH BACK COUCH BANQUETTE ELEVATION
A307 SCALE: 1" = 1'-0"

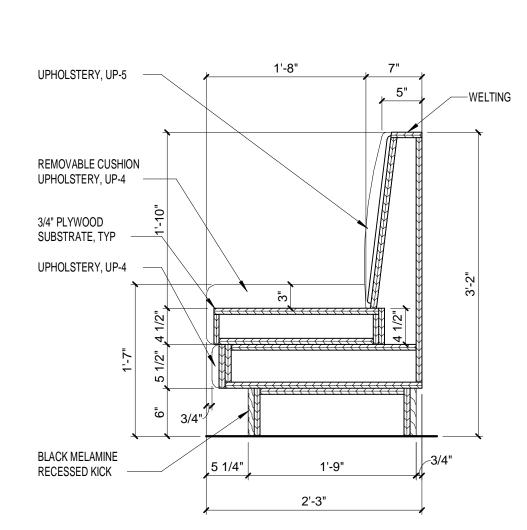
VARIES



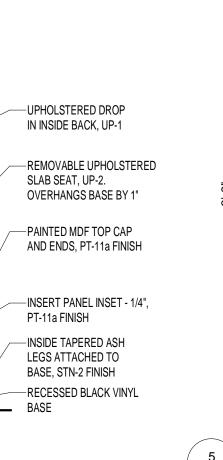
STANDARD BACK COUCH BANQUETTE ELEVATION A307 SCALE: 1" = 1'-0"







STANDARD COUCH BANQUETTE SECTION A307 | SCALE: 1" = 1'-0"



1'-8"

1/2" 1'-7 1/2"

1 1/2" 2 1/2"

SSTANDARD SEAT CONSTRUCTION WITH

ATTACHED SEAT BACK

BANQUETTE ELEVATION

8 BANQUETTE ELEVATION
A307 SCALE: 1" = 1'-0"

9 **BANQUETTE**A307 SCALE: 1" = 1'-0"

-WELTING

1'-7 1/2"

3'-11"

2 1/2" 1 1/2"

— SSTANDARD SEAT CONSTRUCTION WITH

ATTACHED SEAT BACK

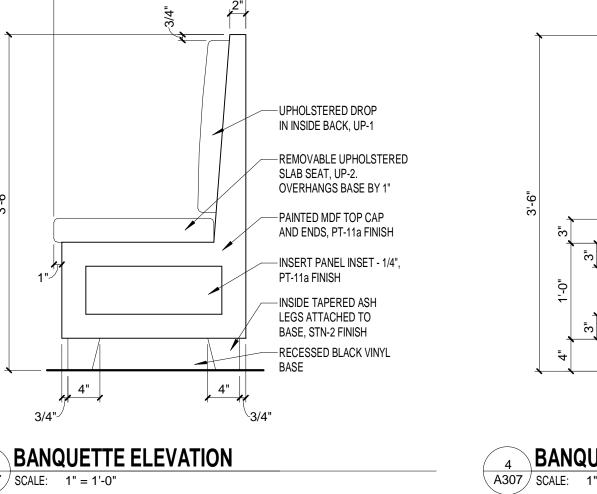
2 PIECES

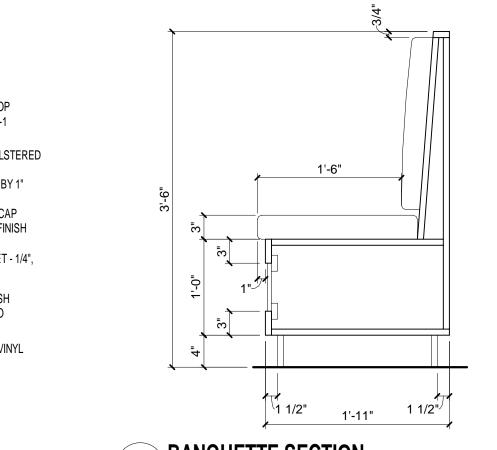
ASSEMBLED

--- UPHOLSTERY, UP-4

- BLACK LAMINATE RECESSED KICK

TAPERED WOOD





4 BANQUETTE SECTION
A307 SCALE: 1" = 1'-0"

5 **DANQUETTE**A307 SCALE: 1" = 1'-0"

			HARDWAF	RE SCHEDULE		
01						RESTROOM PUSH/PULL DOORS
	HINGES (STD. WT.)	3	HAGER	BB1191	26D	
	PUSH PLATE	1	HAGER	30S 6" x 16"	US32D	
	PULL PLATE	1	HAGER	31G 4" x 16"	US32D	
	SURFACE CLOSER (REGULAR ARM MOUNT)	1	DORMA	8616 AF86P	689	
	KICK PLATE	1	HAGER	194 10" HIGH B4E CSK	US32D	
	MOP PLATE	1	HAGER	194 4" HIGH B4E CSK	US32D	
	WALL STOP	1	HAGER	230W	US36D	
	SILENCERS	3	HAGER	307D		
02						INTERIOR VESTIBULE DOORS
<u></u>	PIVOT	1 SET	BY OTHERS		630	FURNISHED UNDER ALUMINUM SECTION
	PULL/PUSH BAR	1	H.B. IVES	9190-0-NO	630	
	SURFACE CLOSER	1 1	LCN COMMERCIAL DIVISION	4031 CUSH 18-30-61	689	
	SURFACE CLOSER		EGN COMMERCIAL DIVISION	4031 C03H 10-30-01	003	
03	1	1				INTERIOR OFFICE LOCKSET
	HINGES (STD. WT.)	3	HAGER	BB1279	26D	
	LOCKSET	1	HAGER	3550 SMALL FORMAT INTERCHANGEABLE	US26D	STOREROOM FOR FIXED CORE
	ARMOR PLATE	1	HAGER	194 36" HIGH B4E CSK	US32D	
	CINCINNATI AREA FINAL CYLINDER PROVIDED	BY ACME I	OCK (CINCINNATI OH)	I	1	
		J. AOIVIL L	HAGER	0550	626	STODEDOOM FOR SOLIL ACT STIC CORE
	LOCKSET	1		3550		STOREROOM FOR SCHLAGE SFIC CORE
	TEMPORARY CONSTRUCTION CORE	1	SCHLAGE	23-030	626	
	EAST COAST/WASHINGTON D.C. AREA, FINAL C	CYLINDER	·	N, D.C.)	_	
	WALL STOP	1	HAGER	230W	US26D	
	SILENCERS	3	HAGER	307D		
04						EXTERIOR KITCHEN HOLLOW METAL DOOR
	EXIT DEVICE RIM	1	DORMA	9700 Z003 W/CONSTRUCTION	630	
	(NIGHTLATCH LESS PULL)	'		CYLINDER		
	HINGES			EXISTING		CTOREROOM FOR FIVER CORE, CC. TO CONFIRM RACI/CET OF ALLIMINIUM DOOR IC
	LOCKSET	1	HAGER	3580 STOREROOM	US26D	STOREROOM FOR FIXED CORE. GC. TO CONFIRM BACKSET OF ALUMINUM DOOR IS NO LESS THAN 2 3/8"
	CINCINNATI AREA FINAL CYLINDER PROVIDED	BY ACME L	OCK (CINCINNATI, OH)	•	1	
	TEMPORARY CONSTRUCTION CORE	1	SCHLAGE	23-030	626	
	EAST COAST/WASHINGTON D.C. AREA, FINAL C	L Cylinder I			1 020	
				EXISTING		
	SURFACE DOOR CLOSER	1	HAGER	194 36" HIGH B4E CSK	US32D	+
	ARMOR PLATE					
	LATCH PROTECTOR	1	HAGER	341D	US32D	
	VIEWER	1	DOOR SCOPE	DS/1000	MG	
	RAIN DRIP	1	HAGER	810S TEK (FW)	MIL	
	THRESHOLD	1	HAGER	412S FHSA	MIL	
	SET OF WEATHER STRIP	1 1	HAGER	803S TEK	MIL	
	DOOR SWEEP	1	HAGER	770SB TEK	MIL	
	DOOR BELL	1	HAGER			G.C. TO SELECT. OWNER'S REPRESENTATIVE TO APPROVE PRIOR TO INSTALLATION.
)5		1				EXTERIOR MEDIUM STILE ALUMINUM DOOR WITH
	CONTINUOUS HINGE	1	HAGER	780-041HD	6063-T6	EXIT DEVICE (NIGHTLATCH/PULL TRIM)
	EXIT DEVICE RIM					
	(NIGHTLATCH LESS PULL)	1	HAGER	4600 SERIES RIM DEVICE	US26D	
	RIM CYLINDER	1	HAGER	3901 RIM CYLINDER, 46 NL		BY ACME LOCK FOR CINCINNATI/MIDWEST STORE
	RIM CYLINDER	1	HAGER	3901 RIM CYLINDER, 46 NL		BY FEDERATED LOCK (WASHINGTON, D.C. FOR EAST COAST LOCATIONS)
	OFFSET PULLS	1_1	HAGER	X12L W/ DECORATIVE THROUGH BOLTS	US32D	45 DEGREE, 12" CENTER TO CENTER
	SURFACE DOOR CLOSER	1	DORMA	8916 AF89J BP89	689	TOP JAMB
	CONCEALED OVERHEAD STOP	1	DORMA	910 SERIES STOP	626	
	RAIN DRIP CAP	1	HAGER	810S TEK (FW)	MIL	
	THRESHOLD	1	HAGER	412S FHSA	MIL	
	WEATHERSTRIPPING	1 1		ALUMINUM FRAME SUPPLIER	IVIIL	+
	DOOD CWEED	+ -	LIACED	770CD TEV		

770SB TEK

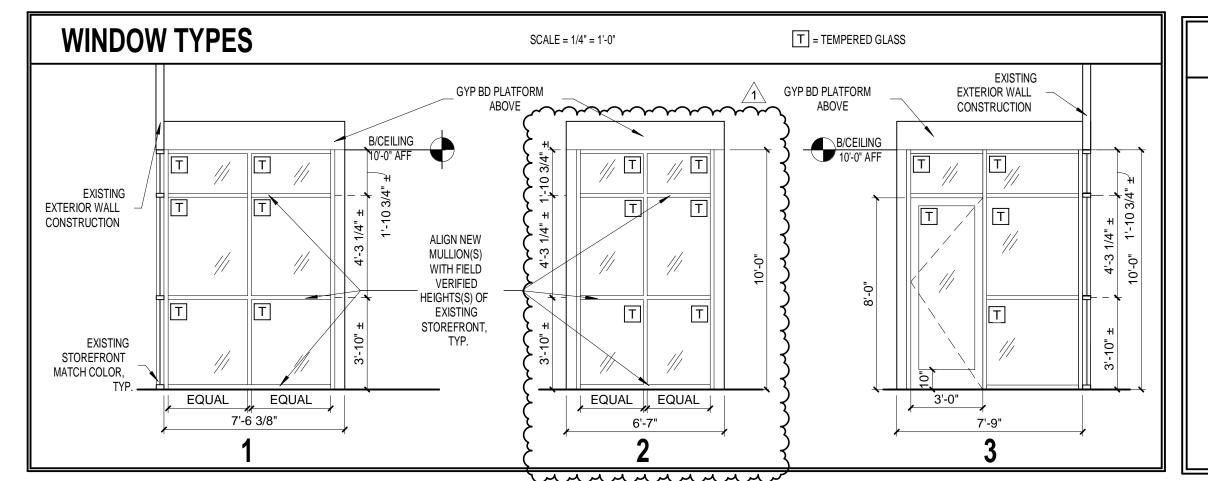
DOOR SWEEP

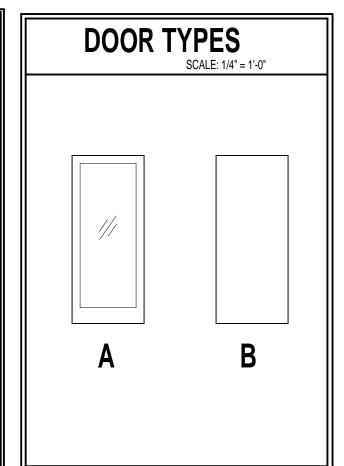
HAGER

GENERAL NOTES

1. ALL DOORS OPENING TO A FLANKING WALL TO HAVE DOOR STOPS

	WINDOW SCHEDULE								
WINDOW NO.	ROOM	SIZE (WIDTH X HEIGHT)	WINDOW TYPE	FRAME MATERIAL	JAMB DETAILS	HEAD DETAILS	QUANTITY	NOTES	
101	ENTRY VESTIBULE	7'-6 3/8" x 10'-0"	1	ALUM.			1		
102	ENTRY VESTIBULE	6'-7" x 10'-0"	2	ALUM.	-		1		
103	ENTRY VESTIBULE	7' 9" x 10'-0"	3	ALUM.			1		





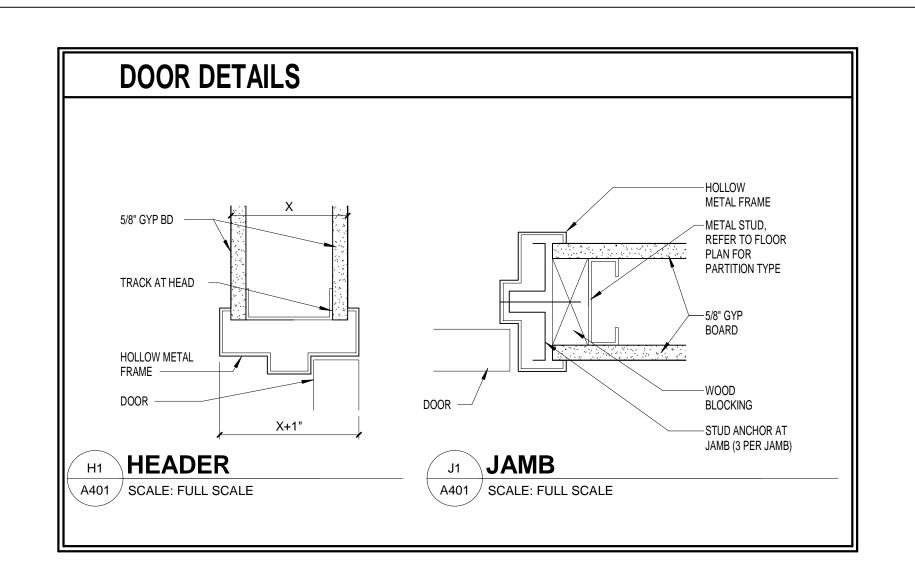
DOC	R SCHEDULE															
	ROOM	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	JAMB DETAILS	HEAD DETAILS	THRESHOLD DETAILS	KEY-SIDE ROOM NO.	DOOR COLOR	FRAME COLOR	FIRE RATING	DOOR NOTES	HARDWAR E SET	SIGN	DOOR NO.
100	ENTRY VESTIBULE	3'-0" x 8'-0" x 1 3/4"	A	ALUM./GLASS	ALUM.				 	PRE FIN	PRE FIN		A, D, G, J	05	•	100
101A	WAITING/HOSTESS	3'-0" x 8'-0" x 1 3/4"	А	ALUM./GLASS	ALUM.				 	PRE FIN	PRE FIN			02		101A
101B	WAITING/HOSTESS	3'-0" x 8'-0" x 1 3/4"	Α	ALUM./GLASS	ALUM.				 	PRE FIN	PRE FIN		A, D, G, J	05	•	101B
102	DINING	3'-0" x 8'-0" x 1 3/4"	Α	ALUM./GLASS	ALUM.				 	PRE FIN	PRE FIN		A, D, G, J	05	•	102
104	MEN'S TOILET ROOM	3'-0" x 7'-0" x 1 3/4"	В	SOLID WOOD	H.M.	J1/A401	H1/A401	3/A104	 		PT-11a		B, E, F	01	•	104
105	WOMEN'S TOILET ROOM	3'-0" x 7'-0" x 1 3/4"	В	SOLID WOOD	H.M.	J1/A401	H1/A401	3/A104	 		PT-11a		C, E, F	01	•	105
106	KITCHEN	3'-6" x 7'-0" x 1 3/4"	В	H.M.	H.M.				 		PT-11a		D, G, H, J	04		106
107	OFFICE	3'-0" x 7'-0" x 1 3/4"	В	SOLID WOOD	H.M.	J1/A401	H1/A401		 		PT-11a		D, E, F	03		107

DOOR NOTES:

- A. EXISTING HARDWARE BY STOREFRONT MANUFACTURER
 B. ADA COMPLIANT PICTOGRAM PLAQUE QUOTING "MALE RESTROOM" ON LATCH SIDE OF DOOR CENTERLINE AT 5'-0" (PROVIDED BY G.C.)
 C. ADA COMPLIANT PICTOGRAM PLAQUE QUOTING "FEMALE RESTROOM" ON LATCH SIDE OF DOOR CENTERLINE AT 5'-0" (PROVIDED BY G.C.)
 D. OWNER TO PROVIDE CYLINDERS AND KEYS. KEYS WILL BE BASED UPON REGIONAL GRAND MASTER, STORE MANAGER'S MASTER AND EXTERIOR ENTRY MASTER (OPENING BOTH ENTRIES, BUT NOT THE OFFICE)

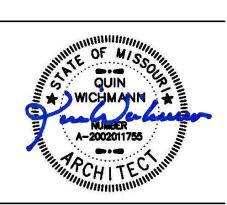
- E. BIRCH VENEER DOOR WITH CLEAR URETHANE FINISH
 F. UNDERCUT DOOR RESTROOM DOOR UNDERCUT BY 1", OFFICE DOOR UNDERCUT BY 1.5"
 G. ANY EXISTING THUMBTURN DOOR HARDWARE WILL BE SWITCHED OUT WITH LEVER HARDWARE THAT IS EASY TO GRASP WITH ONE HAND, DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE
 H. EXTERIOR FACE OF DOOR TO BE PAINTED TO COORDINATE WITH EXTERIOR BUILDING COLOR. PAINT SELECTION TO BE APPROVED BY FIRST WATCH PRIOR TO APPLICATION
 I. VERIFY COMPATIBILITY BETWEEN EXISTING DOOR AND NEW HARDWARE
 J. LANDLORD TO PROVIDE DOOR PER FIRST WATCH SPECIFICATIONS. G.C. TO CONFIRM EXISTING HARWARE MATCHES APPROPRIATE SPEC

Breakfast Brunch Lunch		Please Use Other Door	Breakfast, Brunch & Lunch daily 7:50 am - 2:30 pm	Breakfast, Brunch & Lunch daily 7:00 am – 2:30 pm	FIRST WATCH
	Enterpris Call Service State Call	2-'8" S C C C C C C C C C		2.2 8 - 2 - 4 - 4 - 7 - 4 - 7 - 4 - 7 - 7 - 4 - 7 - 7	4



CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020 P: 859.261.5400 F: 859.261.5530 www.agi-us.com



designing where you want to go.

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may discover.

Revisions: 10/23/2019 MST

ISSUED FOR BID/PERMIT

11/20/2019 MPR PERMIT/LL COMMENTS



LEE'S **SUMMIT**

LEE'S SUMMIT, MO

DATE ISSUED _______ 10/23/2019

DOOR & WINDOW SCHEDULE & **DETAILS**

DIVISION 1 - GENERAL REQUIREMENTS

1. AWARD AND REJECTION OF BIDS: THE CONTRACT WILL BE AWARDED TO A RESPONSIBLE BIDDER COMPLYING WITH THESE INSTRUCTIONS, PROVIDED HIS BID IS REASONABLE IN THE JUDGMENT OF THE OWNER. THE OWNER, HOWEVER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS, AND TO WAVE ANY INFORMALITY IN BIDS RECEIVED. THE COMPETENCY AND RESPONSIBILITY OF BIDDERS AND OF THEIR PROPOSED SUBCONTRACTORS WILL BE CONSIDERED IN MAKING THE AWARDS.

2. WITHDRAWAL OF BIDS: BIDS MAY BE WITHDRAWN BY THE BIDDER PRIOR TO, BUT NOT AFTER THE TIME DESIGNATED

3. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION-DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 1981 EDITION RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS. UTILIZE A.I.A. DOCUMENT A-107 "STANDARD FORM OF AGREEMENT" BETWEEN OWNER AND CONTRACTOR AS THE CONTRACT DOCUMENT.

4. THE OWNER'S GENERAL CONTRACTOR AND ALL SUB CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT THEMSELVES WITH THE ARTICLES CONTAINED THEREIN AND TO REVIEW WITH ALL SUB CONTRACTORS, SUPPLIERS, AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

5. THE OWNER AND THE ARCHITECT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK, ALTER, ADD TO, OR DEDUCT FROM THE CONTRACT WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY AND SUCH COSTS SHALL BE COMPETITIVE WITH LOCAL CONSTRUCTION COST.

6. WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND VERIFYING EXISTING CONDITIONS AS REFLECTED IN THESE CONTRACT DOCUMENTS. ANY EXTRA WORK REQUIRED BUT NOT INCLUDED IN THE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.

7. THE GENERAL CONTRACTOR IS REQUIRED TO FAMILIARIZE ALL PERSONS AND SUB-CONTRACTORS WORKING ON THIS PROJECT WITH THESE GENERAL NOTES AND THE CONTRACT DOCUMENTS NOTED IN THESE DRAWINGS, LANDLORD'S DESIGN CRITERIA, AND THE EXECUTED LEASE AGREEMENT BETWEEN LANDLORD AND OWNER. THE OWNER'S GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING HIMSELF WITH THE CONTENTS AND THE SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN THE SPECIFICATIONS THROUGHOUT THE SPAN OF THIS PROJECT BY THE OWNER'S GENERAL CONTRACTORS. SUPERVISORS, AND SUB-CONTRACTORS, AS THE STANDARD ESTABLISHED HEREIN SHALL BE APPLIED, WITH EMPHASIS TO ALL WORK, WORK DECLARED UNACCEPTABLE BY THE OWNER SHALL BE CORRECTED IN A MANNER AND TO A DEGREE OF QUALITY AS ACCEPTABLE BY THE OWNER.

8. OWNER'S GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE REQUIRED TO FURNISH THE FOLLOWING MINIMUM COVERAGE AND LIMITS OF LIABILITY. IF LANDLORD'S REQUIREMENT(S) ARE MORE NUMEROUS IN TYPE OF COVERAGE OR MORE STRINGENT, THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO THE ADDITIONAL REQUIREMENTS AND THE MOST STRINGENT OF THESE REQUIREMENTS.

a. WORKMAN'S COMPENSATION, AS REQUIRED BY STATE LAW, AND INCLUDING EMPLOYER'S LIABILITY INSURANCE WITH A LIMIT OF NO LESS THAN \$2,000,000 AND ANY INSURANCE REQUIRED BY ANY EMPLOYEE BENEFITS ACT OR OTHER STATUTES APPLICABLE WHERE THE WORK IS TO BE PERFORMED AND WILL PROTECT THE CONTRACTOR AND SUBCONTRACTORS FROM ANY AND ALL LIABILITY UNDER THE AFOREMENTIONED ACTS.

b. COMPREHENSIVE GENERAL LIABILITY INSURANCE (INCLUDING CONTRACTOR'S PROTECTIVE LIABILITY) IN ANY AMOUNT NOT LESS THAN \$2,000,000 FOR ANY ONE OCCURRENCE WHETHER INVOLVING BODILY INJURY LIABILITY (OR DEATH RESULTING THERE FROM) OR PROPERTY DAMAGE LIABILITY OR A COMBINATION THEREOF WITH A AGGREGATE LIMIT OF \$2,000,000. SUCH INSURANCE SHALL PROVIDE FOR EXPLOSION, COLLAPSE, AND UNDERGROUND COVERAGE. SUCH INSURANCE SHALL INSURE OWNER'S GENERAL CONTRACTOR AGAINST ANY AND ALL CLAIMS FOR BODILY INJURY, INCLUDING DEATH RESULTING THEREFROM AND DAMAGE TO OR DESTRUCTION OF PROPERTY OF ANY KIND WHATSOEVER AND TO WHOMEVER BELONGING AND ARISING FROM HIS OPERATIONS UNDER THE CONTRACT AND WHETHER SUCH OPERATIONS ARE PERFORMED BY OWNER'S GENERAL CONTRACTOR, SUBCONTRACTORS, OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM.

9. GENERAL CONTRACTOR SHALL PROVIDE OWNER'S PROTECTIVE LIABILITY INSURANCE WHICH WILL INSURE GENERAL CONTRACTOR AGAINST ANY AND ALL LIABILITY TO THIRD PARTIES FOR DAMAGE BECAUSE OF BODILY INJURY LIABILITY (OR DEATH RESULTING THERE FROM) AND PROPERTY DAMAGE LIABILITY OF OTHERS OF A COMBINATION THEREOF WHICH MAY ARISE FROM WORK IN CONNECTION WITH THE LEASED PREMISES, AND ANY OTHER LIABILITY FOR DAMAGES WHICH THE OWNER'S GENERAL CONTRACTOR AND/OR SUBCONTRACTORS ARE REQUIRED TO INSURE AGAINST UNDER ANY PROVISIONS HEREIN. SAID INSURANCE SHALL BE PROVIDED IN MINIMUM AMOUNTS AS FOLLOWS:

a. BODILY INJURY, PER OCCURRENCE FOR PERSONAL INJURY AND/OR DEATH:

b. PROPERTY DAMAGE LIABILITY: \$5,000,000

10. GENERAL CONTRACTOR'S BUILDERS RISK INSURANCE - COMPLETED VALUE BUILDERS RISK MATERIAL DAMAGE

11. GENERAL CONTRACTOR SHALL PROVIDE AN "ALL PHYSICAL LOSS" BUILDERS RISK INSURANCE POLICY ON THE WORK TO BE PERFORMED FOR OWNER IN THE LEASED PREMISES AS RELATED TO THE BUILDING WITHIN WHICH THE LEASE PREMISES IS LOCATED. THE POLICY SHALL INCLUDE AS INSURED, OWNER, AND OWNER'S ARCHITECT IF APPLICABLE. ITS CONTRACTOR AND SUB-CONTRACTORS, THE LANDLORD, AS THEIR INTERESTS MAY APPEAR. THE AMOUNT OF INSURANCE TO BE PROVIDED SHALL BE 100% OF THE REPLACEMENT COSTS.

12. THE GENERAL CONTRACTOR IS REQUIRED TO LIST ALL ADDITIONAL INSURED AS PER LANDLORD'S CRITERIA IN ADDITION TO THE OWNER'S ARCHITECT. INSURANCE REQUIREMENTS NOT OBTAINED BY THE GENERAL CONTRACTOR, AS NOTED ON THE DRAWINGS AND IN THESE SPECIFICATIONS WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE RESPONSIBILITY OF LIABILITY(S) FOR THIS PROJECT. A COPY OF ALL INSURANCE PAPERS ARE TO BE SENT DIRECTLY TO THE OWNER, NOT ONLY FOR REVIEW BUT FOR RECORD DOCUMENT.

13. GUARANTEES FOR ALL WORK BY SUB-CONTRACTORS SHALL BE FOR A PERIOD OF ONE YEAR. UNLESS OTHERWISE NOTED. AT TIME OF FINAL SUBMITTAL FOR ALL COST, INCLUDING BASE BID, EXTRAS, AND CREDITS, THE SUB-CONTRACTORS SHALL FURNISH TO THE GENERAL CONTRACTOR A WRITTEN GUARANTEE STIPULATING THAT, AT NO ADDITIONAL COST TO THE GENERAL CONTRACTOR OR OWNER, ANY DEFECTIVE WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF WORK, UNLESS OTHERWISE NOTED. IF SUCH WORK AFFECTS LANDLORD'S WORK, LANDLORD'S WORK IS TO BE COMPLETED BY THE SUB-CONTRACTOR AT NO

14. ALL PAYMENTS MADE TO THE GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY FOR PAYMENTS TO SUB-CONTRACTORS, MATERIAL SUPPLIERS, AND AGENTS AUTHORIZED BY THIS CONTRACT TO PERFORM WORK OR SUPPLY MATERIAL TO THIS PROJECT ONLY. THE GENERAL CONTRACTOR IS REQUIRED TO SUBMIT PARTIAL WAIVERS OR LIENS FOR HIS WORK AS WELL AS SUB-CONTRACTORS OR MATERIAL SUPPLIERS, UPON REQUEST OF THE CLIENT OR CLIENT'S ARCHITECT. THE REQUEST FOR PAYMENT OF THE FINAL 10% RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL. BY SUB-CONTRACTORS AND MATERIAL SUPPLIERS.

15. NO EXTRAS FOR COSTS CAN BE AUTHORIZED UNLESS APPROVED BY THE ARCHITECT. THE PROJECT MANAGEMENT COMPANY FOR THE OWNER, OR THE OWNER. AN ISSUANCE OF CREDITS TO BE CALCULATED BASED ON COMPETITIVE RATES AND EQUIPMENT COSTS APPROVED BY THE ARCHITECT, THE PROJECT MANAGEMENT COMPANY FOR THE

16. THE CONTRACTOR AGREES THAT IN PERFORMANCE OF THE WORK CALLED FOR BY THE CONTRACT, THEY WILL IMPLY ONLY SUCH LABOR AS WILL NOT DELAY OR INTERFERE WITH THE PROGRESS OF THE PROJECT AND AS WILL BE ACCEPTABLE TO AND WORK IN HARMONY WITH ALL OTHER CONTRACTORS EMPLOYED ON THE CONSTRUCTION SITE OR ON ANY OTHER BUILDING. STRUCTURE, OR OTHER IMPROVEMENT WHETHER PUBLIC OR PRIVATE WHICH GENERAL CONTRACTOR MAY THEN BE ERECTING OR ALTERING IN OTHER LOCATIONS.

17. FOR CLARIFICATION PURPOSES, OWNER, CLIENT, AND OWNER ARE THE SAME PARTY, LANDLORD IS THE PARTY LEASING THE SPACE TO THE OWNER AND THE GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

18. ALL DRAWINGS & SPECIFICATIONS HEREIN CREATE AN ENTIRE PACKAGE. ALL TRADES SHALL BE RESPONSIBLE FOR REVIEWING THEIR RESPECTIVE REQUIREMENTS AND COORDINATING THEIR HIDDEN OR EXPOSED WORK WITH OTHER RELATED TRADES.

19. UNLESS SPECIFICALLY NOTED, PROVIDE AND PAY FOR LABOR, MATERIALS AND EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK, INCLUDING PERMITS. OWNER SHALL PROVIDE UTILITIES.

20. USE OF DRAWINGS: THESE DRAWINGS MAY NOT SPECIFICALLY DETAIL OR SPECIFY MATERIALS AND/OR MANUFACTURERS. THE CONTRACTOR SHALL PROVIDE ALL SAMPLES AND/OR CUTS AS REQUIRED TO ASSIST THE OWNER OR HIS AGENT IN MAKING MATERIAL SELECTIONS. FOR THE PURPOSE OF ESTIMATING, THE CONTRACTOR SHALL USE THE MATERIALS SELECTED BY THE OWNER OR, IN ABSENCE OF SAME, HE SHALL PROVIDE AN ALLOWANCE AMOUNT AND SO CONDITION ANY COST ESTIMATE. ALL MATERIALS SPECIFIED IN THESE DRAWINGS SHALL BE INCLUDED IN SUCH ESTIMATES. ASSOCIATES IN ARCHITECTURE AND DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ANY DETAILING OR INSTALLATIONS NOT SHOWN ON THESE DRAWINGS.

21. OWNERSHIP OF DRAWINGS: THESE DRAWINGS ARE THE PROPERTY OF OWNER. THEY SHALL NOT BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE OWNER. THESE DRAWINGS ARE TO BE USED FOR THIS SPECIFIC PROJECT, AND ARE NOT TO BE REUSED IN WHOLE OR IN PART FOR ANOTHER PROJECT WITHOUT WRITTEN AUTHORIZATION. ARCHITECT ASSUMES NO LIABILITY FOR UNAUTHORIZED USE OR REPRODUCTION OF THESE

22. SHOP DRAWINGS AND/OR MATERIAL SAMPLES: CONTRACTOR SHALL SUBMIT PRODUCT DATA/SHOP DRAWINGS FOR ARCHITECT'S REVIEW IN THE FOLLOWING QUANTITIES: (1) COPY FOR ARCHITECT'S RECORD, (1) COPY FOR OWNER'S RECORD, PLUS NUMBER REQUIRED TO BE RETURNED TO CONTRACTOR FOR USE BY HIM AND HIS SUBCONTRACTORS. THE ARCHITECT WILL REVIEW THESE DOCUMENTS FOR CONFORMANCE WITH DESIGN INTENT ONLY. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS, QUANTITY TAKE-OFFS, DIMENSIONS, ETC. THE ARCHITECT WILL STAMP THE DRAWINGS: "NO CORRECTIONS NOTED," "MAKE CORRECTIONS NOTED," OR "REVISE AND RESUBMIT." THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING REQUESTED ITEMS IN SUFFICIENT TIME FOR ARCHITECT'S

23. OWNER'S DECISION: SHOULD ANY DISPUTE ARISE RESPECTING TRUE CONSTRUCTION AND MEANING OF DRAWINGS OR SPECIFICATIONS, IT SHALL BE DECIDED BY OWNER, WHOSE DECISION SHALL BE FINAL.

a. IN CASE OF WORK PERFORMED BY SUBCONTRACTORS AND WHERE GUARANTEES ARE REQUIRED, SECURE WARRANTIES FROM SAID CONTRACTORS ADDRESSED TO AND IN FAVOR OF OWNER, AND DELIVER COPIES OF SAME TO OWNER UPON COMPLETION OF WORK. CONTRACTOR AND ALL SUBCONTRACTORS AND MANUFACTURERS SHALL GUARANTEE WORKMANSHIP AND MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF OWNER'S FINAL ACCEPTANCE.

b. SHOULD ANY TROUBLE DEVELOP DURING THIS WARRANTY PERIOD DUE TO DEFECTIVE MATERIALS AND/OR FAULTY WORKMANSHIP, THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE TROUBLE AT NO ADDITIONAL COST TO OWNER.

24. UPON EXECUTION OF THE CONTRACT THE SUCCESSFUL BIDDER SHALL, WITHIN SEVEN (7) DAYS THEREAFTER, SUBMIT THE FOLLOWING:

a. A DEFINITIVE JOB CONSTRUCTION SCHEDULE SHOWING KEY DATES FOR COORDINATION WITH OWNER SUPPLIED SERVICES AND/OR MATERIALS.

b. CUTS AND/OR SAMPLES OF ANY OR ALL ITEMS, MATERIALS OR SAMPLES REQUIRING OWNER'S APPROVAL THAT ARE

c. COMPLETE LIST OF ALL SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS, TO BE UTILIZED, AND NOTICE OF

25. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE REQUIRED TO CHECK AND VERIFY ALL DIMENSIONS AND FIELDS CONDITIONS AT BUILDING SITE AND PREMISES AND NOTIFY THE OWNER OF ANY AND ALL DISCREPANCIES BEFORE STARTING ANY WORK.

26. ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL CODES, SUB-CODES, AND BUILDING DEPARTMENTS HAVING JURISDICTION. GENERAL CONTRACTOR TO CONTACT LOCAL BUILDING OFFICIALS FOR SPECIFIC

27. THE GENERAL CONTRACTOR AND THE SUB-CONTRACTOR FOR THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK NOTED ON THESE PLANS AND SPECIFICATIONS. THIS INCLUDES COST FOR ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENT PERMIT COST, AND PERMITS COST FOR FIXTURING SUPPLIES BY OWNER (IF APPLICABLE).

28. ALL WORK SHALL CONFORM WITH THE LANDLORD'S DESIGN CRITERIA SUPPLIED BY THE LANDLORD AND MADE PART OF THE OWNER'S LEASE. THE GENERAL CONTRACTOR IS TO OBTAIN A COPY OF THE DESIGN CRITERIA FROM THE OWNER AND THE REQUIREMENTS INCORPORATED IN THE CRITERIA FOR THE GENERAL CONTRACTOR AND SUB-CONTRACTORS WILL BE PART OF THE BIDS BY THE CONTRACTORS.

29. THE OWNER'S GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS. BEFORE DOING ANY WORK, OWNER'S GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE, SPECIALLY REGARDING OWNER'S CASE FIXTURE LAYOUT AND EXACT PLACEMENT AND NOTIFY THE OWNER OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.

30. ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT. THE LANDLORD'S OWNER COORDINATOR FOR THE BUILDING IS TO BE NOTIFIED OF THE NAMES OF ALL SUB-CONTRACTORS PRIOR TO STARTING WORK - SUCH NOTIFICATION IS THE RESPONSIBILITY OF THE GENERAL

31. PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL CONTACT AND MEET THE LANDLORD'S FIELD REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING AT WHICH TIME. HE WILL PRESENT A LIST OF NAMES, ADDRESSES, BUSINESS, AND HOME TELEPHONE NUMBERS OF THE SUB CONTRACTORS OF THIS PROJECT.

32. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).

33. THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, "FINAL" LANDLORD APPROVED WORKING DRAWINGS AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.

34. THE GENERAL CONTRACTOR IS TO ARRANGE WITH THE LANDLORD FOR THE BUILDING, WHERE BUILDING EQUIPMENT AND MATERIALS ARE TO BE LOCATED AND HOW TRUCK TRAFFIC IS TO BE ROUTED TO AND FROM THE BUILDING.

35. AN APPROVAL BY THE LANDLORD WILL ONLY BE VALID IF IN WRITING AND SIGNED BY THE LANDLORD OR BY THE LANDLORD'S DESIGNATED REPRESENTATIVE FOR SUCH PURPOSE. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING APPROVAL FROM LANDLORD ON ALL STRUCTURAL CHANGES DURING THE COURSE OF THE CONSTRUCTION PHASE OF PROJECT AS WELL AS VERIFICATION OF CORRECT INSTALLATION AND SPECIFICATION FOR MISCELLANEOUS STEEL FOR H.V.A.C., STEEL FOR MEZZANINES, DECKS, ETC.

36. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY REMOVAL, OR AS REQUIRED BY LANDLORD, OF TRASH, RUBBISH AND SURPLUS MATERIALS RESULTING FROM CONSTRUCTION. THE GENERAL CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS FROM THE PREMISES FREE FROM TRASH AND RUBBISH AT ALL TIMES.

37. THE GENERAL CONTRACTOR SHALL FURNISH AND PAY FOR ALL TEMPORARY UTILITY SERVICES: IF SUCH COST ARE SPECIFICALLY NOTED IN THE LEASE TO BE PAID BY THE LANDLORD, THE GENERAL CONTRACTOR IS NOT TO INCLUDE SUCH COST IN THE BID.

38. THE GENERAL CONTRACTOR SHALL IMMEDIATELY ORDER ALL LONG LEAD EQUIPMENT AND NOTIFY THE OWNER IMMEDIATELY OF ANY PROBLEMS REGARDING ABILITY OR DELIVERY AT THE BEGINNING OF THE PROJECT.

39. THE GENERAL CONTRACTOR IS TO VERIFY ALL EQUIPMENT SPECIFICATIONS AND REQUIREMENTS WITH THE OWNER OR THE ARCHITECT PRIOR TO START OF CONSTRUCTION. COORDINATION WITH THE ELECTRICAL SUBCONTRACTOR IS MANDATORY TO CAREFULLY CHECK ALL DRAWINGS AND VERIFY EQUIPMENT SELECTION AND CORRECT VOLTAGES,

40. ANY SUBSTITUTION OF FINISH MATERIALS MUST BE APPROVED BY THE ARCHITECT IN WRITING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TWO (2) SAMPLES OF EACH SUBSTITUTION, PLUS THE NUMBER HE REQUIRES TO BE RETURNED FOR USE BY HIM AND HIS SUBCONTRACTORS.

41. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE TO FAMILIARIZE THEMSELVES WITH THE WORK TO BE PERFORMED BY THE LANDLORD AND BY THE OWNER AS PART OF THE EXECUTED LEASE AGREEMENT AND ANY AND ALL DESIGN CRITERIA. ANY DISCREPANCY BETWEEN THESE DRAWINGS AND THE LEASE OR DESIGN CRITERIA INFORMATION IS TO BE REPORTED TO THE ARCHITECT PRIOR TO THE START OF ANY WORK.

42. ANY SCAFFOLDING, SAFETY RAILINGS, BARRICADES, AND/OR PROTECTION DEVICE REQUIRED FOR THE PROJECT WILL BE FURNISHED AND PAID FOR BY THE GENERAL CONTRACTOR AS PART OF THE BASE BID.

43. PROTECTION OF WORK IN WORK PLACE - WORK IN PLACE THAT IS SUBJECT TO INJURY BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED OR BOARDED UP, OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION. ALL FORMS OF PROTECTIONS SHALL BE CONSTRUCTED IN A MANNER SUCH THAT, UPON COMPLETION, THE ENTIRE WORK WILL BE DELIVERED TO THE OWNER IN PROPER, WHOLE AND UNBLEMISHED CONDITION. ALL SUCH WORK SHALL BE COORDINATED WITH THE LANDLORD'S REPRESENTATIVE.

44. THE STRUCTURAL SYSTEM OF THE LANDLORD'S BUILDING HAS BEEN DESIGNATED TO CARRY A MAXIMUM LIVE LOAD AS SPECIFIED IN THE LANDLORD'S CRITERIA. LOADING IMPOSED BY ANY OF THE OWNER'S WORK ON A TEMPORARY OR PERMANENT BASIS SHALL NOT EXCEED SUCH SPECIFIED LOAD.

45. ANY ALTERATIONS, ADDITIONS, OR REINFORCEMENTS TO LANDLORD'S STRUCTURE TO ACCOMMODATE OWNER'S WORK SHALL NOT BE PERFORMED WITHOUT IN EACH INSTANCE OWNER OBTAINING LANDLORD'S PRIOR WRITTEN APPROVAL; AND THE GENERAL CONTRACTOR, IN PERFORMING THIS WORK, SHALL LEAVE LANDLORD'S STRUCTURE AS STRONG AS, OR STRONGER THAN, THE ORIGINAL DESIGN AND WITH FINISHES UNIMPAIRED.

46. THE OWNER SHALL APPLY FOR ALL UTILITY METERS.

47. FURNISH ALL REQUIRED TEMPORARY FACILITIES AND ALL TEMPORARY UTILITIES IMMEDIATELY AFTER RECEIPT OF NOTICE TO PROCEED FOR USE AND CONVENIENCE OF ALL THOSE ENGAGED IN THE PROJECT WORK.

48. ALL CONTRACTORS MUST STAY BEHIND THE BARRIERS AND MAINTAIN ACCESS TO SUCH AREAS CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS. FAILURE TO MAINTAIN CLEAN STOREFRONT WILL RESULT IN BUILDING MANAGEMENT HAVING SUCH MATERIALS AND DEBRIS REMOVED AND ALL CHARGES FOR MAINTENANCE WILL BE BILLED

49. COORDINATE ALL CONSTRUCTION AND SCHEDULING WITH THE BUILDING MANAGER REVIEWING ALL SCHEDULED ACTIVITIES AT OUTSET OF CONSTRUCTION.

50. ALLOWABLE TOLERANCES: UNLESS OTHERWISE NOTED OR INDICATED, THE FOLLOWING TOLERANCES SHALL APPLY TO ALL WORK. TOLERANCES ARE NOT CUMULATIVE.

a. ALL VERTICAL SURFACES SHALL BE PLUMB OR CONSTRUCTED TO THE EXACT SLOPES AND ANGLES

b. THE MAXIMUM DEVIATION FROM THE TRUE PLANE FOR VERTICAL AND HORIZONTAL SURFACES SHALL NOT BE GREATER THAN 1/8" IN 10'-0" AS MEASURED BY A STRAIGHT EDGE PLACED ANYWHERE ON THE SURFACE. c. ALL HORIZONTAL SURFACES SHALL BE LEVEL OR CONSTRUCTED TO THE EXACT ANGLE INDICATED OR

d. WALL AND SOFFIT INTERSECTIONS SHALL BE 90 DEGREES OR THE EXACT ANGLE INDICATED OR INTENDED. e. ALL CORNERS AND EDGES SHALL BE STRAIGHT AND TRUE WITHOUT DENTS, WAVES OR BULGES OR OTHER

f. ALL JOINTS SHALL BE TIGHT, STRAIGHT, EVEN AND SMOOTH. g. ALL OPERABLE ITEMS SHALL OPERATE SMOOTHLY WITHOUT STICKING OR BINDING AND WITHOUT EXCESSIVE "PLAY" OR LOOSENESS.

51. THE OWNER OR THE OWNER'S SUB-CONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING THE FINAL STAGE OF CONSTRUCTION. COORDINATE AND COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT AND FACILITATE

52. ALL DIMENSIONS AND FINISHES SHALL BE VERIFIED AND COORDINATED WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION, FABRICATION OR PURCHASING. IN CASE OF CONFLICT BETWEEN THE PROJECT REQUIREMENTS AND/OR EXISTING CONDITIONS, THE ONE WITH THE MOST STRINGENT REQUIREMENTS SHALL GOVERN, AS APPROVED

53. PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICE TO ENSURE THE HIGHEST QUALITY FINISHED PRODUCT - EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS IN ACCORDANCE WITH ESTABLISHED STANDARDS OF WORKMANSHIP IN EACH OF THE VARIOUS TRADES.

54. THE CONTRACTOR SHALL USE ITS BEST EFFORTS TO PREVENT THE OCCURRENCE OF ANY STRIKE, SLOWDOWN, OR OTHER LABOR DIFFICULTIES OR DISPUTES ARISING FROM THE PRESENCE OF THE CONTRACTOR ON THE JOB OR THE ACTIVITIES OF THE CONTRACTOR.

55. THE CONTRACTOR SHALL REMOVE, OR CAUSE TO BE REMOVED, FROM THE JOB ALL EMPLOYEES WHO ARE CONSIDERED UNSATISFACTORY BY OWNER, AFTER NOTICE BY OWNER FOR THE REASON THEREOF.

56. ANY TRADE, WHICH MUST DO WORK IN AN AREA PREVIOUSLY PREPARED, BY ANOTHER TRADE SHALL APPROVE SUCH PRIOR WORK BEFORE COMMENCING. ANY UNSATISFACTORY CONDITIONS SHALL BE REPORTED TO OWNER AND NO WORK SHALL BE DONE IN THE AFFECTED AREA UNTIL THE UNSATISFACTORY CONDITIONS HAVE BEEN ELIMINATED. STARTING WORK SIGNIFIES ACCEPTANCE OF THE AREAS AS SATISFACTORY.

57. SHOULD ANY TRADE DAMAGE WORK OF ANOTHER TRADE, OR SHOULD ANY IMPROPER WORK BY ONE TRADE BE COVERED BY ANOTHER TRADE WHICH RESULTS IN DELAYS OR DEFECTS, ALL AFFECTED WORK, IN WHOLE OR IN PART, SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT ANY EXPENSES TO THE OWNER.

58. THE CONTRACTOR SHALL COORDINATE THE RELATIONS OF THE VARIOUS TRADES TO THE PROGRESS OF THE WORK AND SHALL SEE THAT THE REQUIRED ANCHORAGE OR BLOCKING IS FURNISHED AND SET AT PROPER TIMES. ANCHORAGE AND BLOCKING NECESSARY FOR EACH TRADE SHALL BE A PART OF SAME, EXCEPT WHERE STATED

59. COORDINATE BLOCKING REQUIREMENTS WITH ADJACENT OR RELATED TRADES, ACCESSORIES, EQUIPMENT AND

60. NO CHANGES IN WORK ORDERED BY AUTHORITIES HAVING JURISDICTION OVER PROJECT SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF OWNER, EXCEPT IN EMERGENCIES INVOLVING HAZARDS TO PERSONS OR PROPERTY.

61. REPAIR PROPERTY DAMAGED BY THE INSTALLERS TO A LIKE NEW CONDITION OR REPLACE DAMAGED SURFACES AND MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS AND SUB-CONTRACTORS.

FIXTURES. INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACT.

62. WHERE REQUESTED BY THE OWNER TO CERTIFY CONFORMANCE TO TRADE STANDARDS OR THE PROJECT REQUIREMENTS THE CONTRACTOR SHALL ENLIST A TESTING LABORATORY AT THE OWNER'S COST. IF THE REQUESTED TEST SHOWS NON CONFORMANCE TO FEDERALLY ACCEPTED TRADE STANDARDS OR THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AT NO ADDITIONAL COSTS TO THE OWNER AND REIMBURSE ALL THE COSTS OF THE TESTING TO THE OWNER, UNLESS THE CONTRACTOR HAS USED PRODUCTS INCORRECTLY LABELED BY THE MANUFACTURER OR HAS MADE PREVIOUSLY APPROVED CHANGES.

63. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLED AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS. CONSTRUCTION EQUIPMENT AND OWNER'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY OWNER.

64. MAINTAIN AN ACTIVE FIRE EXTINGUISHER AT THE PROJECT.

65. DO NOT USE MATERIAL OR EQUIPMENT FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY DESIGNED OR SPECIFIED. ALL MATERIALS AND EQUIPMENT THAT ARE SIMILAR SHALL BE THE SAME TYPE, MODEL, AND STYLE FOR THE SAME USE THROUGHOUT THE PROJECT OR THEY SHALL BE REJECTED.

66. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT WRITTEN MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS AT NO COST TO THE OWNER.

67. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS AT NO COST TO THE OWNER.

68. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY.

69. NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE AND READY FOR INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION AND MAINTENANCE INSTRUCTIONS AND GUARANTEES FOR ALL EQUIPMENT AND MATERIALS INSTALLED. PROVIDE WRITTEN GUARANTEES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

70. ATTIC STOCK MATERIALS SHALL BE LEFT AT JOB SITE. THEY SHALL BE TAKEN FROM THE SAME MATERIAL, LOT OR RUN USED TO CONSTRUCT AND FINISH THE PROJECT. SEE INDIVIDUAL SPECIFICATION SECTIONS FOR QUANTITIES OF MATERIALS TO REMAIN ON SITE. COORDINATE STORAGE LOCATION WITH OWNER'S REPRESENTATIVE.

71. GENERAL CONTRACTOR SHALL PROVIDE A 10-FOOT ALUMINUM LADDER WHICH WILL TURNED OVER TO THE OWNER AND LEFT AT THE JOB SITE, UPON COMPLETION OF WORK. LADDER SHALL BE OSHA APPROVED.

72. UPON COMPLETION OF WORK. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE TO OBTAIN A CERTIFICATE OF COMPLETION AND APPROVAL FROM THE BUILDING DEPARTMENT, OR OTHER AUTHORITIES HAVING JURISDICTION, AND SUBMIT SAME TO THE OWNER'S ARCHITECT. FINAL PAYMENT WILL NOT BE ISSUED PRIOR TO RECEIPT OF SUCH CERTIFICATE(S).

73. THE GENERAL CONTRACTOR SHALL UNLOAD, PROTECT AND INSTALL (INSTALL ONLY IF NOTED TO DO SO), OWNER'S EQUIPMENT, FIXTURES AND FURNISHINGS.

74. THE OWNER'S DESIGN CONCEPT LEAVES ZERO OR MINIMAL CLEARANCE FOR ERROR IN REGARD TO FIXTURE LAYOUT. "HOLD DIMENSION" INDICATIONS ARE TO BE ADHERED TO AND THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR ERROR OR OMISSION. ANY QUESTIONS RELATING TO DIMENSIONING ARE TO BE ADDRESSED TO THE ARCHITECT

75. THE GENERAL CONTRACTOR WILL HAVE A MAXIMUM OF 30 DAYS TO COMPLETE ALL PUNCH LIST ITEMS TO THE SATISFACTION OF FIRST WATCH RESTAURANTS. AFTER THIS 30 DAY TIME PERIOD FIRST WATCH RESTAURANTS WILL TAKE STEPS TO COMPLETE AND AND ALL OUTSTANDING PUNCH LIST ITEMS - BACK CHARGING ALL COSTS INVOLVED TO RESPECTIVE CONTRACTOR.

76. FINAL PAYMENT / PROJECT CLOSE-OUT:

a. OWNER WILL APPROVE FINAL PAYMENT WHEN THE FOLLOWING CONDITIONS ARE MET:

1. OBTAIN PERMITS, CERTIFICATES OF INSPECTION AND OTHER APPROVALS AND RELEASES BY GOVERNING AUTHORITIES REQUIRED FOR OWNER'S OCCUPANCY AND USE OF PROJECT

2. SUBMIT WARRANTIES AND SIMILAR DOCUMENTS.

3. SUBMIT MAINTENANCE MANUALS.

4. SUBMIT PROOF OF PAYMENT ON FEES, TAXES AND SIMILAR OBLIGATIONS

5. TRANSFER OPERATIONAL ACCESS, SECURITY AND SIMILAR OBLIGATIONS.

7. LIEN RELEASES FROM ALL SUBCONTRACTORS AND SUPPLIERS.

6. OBTAIN CONSENT OF SURETY FOR FINAL PAYMENT.

8. APPROVAL OF ALL "PUNCH LIST" ITEMS AND FINAL CLEANING OF PREMISES.

9. SUBMIT REQUIRED EXTRA MATERIALS STOCK.

b. OWNER WILL RETAIN A MINIMUM OF 10% OF THE CONSTRUCTION CONTRACT UNTIL THESE ITEMS ARE COMPLETED. COORDINATE CONSTRUCTION WITH LOCAL AUTHORITY.

10. CERTIFICATE OF TERMITE CONTROL FOR ANY SLAB LEAVE OUT AREA.

DIVISION 2 - DEMOLITION AND BUILDING ALTERATIONS

1. THE WORK MAY INCLUDE DEMOLITION OF EXISTING CONSTRUCTION, REMOVAL OF VARIOUS ITEMS OF EQUIPMENT AND CONSTRUCTION, AND THE CUTTING OR ALTERATION OF EXISTING CONSTRUCTION AS SHOWN, NOTED OR IMPLIED ON THE DRAWINGS. CONTRACTOR SHALL DETERMINE AND INVENTORY ALL NECESSARY DEMOLITION AND ALTERATION OF ITEMS TO PROVIDE FOR A COMPLETE INSTALLATION OF NEW WORK. ALL COSTS OF REMOVAL, REPAIR OR REPLACEMENT SHALL BE INCLUDED IN THE BID. ADDITIONAL COSTS FOR DEMOLITION OF ITEMS HIDDEN OR INACCESSIBLE DURING THE BIDDING PHASE SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING WORK.

2. AT ALTERED CONSTRUCTION, REPAIR CUT EDGES, REPLACE CONSTRUCTION, AND FIT NEW TO EXISTING CONSTRUCTION TO MATCH EXISTING WORK. MAKE JOINTS OF NEW AND EXISTING PATCHES VERY SMOOTH, EVEN AND PRACTICALLY INVISIBLE. COORDINATE ALL REPLACEMENT AND REPAIR REQUIREMENTS WITH LANDLORD'S CONSTRUCTION CRITERIA AND OWNER'S COORDINATOR.

3. SAW CUT CONCRETE WITH DIAMOND SAW; JACK HAMMERING WILL NOT BE PERMITTED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE LANDLORD. CUT IN ACCURATELY LOCATED STRAIGHT LINES AND BREAK OUT SECTIONS. FLOOR MAY BE CORE DRILLED WHERE APPROPRIATE FOR INSTALLATION OF PIPES AND SIMILAR ITEMS. COORDINATE ALL CORE LOCATIONS AND SLAB MODIFICATIONS WITH LANDLORD'S STRUCTURAL ENGINEER. WHERE EXISTING PIPING AND OTHER SIMILAR ITEMS ARE UNDER EXISTING SLABS, EXERCISE CARE TO PROTECT FROM DAMAGE EXERCISE CARE WHEN CUTTING ADJACENT TO EXISTING WALLS TO AVOID DAMAGE TO WALLS. IF DAMAGED, REPAIR AS REQUIRED TO ORIGINAL CONDITION.

4. DOORS AND FRAMES: IF DOORS AND FRAME ARE TO BE REUSED ON THE WORK, CAREFULLY REMOVE DOOR FROM FRAMES AND REMOVE FRAMES FROM OPENING, TAKING CARE TO AVOID DAMAGE. REMOVE HARDWARE, CLEAN, REFURBISH AND STORE FOR REINSTALLATION WHERE INDICATED. FOR DOORS AND FRAMES TO BE SALVAGED, CAREFULLY REMOVE FROM OPENING AND DELIVER FOR STORAGE WHERE INDICATED.

5. PREVENT MOVEMENT OR SETTLEMENT OF STRUCTURE: PROVIDE AND PLACE BRACING AND SHORING AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE, AS DETERMINED BY G.C. G.C.-ENLISTED STRUCTURAL ENGINEER SHALL ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE OR INJURY.

6. ARRANGE AND PAY FOR DISCONNECT, REMOVING AND CAPPING UTILITY SERVICES WITHIN AREAS AFFECTED BY DEMOLITION. PLACE MARKERS TO INDICATE LOCATION OF DISCONNECTED SERVICES. LOCATE SPRINKLER SHUT-OFF VALVE AND SMOKE ALARM PRIOR TO COMMENCING WORK. COORDINATE REQUIRED MODIFICATION WITH LANDLORD.

7. CAREFULLY REMOVE MATERIALS AND EQUIPMENT WHICH ARE INTENDED TO BE REUSED. STORE IN A SECURE LOCATION. REMOVE DEBRIS, AND REMOVE ANY MATERIALS BEING DEMOLISHED IMMEDIATELY FROM THE SITE.

8. ERECT AND MAINTAIN WEATHERPROOF AND DUSTPROOF CLOSURES AND PARTITIONS TO PREVENT WEATHER DAMAGE OR SPREAD OF DUST, FUMES, AND SMOKE TO OTHER PARTS OF THE BUILDING, IN ACCORDANCE WITH LANDLORD'S GUIDELINES AND STIPULATIONS.

9. PERFORM DEMOLITION IN ACCORDANCE WITH APPLICABLE AUTHORITIES HAVING JURISDICTION.

10. REPAIR ALL DEMOLITION IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER.

11. REMOVE FROM SITE CONTAMINATED, VERMIN INFESTED OR DANGEROUS MATERIALS ENCOUNTERED. DISPOSE OF BY SAFE MEANS TO PROTECT HEALTH OF WORKERS AND PUBLIC.

1. FOR PATCHING, LEVELING, AND FILLING OF CRACKS AND HOLES IN FLOOR SLAB, USE RAECOLITH "R35" AS UNDERLAYMENT OR APPROVED EQUAL. MIX SHALL BE TWO PARTS MORTAR MIX AND LATEX BINDER MIX AND INSTALL PER MANUFACTURER'S LATEST WRITTEN AND RECOMMENDED DIRECTIONS.

2. INFILL OF CONCRETE SLAB AREAS SHALL BE IN STRICT COMPLIANCE WITH LANDLORD'S REQUIREMENTS.

1. WHERE INDICATED FOR INFILL WALLS OR FOR CUTTING AND PATCHING, MASONRY WALLS SHALL BE REPOINTED FIRST, THEN CLEANED, THEN THE WATER-REPELLANT COATING APPLIED.

2. REPOINT USING THE STANDARDS FOUND IN ASTM E 2260 AND THE NPS PRESERVATION BRIEF 2.

3. REPOINT USING TYPE K MORTAR. REFER TO APPENDIX OF ASTM C 270 FOR MORTAR COMPONENTS AND RATIOS.

DIVISION 5 - METALS

1. PROVIDE ALL MISCELLANEOUS METAL ITEMS, INCLUDING MATERIALS, FABRICATIONS, FASTENINGS AND ACCESSORIES REQUIRED FOR FINISHED INSTALLATION AS INDICATED AND SPECIFIED.

2. STEEL SHALL BE ASTM-A366 AMERICAN OPEN HEARTH SHEET STEEL, FREE FROM SCALE AND PITTING AND ANOTHER DEFECTS AFFECTING APPEARANCE.

3. STEEL TUBING SHALL CONFORM TO REQUIREMENTS OF ASTM - A500 OR A501 AS APPROVED.

4. STEEL PLATES, SHAPES, AND BARS SHALL CONFORM TO REQUIREMENTS OF ASTM A36, A572, OR A992

6. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM-B221. REVEALS TO BE BLACK ANODIZED FINISH.

FOR STAINLESS STEEL AND NON-FERROUS ITEMS, USE TYPE 302 AND 304 STAINLESS STEEL FASTENERS.

SHEET STEEL SHALL CONFORM TO REQUIREMENTS OF ASTM-A606.

7. FASTENERS SHALL BE AS REQUIRED FOR ASSEMBLY AND INSTALLATION OF FABRICATED ITEMS. 8. BOLTS SHALL BE LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED FASTENERS CONFORMING WITH REQUIREMENTS OF ASTMA-307. INCLUDE NECESSARY NUTS AND PLAIN HARDENED WASHERS FOR MEMBERS. FOR SUPPORT OF STRUCTURAL MEMBERS OR CONNECTION THERETO, USE FASTENERS CONFORMING WITH ASTM-A325.

9. MISCELLANEOUS MATERIALS; PROVIDE ALL INCIDENTAL ACCESSORY MATERIALS, TOOLS, METHODS AND EQUIPMENT REQUIRED FOR FABRICATION AND INSTALLATION OF MISCELLANEOUS METAL ITEMS AS INDICATED ON DRAWINGS.

10. VERIFY DIMENSIONS PRIOR TO FABRICATION OR CASTING. FORM METAL ITEMS TO ACCURATE SIZES AND CONFIGURATIONS AS INDICATED ON DRAWINGS AND OTHERWISE REQUIRED FOR PROPER INSTALLATION. FABRICATE WITH ALL LINES STRAIGHT AND ANGLES SHARP, CLEAN, AND TRUE. DRILL, COUNTERSINK, TAP AND OTHERWISE PREPARE ITEMS FOR CONNECTIONS WITH WORK OF OTHER TRADES. MAKE PERMANENT CONNECTIONS BY WELDING AND GRIND ALL EXPOSED WELDS SMOOTH TO MATCH ADJACENT SURFACES. ROUGH JOINT SURFACES NOT PERMITTED. AVOID USING BOLTS AND SCREW UNLESS SPECIFICALLY INDICATED OR APPROVED. WHEN USED, DRAW UP TIGHT AND TIE THREADS TO PREVENT LOOSENING.

11. ALL FERROUS METAL ITEMS SHALL BE SHOP-FINISHED. TOUCH UP OR REPAIR DAMAGED AREAS PRIOR TO INSTALLATION WITH SAME MATERIAL.

12. PROVIDE CONTACT SURFACES WITH CONCRETE MASONRY OR OTHER DISSIMILAR MATERIALS WITH A MINIMUM 10 MIL DRY THICKNESS OF AN APPROVED ZINC CHROMATE PRIMER.

13. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL STUD FRAMED PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

14. FABRICATE ALL MISCELLANEOUS FRAMING AND BRACING ITEMS TO DETAIL OF STRUCTURAL SHAPES. PLATES. AND BARS. WELD JOINTS WHERE PRACTICAL. PROVIDE BOLTS AND OTHER CONNECTION DEVICES REQUIRED. INCLUDE ANCHOR ANGLES, SLEEVES, ANCHOR PLATE, AND SIMILAR DEVICES, WHETHER IMPLIED OR INDICATED. SET ACCURATELY IN POSITION AS REQUIRED AND ANCHOR SECURELY TO BUILDING CONSTRUCTION WITH FASTENERS APPROPRIATE TO THE INSTALLATION.

DIVISION 6 - WOOD AND PLASTICS

ALL WOOD FOR BLOCKING IN WALLS OR OTHERWISE IN CONCEALED AREAS TO BE FIRE-RETARDANT TREATED.

2. ALL FINISHED CARPENTRY STOCK TO BE DELIVERED TO PROJECT SITE PRE-FINISHED.

3. PROVIDE ROUGH LUMBER AND PLYWOOD IN STANDARD DIMENSIONS. MOISTURE CONTENT NOT MORE THAN 19%.

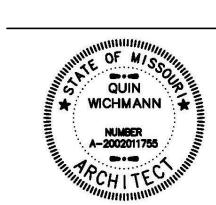
CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

RELEASE FOR

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to **go**.



GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

	Date	Ву	Descri
Mark Issued	10/23/2017	MST	
ISSUED F	OR BID/PERMIT		







PROJECT # DATE ISSUED 10/23/2019

4. PROVIDE ALL NECESSARY ROUGH HARDWARE IN SIZES AND QUANTITIES REQUIRED BY LOCAL CODE OR APPROVED BY ARCHITECT

5. USE FINISH OR CASING NAILS FOR EXPOSED WORK. USE TYPE "S" TRIM HEAD SCREWS FOR ATTACHMENT OF WOOD TRIM TO METAL STUDS, RUNNERS OR FURRING.

6. RELIEVE BACKS OF WOOD TRIM; KEEP BACKS OF MEMBERS MORE THAN 5" WIDE AND 1" NOMINAL THICKNESS; EASE

7. INSTALL LAMINATES ONLY WHEN RECEIVING SURFACES ARE IN A SATISFACTORY CONDITION FOR INSTALLATION.

8 LISE ADHESIVES RECOMMENDED BY THE MANUFACTURER FOR THE DARTICUL AR ADDITIONAL INSTALL IN

8. USE ADHESIVES RECOMMENDED BY THE MANUFACTURER FOR THE PARTICULAR APPLICATION; INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOST CURRENT PRINTED APPLICATION INSTRUCTIONS.

9. PROTECT FROM DAMAGE BY OTHER TRADES WORKING ADJACENT TO THE INSTALLATION. REPLACE DAMAGED SURFACES.

10. REMOVE EXCESS ADHESIVE AND CLEAN SURFACES USING MANUFACTURERS RECOMMENDED SOLVENT AND CLEANING PROCESS

11. FILL IN ALL SEAMS WITH MANUFACTURER'S APPROPRIATE COLOR SEAM COMPOUND.

12. INSTALL WOODS AND PLASTICS IN CONFORMANCE WITH DETAILS, WITH THE FOLLOWING GENERAL CONSIDERATIONS

a. INSTALL ALL MATERIAL WITH TIGHT JOINTS.

b. MITER CASINGS AND MOLDINGS.

e. SET FASTENERS FOR PUTTYING.

AND REQUIREMENTS:

c. ALL RUNNING TRIM ONE (1) PIECE UP TO 10'-0". MATCH GRAINS AND COLOR PIECE-TO-

d. USE FINISH NAILS EXCEPT WHERE SCREWS ARE SPECIFICALLY CALLED FOR OR WHERE

SCREWS DO NOT SHOW.

f. WHERE SCREW ATTACHMENT REQUIRED, SPACE SCREWS AT EQUAL INTERVALS, SINK AND PUTTY IN FINISH WOOD SURFACES.

g. ALL MEMBERS AND LINES LEVEL AND PLUMB.

h. SELECT AND CUT MATERIAL TO EXCLUDE DAMAGED, MARKED OR DEFECTIVE AREAS

i. FINISH EXPOSED SURFACES SMOOTH, FREE FROM TOOL AND MACHINE MARKS.

j. EASE ALL EXPOSED WOOD EDGES 1/8" MINIMUM RADIUS, UNLESS NOTED OTHERWISE.

DIVISION 7 - THERMAL & MOISTURE PROTECTION

JOINT SEALER

1. PROVIDE NON-SAG SEALANT COMPLYING WITH REQUIREMENTS OF FEDERAL SPECIFICATION TIS-1543 OR FS TIS-230 TYPE II, CLASS A. PROVIDE ACOUSTICAL SEALANT WHICH SHALL BE NON-HARDENING, NON-DRYING SYNTHETIC RUBBER SEALING COMPOUND WITH MINIMUM 905 SOLIDS. USE AT ALL INTERIOR JOINTS AT INNER SECTIONS BETWEEN PLANES. AROUND DOOR AND WINDOW FRAMES PRIMER SHALL BE MADE OR RECOMMENDED BY SEALANT MANUFACTURER FOR THE SPECIFIC CONDITIONS AND SUBSTRATES.

2. PROVIDE BACKING MATERIAL BY DOW "ETHAFOAM" OR APPROVED EQUAL. APPLY SEALANT OVER BACKING TO UNIFORM THICKNESS IN CONTINUOUS BEADS FILLING ALL JOINTS AND VOIDS SOLID. SUPERFICIAL POINTING WITH THE SKIM BEAD WILL NOT BE ACCEPTED.

3. ALL SURFACES SHALL BE ADEQUATELY CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS PRIOR TO INSTALLATION.

DIVISION 8 - DOORS & WINDOWS

STEEL DOORS AND FRAMES

1. PROVIDE "TIMELY" KNOCKDOWN DOOR FRAMES AT ALL DOORS, FREE FROM SCALE AND PITTING AND OTHER SURFACE DEFECTS. FACTORY PRIMED FINISH.

2. WHEN INDICATED ON DOOR SCHEDULE, PROVIDE HOLLOW METAL DOOR CONSTRUCTED WITH THE FOLLOWING

a. MINIMUM 18 GA. FOR FACE SHEETS OF INTERIOR DOORS.

b. 16 GA. FOR EDGE CHANNELS.

c. MINIMUM 22 GA. FOR FACE STIFFENERS.

d. MINIMUM 16 GA. FOR INTERIOR FRAMES.

3. PROVIDE DOORS OF SIZES AND TYPES INDICATED ON DRAWINGS FULLY WELDED SEAMLESS CONSTRUCTION WITH NO VISIBLE SEAMS OR JOINTS ON FACES OR VERTICAL EDGES; THICKNESS AS SCHEDULED ON DRAWINGS.

4. FACE STIFFENERS, EDGES AND HARDWARE REINFORCEMENT SHALL BE THE HIGHEST QUALITY WORKMANSHIP AND MATERIALS. PROVIDE IN ACCORDANCE WITH THE BEST TRADE PRACTICE AND MANUFACTURERS WRITTEN RECOMMENDATIONS FOR THE USE INTENDED.

5. PROVIDE CUSTOM MADE WELDED UNITS WITH INTEGRAL TRIM SIZES AND SHAPES AS INDICATED ON DRAWINGS; FABRICATE UNITS SQUARE, TRUE AND FREE FROM DEFECTS.

6. HARDWARE REINFORCEMENT AND ANCHORS (ERECTION, FLOOR AND JAMB) SHALL BE AS REQUIRED FOR A SECURE INSTALLATION AND SHALL BE IN ACCORDANCE WITH TRADE REQUIREMENTS FOR THE SPECIFIED HARDWARE AND INTENDED USE.

7. AFTER FABRICATION, DRESS, FILL AND SAND EXPOSED SURFACES, BODY PUTTY HOLES AND IMPERFECTIONS. APPLY UNIFORM COAT OF MANUFACTURER'S STANDARD PRIME COAT TO ALL EXPOSED SURFACES. LEAVE READY TO RECEIVE

8. INSTALL FRAMES IN ACCURATE LOCATIONS AS INDICATED ON DRAWINGS. INSTALL RIGID, PLUMB, LEVEL AND TRUE, ALIGN WITH ADJACENT CONSTRUCTION. SECURE FLOOR ANCHORS TO FLOOR CONSTRUCTION WITH APPROVED TYPE MECHANICAL FASTENINGS; ANCHOR TO ADJOINING WALLS WITH SPECIFIED ANCHORS. BRACE DURING CONSTRUCTION OF ADJACENT WALLS. ADJUST FRAME LOCATIONS AS NEEDED USING SHIMS BEFORE FASTENING. LEAVE READY TO RECEIVE SEALANT WHERE NOTED ON DRAWINGS.

9. PREPARE DOOR FOR FINISH HARDWARE. OBTAIN TEMPLATES FROM HARDWARE MANUFACTURERS AND CONFIRM TYPE, LOCATION AND SPECIAL REQUIREMENTS OF HARDWARE FOR EACH DOOR PRIOR TO CUTTING.

10. HANG DOORS AS SCHEDULED ON DRAWINGS IN ACCURATE LOCATIONS WITH 1/8" CLEARANCE AT TOPS AND 3/8" CLEARANCE AT BOTTOM, UNLESS SPECIFICALLY NOTED FOR "UNDERCUTS" OR OTHER DEVIATIONS IN FIT. VERIFY CLEARANCES REQUIRED FOR CARPETING AND MAKE NO JOB SITE FIT CUTS UNLESS APPROVED. HANG PAIRS OF DOORS AS SPECIFIED WITH 3/32" CLEARANCE AT MEETING EDGES. DEMONSTRATE THAT DOORS OPEN FREELY WITHOUT BINDING, AND WHEN CLOSED, WILL LATCH PROPERLY.

11. ACCESS DOORS: PROVIDE ACCESS DOORS BY MILCOR OR EQUAL. USE STYLE "DW" AT WALLS AND CEILINGS (OR AS REQUIRED FOR RATING). SIZE AS INDICATED. FRAME SHALL BE GALVANIZED STEEL DRYWALL BEAD FOR FRAME CONCEALMENT. PANEL SHALL BE 14 GA. STEEL WITH SPRINT TYPE CONCEALED HINGES OPENING TO 175 DEGREES. LOCKS SHALL BE FLUSH, SCREWDRIVER OPERATED WITH METAL CAM. PRIME COAT SHALL BE FACTORY APPLIED. COORDINATE INSTALLATION WITH REQUIREMENTS OF OVERHEAD COILING DOOR MANUFACTURER.

WOOD DOORS

1. ALL DOORS ARE SOLID CORE AWI PREMIUM GRADE

2. PROTECT DOORS DURING TRANSIT, STORAGE AND HANDLING TO PREVENT DAMAGE, SOILING AND DETERIORATION. COMPLY WITH REQUIREMENTS OF REFERENCED STANDARDS AND RECOMMENDATIONS OF NWWDA PAMPHLET "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS", AS WELL AS WITH MANUFACTURES INSTRUCTIONS.

3. PRIME EXPOSED PORTIONS OF DOORS FOR PAINT FINISH WITH ONE COAT OF WOOD PRIMER.

4. ALIGN AND FIT DOORS IN FRAMES WITH UNIFORM CLEARNESS AND BEVELS AS INDICATED BELOW; DO NOT TRIM STILES AND RAILS IN EXCESS OF LIMITS SET BY MANUFACTURER. MACHINE DOORS FOR HARDWARE. SEAL CUT SURFACES AFTER FITTING AND MACHINING. SEAL ALL (6) SIDES OF DOORS.

5. FITTING CLEARANCES: PROVIDE 1/8" AT JAMBS AND HEADS AND 1/8" FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING.

6. PROTECT DOORS AS RECOMMENDED BY DOOR MANUFACTURER TO ENSURE THAT WOOD DOORS WILL BE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

HADDWADE

1. ALL FINISH HARDWARE FOR COMPLETE WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. QUANTITIES LISTED IN ANY INSTANCE ARE FOR THE CONTRACTORS CONVENIENCE ONLY AND ARE NOT GUARANTEED. ITEMS NOT SPECIFICALLY MENTIONED BUT NECESSARY TO COMPLETE THE WORK SHALL BE FURNISHED. MATCHING IN QUALITY AND FINISH. THE ITEMS SPECIFIED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION AND FITTING OF HARDWARE IN LOCATIONS SPECIFIED. THE CONTRACTOR MUST SUPPLY A ROOM UNDER LOCK AND KEY, OR OTHER APPROVED SECURE STORAGE MEANS, TO STORE ALL FINISH HARDWARE UNTIL INSTALLATION IS MADE. THE HARDWARE SUPPLIER MUST MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION AND LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.

3. PROVIDE HARDWARE FOR FIRE-RATED OPENINGS IN COMPLIANCE WITH REQUIREMENTS OF NFPA 80. THIS REQUIREMENT TAKES PRECEDENCE OVER OTHER REQUIREMENTS FOR SUCH HARDWARE.

4. HARDWARE SUPPLIER SHALL PROVIDE APPROVED SCHEDULE AND PAPER TEMPLATES TO VARIOUS OTHER SUPPLIERS FOR DOOR AND FRAME PREPARATION FOR HARDWARE.

5. EACH ITEM OF HARDWARE SHALL BE PACKAGED SEPARATELY WITH ALL NECESSARY SCREWS, BOLTS, TAMPONS, KEYS AND INSTALLATION TEMPLATES. DELIVER PACKAGES CLEARLY IDENTIFIED, WITH HEADING NUMBER AS APPROVED ON HARDWARE SCHEDULE.

6. INSTALL EACH HARDWARE ITEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS AND LOCATE IN ACCORDANCE WITH THE RECOMMENDED LOCATIONS. SET ITEMS LEVEL, PLUMB, AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE, AS INDICATED OR IN ACCORDANCE WITH INDUSTRY STANDARDS.

7. MAKE FINAL ADJUSTMENT AND CHECK OF HARDWARE DURING THE WEEK IMMEDIATELY PRIOR TO ACCEPTANCE. CLEAN AND RELUBRICATE OPERATING ITEMS AS NECESSARY, TO RESTORE PROPER FUNCTIONING AND FINISH OF HARDWARE AND DOORS. MAKE FINAL ADJUSTMENT OF LOCKSETS AND THE CLOSERS TO COMPENSATE FOR OPERATION OF HEATING AND VENTILATING SYSTEMS UNDER THE SUPERVISION OF MANUFACTURERS REPRESENTATIVE.

8. LUBRICATE ALL MOVING PARTS WITH GRAPHITE TYPE LUBRICANT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER. REPLACE ALL HARDWARE WHICH CANNOT BE LUBRICATED AND ADJUSTED TO OPERATE FREELY AND SMOOTHLY

ALUMINUM STOREFRONT SYSTEMS

1A. WHERE EXISTING STOREFRONT OR CURTAINWALL SYSTEMS ARE PRESENT, AND WHERE MODIFICATIONS ARE REQUIRED, ALL COMPONENTS OF NEW FRAMING SYSTEM TO MATCH EXISTING MANUFACTURER, COLOR, FRAME PROFILE, MODEL NUMBER, ETC.

1B. WHERE NEW STOREFRONT SYSTEMS ARE INDICATED, BASIS OF DESIGN SHALL BE KAWNEER TRIFAB A51 T (THERMALLY BROKEN)

2. SYSTEMS ARE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AAMA SFM-1, PERFORMANCE CATEGORY

3. PROVIDE CONCEALED FASTENING WHEREVER POSSIBLE.

4. MANUFACTURER IS RESPONSIBLE FOR ENGINEERING OF SYSTEM AND ALL COMPONENTS IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS FOR SEISMIC OR HURRICANE RATINGS.

5. PROVIDE FASTENING METHODS THAT ACCOUNT FOR THERMAL MOVEMENT AND LIVE LOAD DEFLECTION OF BUILDING STRUCTURE.

6. SUBMIT MANUFACTURER'S PRODUCT LITERATURE AND SPECIFICATIONS, AND SHOP DRAWINGS INDICATING JOB-SPECIFIC ELEVATIONS AND SECTION DETAILS.

7. SYSTEM TO BE INSTALLED ONLY BY MANUFACTURER-APPROVED INSTALLERS.

8. ALUMINUM FRAMING MEMBERS ARE TO BE ASTM B221, ALLOY 6063-T5, 0.125" MINIMUM WALL THICKNESS EXTRUSIONS.

GLASS AND GLAZING

1. WHERE EXISTING STOREFRONT OR CURTAINWALL SYSTEMS ARE PRESENT, AND WHERE MODIFICATIONS ARE REQUIRED, ALL COMPONENTS OF NEW GLAZING SYSTEM TO MATCH EXISTING MANUFACTURER, FINISH, MODEL NUMBER, FTC.

2. ALL GLASS EDGES SHALL BE GROUND SMOOTH & POLISHED.

3. GENERAL GLASS SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATION DD-G-451 AND FMGA GLAZING MANUAL.

4. STOREFRONT GLASS SHALL BE AS REQUIRED FOR THE SIZES AND CONDITIONS DETAILED. FRAME SECTIONS SHALL BE CONCEALED WHERE INDICATED.

5. PROVIDE RESILIENT NEOPRENE BLOCKS (70 TO 90 SHORE A DUROMETER) HARDNESS AND RESILIENT ACCESSORIES DESIGNED FOR POSITIONING GLASS IN RABBETS.

6. PROVIDE CLIPS OF NON-CORROSIVE METAL DESIGNED FOR CONTACT BLOCKS, NOT GLASS.

7. PROVIDE STANDARD PRE-FORMED GLAZING TAPE, STAINLOCKE 400, TRIMCO 440, OR APPROVED EQUAL.

8. PROVIDE NON-SHRINKING ELASTOMERIC TAPE WHERE REQUIRED.

9. USE SILICONE SEALANT DOW #795 OR GESILPRUF. OR APPROVED EQUAL.

10. ALL EDGES, DRILLED HOLES AND NOTCHES SHALL BE FACTORY CUT AND/OR FACTORY FORMED. TOUCH-UP "RAW"

11. INSTALL IN ACCORDANCE WITH FGMA RECOMMENDATIONS UNLESS NOTED OTHERWISE.

12. VERIFY THAT FRAMES TO RECEIVE GLAZING ARE SQUARE AND TRUE, THAT PERIMETER CLEARANCES ARE SUFFICIENT TO PREVENT "POINT LOADING" AND THAT SURFACES ARE CLEAN, DRY AND READY TO RECEIVE GLAZING MATERIALS. REMOVE ALL PROTECTIVE COATINGS FROM FRAMING SURFACES.

13. CENTER GLASS IN RABBETS AND POSITION SO AS TO MAINTAIN CLEARANCES ON ALL SIDES, INDOORS AND OUT, IN ACCORDANCE WITH FGMA RECOMMENDATIONS. SHIM AS REQUIRED TO POSITION AGAINST FIXED STOPS AND FRAME BARS.

14. SET ALL EXTRUSIONS IN CORRECT LOCATIONS AS SHOWN IN THE DETAILS. THEY SHALL BE LEVEL, FLUSH, SQUARE, PLUMB AND IN ALIGNMENT WITH OTHER WORK.

15. UPON COMPLETION, REMOVE ALL EXCESS SEALANT AND MATERIALS FROM SURFACES; WASH AND CLEAN ALL GLASS FRAMING MEMBERS.

16. PROVIDE HURRICANE-RATED GLAZING UNITS WHERE INDICATED OR REQUIRED

17. SEE DRAWINGS FOR ADDTIONAL GLAZING REQUIREMENTS AND SPECIFICATIONS.

DIVISION 9 - FINISHES

METAL SUPPORT SYSTEM (WALL STUDS)

1. PROVIDE CHANNEL-SHAPED ROLL FORMED SHEET STEEL MEMBERS CONFORMING WITH ASTM-C640, HOT DIPPED FINISH WHERE EXPOSED TO MOISTURE; NOT LESS THAN 20 GAUGE. PROVIDE 16 GAUGE AT DOOR JAMBS.

2. PROVIDE COLD ROLLED STEEL CHANNELS NOT LESS THAN 16 GAUGE WHERE INDICATED.

3. PROVIDE ROLL HAT-SHAPED CHANNELS MINIMUM 25 GAUGE, 7/8" DEEP WITH 1/2" HEMMED EDGES, HOT DIPPED FINISH WHERE NOTED.

5. PROVIDE GALVANIZED HANGERS OF STEEL WIRE IN ACCORDANCE WITH ASTM-C754

4. PROVIDE TIE WIRES OF GALVANIZED ANNEALED WIRES NOT LESS THAN 16 GAUGE.

6. PROVIDE JACK STUDS BETWEEN BOTTOM TRACK AND WINDOW AND/OR RELIEF SILLS BETWEEN LINTELS AND HEADERS IN TOP TRACKS.

7. PROVIDE BLOCKING AND FRAMING FOR ALL WALL MOUNTED FINISH HARDWARE AND EQUIPMENT, INCLUDING DOOR STOPS.

8. PROVIDE CEILING SEISMIC BRACING IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND AS INDICATED ON DRAWINGS.

9. PROVIDE DOUBLE BEAD OF BUTYL SEALANT AT FLOOR TRACKS. APPLY DOUBLE BEAD TO CEILING TRACK AND TO STUDS ABUTTING OTHER CONSTRUCTION.

10. PROVIDE CHANNEL SHAPED BLOCKING SUPPORT OR GALVANIZED STRIP SUPPORT OF WALL-HUNG CABINETS, EQUIPMENT, FIXTURES AND ACCESSORIES OF NOT LESS THAN 22 GA. MATERIAL. PROVIDE SUPPORT IN WALL OR PARTITION FRAMING SYSTEM WHEREVER WALL HUNG CABINETS AND EQUIPMENT ARE INDICATED ON DRAWINGS, AND WHERE REQUIRED FOR MOUNTING OF MISCELLANEOUS ITEMS REQUIRING BRACING.

11. SET FLOOR TRACKS IN ACCURATE LOCATIONS AND SECURELY ANCHOR IN ACCORDANCE WITH ASTM STANDARDS. ERECT STUDS AND SECURE TO TRACK. INSTALL HEAD TRACK IN ACCORDANCE WITH DETAILS. INSTALL BLOCKING, BRACING AND ANCHOR STRIPS. LEAVE READY TO RECEIVE FINISH MATERIALS.

12. ERECT ALL COMPONENTS FOR CEILING AND SOFFIT FRAMING IN ACCURATE LOCATIONS AS INDICATED, TRUE TO LINE, LEVEL AND PLUMB, AND IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS, AS REFERENCED ABOVE. USING A LASER LEVEL, ADJUST SUPPORTS, SPANS OR OTHERWISE FOR INSTALLATION WITHIN SPECIFIED TOLERANCES.

13. PROVIDE KICK BRACING IN ACCORDANCE WITH INDUSTRY STANDARDS FOR WALL STUDS, CEILING MEMBERS, DRAFT OR SMOKE STOPS AND CURTAIN WALLS.

PAINTING

1. PROVIDE PAINT FINISHES FOR BUILDING AND OTHER SURFACES AS SCHEDULED ON DRAWINGS OR AS SPECIFIED HEREINAFTER. NO PAINT FINISH IS REQUIRED ON ITEMS HAVING COMPLETE FACTORY FINISH, EXCEPT AS MAY BE SPECIFIED HEREINAFTER. NO PAINT FINISH IS REQUIRED ON PUTTY AND/OR SEALANT AT ALUMINUM WINDOWS, NON-FERROUS METAL UNLESS SPECIFICALLY MENTIONED IN THE PAINTING SCHEDULE, STAINLESS STEEL, INTERIOR OR EXTERIOR OF EXISTING BUILDING EXCEPT WHERE ALTERATIONS OCCUR OR WHERE SCHEDULED, GRILLES AND DIFFUSERS. NO PAINTING IS REQUIRED FOR INSULATED PIPING, EXCEPT WHERE EXPOSED IN FINISHED NON MECHANICAL ROOM SPACES.

2. PROTECT WORK OF OTHER TRADES FROM DAMAGE AND DEFACEMENT CAUSED BY THIS WORK REPAIR ANY DAMAGE CAUSED BY THE WORK OF THIS SECTION. REMOVE ELECTRICAL OUTLET AND SWITCH PLATES, MECHANICAL DIFFUSERS GRILLES, ESCUTCHEONS, REGISTERS, SURFACE HARDWARE, FITTINGS AND FASTENINGS PRIOR TO COMMENCING THE WORK. STORE, CLEAN AND REPLACE UPON COMPLETION.

3. PAINT CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR IF ANY SURFACE TO BE PAINTED OR STAINED IS FOUND TO BE UNSUITABLE TO PRODUCE PROPER FINISH. APPLY NO FINISH MATERIAL UNTIL THE UNSUITABLE SURFACES HAVE BEEN MADE SATISFACTORY.

4. FINISH WORK SHALL BE UNIFORM, OF APPROVED COLOR, SMOOTH AND FREE FROM RUNS. MAKE ENDS OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN. WHERE HIGH GLOSS ENAMEL IS USED, LIGHTLY SAND UNDERCOAT TO OBTAIN A SMOOTH FINISH COAT.

5. PROVIDE ALL NEWLY PAINTED SURFACES WITH ONE (1) COAT TINTED PRIMER AND TWO (2) COATS FINAL COLOR COAT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS.6. DELIVER ALL PAINT TO JOB SITE IN UNOPENED CONTAINERS BEARING THE MANUFACTURERS LABEL AND SHOWING

PAINT TYPE, SHEEN AND COLOR.

7. PAINT TYPES USED SHALL BE THOSE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE MATERIAL TO WHICH THEY WILL BE APPLIED. PAINTING CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PROPER

8. ALL SURFACES TO BE PAINTED SHALL BE THOROUGHLY CLEANED AND PREPARED FOR PAINTING PRIOR TO APPLICATION OF PAINT. PROVIDE VENTILATORS AS REQUIRED TO PREVENT BUILD-UP OF FUMES.

9. SANDPAPER ALL NEW WOOD TO SMOOTH AND EVEN DUST OFF. AFTER PRIMING COAT HAS BEEN APPLIED THOROUGHLY FILL ALL NAIL HOLES AND OTHER SURFACE IMPERFECTIONS WITH PUTTY TINTED WITH PRIMER OR STAIN TO MATCH WOOD COLOR. SAND ALL WOODWORK BETWEEN COATS TO A SMOOTH SURFACE.

10. PRIME ALL SURFACES WHICH RECEIVE PAINT PRIOR TO APPLICATION OF FINAL FINISH, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

11. BACK PRIME ALL EXTERIOR AND INTERIOR WOOD AND TRIM PRIOR TO INSTALLATION. THOROUGHLY CLEAN SURFACES AND APPLY NO FINISH UNLESS SURFACES ARE DRY AND READY FOR APPLICATION. SANDPAPER SURFACES OF TRIM SMOOTH AND WIPE CLEAN. AFTER STAIN COAT HAS BEEN APPLIED, FILL CRACKS AND HOLES WITH PLASTIC WOOD OR PUTTY. IF STAIN HAS BEEN USED, TINT CRACK FILLER TO MATCH PRIME BACKS OF TRIM. PRIME BARE WOODS SCHEDULED TO RECEIVE PAINT FINISH, FINISH NAIL HOLES, CRACKS AND OTHER IMPERFECTIONS WITH PUTTY AND SAND SMOOTH.

12. AT COMPLETION, TOUCH-UP AND RESTORE FINISH WHERE DAMAGED AND LEAVE ALL SURFACES IN GOOD AND

13. OTHER PAINT MANUFACTURERS MAY NOT BE SUBSTITUTED.

14. FINISH INTERIOR SURFACES AS SCHEDULED ON DRAWINGS, EXCEPT AS MODIFIED AND SUPPLEMENTS HEREINAFTER AND UPON WRITTEN APPROVAL.

GYPSUM WALL BOARD

APPLICATION OF THE PAINTS.

1. PROVIDE GYPSUM WALL PANELS MANUFACTURED IN ACCORDANCE WITH REQUIREMENTS OF ASTM-336.

2. PROVIDE TYPE "X" FIRE RETARDANT GYPSUM WALL BOARD PANELS 5/8" THICK, TESTED AND QUALIFIED FOR 1 HOUR RATING, TAPERED AND ROUNDED AT EDGES THROUGHOUT SPACE, AS INDICATED ON DRAWINGS.

3. PROVIDE METAL EDGE AND CORNER BEADS AT ENDS, EDGES AND CORNERS.

4. WATER RESISTANT GYPSUM WALL BOARD SHALL BE 5/8" THICK, QUALIFIED FOR 1-HOUR RATING, TAPERED AND ROUNDED EDGES AND BE INSTALLED IN ALL WET AREAS AND AS INDICATED ON DRAWINGS.

5. FOR CONTROL JOINTS, PROVIDE U.S. GYPSUM #093 OR APPROVED EQUAL. INSTALL IN LOCATIONS AS RECOMMENDED BY INDUSTRY STANDARDS AND IN COMPLIANCE WITH U.S. GYPSUM STANDARDS.
 6. PROVIDE FASTENERS IN ACCORDANCE WITH ASTM-C646, UNLESS OTHERWISE NOTED OR INDICATED. PROVIDE TYPE

FOR ATTACHMENT OF FRAMING TO DOOR FRAMES.

7. PROVIDE ALL INCIDENTAL AND ACCESSORY MATERIALS, TOOLS, EQUIPMENT, AND METHODS REQUIRED FOR SATISFACTORY COMPLETION OF GYPSUM WALLBOARD CONSTRUCTION INCLUDING ACCESS DOORS AND PANELS.

"S" BUGLE HEAD SCREWS FOR ATTACHMENT OF WALL BOARD TO METAL FRAMING, AND TYPE "S" PAN HEAD SCREWS

8. APPLY CONTINUOUS BEAD OF SEALANT AT ALL JOINTS OF WALLBOARD ABUTTING ADJACENT CONSTRUCTIONS, INCLUDING AROUND FRAMED OPENINGS AND OTHER PROTRUSIONS THROUGH WALLBOARD. WHERE UN-EXPOSED,

9. APPLY PRE-SEALANT; WHERE UN-EXPOSED, PROVIDE ACOUSTIC INDUSTRY STANDARDS. APPLY EMBEDDING COMPOUND REINFORCING TAPE CENTERED OVER JOINT; APPLY SKIM COAT. AFTER TAPING AND EMBEDDING IS DRY, APPLY SECOND COAT FILLING AND TAPER FLUSH WITH SURFACE, NO SECOND COAT REQUIRED AT INTERIOR ANGLES. FREE TAPE PENETRATIONS AT DEMISING WALLS, CORRIDOR ENVELOPE AND OTHER RATED ASSEMBLIES.

10. PROVIDE LEVEL 5 FINISH AT ALL AREAS EXPOSED TO VIEW.

11. IN SOME INSTANCES, WHERE CALLED FOR IN THE DRAWINGS, PLYWOOD IS USED IN LIEU OF GYPSUM BOARD WHERE CONCEALED BY FINAL FINISHES. IN NO CIRCUMSTANCE SHALL PLYWOOD BE USED IN A FIRE-RATED ASSEMBLY, UNLESS THE U.L. DESIGN FOR THAT ASSEMBLY ALLOWS FOR IT.

SUSPENDED ACOUSTICAL PANEL CEILINGS

1. SYSTEM COMPONENTS SHALL CONFORM TO ASTM-C635 INTERMEDIATE DUTY AND UBC STANDARD 47-18 INTERMEDIATE DUTY. INSTALLATION OF SYSTEMS SHALL CONFORM TO ASTM-C636, WITH A DEFLECTION OF NOT MORE THAN 1/360 OF THE SPAN.

2. FURNISH AND INSTALL ALL LABOR AND MATERIALS FOR COMPLETE ACOUSTICAL CEILING. REVIEW JOB SCHEDULE TO VERIFY INSTALLATION DATES AND MATERIAL AVAILABILITY.

OUTLETS. PROTECT FINISHED WORK INSTALLED BEFORE INSTALLATION OF ACOUSTICAL SUSPENSION SYSTEM.
REPLACE WORK DAMAGED BY WORK UNDER THIS SECTION.

4. MAINTAIN FIRE AND SMOKE RATINGS AS REQUIRED BY CODES AND LANDLORD'S SPECIFICATIONS AND REGULATIONS.

3. COORDINATE ACOUSTICAL SUSPENSION SYSTEM WORK WITH OTHER SUCH AS CEILING LIGHT FIXTURES AND AIR

5. ALL LOCKING CROSS TEES SUPPORTING OTHER CROSS TEES SHALL CONFORM TO THE SAME CLASSIFICATION AS THE MAIN RUNNERS. MAIN RUNNERS AND CROSS TEES SHALL BE COLD ROLLED ELECTRO-GALVANIZED STEEL.

6. PAINT EXPOSED SURFACES, EXCEPT WHERE THE PAINT SCHEDULES INDICATE THAT A SURFACE OR MATERIAL IS NOT TO BE PAINTED OR IS TO REMAIN NATURAL. IF THE PAINT SCHEDULES DO NOT SPECIFICALLY MENTION AN ITEM OR A SURFACE, PAINT THE ITEM OR SURFACE THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES, WHETHER OR NOT SCHEDULES INDICATE COLORS. IF THE SCHEDULES DO NOT INDICATE COLOR OR FINISH, THE ARCHITECT WILL SELECT FROM STANDARD COLORS AND FINISHES AVAILABLE.

a. PAINTING INCLUDES FIELD PAINTING OF EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR

b. PAINTING OF MECHANICAL AND ELECTRICAL WORK MAY ALSO BE SPECIFIED IN DIVISIONS 15 AND 16 RESPECTIVELY.

CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL AND

8. CORNERS SHALL BE MANUFACTURER'S PREFABRICATED INSIDE AND OUTSIDE CORNER MOLDINGS.

7. WALL ANGLE MOLDINGS SHALL BE COLD ROLLED ELECTRO-GALVANIZED STEEL.

9. FINISH SHALL BE BAKED ENAMEL IN SELECTED COLOR.

10. HANGER SHALL BE 12 GAUGE GALVANIZED STEEL WIRE CONFORMING TO FS QQ-W-461, TYPE 1.

11. PROVIDE CEILING SEISMIC BRACING IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND AS INDICATED ON DRAWINGS.

12. INSPECT LOCATIONS TO RECEIVE WORK AND CHECK THE EXISTING DIMENSIONS. BE CERTAIN BEFORE PROCEEDING WITH WORK THAT ALL REQUIRED INSPECTIONS HAVE BEEN MADE. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF RESPONSIBILITY RELATED TO GUARANTEE REQUIREMENTS.

13. THE BUILDING SHALL BE EXAMINED BEFORE BEGINNING WORK TO DETERMINE THAT IT IS PROPERLY ENCLOSED AND THE STRUCTURE IS IN PROPER CONDITION TO RECEIVE ACOUSTICAL MATERIALS.

14. THE AREA SHALL BE BROOM CLEANED AND UNINTERRUPTED FOR FREE MOVEMENT OF SCAFFOLDING. SCAFFOLDING SHALL BE OF A TYPE THAT WILL NOT SCAR OR MAR FLOOR SURFACES AND WILL NOT DAMAGE OTHER CONSTRUCTION. WORK NOT TO PROCEED UNTIL SATISFACTORY CONDITIONS DESCRIBED ABOVE PRESIDE.

15. ATTACH HANGER WIRE TO SOUND, SECURE STRUCTURAL MEMBERS CAPABLE OF CARRYING THE LOAD WITHOUT DEFLECTION. WRAP, BOLT OR CLIP WIRE HANGERS TO STRUCTURAL STEEL MEMBERS, OR INSTALL DROP CLIPS ON STRUCTURAL STEEL MEMBERS AND TIE WIRE HANGERS TO DROP CLIPS.

16. INSTALL SUPPLEMENTARY FRAMING, BLOCKING AND BRACING WHERE NECESSARY TO SUSPEND CEILING SYSTEM FIXTURES AND EQUIPMENT AND WHERE SPACING OF STRUCTURAL SUPPORTS EXCEEDS SPECIFIED HANGER SPACING. WHERE DIRECT SUSPENSION OF SUPPLEMENTARY FRAMING FOR SUPPORT OF EQUIPMENT, FIXTURE OR DUCTWORK IS NOT POSSIBLE DUE TO OBSTRUCTIONS, SUPPLEMENTARY FRAMING MAY BE SUSPENDED BY "TRAPEZE" ARRANGEMENT OF HANGER WIRE. SUSPEND LIGHT FIXTURES FROM STRUCTURE BY ATTACHMENT ON ONE HANGER AT EACH CORNER OR THE FIXTURE.

17. FURNISH ADDITIONAL WIRES FOR LIGHTING FIXTURES AND MECHANICAL REGISTERS IN SUSPENDED CEILING. PROVIDE SEISMIC BRACING AS REQUIRED.

18. INSTALL CEILING SUSPENSION SYSTEM IN ACCORDANCE WITH ASTM-C636. LOADING OF ANY COMPONENT MAY NOT CAUSE DEFLECTION OF MORE THAN 1/360 OF THE SPAN. USE LASER LIGHT FOR LAYOUT AND LEVELING.

19. INSTALL MAIN RUNNERS 48 INCHES O.C. TIE HANGER WIRES TO MAIN RUNNERS TIGHTLY WITH AT LEAST THREE FULL TURNS. INTERCONNECT MAIN RUNNERS BY LOCKING CROSS TEES 48 INCHES LONG TO FORM 24 INCH BY 48-INCH MODULES. WHEREVER SHOWN ON THE DESIGN PLANS, THESE MODULES SHALL BE DIVIDED BY CROSS TEES TO FORM 24 INCH BY 24-INCH SECTIONS. PROPER LENGTH LOCKING CROSS TEES SHALL ALSO BE INSTALLED ADJACENT TO ALL SIDES OF RECESSED LIGHT FIXTURES NOT SUPPORTED BY A MAIN RUNNER.

20. ALL SUSPENDED CEILINGS SHALL BE BRACED TO RESIST LATERAL AND HORIZONTAL MOVEMENT AS REQUIRED BY THE GOVERNING CODES. THE OWNER'S G.C. SHALL VERIFY ALL APPLICABLE CODES AND CONFORM.

21. CUT PANELS TO MATCH FIELD PATTERN RECESS. ANY ACOUSTICAL CEILING PANELS LESS THAN FULL SIZE SHALL HAVE CUT EDGES TRIMMED TO MATCH FACTORY REGULAR EDGES. SUSPENDED CEILING SHALL HAVE INTERSECT ALL VERTICAL WALLS AT 90 DEGREES UNLESS OTHERWISE NOTED.

22. UPON COMPLETION OF WORK FOLLOWING INSTALLATIONS OF SUSPENSION SYSTEMS, DIRTY OR DISCOLORED SURFACES OF SUSPENSION COMPONENTS SHALL BE CLEANED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LEFT FREE FROM DEFECTS. COMPONENTS THAT ARE DAMAGED OR IMPROPERLY INSTALLED SHALL BE REMOVED AND REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

23. LEAVE FOUR FULL, UNDAMAGED PANELS AT JOB SITE.

TILE

1. TILES MUST BE STORED ON A PERFECTLY FLAT AND HORIZONTAL SURFACE FOR AT LEAST 48 HOURS PRIOR TO INSTALLATION IN THE AREA IN WHICH THEY WILL BE INSTALLED.

2. IT IS CRITICAL THAT ALL FLOORS AND SURFACES ARE LEVEL, SMOOTH, EVEN, DRY, AND FREE FROM ALL DIRT. FLOOR MUST BE SOUND AND PROPERLY PREPARED FOR INSTALLATION. IF SLIGHT LEVELING OF SURFACE IS REQUIRED, USE THE SAME MATERIALS AS SPECIFIED BY TILE MFR. ROOM TEMPERATURE MUST BE BETWEEN 50 AND 90 F.

3. LAYOUT JOB TO ENSURE PROPER PATTERN AND EXACT SPACING BETWEEN TILES.

4. ONLY USE RECOMMENDED SETTING MATERIALS. IT IS STRONGLY RECOMMENDED TO USE HYDRAULIC SETTINGS MATERIALS DUE TO LARGE FORMAT SIZE. READ AND FOLLOW THE ADHESIVE MANUFACTURERS INSTRUCTIONS.

5. WITH THE NOTCHED EDGE OF THE TROWEL (MAX. 3/8" V-NOTCH) SPREAD MORTAR EVENLY ON TO FLOOR. USING STRAIGHT EDGE TROWEL, UNIFORMLY BACK-BUTTER ENTIRE BACK OF TILE. DO NOT ATTEMPT TO COVER TOO LARGE OF AN AREA TO AVOID 'SKINNING' OF SETTING MATERIAL. WITH A RUBBER TILLERS MALLET, TAP TILE TO IMBED AND LEVEL. ENSURE GOOD ADHESION TO SETTING MATERIAL. IN BUTT-JOINTED INSTALLATIONS, MAKE SURE THAT THERE IS NO SETTING MATERIALS BETWEEN TILES. USE APPROPRIATE SPACERS FOR INSTALLATIONS WITH JOINTS. ALLOW SETTINGS MATERIALS TO CURE FOR 24 HOURS BEFORE GROUTING.

CONODETE OTAINING

HANDLING, AND APPLICATION.

CONCRETE STAINING

1. APPLY STAIN AND SEALER AT AREAS DESIGNATED FOR COLORED CONCRETE.FURNISH AND APPLY CONCRETE

STAINING AS INDICATED ON THE DRAWINGS AND AS SPECIFIED.

2. PRODUCT DATA: MANUFACTURER'S CATALOG DATA SHALL BE SUBMITTED FOR THE STAIN MATERIAL.

MANUFACTURER'S INSTRUCTIONS SHALL BE SUBMITTED FOR THE STAIN, INCLUDING DETAILS OF THINNING, MIXING.

3. ACRYLIC CONCRETE SEALER, WATER-BASED FORMULATION, INSTALL PER MANUFACTURER'S WRITTEN

4. SAMPLES: THE MANUFACTURER'S COLOR CHARTS SHALL BE SUBMITTED SHOWING MANUFACTURER'S COLOR, MATCHING THE ARCHITECT'S SAMPLE.

5. MATERIALS SHALL BE DELIVERED IN THEIR ORIGINAL, UNBROKEN CONTAINERS BEARING THE MANUFACTURER'S NAME AND PRODUCT IDENTIFICATION. CONTAINERS BREACHED BY ROUGH HANDLING SHALL BE REMOVED FROM THE SITE, TOGETHER WITH THEIR CONTENTS.

6. PRODUCTS:

a. CONCRETE STAIN: SUBJECT TO APPROVAL OF THE COLOR SAMPLE, AND COMPLIANCE WITH OTHER SPECIFIED REQUIREMENTS, THE CONCRETE STAIN SHALL BE LITHOCHROME CHEMSTAIN CLASSIC BY L. M. SCOFIELD, OR EQUAL. COLOR AS SELECTED BY THE ARCHITECT.

b. PROVIDE SEALER L.M. SCOFIELD COLORWAX ON EXTERIOR SURFACES AND COLORCURE ON INTERIOR

7. THE MANUFACTURER'S RECOMMENDATIONS FOR SURFACE PREPARATION, AND APPLYING THE STAIN PRODUCT

SHALL BE CONSIDERED A PART OF THIS SPECIFICATION.

8. APPLY CONCRETE SEALER ON STAINED CONCRETE.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF STAIN FROM ADJACENT SURFACES. CONTRACTOR SHALL LEAVE THE WORK AREA CLEAN AND FREE FROM RUBBISH AND ACCUMULATED MATERIAL LEFT FROM HIS WORK.

ARCHITECTURAL GROUP INTERNATIONAL

15 West Seventh Street, Covington, KY 41011

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to **go**.

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

Mark
Issued 10/23/2017 MST
ISSUED FOR BID/PERMIT





SUMMI

LEE'S SUMMIT, MO

190727

10/23/2019

DATE ISSUED

FIBERGLASS REINFORCED PLASTIC PANELS

1. PROVIDE PANELS, TRIM, SEALANT, AND ACCESSORIES AS INDICATED AND AS RECOMMENDED BY MANUFACTURER.

2. STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.

3. STORE AND DISPOSE OF SOLVENT-BASED MATERIALS, AND MATERIALS USED WITH SOLVENT-BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

4. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.

5. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.

6. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

7. TAKE PANELS OUT OF CARTONS AND ALLOW TO ACCLIMATIZE TO ROOM CONDITIONS FOR AT LEAST 48 HOURS PRIOR

8. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST

RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS. 9. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.

10. PROTECT EXISTING SURFACES FROM DAMAGE DUE TO INSTALLATION.

11. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

12. USE THE ADHESIVES RECOMMENDED BY THE PANEL MANUFACTURER UNLESS PROHIBITED BY LOCAL REGULATIONS; OBTAIN MANUFACTURER'S APPROVAL OF ALTERNATIVE ADHESIVES.

13. INSTALL CONTINUOUS BEAD OF SILICONE SEALANT IN EACH JOINT AND TRIM GROOVE AND BETWEEN TRIM AND ADJACENT CONSTRUCTION, MAINTAINING 1/8 INCH (3 MM) EXPANSION SPACE.

14. AVOID CONTAMINATION OF PANEL FACES WITH ADHESIVES, SOLVENTS, OR CLEANERS; CLEAN AS NECESSARY AND REPLACE IF NOT POSSIBLE TO REPAIR TO ORIGINAL CONDITION.

15. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.

16. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS AFTER SUBSTANTIAL COMPLETION.

RESILIENT FLOORING

1. MAINTAIN MINIMUM TEMPERATURE OF 65 DEGREES F (18 DEGREES C) IN SPACES TO RECEIVE RESILIENT FLOORING FOR AT LEAST 48 HOURS PRIOR TO INSTALLATION, DURING INSTALLATION, AND FOR NOT LESS THAN 48 HOURS AFTER INSTALLATION. STORE RESILIENT FLOORING MATERIALS IN SPACES WHERE THEY WILL BE INSTALLED FOR AT LEAST 48 HOURS BEFORE BEGINNING INSTALLATION. SUBSEQUENTLY, MAINTAIN MINIMUM TEMPERATURE OF 55 DEGREES F (13 DEGREES C) IN AREAS WHERE WORK IS COMPLETED.

2. INSTALL RESILIENT FLOORING AND ACCESSORIES AFTER OTHER FINISHING OPERATION, INCLUDING PAINTING, HAVE BEEN COMPLETED. DO NOT INSTALL RESILIENT FLOORING OVER CONCRETE SLABS UNTIL THE LATTER HAVE BEEN CURED AND ARE SUFFICIENTLY DRY TO ACHIEVE BOND WITH ADHESIVE AS DETERMINED BY RESILIENT FLOORING MANUFACTURER'S RECOMMENDED BOND AND MOISTURE TEST.

3. ADHESIVES (CEMENTS): WATERPROOF, STABILIZED TYPE AS RECOMMENDED BY FLOORING MANUFACTURER TO SUIT MATERIAL AND SUBSTRATE CONDITIONS.

4. CONCRETE SLAB PRIMER: NON-STAINING TYPE AS RECOMMENDED BY FLOORING MANUFACTURER.

5. LEVELING AND PATCHING COMPOUNDS: LATEX TYPE AS RECOMMENDED BY FLOORING MANUFACTURER.

6. REQUIRE INSTALLER TO INSPECT SUBFLOOR SURFACES TO DETERMINE THAT THEY ARE SATISFACTORY. A SATISFACTORY SUBFLOOR SURFACE IS DEFINED AS ONE THAT IS SMOOTH AND FREE FROM CRACKS, HOLES, RIDGES, COATINGS PREVENTING ADHESIVE BOND, AND OTHER DEFECTS IMPAIRING PERFORMANCE OR APPEARANCE.

7. DO NOT ALLOW RESILIENT FLOORING WORK TO PROCEED UNTIL SUBFLOOR SURFACES ARE SATISFACTORY.

8. PREPARE SUBFLOOR SURFACES AS FOLLOWS AND AS RECOMMENDED BY FLOORING MANUFACTURER:

a. USE LEVELING AND PATCHING COMPOUNDS AS RECOMMENDED BY RESILIENT FLOORING MANUFACTURER FOR FILLING SMALL CRACKS, HOLES AND DEPRESSIONS IN SUBFLOORS.

b. REMOVE COATINGS FROM SUBFLOOR SURFACES THAT WOULD PREVENT ADHESIVE BOND, INCLUDING CURING COMPOUNDS INCOMPATIBLE WITH RESILIENT FLOORING ADHESIVES, PAINT, OILS, WAXES AND

9. BROOM CLEAN OR VACUUM SURFACES TO BE COVERED, AND INSPECT SUBFLOOR.

10. APPLY CONCRETE SLAB PRIMER, IF RECOMMENDED BY FLOORING MANUFACTURER, PRIOR TO APPLICATION OF ADHESIVE. APPLY IN COMPLIANCE WITH MANUFACTURER'S DIRECTIONS.

11. INSTALL RESILIENT FLOORING USING METHOD INDICATED IN STRICT COMPLIANCE WITH MANUFACTURER'S PRINTED

12. SCRIBE, CUT, AND FIT RESILIENT FLOORING TO PERMANENT FIXTURES, BUILT-IN FURNITURE AND CABINETS, PIPES, OUTLETS AND PERMANENT COLUMNS, WALLS AND PARTITIONS.

13. TIGHTLY CEMENT RESILIENT FLOORING TO SUBBASE WITHOUT OPEN CRACKS, VOIDS, RAISING AND PUCKERING AT JOINTS, TELEGRAPHING OF ADHESIVE SPREADER MARKS, OR OTHER SURFACE IMPERFECTIONS, HAND ROLL RESILIENT FLOORING AT PERIMETER OF EACH COVERED AREA TO ASSURE ADHESION.

14. LAY TILE FROM CENTER MARKS ESTABLISHED WITH PRINCIPAL WALLS, DISCOUNTING MINOR OFFSETS, SO THAT TILE AT OPPOSITE EDGES OF ROOM ARE OF EQUAL WIDTH. ADJUST AS NECESSARY TO AVOID USE OF CUT WIDTHS LESS THAN 1/2 TILE AT ROOM PERIMETERS. LAY TILE SQUARE TO ROOM AXIS, UNLESS OTHERWISE SHOWN.

15. MATCH TILES FOR COLOR AND PATTERN BY USING TILE FROM CARTONS IN SAME SEQUENCE AS MANUFACTURED AND PACKAGED. CUT TILE NEATLY AROUND ALL FIXTURES. BROKEN, CRACKED, CHIPPED OR DEFORMED TILE ARE NOT ACCEPTABLE.

16. PLANK SIMULATED WOOD FLOORING. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

17. ADHERE TILE FLOORING TO SUBSTRATES USING FULL SPREAD OF ADHESIVE APPLIED IN COMPLIANCE WITH FLOORING MANUFACTURER'S DIRECTIONS.

18. LAY SHEET FLOORING TO PROVIDE AS FEW SEAMS AS POSSIBLE WITH ECONOMICAL USE OF MATERIALS. MATCH EDGES FOR COLOR SHADING AND PATTERN AT SEAMS IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.

19. ADHERE SHEET FLOORING TO SUBSTRATES USING METHOD APPROVED BY FLOORING MANUFACTURER FOR TYPE OF SHEET FLOORING AND SUBSTRATE CONDITION INDICATED.

a. USE CONVENTIONAL FULL SPREAD ADHESIVE METHOD.

b. USE CONVENTIONAL PERIMETER BONDING ADHESIVE PROCEDURES WHERE RECOMMENDED BY FLOORING MANUFACTURER.

20. PREPARE SEAMS IN VINYL SHEET FLOORING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOREMOST INCONSPICUOUS APPEARANCE, SEALING CONTINUOUSLY WITH FLUID-APPLIED SEALANT OR ADHESIVE AS STANDARD WITH MANUFACTURER.

21. APPLY WALL BASE TO WALLS, COLUMNS, PILASTERS, CASEWORK AND OTHER PERMANENT FIXTURES IN ROOMS OR AREAS WHERE BASE IS REQUIRED. INSTALL BASE IN LENGTHS AS LONG AS PRACTICABLE, WITH PRE-FORMED CORNER UNITS. TIGHTLY BOND BASE TO SUBSTRATE THROUGHOUT LENGTH OF EACH PIECE, WITH CONTINUOUS CONTACT AT HORIZONTAL AND VERTICAL SURFACES.

a. ON MASONRY SURFACES, OR OTHER SIMILAR IRREGULAR SUBSTRATES, FILL VOIDS ALONG TOP EDGE OF RESILIENT WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE FILLER

22. PLACE RESILIENT EDGE STRIPS TIGHTLY BUTTED TO FLOORING AND SECURE WITH ADHESIVE. INSTALL EDGING STRIPS AT EDGES OF FLOORING WHICH WOULD OTHERWISE BE EXPOSED.

23. PERFORM THE FOLLOWING OPERATIONS IMMEDIATELY UPON COMPLETION OF RESILIENT FLOORING:

a. SWEEP OR VACUUM FLOOR THOROUGHLY.

b. DO NOT WASH FLOOR UNTIL TIME PERIOD RECOMMENDED BY RESILIENT FLOORING MANUFACTURER HAS ELAPSED TO ALLOW RESILIENT FLOORING TO BECOME WELL-SEALED IN ADHESIVE.

c. DAMP-MOP FLOOR BEING CAREFUL TO REMOVE BLACK MARKS AND EXCESSIVE SOIL.

d. REMOVE ANY EXCESS ADHESIVE OR OTHER SURFACE BLEMISHES, USING APPROPRIATE CLEANER RECOMMENDED BY RESILIENT FLOORING MANUFACTURERS.

24. PROTECT FLOORING AGAINST DAMAGE DURING CONSTRUCTION PERIOD TO COMPLY WITH RESILIENT FLOORING MANUFACTURER'S DIRECTIONS.

25. DELIVER STOCK OF MAINTENANCE MATERIALS TO STORE. FURNISH MAINTENANCE MATERIALS FROM SAME MANUFACTURER LOT AS MATERIALS INSTALLED AND ENCLOSED IN PROTECTIVE PACKAGING WITH APPROPRIATE

a. TILE FLOORING: FURNISH NOT LESS THAN ONE BOX FOR EACH 50 BOXES OR FRACTION THEREOF, FOR EACH TYPE, COLOR, PATTERN AND SIZE INSTALLED.

1. PROVIDE CARPET TILE AND FLOOR PREPARATION.

2. SUBMITTALS:

a. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

3. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS.

PRODUCTS

a. MANUFACTURERS: SEE FINISH SCHEDULE AND FINISH SPECIFICATIONS IN DRAWINGS.

b. MATERIAL: HIGH-PERFORMANCE NYLON BONDED TO RESILIENT BACKING.

c. INSTALLATION METHOD: GLUE-DOWN.

d. AUXILIARY MATERIALS: EDGE GUARDS, ADHESIVES/CEMENTS/FASTENERS, LEVELING COMPOUND

a. COMPLY WITH RECOMMENDATIONS OF CARPET AND RUG INSTITUTE "SPECIFIER'S HANDBOOK".

APPROVED SUBMITTALS. CLEAN, PATCH, AND LEVEL SUBSTRATE. INSTALL MATERIALS IN PROPER RELATION WITH

c. INSTALL EDGE GUARDS AND REDUCER STRIPS AS REQUIRED; CLEAN AND PROTECT.

1. COORDINATION: COORDINATE ACCESSORY LOCATIONS, INSTALLATION, AND SEQUENCING WITH OTHER WORK TO

2. CONFIRM EXISTENCE OF NECESSARY CONCEALED BLOCKING FOR SUPPORT FOR ACCESSORIES BEFORE PROCEEDING WITH INSTALLATION.

3. INSTALL TOILET ACCESSORY UNITS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS, USING FASTENERS FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED OR AS REQUIRED PER ADA COMPLIANCE.

4. SECURE MIRRORS TO WALLS IN CONCEALED, TAMPERPROOF MANNER WITH SPECIAL HANGERS, TOGGLE BOLTS, OR INSTRUCTIONS FOR TYPE OF SUBSTRATE INVOLVED.

5. ADJUST TOILET ACCESSORIES FOR PROPER OPERATION AND VERIFY THAT MECHANISMS FUNCTION SMOOTHLY. REPLACE DAMAGED OR DEFECTIVE ITEMS.

6. CLEAN AND POLISH ALL EXPOSED SURFACES IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AFTER REMOVING TEMPORARY LABELS AND PROTECTIVE COATINGS.

7. THIN BRICK, AS MANUFACTURED BY GLEN GERY (OR EQUAL). INSTALL AND CLEAN PER MANUFACTURER'S WRITTEN

b. SAMPLES: SUBMIT TWO REPRESENTATIVE SAMPLES OF EACH MATERIAL SPECIFIED INDICATING VISUAL CHARACTERISTICS AND FINISH. INCLUDE RANGE SAMPLES IF VARIATION OF FINISH IS ANTICIPATED.

c. EXTRA STOCK: SUBMIT EXTRA STOCK EQUAL TO 2% OF TOTAL USED.

DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

4. PERFORMANCE: FIRE PERFORMANCE MEETING REQUIREMENTS OF BUILDING CODE AND LOCAL AUTHORITIES.

b. PREPARE SURFACES AND INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE. COORDINATE WITH WORK OF OTHER SECTIONS.

DIVISION 10 - SPECIALTIES

AVOID INTERFERENCE AND TO ASSURE PROPER INSTALLATION, OPERATION, ADJUSTMENT, CLEANING AND SERVICING

APPROPRIATE TO SUBSTRATE AND RECOMMENDED BY MANUFACTURER OF UNIT. INSTALL UNITS PLUMB AND LEVEL,

SCREWS. SET UNITS PLUMB, LEVEL AND SQUARE AT LOCATIONS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S

INSTRUCTIONS, USING TYPE 'N' MORTAR.

CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

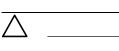


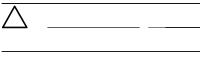


This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically indentified herein and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistency or ommission he may

ns:			
	Date	Ву	,

Issued <u>10/23/2017 MST</u> ISSUED FOR BID/PERMIT









LEE'S SUMMIT, MO

190727

DATE ISSUED 10/23/2019

	PLUMBING LEGEND						
——s—	SANITARY WASTE PIPING						
v	SANITARY VENT PIPING						
GW	GREASE WASTE PIPING						
	PIPE UP						
	PIPE DOWN						
	PIPE TEE DOWN						
—ю—	PIPE TEE UP						
_	PIPE CONTINUATION						
O <u>vtr</u>	VENT THROUGH ROOF						
<u> ₩CO</u> o <u>CO</u>	CO-CLEANOUT, FCO-FLOOR CLEANOUT, GCO-GRADE CLEANOUT, WCO-WALL CLEANOUT						
● <u>FD</u>	FLOOR DRAIN						
⊠ FS	FLOOR SINK						
⊗ <u>HD</u>	HUB DRAIN						
TD	TRENCH DRAIN						

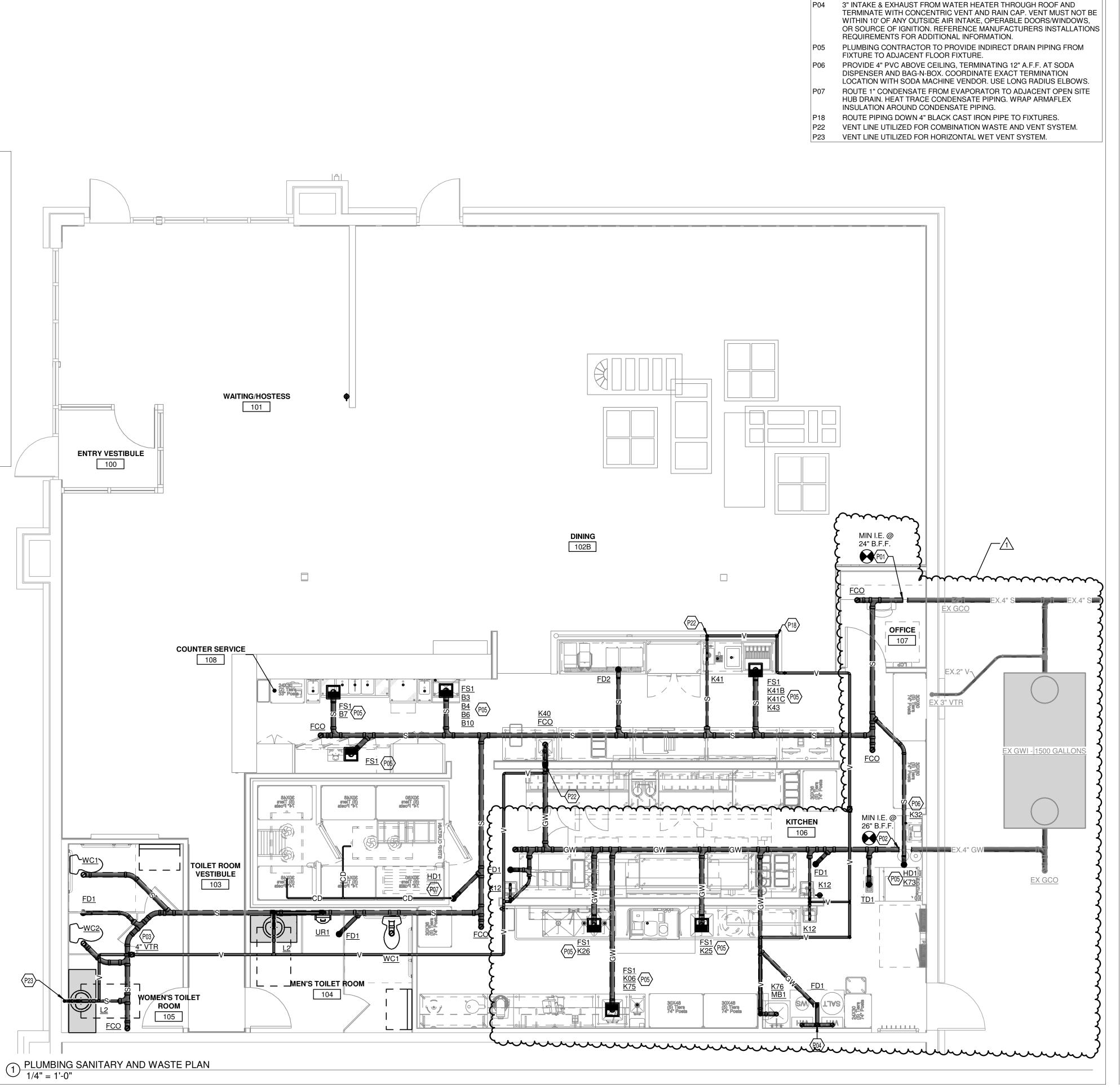
PLUMBING GENERAL NOTES

- PLUMBING CONTRACTOR SHALL CONNECT NEW SANITARY SEWER TO EXISTING SANITARY SEWER. VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR AND CIVIL ENGINEER PRIOR TO STARTING WORK.
- PLUMBING CONTRACTOR SHALL COORDINATE NEW DOMESTIC COLD WATER SERVICE FROM EXISTING WATER METER BOX. VERIFY EXACT LOCATION AND SIZE WITH GENERAL CONTRACTOR AND CIVIL ENGINEER PRIOR TO STARTING WORK.
- PLUMBING CONTRACTOR SHALL FURNISH GENERAL CONTRACTOR FOR INSTALLATION, ALL REQUIRED PIPE SLEEVES PASSING THOUGH WALLS FLOORS OR ROOFS.
- PLUMBING CONTRACTOR SHALL INSTALL ALL HANDICAP WATER CLOSET FLUSH LEVERS A MIN. OF 18" FROM CENTER OF FIXTURE TO INSIDE EDGE OF A WALL OR ANY OTHER DEVICES.
- PIPING LAYOUT IS SCHEMATIC EXACT LOCATION OF PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW INSTALLATION OF ANY AND ALL OTHER TRADES.
- UNLESS NOTED OTHERWISE ALL PIPING SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHENS AT EACH PENETRATION OF A FINISHED SURFACE.
- PLUMBING UTILITIES SHALL NOT BE RUN ABOVE ANY ELECTRICAL GEAR OR SERVICE SPACE REQUIRED BY NATIONAL ELECTRICAL
- ALL INVERT ELEVATIONS OF EXISTING AND NEW PIPING SHALL BE COORDINATED IN THE FIELD. VERIFY EXISTING INVERT ELEVATIONS OF EXISTING WASTE PIPING PRIOR TO START OF WORK.
- ALL FIXTURES SHALL BE PROVIDED WITH SHUT-OFF STOP VALVES IN AN ACCESSIBLE LOCATION. PIPING BEYOND STOP VALVES AND EXPOSED IN OCCUPIED SPACES SHALL BE CHROME-PLATED. ANY NOTED SHUT-OFF VALVES ARE IN ADDITION TO THIS REQUIREMENT.
- PROVIDE ISOLATION SEPARATORS FOR COPPER PIPING RUNNING THROUGH METAL STUDS.
- ALL WORK BY LANDLORD'S APPROVED ROOFING CONTRACTOR AT PLUMBING CONTRACTOR'S EXPENSE.
- THE AIR GAP DISTANCE BETWEEN THE INDIRECT WASTE PIPING AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE NOT LESS THAN TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

GREASE INTERCEPTOR CALCULATION - GRAVITY							
PIPE SIZE (IN.)	FLOW (GPM)	RETENTION TIME (MINS)	REQUIRED CAPACITY (GALLONS)	PROVIDED CAPACITY (GALLONS)			
4	37.8	30	1134	1500			
SIZED PER THE INTERNATIONAL PLUMBING CODE SECTION 1003.3.6 AND ASPE VOLUME 2 TABLE 1-5 APPROXIMATE DISCHARGE RATES AND VELOCITIES IN SLOPING DRAINS.							
EXISTING INT	EXISTING INTERCEPTOR(S) PROVIDED BY LANDLORD TO REMAIN. FIELD VERIFY EXACT LOCATION, SIZE AND CONDITION.						

REPAIR/REPLACE AS REQUIRED.

KITCHEN FIX	KTURE AND EQUIPMENT LEGEND
FIXTURE/EQUIPMENT #	FIXTURE/EQUIPMENT DESCRIPTION
<u>K06</u>	S/S PREP SINK WITH OPEN BASE
<u>K12</u>	S/S HAND SINK WITH SIDE SPLASHES
<u>K13</u>	WALK-IN COOLER
<u>K15</u>	WALK-IN FREEZER
<u>K25</u>	S/S SOILED DISHTABLE WITH SINK
<u>K26</u>	LOW TEMPERATURE DISH MACHINE
<u>K28</u>	S/S CLEAN DISHTABLE WITH 3-COMPARTMENT SINK
<u>K32</u>	BAG-IN-BOX SODA SYSTEM
<u>K34</u>	HOT CHOCOLATE MACHINE
<u>K35</u>	DECAF COFFEE BREWER
<u>K36</u>	COFFEE BREWER
<u>K39</u>	ICED TEA BREWER
<u>K40</u>	S/S BUSSER TABLE WITH HAND SINK
<u>K41</u>	S/S SODA COUNTER WITH HAND SINK AND SIDE SPLASH
<u>K41B</u>	ICE CHEST W/COLD PLATE, DROP IN
<u>K41C</u>	FAUCET, GLASS FILLER
<u>K43</u>	DROP-IN SODA DISPENSER WITH ICE BIN
<u>K73</u>	ICE MACHINE WITH BIN
<u>K75</u>	WORK TABLE W/HAND SINK
<u>K76</u>	MOP SINK
<u>B3</u>	BAR DRAIN TRAY
<u>B4</u>	UNDERBAR ICE CHEST
<u>B6</u>	UNDERBAR GLASS RACK
<u>B7</u>	UNDERBAR DUMP SINK
<u>B8</u>	UNDERBAR SINK
<u>B10</u>	UNDERBAR HAND SINK



LANDLORD NOTE:

ROOFING CONTRACTOR.

www.www.www.

ALL ROOF PENETRATIONS ARE TO BE PERFORMED BY THE LANDLORD"S | P01

CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

KEYED NOTES

THIS APPROXIMATE AREA. COORDINATE EXACT SIZE, INVERT AND LOCATION OF SANITARY PIPE CONNECTION WITH LANDLORD PRIOR TO

CONNECT NEW GREASE TO EXISTING GREASE MAIN IN THIS

ELEVATION OF EXISTING GREASE PIPE IS HIGHER THAN LISTED

LISTED ELEVATION.

ELEVATION.

CONNECT NEW SANITARY SEWER TO EXISTING SANITARY SEWER MAIN IN

BEGINNING WORK. INVERT ELEVATION OF EXISTING SANITARY PIPE TO BE NO LESS THAN INDICATED ON PLAN. CONTACT ENGINEER OF RECORD IF INVERT ELEVATION OF EXISTING SANITARY PIPE IS HIGHER THAN

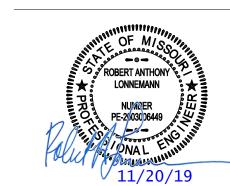
APPROXIMATE AREA. COORDINATE EXACT SIZE, INVERT AND LOCATION OF GREASE PIPE CONNECTION WITH LANDLORD PRIOR TO BEGINNING

WORK. INVERT ELEVATION OF EXISTING GREASE PIPE TO BE NO LESS THAN INDICATED ON PLAN. CONTACT ENGINEER OF RECORD IF INVERT

ROUTE VENT PIPING THROUGH ROOF. MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ANY OUTSIDE AIR INTAKE OF ANY ROOFTOP EQUIPMENT.

15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to **go**.



MECHANICAL/ELECTRICAL ENGINEERS WWW.KLHENGRS.COM 1538 ALEXANDRIA PIKE, SUITE

> 41075 800-354-9783 859-442-8050

859-442-8058 FAX LEXINGTON, KENTUCKY

COLUMBUS, OHIO NEW YORK, NEW YORK

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistancy or omission he may discover.

Revisions:

REV 1 - PERMIT & LL COMMENTS



FIRST WATCH LEE'S SUMMIT LEE'S SUMMIT, MO

10/14/2019

PLUMBING WASTE AND VENT PLAN

CONNECT NEW COLD WATER BRANCH TO COLD WATER MAIN. EXISTING WATER METER TO REMAIN. CONFIRM EXACT LOCATION.

EXISTING BACKFLOW PREVENTER TO REMAIN. FIELD VERIFY EXACT LOCATION. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER IN AN ACCESSIBLE

LOCATION (24"A.F.F.) ADJACENT TO CARBONATOR. PROVIDE FILTERED WATER TO EQUIPMENT AS REQUIRED. REFER TO DOMESTIC

WATER DIAGRAM ON DRAWING P104. EXISTING GAS METER TO REMAIN. CONNECT NEW GAS PIPING TO EXISTING GAS PIPE AS SHOWN. REFER TO GAS LOAD SCHEDULE FOR MORE INFORMATION. GAS PIPING DOWN TO GAS SOLENOID SHUT-OFF VALVE (INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM), PROVIDED BY PLUMBING CONTRACTOR, ON WALL BELOW CEILING. REFER TO FOOD SERVICE DRAWINGS FOR LOCATION OF GAS PIPING AND ACCESSIBLE SHUT OFF VALVE.

PROVIDE GAS COCK NIBCO "GB" SERIES, AT ELEVATION INDICATED ON FOOD SERVICE DRAWINGS. CONNECT GAS PIPING TO KITCHEN EQUIPMENT AS REQUIRED PER MANUFACTURER'S REQUIREMENTS AND AS DETAILED.

GAS PIPING TO BE INSTALLED BELOW ROOF. PIPING TO BE SUPPORTED BELOW ROOF WITH PIPE HANGERS. ALL GAS PIPING TO BE PAINTED TO RESIST RUST. MATCH COLOR OF VERTICAL GAS PIPE UP EXTERIOR WALL WITH EXTERIOR WALL

GAS PIPING DOWN TO WATER HEATERS. REFER TO WATER HEATER DETAIL 1 ON DRAWING P103 FOR PIPING ARRANGEMENTS.

ROUTE PIPING DOWN 4" BLACK CAST IRON PIPE TO FIXTURES. ROUTE SEPARATE SOFT WATER CONNECTION FOR CHEMICAL CONNECTION NEAR MOP SINK. COORDINATE EXACT REQUIREMENTS WITH FIRST WATCH

REPRESENTATIVE.

PROVIDE TAG LABELS ON ALL BALL VALVES ASSOCIATED WITH WATER HEATER PIPING TO NOTATE REGULAR POSITIONS OF ALL BALL VALVES (OPEN OR CLOSED).

PROVIDE TAG LABELS ON ALL BALL VALVES ASSOCIATED WITH WATER FILTER PIPING TO NOTATE REGULAR POSITIONS OF ALL BALL VALVES (OPEN OR CLOSED).

HOT WATER DEMAND **CALCULATIONS - TANKLESS** WATER HEATER SYSTEM WH'S CW TEMP (°F) HW TEMP (°F) TOTAL MAXIMUM DEMAND (GPH) TOTAL ADJUSTED DEMAND (GPH) TOTAL (BTU) CALCULATED 200,000 TOTAL (BTU) PROVIDED 398,000 SIZED BASED ON 2011 ASHRAE CHAPTER 50

RECIRCULATION TEMPERATURE DROP CALCULATIONS

7140	Brior Orizoderino
W	WATER HEATER SYSTEM
14	LEAVING WATER TEMPERATURE (°F)
7	AMBIENT AIR TEMPERATURE (°F)
	WATER FLOW RATE (GPM)
23	TOTAL LENGTH OF PIPING RUN (FT)
	AVERAGE PIPE DIAMETER (IN)
1-1,	INSULATION THICKNESS (IN)
FIBERGLAS	INSULATION MATERIAL
0.2	"k" VALUE BASED ON INSULATION TYPE
2	TOTAL CHANGE IN TEMP OVER TOTAL LENGTH (°F)
138	RETURN WATER TEMPERATURE (°F)

BEVERAGE DISPENSING EQUIPMENT BACKFLOW PREVENTER LOCATIONS

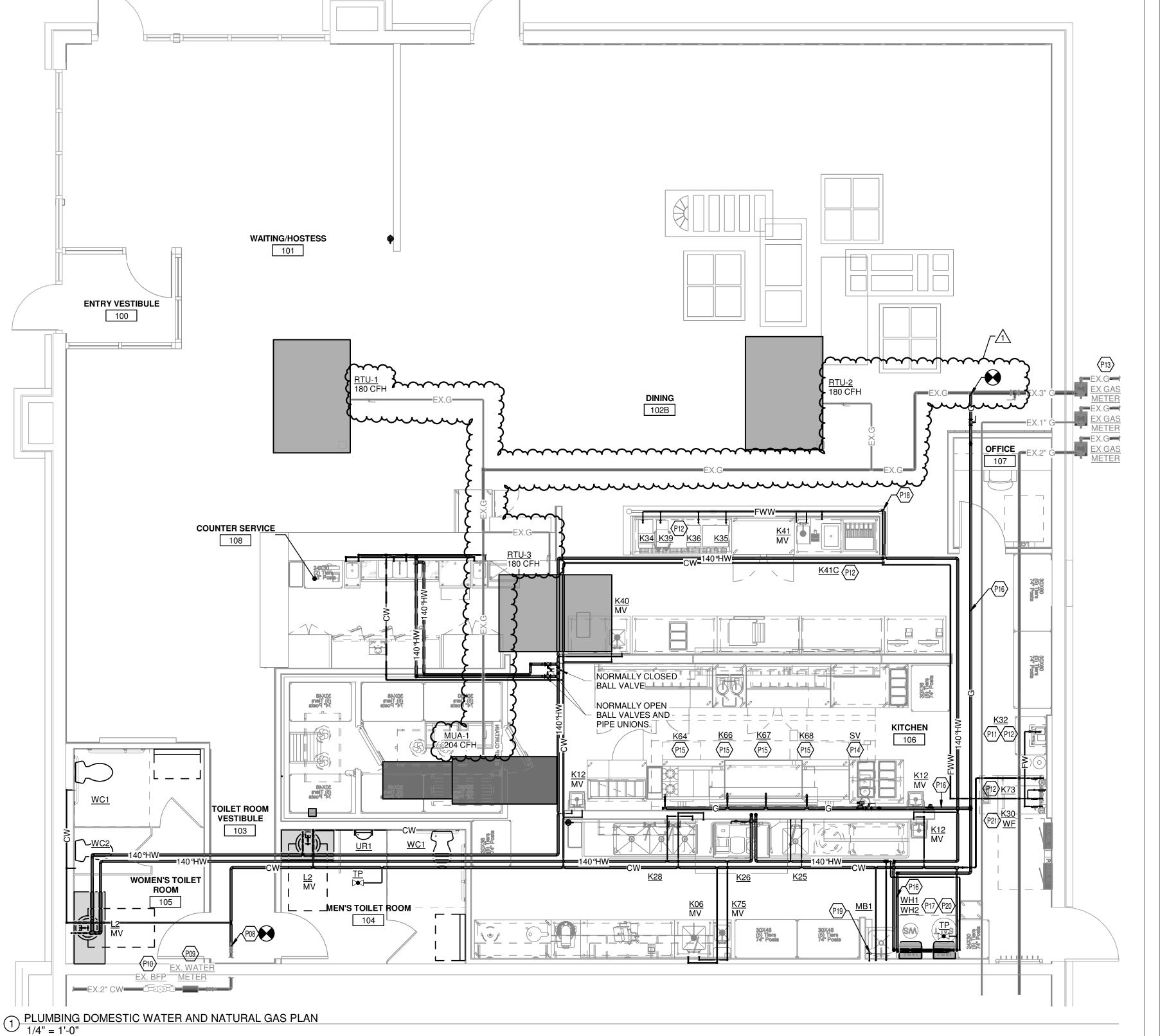
FIXTURE/EQUIPMENT #	FIXTURE/EQUIPMENT DESCRIPTION
<u>K32</u>	BAG-IN-BOX SODA SYSTEM
<u>K34</u>	HOT CHOCOLATE MACHINE
<u>K35</u>	DECAF COFFEE BREWER
<u>K36</u>	COFFEE BREWER
<u>K39</u>	TEA BREWER
<u>K41B</u>	ICE CHEST W/COLD PLATE, DROP IN
<u>K41C</u>	FAUCET, GLASS FILLER
<u>K73</u>	ICE MACHINE

DACKEI OW	PREVENTION	SCHEDIII E
DACKFLOW	PREVENTION	SCHEDULE

BACK LOW I REVENIENCE CONTENTS
RPZ (REDUCED PRESSURE ZONE ASSEMBLY) ASSE 1015 - WATTS LF007
CARBONATORS DOMESTIC WATER SUPPLY FIRE PROTECTION
DCVA (DOUBLE CHECK VALVE ASSEMBLY) ASSE 1022 - WATTS SD3
COFFEE, JUICE, HOT CHOCOLATE, TEA MACHINES WATER SOFTENER, WATER FILTER ICE MAKERS, CHEMICAL DISPENSERS AND DISHWASHER.
DCDA (DOUBLE CHECK DETECTOR VALVE) ASSE 1015 - WATTS LF007
FIRE PROTECTION IRRIGATION WITHOUT CHEMICALS
PVB (PRESSURE VACUUM BREAKER) ASSE 1020 - WATTS 800M 4QT
NOTE: LOW HAZARD (LIKE HAZARDS) MAY BE GROUPED TOGETHER AND

PROTECTED BY ONE BACKFLOW PRÉVENTER. EXAMPLE: A GROUP OF COFFEE MAKERS. NOTE: HIGH HAZARDS REQUIRE PROTECTION BY USING DEDICATED HIGH HAZARD BACKFLOW PREVENTER FOR EACH HAZARD.

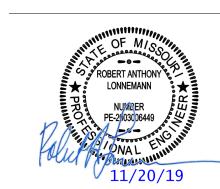
	PLUMBING LEGEND
cw	DOMESTIC COLD WATER PIPING
—140 HW —	DOMESTIC HOT WATER PIPING (140°F)
—140 HWR—	DOMESTIC HOT WATER RETURN PIPING (140°F)
—— FFW ——	DOUBLE FILTERED WATER PIPING
— FW —	FILTERED WATER PIPING
—SOFT—	SOFTENED WATER PIPING
——G——	NATURAL GAS PIPING
→ >>−	CONTROL VALVE , SHUT-OFF VALVE
<u></u>	CHECK VALVE
——⊗——	SOLENOID VALVE
TMV	THERMOSTATIC MIXING VALVE
	PRESSURE REGULATOR VALVE
	BACKFLOW PREVENTER
— >	TRAP PRIMER VALVE
———ю	PIPE UP
	PIPE DOWN
- 101	PIPE TEE DOWN
—	PIPE TEE UP
<u>~</u>	PIPE CONTINUATION
ß	CIRCULATION PUMP, RETURN PUMP



CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to go.



WWW.KLHENGRS.COM

1538 ALEXANDRIA PIKE, SUITE 11 FT. THOMAS, KENTUCKY 41075 800-354-9783 859-442-8050 859-442-8058 FAX LEXINGTON, KENTUCKY COLUMBUS, OHIO NEW YORK, NEW YORK

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistancy or omission he may discover.

REV 1 - PERMIT & LL COMMENTS



FIRST WATCH LEE'S SUMMIT

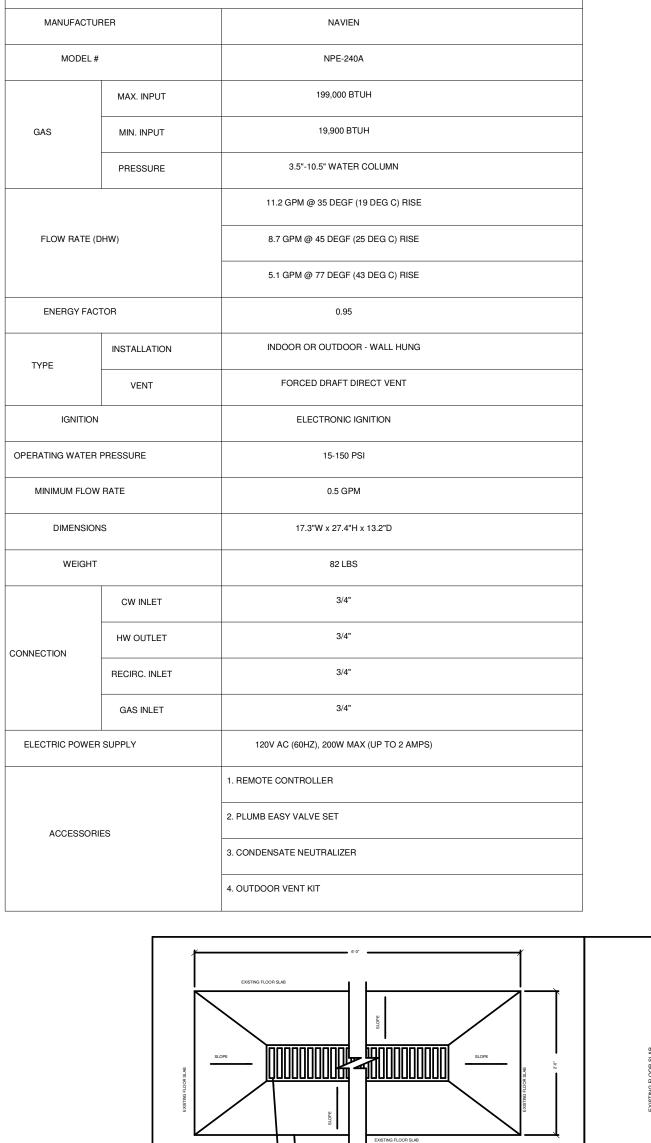
LEE'S SUMMIT, MO

10/14/2019

PLUMBING DOMESTIC WATER AND NATURAL GAS PLAN

						PLU	JMBING FIXTURE	SCHEDULE						
MARK	DESCRIPTION	LOCATION	STATUS	MANUFACTURER	MODEL	VALVE/FAUCET MFGR	VALVE/FAUCET MODEL	CW SIZE (in)	HW SIZE (in)	SAN SIZE (in)	VENT SIZE (in)	TRAP SIZE (in)	INT TRAP	ACCESSORIES
L2	LAVATORY	RESTROOM		-	SEE ARCH SHEETS	AMERICAN STANDARD	7385.046	1/2	1/2	1-1/2	1-1/2	1-1/2	NO	STOP VALVES, PROFLOW PF202WH P-TRAP AND SUPPLY COVERS. 155W MCGUIRE CP GRID STRAINERS AND THERMOSTATIC MIXING VALVE
MB1	MOP SINK	KITCHEN		FIAT	MSB2424	T&S BRASS	B-0665-BSTR	1/2	1/2	3	1-1/2	3	NO	
	THERMOSTATIC MIXING VALVE	REFER TO PLAN		LEONARD	LF107	-	-	3/8	3/8	-	-	-	NO	ASSE 1070 CERTIFIED
UR1	URINAL	RESTROOM		AMERICAN STANDARD	6561.017	AMERICAN STANDARD	6045.101.002	3/4	-	1-1/2	1-1/2	-	YES	TOP SPUD, 1.0 GPF, MANUAL PISTON-TYPE FLUSH VALVE.
WC1	WATER CLOSET	RESTROOM		AMERICAN STANDARD	2002.014	-	-	1/2	-	4	2	-	YES	BEMIS 1995C ELONGATED SEAT, STOP VALVES, PROVIDE FLUSH HANDLE ON ACCESSIBLE SIDE OF WATER CLOSET.
NC2	WATER CLOSET	RESTROOM		AMERICAN STANDARD	2018.214	-	-	1/2	-	4	2	-	YES	BEMIS 1995C ELONGATED SEAT, STOP VALVES, PROVIDE FLUSH HANDLE ON ACCESSIBLE SIDE OF WATER CLOSET.
WF	WATER FILTER	KITCHEN		EVERPURE	EV9328-06	-	-	3/4	-	-	-	-	NO	PROVIDED BY FIRST WATCH, INSTALLED BY PLUMBING CONTRACTOR.
VS	WATER FILTER	KITCHEN			MEDALIST SERIES	-	-	PER PLAN	-	-	-	-	NO	MEDALIST-12" SINGLE/WATER METER/DEMAND SYSTEM. PROVIDED BY FIRST WATCH, INSTALLED BY PLUMBING CONTRACTOR.

	PLUMBING DRAIN SCHEDULE														
MARK	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	TRAP PRIMER	TRAP SIZE (in)	SAN SIZE (in)	VENT SIZE (in)	ACCESSORIES/REMARKS						
FD1	FLOOR DRAIN	REFER TO PLAN	ZURN	ZB415-B	YES	3 OR 4	3 OR 4	1-1/2 OR 2	Z1000 DEEP SEAL TRAP. REFER TO RISER FOR SIZES.						
D2	FLOOR DRAIN	REFER TO PLAN	ZURN	ZB415-B	YES	3 OR 4	3 OR 4	1-1/2 OR 2	Z1000 DEEP SEAL TRAP. 4" FUNNEL						
S1	FLOOR SINK	KITCHEN	ZURN	FD2375-NH4	NO	4	4	2	WHITE DOME STRAINER AND HALF GRATE.						
ID1	HUB DRAIN	KITCHEN	-	-	NO	4	4	2	REFER TO DETAIL 4, THIS DRAWING.						
D1	TRENCH DRAIN	KITCHEN	ZURN	Z667	NO	4	4	2							



TOP FLANGE OF TRENCH DRAIN TO BE SET FLUSH WITH SURFACE OF EXISTING FLOOR SLAB. SLOPE NEW

SECTION VIEW

PLUMBING - FIRST WATCH TRENCH DRAIN DETAIL

SCALE: NONE

FLOOR SAW CUT AS REQUIRED

TOP OF FLOOR SINK.

PLAN VIEW

SECTION VIEW

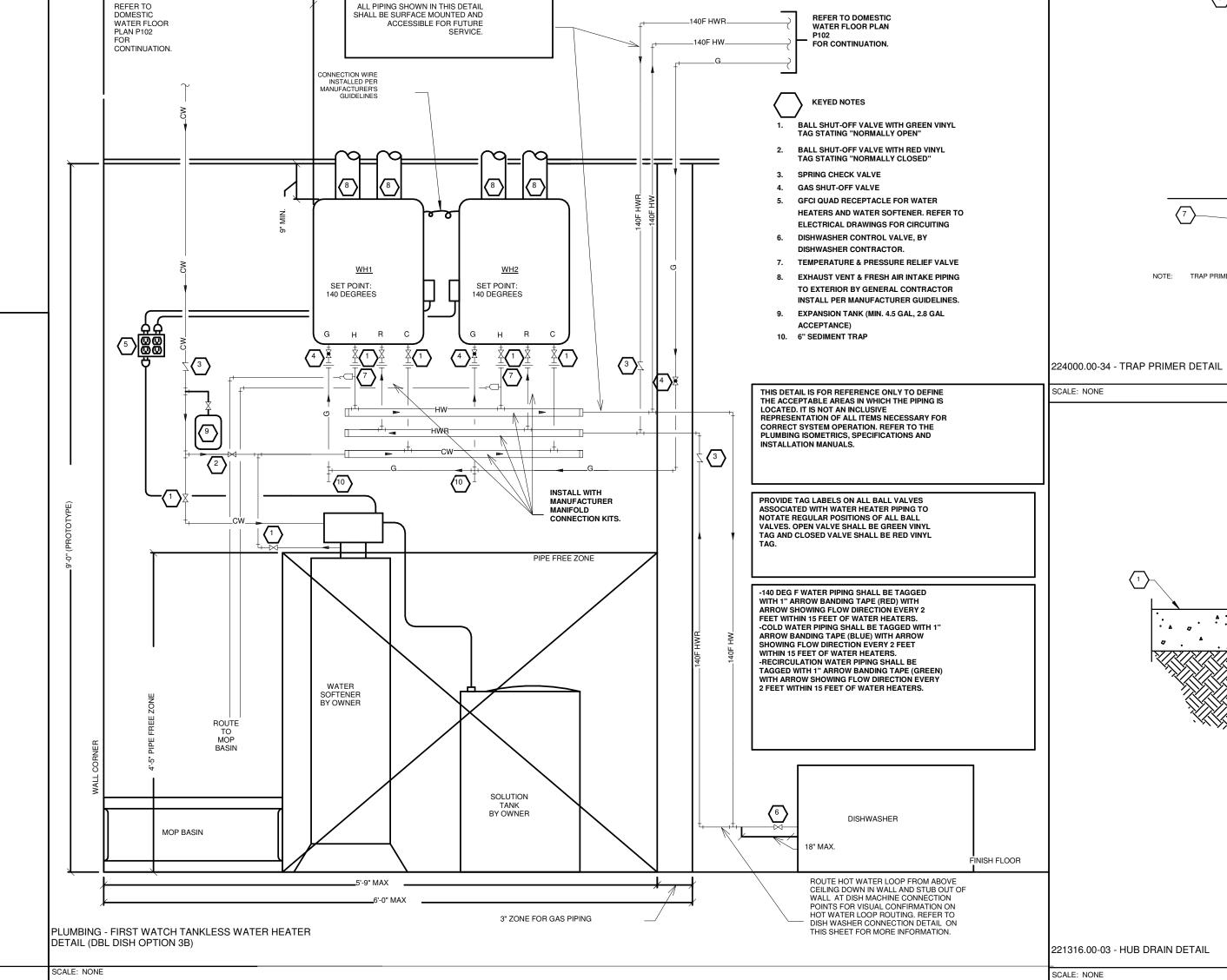
PLUMBING - FIRST WATCH FLOOR SINK DETAIL

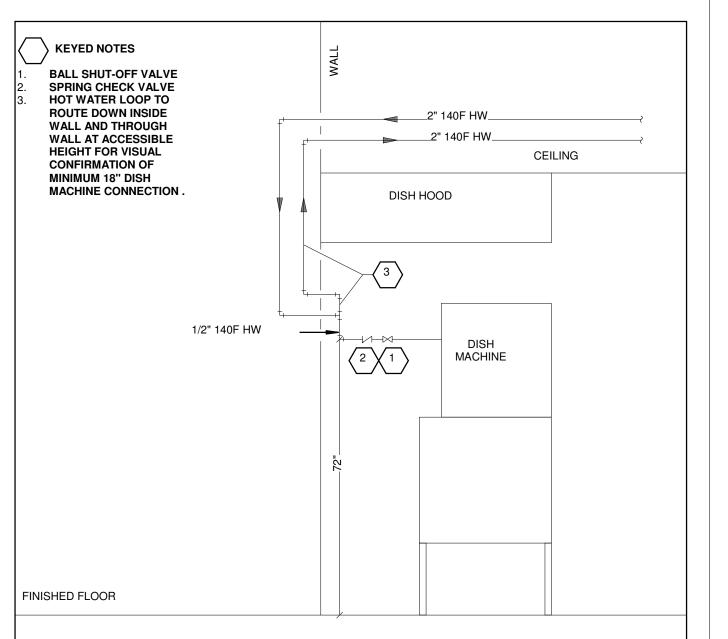
SCALE: NONE

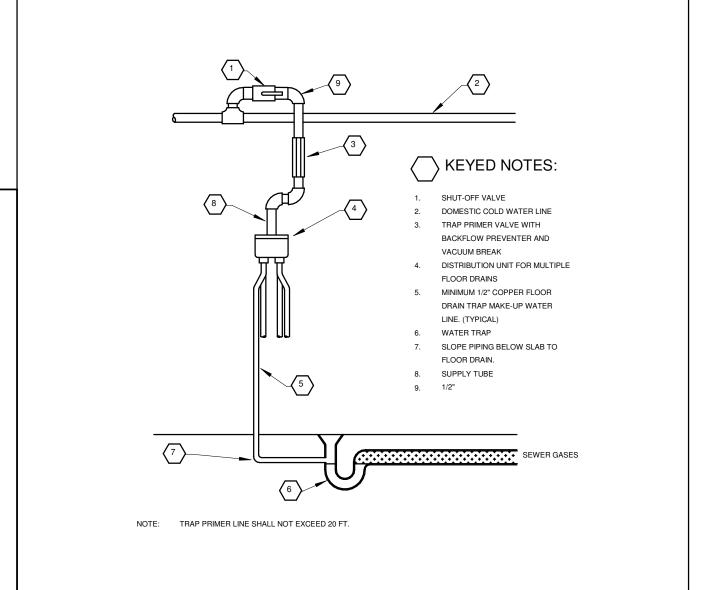
TOP FLANGE OF FLOOR SINK TO BE SET FLUSH WITH

SURFACE
OF EXISTING FLOOR SLAB. SLOPE NEW CONCRETE TO
FLOOR
SINK TO ALLOW NEW TILE FLOOR SURFACE TO SIT FLUSH

WATER HEATER SCHEDULE

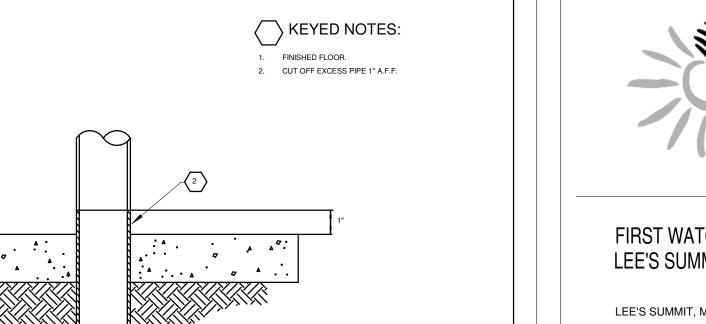






PLUMBING - FIRST WATCH DISH MACHINE CONNECTION DETAIL

SCALE: NONE



FIRST WATCH LEE'S SUMMIT

CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI 04/17/2020

15 West Seventh Street, Covington, KY 41011

P: 859.261.5400 F: 859.261.5530

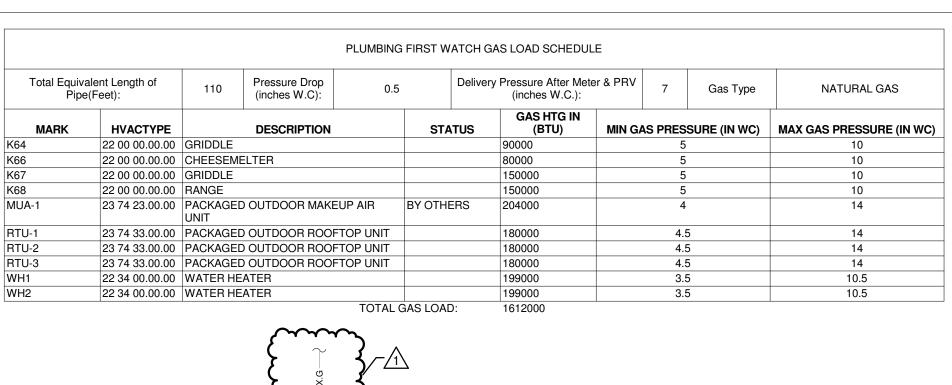
www.agi-us.com

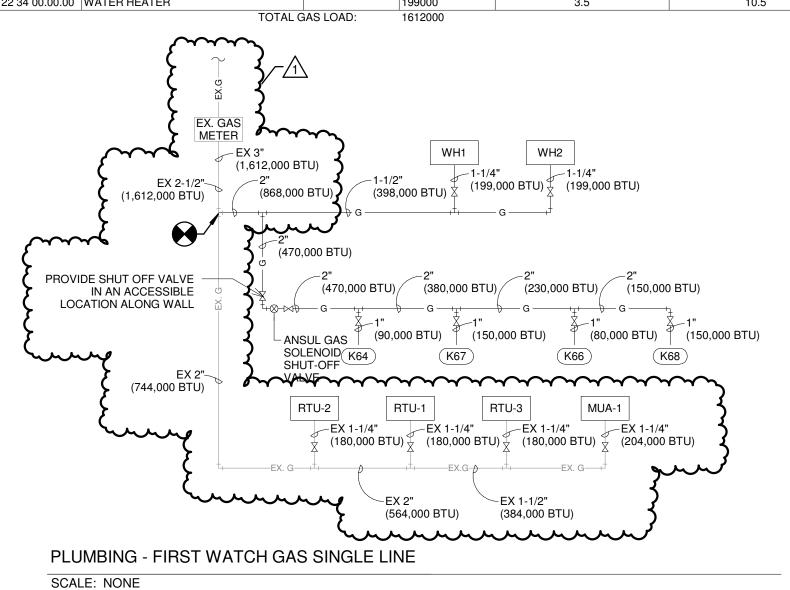
designing where you want to **go**.

WWW.KLHENGRS.COM

LEE'S SUMMIT, MO

PLUMBING DETAILS AND SCHEDULES

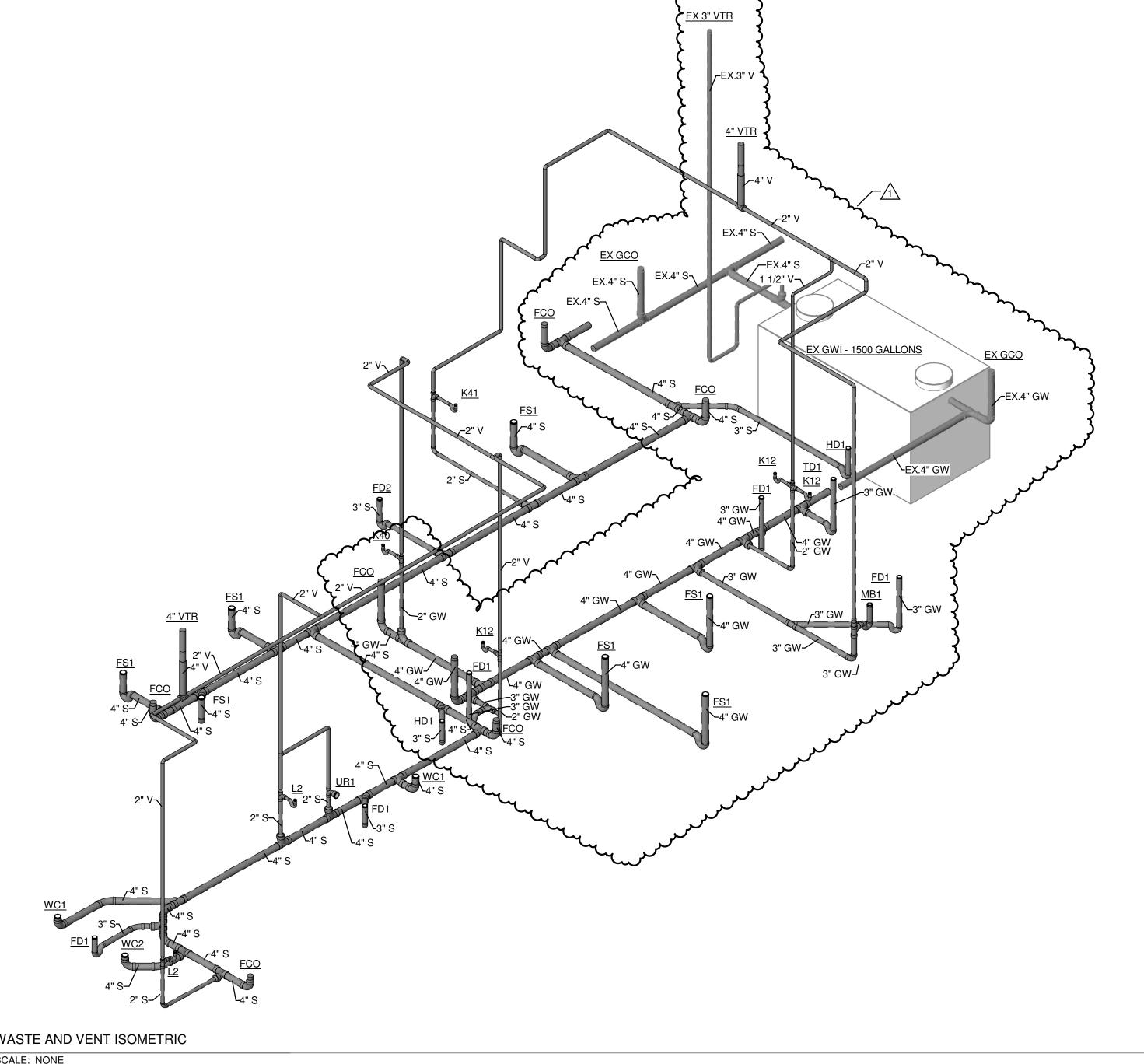




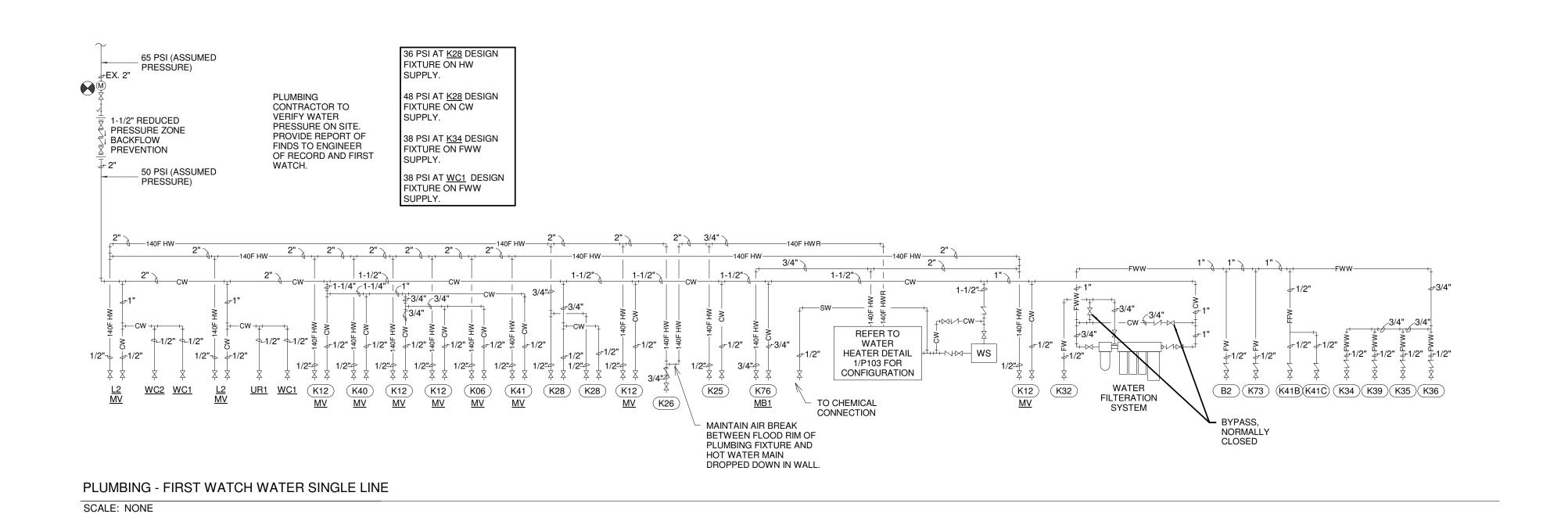
	DMESTIC WATER IPMENT SCHEDULE
FIXTURE/EQUIPMENT #	FIXTURE/EQUIPMENT DESCRIPTION
<u>K06</u>	S/S PREP SINK WITH OPEN BASE
<u>K12</u>	S/S HAND SINK WITH SIDE SPLASHES
<u>K13</u>	WALK-IN COOLER
<u>K17</u>	WALK-IN FREEZER
<u>K25</u>	S/S SOILED DISHTABLE WITH SINK
<u>K26</u>	LOW TEMPERATURE DISH MACHINE
<u>K28</u>	S/S CLEAN DISHTABLE WITH 3-COMPARTMENT SINK
<u>K32</u>	BAG-IN-BOX SODA SYSTEM
<u>K34</u>	HOT CHOCOLATE MACHINE
<u>K35</u>	DECAF COFFEE BREWER
<u>K36</u>	COFFEE BREWER
<u>K39</u>	ICED TEA BREWER
<u>K40</u>	S/S BUSSER TABLE WITH HAND SINK
<u>K41</u>	S/S SODA COUNTER W/ HAND SINK AND SIDE SPLASH
<u>K41B</u>	ICE CHEST W/COLD PLATE, DROP IN
<u>K41C</u>	FAUCET, GLASS FILLER
<u>K43</u>	DROP-IN SODA DISPENSER WITH ICE BIN
<u>K73</u>	ICE MACHINE WITH BIN
<u>K75</u>	WORK TABLE W/HAND SINK
<u>K76</u>	MOP SINK
<u>K79</u>	S/S TABLE WITH BUILT-IN HAND SINK
<u>K81</u>	MOP AREA CHEMICAL DISPENSERS
<u>K82</u>	POT/PAN CHEMICAL DISPENSERS
<u>K83</u>	SANITIZER CHEMICAL DISPENSERS
<u>K84</u>	DETERGENT CHEMICAL DISPENSERS
<u>K85</u>	RINSE CHEMICAL DISPENSERS
<u>K86</u>	PRE-SOAK CHEMICAL DISPENSERS
<u>B7</u>	UNDERBAR DUMP SINK
<u>B8</u>	UNDERBAR SINK

UNDERBAR HAND SINK

<u>B10</u>



WASTE AND VENT ISOMETRIC SCALE: NONE

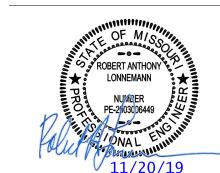


CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.



WWW.KLHENGRS.COM 1538 ALEXANDRIA PIKE, SUITE 11 FT. THOMAS, KENTUCKY 41075 800-354-9783 859-442-8050 859-442-8058 FAX LEXINGTON, KENTUCKY COLUMBUS, OHIO NEW YORK, NEW YORK

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistancy or omission he may discover.

Revisions:

11/20/2019 KLH

REV 1 - PERMIT & LL COMMENTS



FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

10/14/2019

PLUMBING RISERS AND DIAGRAMS

COMPACT PIPE STAND: INTEGRATED ROLLER ROD.
2. PIPE CLAMPS, V SHAPED CRADLE TO SUPPORT PIPE PENETRATION.
4. PIPESTANDS SHALL BE SPACED NO MORE THAN 10' 5. USE MIRO SUPPORT PAD UNDER ALL PIPESTANDS. HIGH-TYPE, SINGLE-PIPE STAND: BASE: PLASTIC OR STAINLESS STEEL.
 VERTICAL MEMBERS: TWO OR MORE CADMIUM-PLATED-STEEL OR STAINLESS-STEEL, CONTINUAOUS-THREAD RODS.
 HORIZONTAL MEMBERS: CADMIUM-PLATED-STEEL OR STAINLESS-STEEL ROD WITH PLASTIC OR STAINLESS-STEEL, ROLLER TYPE PIPE SUPPORT. 224000.00-12 - GAS PIPE ROOF SUPPORT DETAIL

1. ONE-PIECE PLASTIC UNIT WITH OR WITHOUT

1. DESCRIPTION: ASSEMBLY OF BASE, VERTICAL AND HORIZONTAL MEMBERS,

AND PIPE SUPPORT, FOR FLOOR AND ROOF INSTALLATIONS WITHOUT

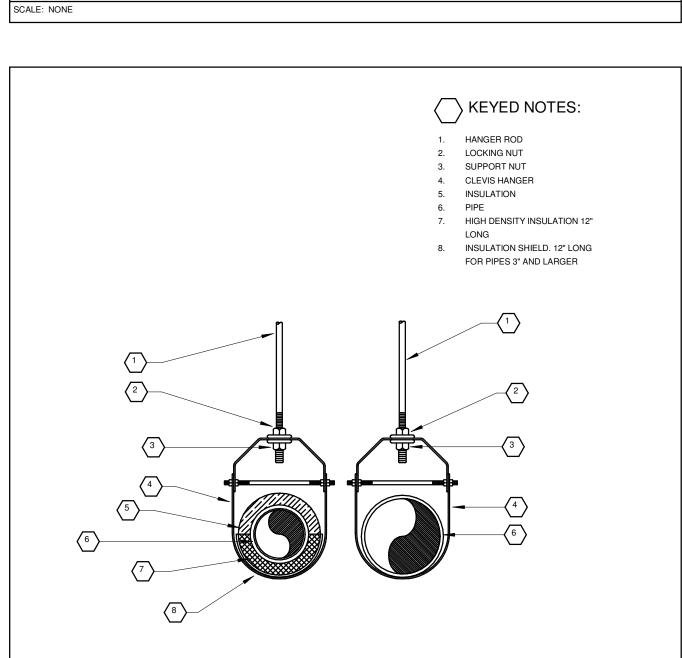
3. INSTALLATIONS WITHOUT MEMBRANE

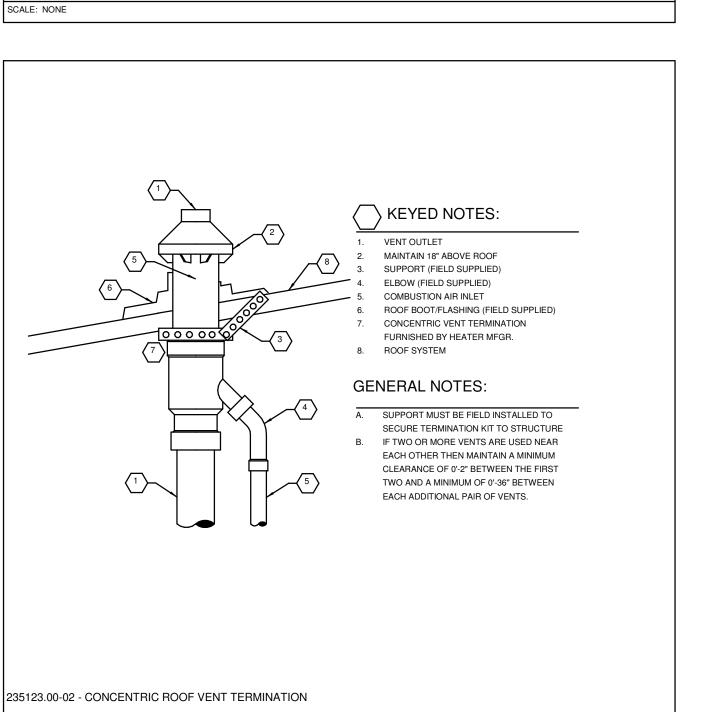
MEMBRANE PENETRATION.

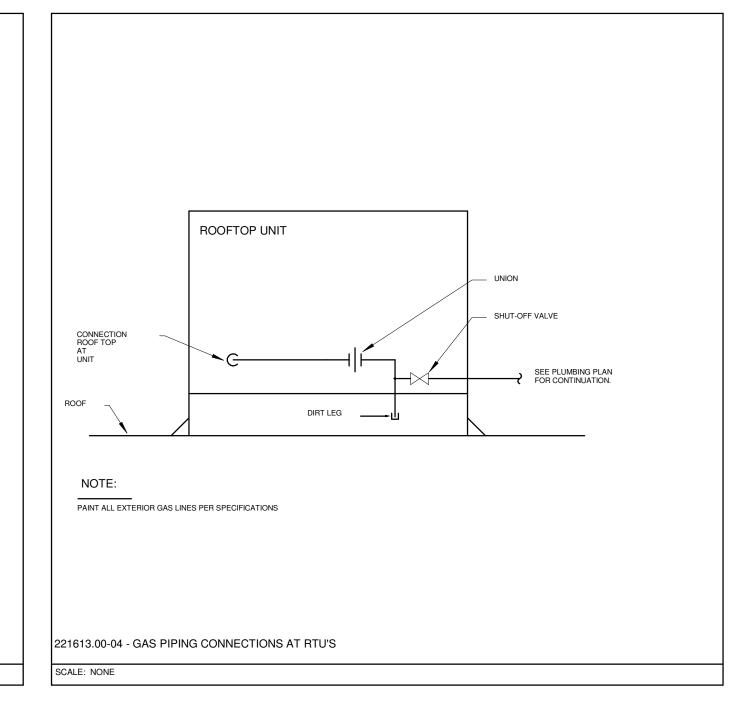
BASE: PLASTIC OR STAINLESS STEEL.

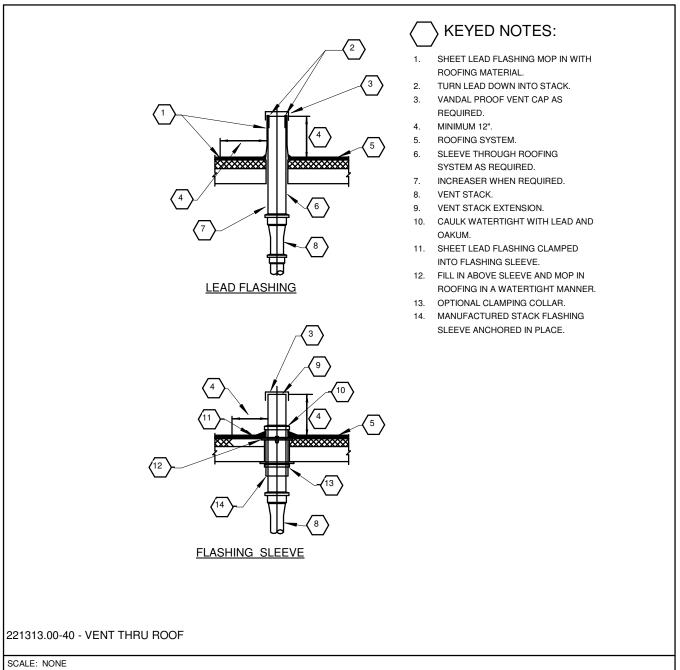
FOR FLOOR OR ROOF.

GENERAL NOTES: > KEYED NOTES: A. MODULAR TRENCH DRAIN SECTIONS 1. INSTALLATION BRACKETS AS AND DUCTILE IRON SLOTTED REQUIRED. 2. LENGTH VARIES SEE PLAN. GRATES (EPOXY COATED). CLOSED END PLATE. 4. HORIZONTAL OUTLET END PLATE WITH PIPE CONNECTOR. HORIZONTAL STRAINER. PLAN VIEW SECTIONAL SIDE VIEW











CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

WWW.KLHENGRS.COM



FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

PLUMBING

SPECIFICATIONS

Zurn Industries, Inc., Hydromechanics Div.

steel or other dissimilar metal in structure.

considered to be properly valved off at the fixtures.

All valves shall comply with lead-free regulations.

All valves installed on domestic water piping 3

WATER HAMMER ARRESTORS

equipment provided by others.

Series 585-70-NS.

Check Valves

Manufacturers

Kitz Corporation

Milwaukee

Watts

Access shall be provided to all valves.

Provide equal to Nibco Series 590-Y.

Balancing Valves for Hot Water Return

PIPE JOINTS AND CONNECTION

PLUMBING INSULATION

II for sheet materials.

Armstrong Armaflex I

FIBERGLASS INSULATION

Armstrong World Industries, Inc.

Owens-Corning Fiberglass Corp.

INTERRUPTION OF SERVICES

Rubatex R-180-FS

Nomaco K-Flex

Manufacturers:

Keene Corp.

CertainTeed.

Plumberex

within jacket.

Easy Heat Inc.

Trasor corp.

Nelson Heat Trace.

BH thermal Corporation

Delta-Therm Corporation

Thermon manufacturing co.

Johns Manville.

Manufacturers:

specifications covering these materials.

balancing valves may be substituted with Engineer's Approval.

directed by the Architect without additional cost to the Owner.

Insulate domestic cold water piping, associated fittings and valves with 1/2

Insulate domestic hot water return piping, associated fittings and valves with 1

Encase pipe fittings insulation with one-piece premolded PVC fitting covers.

Insulate domestic hot water piping, associated fittings and valves with 1

and in such manner as satisfactory to the Architect.

FLEXIBLE ELASTOMERIC INSULATION

exposed outside shall be covered with a vinyl wrap.

Fiberglass piping insulation: ASTM C 547, Class 1

equivalent to adjoining pipe insulation jacketing.

INSULATION FOR HANDICAP ACCESSIBLE FIXTURES

Manufacturers: Subject to compliance with requirements:

from the Architect before proceeding with the work.

such defects occurring within the warranty period.

Product: Raychem Corporation xl-trace or chromalox

Raychem; a division of tyco thermal controls.

Pyrotenax; a division of Tyco thermal controls.

HEAT TRACING FOR PLUMBING PIPING

Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing

Remove shock conditions from all piping. Provide and install shock absorbers on all piping serving flush valve fixtures.

Ball Valves - 1 Inch and Smaller: 2-piece body, 600 psi CWP, 150 psi SWP, Cast Bronze body, full port, teflon seats,

blowout-proof stem, adjustable packing gland, chrome plated bronze ball, with screwed ends, and vinyl-covered steel

Ball Valves - 1-1/4 Inch to 3 Inch: 3-piece body, 600 psi CWP, 150 psi SWP, Cast Bronze body, conventional port,

vinyl-covered steel handle. Provide solder ends. Provide extended valve stems for valves used on insulated lines.

Swing Check Valves - Class 125, cast bronze body and cap, horizontal swing, Y-pattern, with a bronze disc, and

1/2" to 2 ": All dezincification resistant brass construction, straight pattern globe, non-rising stem, two test ports,

memory stop, position display, rated for 240 psi to 250 degrees F. Provide equal to Nibco Circuit Balancing Valve

All cutting and patching of finished construction of building shall be performed by this contractor under the section of

Any minor adjustment in location of alignment of new work or to connect to existing utilities shall be performed as

The contractor shall be responsible for damages to the grounds, walks, road, building, piping systems, electrical

systems, and their equipment and contents, caused by leaks in the piping systems being installed or having been installed by him. He shall repair at his expense all damaged so caused. All repair work shall be done as directed by

Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the

Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type

Joints shall be sealed with Armstrong #520 or Rubatex #373 adhesive or as required by manufacturer. Pipe insulation

Vapor Barrier Material: Paper-backed aluminum foil, except as otherwise indicated, strength and permeability rating

Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated.

All handicap lavatory P-trap and angle stop assemblies shall be insulated with Trap Wrap Protective Kit manufactured

by ProFlo model PF202WH or equal. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps

the insulation shall have a cleanout nut cap to allow service to the trap without disassembly. For stops, the insulation

shall have a lock lid that prevents tampering but allows access without removal of the insulation. Fasteners shall

When it is required to interrupt existing services, this contractor shall first notify the Architect that an interruption is

This contractor shall advise the Architect of the length of time the service will be interrupted and shall get permission

This contractor shall warrant that all work under this section shall be free of defective work, materials and parts for a period of one year after acceptance of the work and shall repair, revise, and replace, at no cost to the Owner, any

Provide heat tracing and associated insulation for all sanitary traps and all horizontal sanitary piping subject to

Power connections, splice fittings, and end caps shall be provided for a complete/operational system. Where these

items are shown, deviations from the proposed layout shall be accepted in the interest of saving cost if there is a more

efficient layout; however, if changes result in an increased cost to another contractor (i.e. electrical contractor), those

linear foot rating, or as recommended by manufacturer. Install heat trace directly on pipe and valves within insulation

required. It should be noted that facilities must by kept in operation as much as possible.

Provide heat tracing and associated insulation for all water piping subject to freezing.

increased costs shall be borne by the contractor making the deviations.

Chromalox, inc.; wiegard industrial division; emerson electric company.

Staples, Bands, Wires, and Cement: As recommended by insulation manufacturer for applications indicated.

contractor's guarantee bond nor relieving the contractor of his responsibilities during the bonding period.

Insulate waste piping, supply piping, stops, and valves under handicap accessible plumbing fixtures.

Insulation shall be listed and labeled per ASTM E 84 for plenum installations employing slip on techniques.

model T and S1710 (threaded or socket). Valve must be listed for potable water use by manufacturer. Ball-style

having threaded or solder ends. Provide solder ends for domestic hot and cold water service. Provide equal to Nibco

teflon seats, blowout-proof stem, adjustable packing gland, chrome plated bronze ball, screwed ends, and

handle. Provide solder ends. Provide extended valve stems for valves used on insulated lines. Provide equal to Nibco

" and smaller shall be ball valves.

" wall thickness insulation.

" wall thickness insulation.

" wall thickness insulation.

"rapid trace", self-regulating heat trace sized at 8 watts per

Provide stops on domestic water supplies to isolate hot and cold water to each fixture, including all equipment and

Fixtures, item or units furnished by the manufacturer with integral stops or stops specified with the fixture are

Valves on domestic water piping shall be ball valves or butterfly valves depending on size.

Watts Drainage

Water heaters

PLUMBING EQUIPMENT

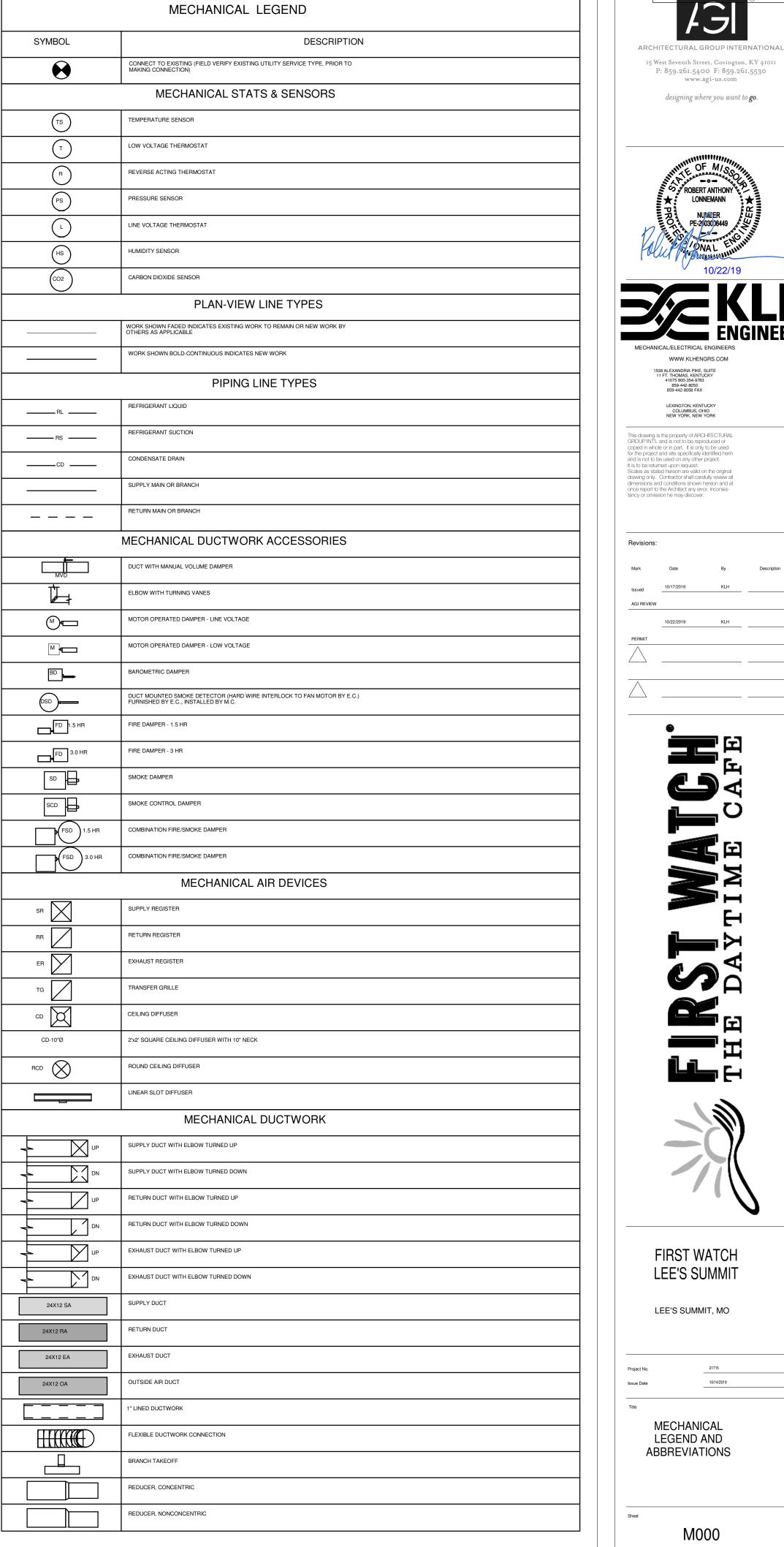
Thermostatic Mixing Valves CATHODIC PROTECTION

235123.00-02 - CONCENTRIC ROOF VENT TERMINATION

221319.00-03 - TYPICAL MODULAR TRENCH DRAIN

220529.00-12 - PLUMBING PIPE HANGER INSTALLATION SCALE: NONE

			HVAC	C GENERAL NOTES	
FIE	ELD VERIFY ALL CONDITIONS			P EQUIPMENT PLACEMENT WITH DORDINATE EXACT LOCATION WITH	
DEGION DD	ANNINGS ARE COMEMATIC THE CONTRACTOR SHALL WEST THE		EXISTING STRUCTURE AND LAN	DLORD'S ROOFING CONTRACTOR.	
SITE PRIOR	AWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING DITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND		B. REFER TO FOOD SERVIC WORK.	E DRAWINGS FOR ADDITIONAL SCOPE OF	
MATERIALS CONDITION	S NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING IS.		C. INSTALL ALL DUCT, PIPE COORDINATE INSTALLATION OF	ECT. AS HIGH AS POSSIBLE. WORK WITH OTHER CONTRACTORS.	
OWNER PR	RACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR IOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS		D. PROVIDE FLEXIBLE CON EQUIPMENT WITH RATING PART	NECTION BETWEEN DUCT WORK AND ALL S.	
DESIGN INT	SIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE TENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER RAFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED			BE INSTALLED IN ACCORDANCE WITH ITS SEALED PRIOR TO INSULATION. ALL	
	ACTORS COST.		DUCTWORK TO BE CONCEALED DUCTWORK SIZES INDICATED A	UNLESS NOTED OTHERWISE. RE ACTUAL DUCT SIZES. ADDITIONAL	
LOCAL COD	ONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF DES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE R ALL WORK INSTALLED IN STRICT ACCORDANCE WITH		CLEARANCE SHALL BE CONSIDE F. ALL ROOFING WORK SHA	RED FOR INSULATION. ALL BE PERFORMED BY LANDLORDS	
GOVERNING WITHSTAND	G CODES, THE PLANS AND SPECIFICATIONS NOT DING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER R OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING		ROOFING CONTRACTOR AT THIS ROOF WARRANTY. COORDINAT	S CONTRACTORS EXPENSE TO MAINTAIN E ROOF PENETRATIONS WITH THIS	
	D DESIGN INTENT.		CONTRACTOR. VERIFY CONTRA	ACTON WITH LANDLORD.	
		STANDAR	D HVAC ABBREVIATIONS		
AV	AUTOMATIC AIR VENT	HD	HEAD	RO REVERSE OSMOSIS	
ACCESS AD	ACCESSORIES ACCESS DOOR	HOA HP	HAND/OFF/AUTOMATIC HORSEPOWER	RPM REVOLUTIONS PER MINUTE RS REFRIGERANT SUCTION	
NFF NMP	ABOVE FINISHED FLOOR AMPERE	HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)	SA SUPPLY AIR SAT SUPPLY AIR TEMPERATURE	
Λ P	ACCESS PANEL	HSTAT	HUMIDISTAT	SC SHADING COEFFICIENT	
APD	AIR PRESSURE DROP	UTO	HEATING:	SCD SMOKE CONTROL DAMPER	
	AIR CONDITIONING AND REFRIGERATION INSTITUTE	HTG HWR	HEATING HEATING HOT WATER RETURN	SCD SMOKE CONTROL DAMPER SD SMOKE DETECTOR SENS SENSIBLE HEAT	
ASME	AIR CONDITIONING AND REFRIGERATION INSTITUTE AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM			SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE	
ASME BAS BD	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HWR HWS	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY	SD SMOKE DETECTOR SENS SENSIBLE HEAT	
ASME BAS BD BHP BTU	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT	HWR HWS HZ I/O IAQ IN HG	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS	
ASME BAS BD BHP BTU BTUH	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER	HWR HWS HZ I/O IAQ IN HG IN WC IN WG	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT	
ASME BAS BD BHP BTU BTUH CD	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR	HWR HWS HZ I/O IAQ IN HG IN WC	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE	
ASME BAS BD BHP BTU BTUH CD CFH CFM CHWR	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE	
ASME BAS BD BHP BTU BTUH CD CFH CFM CHWR CHWS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWS CI	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE)	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWS CI CLG CO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWS CI CLG CO CO2 COP CV	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWS CI COC COC COC COC COC CW CWR CWS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER SUPPLY	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BID BITU BITUH CD CFH CHWR CHWS CI COO COO COO EWR CWS BB	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BID BITU BITUH CD CFH CHWR CHWS CI COO COO COO COO COO COO COO COO COO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME AS BD BHP BTUH BCHWR BCHWR BCHWS BCI BCO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE)	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM MOTOR OPERATED DAMPER	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWR CHWS CI COO COO COO COO COO COO COO COO COO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME AS BD BHP BTUH BCHWR BCHWR BCHWS BCI BCO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE)	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BTU BTUH BCH BCHWR CHWR CHWS BCI BCO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BTU BTUH CD CFH CHWR CHWS CI COO COO COO COO COO COO COO COO COO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWS CL CO2 COP CWR CWS DB DD CD DEG DDC DDC DEG DDC DDC DDC DDC DDC DDC DDC DDC DDC DD	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS BD BHP BTU BTUH CD CFH CHWR CHWS CL CO2 COP CWR CWS DB DDC DEG DDC DDC DDC DDC DDC DDC DDC DDC DDC DD	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NO NTS	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY OLOSED NORMALLY OPEN NOT TO SCALE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NO NTS OA OCP	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER CURRENT PROTECTION	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEIONIZED WATER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NO NTS OA	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY OPEN NOT TO SCALE OUTSIDE AIR	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NC NO NTS OA OCP PD	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER CURRENT PROTECTION PRESSURE DROP	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ARI ASME ASME BAS BB BHP BTU BTUH CD CFH CHWR CHWS CI CLG COO COO COO COO COO COO COO COO COO CO	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON MONOXIDE COFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEIONIZED WATER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT FLOAT AND THERMOSTATIC FREE AREA FIRE DAMPER FULL LOAD AMPERES	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NC NO NTS OA OCP PD PPM PRS PRV PSI	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER CURRENT PROTECTION PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEIONIZED WATER DEIONIZED WATER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT FLOAT AND THERMOSTATIC FREE AREA FIRE DAMPER FULL LOAD AMPERES FEET PER MINUTE FEET PER SECOND	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NC NO NTS OA OCP PD PPM PRS PRV PSI PSIA PSIG	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM FFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER CURRENT PROTECTION PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH – ABSOLUTE POUNDS PER SQUARE INCH – BASCLUTE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON COOLING CARBON MONOXIDE CARBON MONOXIDE CARBON DIOXODE COEFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEIONIZED WATER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT FLOAT AND THERMOSTATIC FREE AREA FIRE DAMPER FULL LOAD AMPERES FEET PER MINUTE	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NC NO NTS OA OCP PD PPM PRS PRV PSI PSIA	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER CURRENT PROTECTION PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH – ABSOLUTE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	
ASME BAS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER RETURN COLLING CARBON MONOXIDE CARBON MONOXIDE CARBON DIOXODE COFFICIENT OF PERFORMANCE CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBELS DRY-BULB TEMPERATURE DISCONNECT DIRECT DIGITAL CONTROLS DEGREE DELTA (CHANGE IN TEMPERATURE) DIAMETER DEW POINT TEMPERATURE DISCONSER WATER DEW POINT TEMPERATURE DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST GRILLE EMERGENCY POWER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT FLOAT AND THERMOSTATIC FREE AREA FIRE DAMPER FULL LOAD AMPERES FEET PER MINUTE FEET PER SECOND FEET	HWR HWS HZ I/O IAQ IN HG IN WC IN WG IPLV INST KW KWH LAT LBS/HR LF LPR LPS LWT MAX MBH MCA MERV MIN MOD MPR MPS MRI MVD NA NC NC NC NO NTS OA OCP PD PPM PRS PRV PSI PSIA PSIG RA	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HERTZ INPUT/OUTPUT INDOOR AIR QUALITY INCHES OF MERCURY INCH WATER COLUMN INCH WATER GAUGE INTERGRATED PART LOAD VALUE INSTALLED KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE POUNDS PER HOUR LINEAR FOOT (FEET) LOW PRESSURE RETURN (STEAM CONDENSATE) LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MAXIMUM 1000 BTUH MINIMUM BRANCH CIRCUIT AMPACITY MINIMUM EFFICIENCY REPORTING VALUE MINIMUM MOTOR OPERATED DAMPER MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MEDIUM PRESSURE STEAM MAGNETIC RESONANCE IMAGING MANUAL VOLUME DAMPER NOT APPLICABLE NOISE CRITERIA NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER CURRENT PROTECTION PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH – ABSOLUTE POUNDS PER SQUARE INCH – BASOLUTE	SD SMOKE DETECTOR SENS SENSIBLE HEAT SP STATIC PRESSURE TAB TESTING, ADJUSTING, BALANCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT UL UNDERWRITERS LABORATORY VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WB WET-BULB (TEMPERATURE) WG WATER GAGE WPD WATER SIDE PRESSURE DROP	



CONSTRUCTION
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020

All reports, plans, specifications, computer files, field data, notes and other documents and instruments by the Consultant as instruments of service shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.

OWNERSHIP OF INSTRUMENTS OF SERVICE
All reports, plans, specifications, computer files, field data, notes and remain the property of the Consultant. The Consultant shall retain all

1) MECHANICALROOF PLAN 1/4" = 1'-0"

KEYED NOTES

M01 ROOF MOUNTED MAKE-UP AIR UNIT. REFERENCE FOOD SERVICE DRAWINGS AND SCHEDULE \mathcal{L} M02 LANDLORD TO PROVIDE ROOFTOP UNIT AS SCHEDULED. TENANT CONTRACTOR TO BALANCE RTU TO THE SCHEDULED AIRFLOW. MAINTAIN ALL CODE AND MANUFACTURER REQUIRED CLEARANCES.

MOS GRÉASÉ EXHAUST FAN ON ROOF. REFERENCE SPECIFICA HONS AND FOOD SERVICE FOR

REFER TO KITCHEN EQUIPMENT PLANS FOR FURTHER DETAIL. VERIFY FINAL LOCATION WITH

ADDITIONAL REQUIREMENTS. CONTRACTOR TO PROVIDE OPENING IN ROOF FOR DUCT, CURB AND FAN.

DISHWASHER EXHAUST FAN ON ROOF. REFERENCE FOOD SERVICE DRAWINGS FOR

ADDITIONAL REQUIREMENTS.

EXHAUST FAN ON ROOF. PROVIDE DUCT TRANSITION AT FAN. REMOTE CONDENSING UNIT PURCHASED BY OTHERS, INSTALLED BY GENERAL CONTRACTOR.

KITCHEN EQUIPMENT VENDOR.

CONSTRUCTION
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/17/2020

ARCHITECTURAL GROUP INTERNATIONAL

P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to go.

15 West Seventh Street, Covington, KY 41011

WWW.KLHENGRS.COM 1538 ALEXANDRIA PIKE, SUITE 11 FT. THOMAS, KENTUCKY 41075 804-354-9783 859-442-8050 859-442-8058 FAX LEXINGTON, KENTUCKY COLUMBUS, OHIO NEW YORK, NEW YORK

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistancy or omission he may discover.

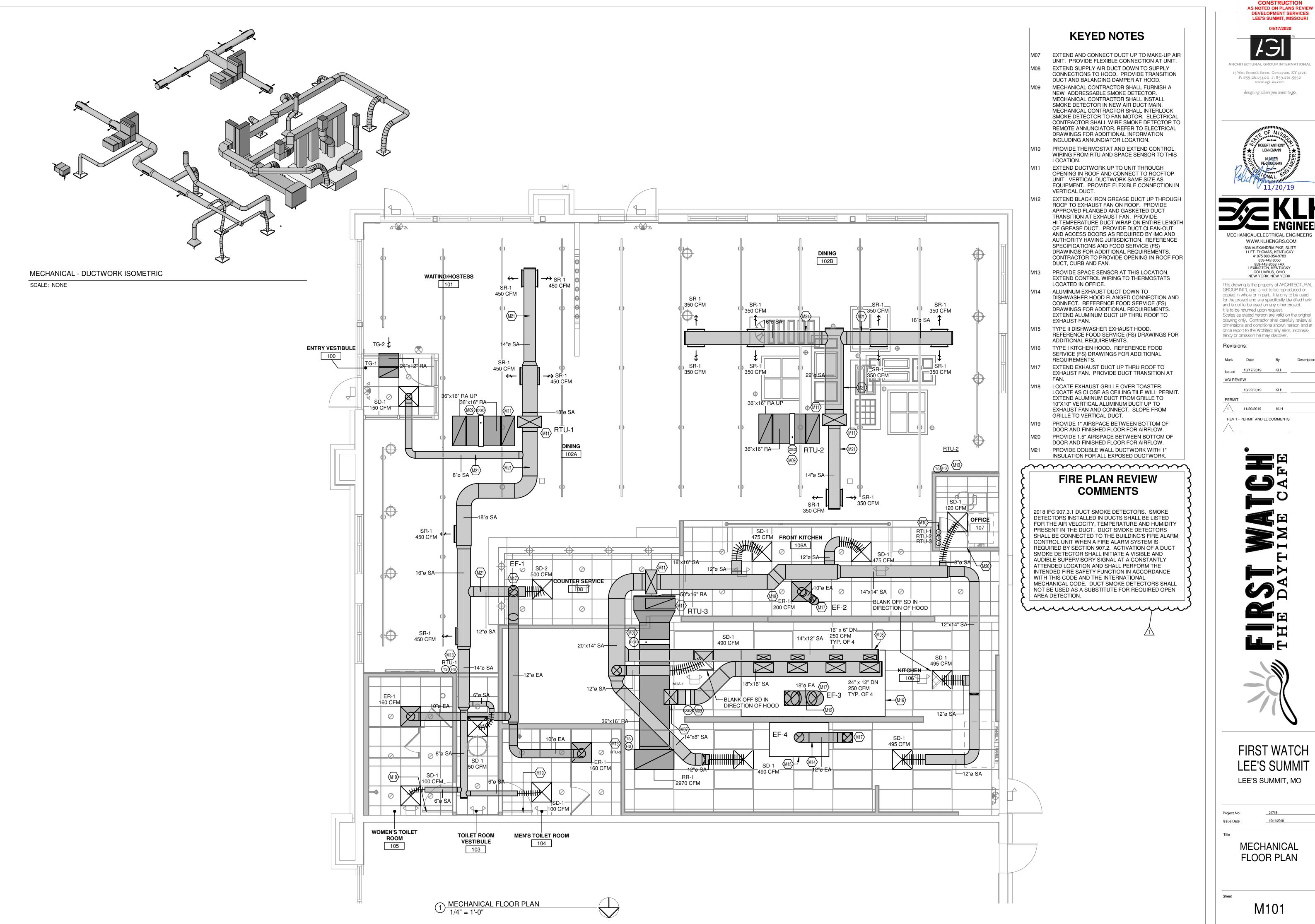
Revisions:

REV 1 - PERMIT & LL COMMENTS



FIRST WATCH LEE'S SUMMIT LEE'S SUMMIT, MO

MECHANICAL ROOF PLAN



CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

15 West Seventh Street, Covington, KY 41011

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to **go**.

WWW.KLHENGRS.COM

1538 ALEXANDRIA PIKE, SUITE 11 FT. THOMAS, KENTUCKY

41075 800-354-9783

859-442-8050

859-442-8058 FAX LEXINGTON, KENTUCKY

COLUMBUS, OHIO NEW YORK, NEW YORK

11/20/2019 KLH

10/14/2019

FIRST WATCH

LEE'S SUMMIT

LEE'S SUMMIT, MO

MECHANICAL FLOOR PLAN

					HVAC DIFFUSE	ERS AND REGISTERS SCHEDULE - FIRST	WATCH		
TAG	MANUFACTURER	MODEL	FACE	MOUNTING	MATERIAL	FINISH	DAMPER TYPE	BORDER STYLE	REMARKS
ER-1	TITUS	350FL	24"x24"	CEILING	ALUMINUM	STANDARD WHITE	(none)	LAY IN MOUNTING	
RR-1	TITUS	350FL	48"x24"	CEILING	ALUMINUM	STANDARD WHITE	(none)	LAY IN MOUNTING	
SD-1	TITUS	OMNI-AA	24"x24"	CEILING	ALUMINUM	STANDARD WHITE	OPPOSED BLADE	LAY IN MOUNTING	REFER TO DRAWINGS FOR DUCT CONNECTION SIZE
SD-2	TITUS	OMNI-AA	24"x24"	CEILING	ALUMINUM	STANDARD WHITE	OPPOSED BLADE	LAY IN MOUNTING	REFER TO DRAWINGS FOR DUCT CONNECTION SIZE. DIFFUSERS IN ACT-4 CEILING SHALL RECEIVE SILVER FINISH TO MATCH TIN COLOR. REFER TO SHEET A103. COORDINATE WITH FIRST WATCH REPRESENTATIVE.
SR-1	TITUS	300RL	4"x20"	DUCT	ALUMINUM	METALESCENT ALUM. BAKED ENAMEL	BUTTTERFLY	SURFACE MOUNT	
TG-1	TITUS	350FL	24"x12"	CEILING	ALUMINUM	STANDARD WHITE	(none)	LAY IN MOUNTING	
TG-2	TITUS	350FL	24"x12"	SIDEWALL	ALUMINUM	STANDARD WHITE	(none)	LAY IN MOUNTING	

	C LOAD SCHEDULE - FIRST WATCH HEATING AND COOLING LOAD CALCULATIONS ARE BASED ON THE CLTD/CLF (COOLING LOAD TEMPERATURE DIFFERENCE/COOLING LOAD FACTOR) METHOD. ASSUMPTIONS AND EXECUTION OF THESE METHODS ARE PER ASHRAE 183-2007																							
	C LOADS COOLING LOAD BREAKDOWN HEATING LOAD BREAKDOWN																							
	C LOADS COOLING LOAD BREAKDOWN CROOF SENSIBLE HEAT GAIN FROM ROOF CWALL SENSIBLE HEAT GAIN FROM EXTERIOR WALLS CPART SENSIBLE HEAT GAIN FROM PARITIONS CGLASS SENSIBLE HEAT GAIN FROM GLAZING CSOLAR SENSIBLE HEAT GAIN FROM SOLAR GAIN THROGH CLIGHTS GLAZING CEQUIP SENSIBLE HEAT GAIN FROM INTERIOR LIGHTING CPSENS SENSIBLE HEAT GAIN FROM PLUG LOADS, COMPUTERS, ETC. SENSIBLE HEAT GAIN FROM PEOPLE									CSSEN CFAN COAS CTSEN CPLAT COAL CTLAT	IS	SENSIBLE SENSIBLE TOTAL SE LATENT H LATENT H TOTAL LA	HEAT GAIN HEAT GAIN NSIBLE HEA EAT GAIN FF	FROM AIF FROM OU T GAIN ROM PEOF ROM OUT! GAIN	HANDLER FA TDOOR VENTI PLE DOOR VENTIL	LATION AII	HROO HWAI R HPAF HGLA	DF LL RT ASS B B	HEAT LOSS HEAT LOSS HEAT LOSS HEAT LOSS TOTAL HEA	S FROM ROOM S FROM EXTE S FROM PART S FROM GLAZ S FROM SLAE AT LOSS FROM S FROM OUTI	RIOR WALL TITIONS ZING B M SPACE			
EQUIPMENT MARK	CROOF	CWALL	CPART	CGLASS	CSOLAR	CLIGHTS	CEQUIP	CPSENS	CSSENS	CFAN	COAS	CTSENS	CPLAT	COAL	CTLAT	СТОТ	HROOF	HWALL	HPART	HGLASS	HSLAB	HSPACE	HOA	HTOT
RTU-1	3.8	1.7	0	2.2	12.9	9	4	12.9	46.8	2.4	19.2	93.7	10.8	28.1	39	_	7.2	5	0	8.5	5.1	26.1	61.1	87.2
RTU-2										18.6	91.1	15.3	27.3		133.8	6	4.4	0		4.3		59.4	81	
RTU-3	2.9	1	0	0	0	6.9	63.1	4.9	78.9	2.6	12.7	94.4	4.1	18.7	22.8	117.2	5.5	2.9	0	0	2.6	11.2	40.6	51.9

	HVAC MAKEUP AIR UNIT SCHEDULE - FIRST WATCH																
Equipment shall	quipment shall be braced and labeled by the equipment manufacturer to withstand the minimum scheduled available fault current value for listed equipment.																
EQUIPMENT			WEIGHT						OA ESP (in			MIN GAS	MAX GAS	FLA	_	AVAILABLE	SHEET
MARK	DESCRIPTION	STATUS	(lbs)	MANUFACTURER	MODEL	VOLTS	PHASE	(cfm)	WC)	IN (mbh)	OUT (mbh)	PRESSURE (in WC)	PRESSURE (in WC)	(amps)	Access	FAULT CURRENT	NUMBER
MUA-1	PACKAGED OUTDOOR MAKEUP AIR UNIT	BY OTHERS	1709	CAPTIVEAIRE	A2-D.250-20D-MPU	208	3	3000		204	187	4	14	9.5	BY OTHERS	1864	M100
						•											

ABBREVIATIONS				CONTRACT	OR TYPE					МОТ	FOR CONTR	OL TYPE						CON	TROL TYP	E			
MC MOTO SD DUCT CN CONT TS TOGG C/B H.A.C. FUSE FUSE FLA OPER MCA MINIM	L DISCONNECT OR CONTROL (POWER) SMOKE DETECTOR FROLS GLE SWITCH AT LOCAL DISCONNECT ATING FULL LOAD AMPS JUM CIRCUIT AMPACITY O AND PLUG CONNECTION	VERIFY FIE		EC EX FC GC HC MFR PC OR	EXISTING FIRE PRO GENERAL HVAC CO MANUFAC PLUMBIN	TECTION C CONTRAC NTRACTOR	CONTRACTOR CTOR CTOR			CS MCC MG MS VFD MSR OV	MOTO MAGN MANU VARIA MANU	OR CONTENETIC STA JAL STAR ABLE FRE JAL STAR	TER QUENCY [TER CONTACT DRIVE DNTROL RE	LAY			TC CPT BAS LOW LINE RLIN MAN FA CO INT	CC BL LII E RE M/ FII	JILDING W VOL ⁻ NE VOL ⁻ EVERSE ANUAL RE ALAF ARBON I	POWER TRA AUTOMATIC TAGE CONTE TAGE CONTE ACTING LINI	ON SYSTEM ROLS ROLS E VOLTAGE THE ENSOR	RMOSTAT
EQUIPMENT MARK	DESCRIPTION	VOLTS (V)	PHASE Y) HP (HP)	HTG (kW)	WATTS FLA (A)	MCA (A)	OCP (A)	DC TYPE	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	I CN IN	ST CN WIRE	SD TYPE	AVAILABLE FAI CURRENT (A
F-1	CENTRIFUGAL ROOF VENTILATOR	120	1		1/10		2.6				EC	EC	EC	MS	MFR	MFR	MFR	TC	EC	EC	EC		1228
F-2	CENTRIFUGAL ROOF VENTILATOR	120	1		1/30						EC	EC	EC	MS	MFR	MFR	MFR	TC	EC	EC	EC		2479
F-3	CENTRIFUGAL ROOF VENTILATOR	208	3		3		9.4				EC	EC	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC		2520
F-4	CENTRIFUGAL ROOF VENTILATOR	120	1		.333		4.3				EC	EC	EC	MG	MFR	MFR	MFR	TC	EC	EC	EC		3541
IUA-1	PACKAGED OUTDOOR MAKEUP AIR UNIT	208	3	1.299	3		9.5				EC	EC	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT SMOKE	1864
TU-1	PACKAGED OUTDOOR ROOFTOP UNIT	208	3					58	70		EC	EC	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT SMOKE	3694
ΓU-2	PACKAGED OUTDOOR ROOFTOP UNIT	208	3					58	70		EC	EC	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT SMOKE	4961
TU-3	PACKAGED OUTDOOR ROOFTOP UNIT	208	3					58	70		EC	EC	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT SMOKE	4930

						HVAC VEN	ITILATION SCHEDU	JLE - FIRST WATO	CH						
NUMBER	NAME	AREA	PEOPLE RED	OA PER PERSON	OA PER SQ FT.	REQ SUP	ACT SUP	REQ OA	ACT OA	ACT RET	ACT EXH	CRIT OA	PRESSURE	PCT OPERABLE	NATURAL VENTILATION
100	ENTRY VESTIBULE	41 SF	0			148	150	34	34	150	0	0	E	0	
01	WAITING/HOSTESS	286 SF	20	7.5	0.18	896	900	206	207	900	0	0.1955	E	0	
02A	DINING	732 SF	22	7.5	0.18	1791	1800	412	414	1800	0	0.2688	E	0	
02B	DINING	1097 SF	75	7.5	0.18	3478	3500	800	805	3500	0	0.2285	E	0	
103	TOILET ROOM VESTIBULE	57 SF	0		0.06	48	50	11	12	50	0	0.08	E	0	
104	MEN'S TOILET ROOM	57 SF	0			100	100	23	23	0	160	0	N	0	
105	WOMEN'S TOILET ROOM	52 SF	0			100	100	23	23	0	160	0	N	0	
06	KITCHEN	724 SF	14	7.5	0.12	1993	2970	279	416	2970	0	0.0973	E	0	
06A	FRONT KITCHEN	251 SF	5	7.5	0.12	636	950	89	133	950	0	0.0894	E	0	
07	OFFICE	45 SF	0	5	0.06	79	120	11	17	120	0	0.0333	E	0	
08	COUNTER SERVICE	105 SF	11	7.5	0.18	500	500	115	115	500	0	0.236	E	0	
OTAL		3448 SF	'		•	•		•	'		•	•	•		

												HVA	C ROOFTOP UNITS	S SCHEDULE	E - FIRST WAT	СН												
Equipment shal	be braced and labeled by the eq	uipment manufactu	rer to withstand the	minimum scheduled	d available fault cu	urrent value	for listed ed	quipment.																				
EQUIPMENT MARK	DESCRIPTION	STATUS	WEIGHT (lbs)	MANUFACTURER	MODEL	VOLTS	PHASE	CFM (cfm)	ESP (in WC)	OACFM (cfm)	NOMINAL TONS	MAT CLG DB (Deg F)	MAT CLG WB (Deg F)	CLG MBH (mbh)	CLG SENS (mbh)	LAT DB (Deg F)	LAT CLG WB (Deg F)	HTG MBI (mbh)	LAT HTG (Deg F)		GAS HTG OUT (mbh)		MAX GAS PRESSURE (in WC)	MCA (amps)	OCP (amps)	Access	AVAILABLE FAULT CURRENT	SHEE NUMB
RTU-1	PACKAGED OUTDOOR ROOFTOP UNIT		1564	CARRIER	48HCEE11	208	3	4000	0.5	680	10	78	67	116	94	55	54	63	84	180	148	4.5	14	58	70	2,3,4,9,10,21,23	3694	M100
RTU-2	PACKAGED OUTDOOR ROOFTOP UNIT		1564	CARRIER	48HCEE11	208	3	3500	0.5	876	10	80	67	127	87	55	54	91	83	180	148	4.5	14	58	70	2,3,4,9,10,21,23	4961	M100
				CARRIER	48HCEE11			3500																		2,3,4,9,10,21,23	+	M100

				HVAC FANS	SCHEDULE - F	FIRST WAT	СН							
Equipment shall	be braced and labeled by the e	equipment manufactu	urer to withstar	nd the minimum sche	duled availabl	e fault curr	ent value	for listed	equipment.					
EQUIPMENT MARK	DESCRIPTION	STATUS	WEIGHT (lbs)	MANUFACTURER	MODEL	VOLTS	PHASE	CFM (cfm)	ESP (in WC)	HP (hp)	FLA (amps)	Access	AVAILABLE FAULT CURRENT	SHEET NUMBER
EF-1	CENTRIFUGAL ROOF VENTILATOR		50	GREENHECK	G-090-VG	120	1	560	0.3	1/10	2.6		1228	M100
EF-2	CENTRIFUGAL ROOF VENTILATOR		50	GREENHECK	G-080-G	120	1	200	0.25	1/30		1,3	2479	M100
EF-3	CENTRIFUGAL ROOF VENTILATOR	BY OTHERS	220	CAPTIVEAIRE	DU180HFA	208	3	3600	1.5	3	9.4	BY OTHERS	2520	M100
EF-4	CENTRIFUGAL ROOF VENTILATOR	BY OTHERS	99	CAPTIVEAIRE	DU33HFA	120	1	800	0.5	.333	4.3	BY OTHERS	3541	M100

EQUIPMENT	OUTSIDE AIR	EXHAUST AIR	TOTALS
RTU-3	566	0	566
MAU-1	3000	0	3000
EF-1 (MS)	0	-50	-50
EF-2 (OVEN HOOD)	0	-200	-200
EF-3 (KITCH HOOD)	0	-3600	-3600
EF-4 (DISH HOOD)	0	-800	-800
KITCHEN TOTALS	3566	-4650	-1084
EQUIPMENT	OUTSIDE AIR	EXHAUST AIR	TOTALS
RTU-1	828	0	828
RTU-2	805	0	805
RTU-3	566	0	566
MAU-1	3000	0	3000
EF-1 (RR/MS)	0	-320	-320
EF-2 (OVEN HOOD)	0	-200	-200
EF-3 (KITCH HOOD)	0	-3600	-3600
EF-4 (DISH HOOD)	0	-800	-800

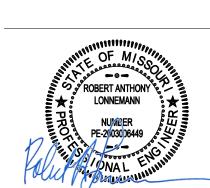
HOOD BALANCING COMPANY CONTACT: MELINK ALEX FALCK (513) 965 - 7301

OCCUPANCY/	OCCUPANCY/TEMPERATURE SCHEDULE												
SEASON	OCCUPIED	<u>)</u>	UNOCCUPIED										
<u> </u>	TIME	TEMP.	TIME	TEMP.									
SUMMER	6AM-4PM	74	4PM-6AM	80									
WINTER	6AM-4PM	72	4PM-6AM	60									
CHANGE-OVER SET POINT 2 DEG.	•	•	•										

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

ARCHITECTURAL GROUP INTERNATIONAL 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to go.



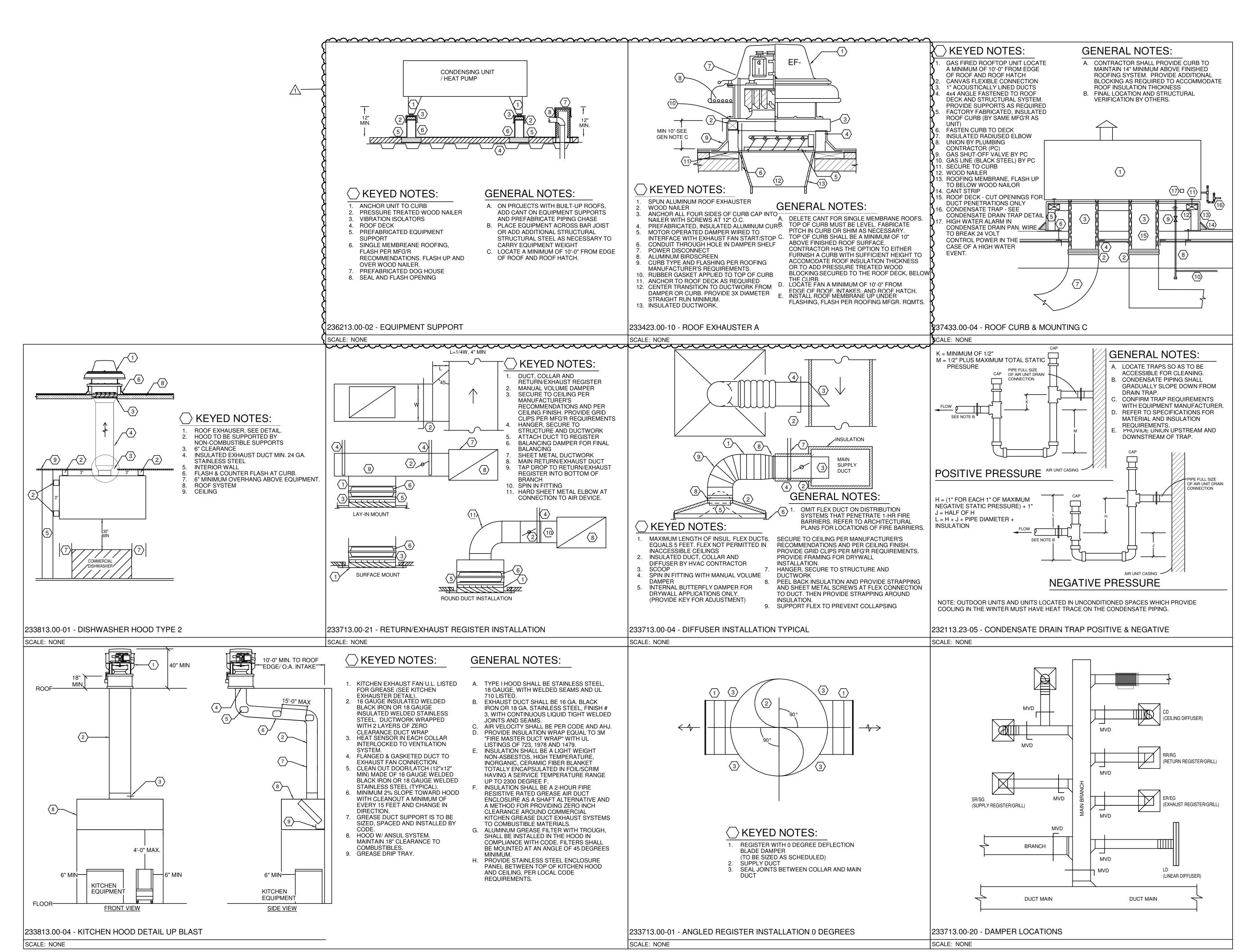
WWW.KLHENGRS.COM



FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

MECHANICAL SCHEDULES



CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

15 West Seventh Street, Covington, KY 41011

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.

WWW.KLHENGRS.COM 1538 ALEXANDRIA PIKE, SUITE 11 FT, THOMAS, KENTUCKY 41075 800-354-9783 859-442-8050 859-442-8058 FAX LEXINGTON, KENTUCKY COLUMBUS, OHIO NEW YORK, NEW YORK

This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsistancy or omission he may discover.

Revisions

11/20/2019 REV 1 - PERMIT AND LL COMMENTS

FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

MECHANICAL DETAILS

10/14/2019

The base bid includes furnishing all materials, labor, tools, and equipment and the performance of all work required to install a complete heating and air conditioning system as outlined herein.

Guarantee The contractor shall provide a guarantee in written form stating that all work under this section shall be free of defective work, materials, or parts for a period of one year from the date of owner's final acceptance and shall repair, revise or replace at no cost to the owner any such defects occurring within the guarantee period. Contractor shall also state in written form that any items or occurrences arising during the guarantee period will be attended to in a timely manner and will in no case exceed four (4) working days from date of notification by owner.

Quality Assurance Provide a complete installation in conformance with the following standards.

AGA: American Gas Association ASHRAE: American Society of Heating, Refrigerating and Air Conditioning

NFPA: National Fire Protection Association SMACNA: Sheet Metal and Air Conditioning Contractors National Association.

Statewide Building Code IMC: International Mechanical Code

Permits, Fees, Inspections, Laws and Regulations

Permits and fees of every nature required in connection with this work shall be obtained and paid for by this contractor who shall also pay for all the installation fees and similar charges. Laws and regulations, which bear upon or affect the various branches of this work shall be complied with by this contractor and are hereby made a part of this contract. All work, which such laws require to be inspected, shall be submitted to the proper public official for For belt driven equipment: Furnish to Owner, with receipt, one spare set of inspection and a certificate of final approval must be furnished. Work in Existing Spaces

General: Care shall be taken when working in existing spaces so as not to damage existing walls and ceilings where work is being performed. Ceilings: Where work is being performed above ceilings, and the architectural drawings do not indicate ceiling modifications by the general contractor, it shall be the responsibility of this contractor to remove and replace existing ceilings where work is being performed. In those instances, all repair and installation of new grid, ceiling panels, etc shall be the responsibility of this contractor. Match existing finishes.

Walls & Floors: It shall be the responsibility of this contractor to patch existing walls and floors and match existing finishes where work is being removed or installed and patching is being performed, unless noted otherwise on the architectural drawings.

Tests and Adjustments No ducts, fixtures or equipment shall be concealed or covered until they have been inspected and approved by the Architect and the inspector who shall be notified by the contractor when the work is ready for inspection. Work shall be completely installed, tested and leak tight before inspection is

required. All tests shall be repeated to the satisfaction of those making the

Architectural coordination items Cutting and Patching: Cut and drill all openings in walls and floors required for the installation. Secure approval of Engineer before cutting and drilling.

Neatly patch all openings cut. Fire Caulking: Patching through fire rated walls and enclosures shall not diminish the rating of that wall or enclosure. Patch shall be equal to rockwool, firestop, caulk or approved "rated" patch

Access Panels and Pathways: Furnish all access panels required for proper servicing of equipment. Provide access panels for all concealed valves, vents, controls, cleanout doors, and sprinkler devices required by NFPA. Provide access panels for all fire and/or fire & smoke dampers. Provide frame as required for finish. Furnish panels to General Contractor. Exact locations

to be approved by the Architect. Minimum size to be 12" x 12", units to be 16 gauge steel, locking device shall be screwdriver cam locks. project conditions Where new HVAC systems are required to be connected to existing HVAC systems, it is the contractor's responsibility to verify the location, size, pressure, condition, and they shall verify that the existing HVAC system is indeed the correct and appropriate HVAC system before any work is done.

Provide all necessary camera scoping and dye testing as necessary. If there is any need for concern, if it is determined that the existing HVAC system is not a correct or appropriate HVAC system or not connected to a correct or appropriate HVAC system, if the condition of the existing HVAC system is not viable for re-use, or any other condition that would not allow the proper functioning of the new HVAC system, the contractor shall notify the engineer in writing immediately via RFI and wait for direction before proceeding. MECHANICAL EQUIPMENT COMMON REQUIREMENTS INSPECTION

Examine areas and conditions under which mechanical equipment is to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

Uncrate equipment and inspect for damage. Verify that nameplate data

corresponds with unit designation. INSTALLATION General: Install mechanical equipment as indicated, and in accordance with

manufacturer's installation instructions. Location: Install each unit level/plum and accurately in position indicated in

relation to other work; and maintain sufficient clearance for normal service and maintenance, but in no case less than that recommended by Coordinate with other trades to assure correct recess size for recessed units.

Protect interior mechanical equipment with protective covers during balance For ducted equipment, connect ductwork to units with flexible duct

connections. Provide transitions to exactly match unit duct connection size. Provide 1" acoustic duct lining on return air side a minimum of 10' from fan. Provide trap at drain piping connection to unit sized per manufacturer's

Access: Provide access space around and over mechanical equipment for service as indicated, but in no case less than that recommended by manufacturer or required by code in effect.

Access Panels: Furnish all access panels required for proper servicing of equipment. Provide access panels for all concealed valves, vents, controls and cleanout doors, and sprinkler devices required by NFPA. Provide frame as required for finish. Furnish panels to General Contractor. Exact locations to be approved by the Architect. Minimum size to be 12" x 12", units to be 16 gauge steel, locking device shall be screwdriver cam locks. Rooftop mechanical equipment shall be installed a minimum of 10'-0" from

any roof edge regardless of location indicated on plans, unless a screen wall following internet address (scroll down to bottom of home or railing is installed per the local building code. See the architectural plans for page): http://www.klhengrs.com. coordination.

secure roof curb to roof structure, in accordance with National Roofing Contractor's Association (NRCA) installation recommendations and shop drawings. Install and secure units on curbs and coordinate roof penetrations Submittal Requirements and flashing. Install according to roofing manufacturer's recommendation and specifications.

Rooftop supports: Provide rooftop equipment rails for mechanical equipment located on the roof that spans two or more bar joists. Verify roof structure, mounting supports, and membrane installations are completed to the proper point to allow installation of roof mounted units.

Indoor Suspended Equipment: Install suspended from structure with all threaded rod and vibration isolators. ELECTRICAL COORDINATION ITEMS Electrical Wiring: Install electrical devices furnished by manufacturer but not

specified to be factory-mounted. Furnish copy of manufacturer's wiring diagram submittal to Electrical Installer. Verify that electrical wiring installation is in accordance with manufacturer's submittal and installation requirements of Division 26 sections. Do not

proceed with equipment start-up until wiring installation is acceptable to

equipment installer. Install electric heating terminal units including components in accordance with Submittal Requirements equipment manufacturer's written instructions, and with recognized industry practices; complying with applicable installation requirements of NEC and NECA's "Standard of Installation".

Tighten connectors and terminals, including screws and bolts, in accordance with equipment manufacturer's published torque tightening values for equipment connectors. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL Std 486A. Grounding: Provide equipment grounding connections for electric heating

terminals as indicated. Tighten connections to comply with tightening torque values specified in UL Std 486A to assure permanent and effective grounding. FIELD QUALITY CONTROL Testing: After installation has been completed, test to demonstrate proper

operation of mechanical equipment at performance requirements specified. When possible, field correct malfunctioning units, then retest to demonstrate compliance. Replace units, which cannot be satisfactorily corrected. Test controls and demonstrate compliance with requirements. Cleaning: After construction is completed, including painting, clean unit exposed surfaces, vacuum clean coils and inside of cabinets. Clean factoryfinished surfaces. Repair any marred or scratched surfaces with manufacturer's touch-up paint.

START-UP Provide the services of a factory-authorized service representative to start-up AABC: "National Standards for Total System Balance". rooftop units, in accordance with manufacturer's written start-up instructions. Test controls and demonstrate compliance with requirements. Replace damaged or malfunctioning controls and equipment.

TRAINING OF OWNER'S PERSONNEL Provide services of manufacturer's technical representative for 1-half day to instruct Owner's personnel in operation and maintenance of units. Schedule training with Owner, provide at least 7-day notice to Contractor and Engineer of training date. SPARE PARTS

belts for each belt drive power ventilator. Provide one complete extra set of filters for each unit. Install new filters at completion of system work, and prior to testing, adjusting, and balancing

work. Obtain receipt from Owner that new filters have been installed.

23 05 03.00 - SUBMITTALS FOR HVAC

Where submittals are required by the Contract Documents, they shall be prepared and supplied in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of

" section. Where this section exists, it articulates additional requirements for submittals that apply to the work of that Division. The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review.

Some Divisions may include a division-specific "Submittal Requirements for

Requirements Supply submittals for each section: Submittals shall be supplied on a sectionby-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings. Refer to the specifications for identification of which submittals are required for the project. Separate PDF file packages shall be supplied for each section, for each submittal type, where electronic submittals are required. Each PDF shall represent a single standalone submittal.

Separately bound and identified submittals shall be provided where

hardcopies are required. Include a transmittal: Transmittals shall enumerate each submittal for each section of each type and iteration.

Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrs.com.

Include an index: The index shall enumerate the contents of the submittal. Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals 23 07 13.00 – DUCT INSULATION will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. Do not send half the product data as one submittal and the other half as a separate one. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number Original submission, 01 – First Resubmission, 02 – Second Resubmission, etc...). Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The

absence of this on resubmittal is cause for rejection. Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example: The original/first product data submittal for Section 234116 would be labeled as "234116.00-PD-00"; the first resubmittal of same shall be labeled "234116.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "234116.00-SD-00"; the first resubmittal of same shall be labeled "234116.00-

Use of Electronic Drawings from the Owner's Design Team Plan drawings for the Project were created with AutoCAD and Revit. If expressly permitted by the Owner and the terms of the Contract, editable electronic versions of standard-scale, AutoCAD-based plan drawings may be made available for the creation of shop and as-built drawings. Upon request when available, electronic versions of standard-scale, Navisworks (.dwf) and (.nwc) or AutoCAD 36 (.dwg) files may be made

available for coordination purposes. Due to the proprietary nature of internal design systems, editable nativesoftware versions of some drawings, including but not limited to system diagrams and details will not be made available in an editable form. In these cases, electronic versions of the drawings may be made available only in PDF, JPG or similar non-editable electronic form, at the sole discretion of the Design Professional.

The Request Drawings form can be accessed, filled out and submitted at the

Roof Curbs: Furnish roof curbs to roofing Installer for installation. Install and 23 05 29.00 – HANGERS AND SUPPORTS FOR HVAC PIPING AND **EQUIPMENT**

(#14 gage)

31 to 60

according to the table.

Product Data: For each type of product indicated. Shop Drawings: Fabrication and installation details.

Support all ductwork and equipment by hangers or brackets properly from the building structure. Support from decking above is prohibited. Furnish structural steel members where required to support piping and equipment. No portion of piping or valves shall be supported by equipment. Ductwork - Support by means of hangers as follows: Duct Width Hanger Size and Type Max. Spacing 30 or less (#16 gage)

A pair of hangers shall be located at every transverse joint and elsewhere

Shop Drawings: Certified Reports: Submit testing, adjusting, and

23 05 93.00 – TESTING, ADJUSTING AND BALANCING FOR HVAC

balancing reports bearing the seal and signature of the Test and Balance Engineer. The reports shall be certified proof that the systems have been tested, adjusted, and balanced in accordance with the referenced standards; are an accurate representation of how the systems have been installed; are a true representation of how the systems are operating at the completion of the testing, adjusting, and balancing procedures; and are an accurate record of all final quantities measured, to establish normal operating values of the systems. Final Report: Upon verification and approval prepare final reports, type written, and organized and formatted as specified below. 23 09 93.00 – SEQUENCE OF OPERATIONS FOR HVAC CONTROLS Submit 2 complete sets of final report to the owner.

Quality Assurance

Test, adjust, and balance the following mechanical systems: Supply air systems, all pressure ranges

Return air systems Exhaust air systems Verify temperature control system operation. Test systems for proper sound and vibration levels.

Codes and Standards: ASHRAE: ASHRAE Handbook, 2011 Applications, Chapter 38, Testing, Adjusting, and Balancing.

Qualifications The contractor shall procure the services of an independent Balance and Testing Agency, approved by the Engineer, and a member of Associated Air Balance Council (AABC) or NEBB, which specializes in the balancing and testing of heating, ventilating and air conditioning systems, to balance, adjust and test all air and water systems and equipment as herein specified. All work by this agency shall be done under direct supervision of a qualified heating and ventilating Engineer employed by this agency. All instruments used by this agency shall be accurately calibrated and maintained in good working

Sequencing and Scheduling Test, adjust, and balance the air systems before hydronic, steam, and

refrigerant systems. Test, adjust and balance air conditioning systems during summer season and heating systems during winter season, including at least a period of operation at outside conditions within 5 deg F wet bulb temperature of maximum summer design condition, and within 10 deg F dry bulb temperature of minimum winter design condition. Take final temperature readings during

Check all filters for cleanliness, provide new as required. Check dampers (volume and fire) for correct and locked position, and temperature control for completeness of installation before starting fans. Place outlet dampers in full open position. Lubricate all motors and bearings. Check fan belt tension. Check fan rotation.

Air balance and testing shall not begin until the system has been completed and is in full working order. The Contractor shall put all heating, ventilating and air conditioning systems and equipment into full operation and shall continue the operation of same during each working day of testing and balancing. The contractor shall submit within 30 days after receipt of contract, 8 copies of submittal data for the testing and balancing of the air conditioning, heating, and ventilating systems. The Air Balance and Testing Agency shall provide proof of having successfully completed at least five projects of similar size and scope. The air balancing contractor shall include the additional cost to change every fan factory installed sheave, pulley and/or belt of in order to obtain the design air flows.

Performing Testing, Adjusting and Balancing Perform testing and balancing procedures on each system identified, in accordance with the detailed procedures outlined in the referenced standards. Cut insulation, ductwork, and piping for installation of test probes to the minimum extent necessary to allow adequate performance of procedures. Patch insulation, ductwork, and housings, using materials identical to those

Seal ducts and piping, and test for and repair leaks. Seal insulation to re-establish integrity of the vapor barrier. Mark equipment settings, including damper control positions; valve indicators, fan speed control levers, and similar controls and devices, to show final settings. Mark with paint or other suitable, permanent identification materials. Retest, adjust, and balance systems subsequent to significant system

modifications, and resubmit test results.

Submittal Requirements

Product Data: For each product indicated. Shop Drawings: Include plans, elevations, sections, details and attachments to other work.

(for each section and type) shall increment for each subsequent submittal (00 All liners, insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50. Insulation shall have a minimum installed thermal resistance value of R6 or code minimum,

whichever higher. Rigid Fiberglass Ductwork Insulation: Glass fibers bonded with a thermosetting resin. Comply with ASTM C 612, Type IB, without facing and with vapor barrier all-service jacket manufactured from kraft paper, reinforcing

scrim, aluminum foil, and vinyl film. Flexible Fiberglass Ductwork Insulation: Glass fibers bonded with a thermosetting resin. Comply with ASTM C 553, Type II, without facing and with vapor barrier all-service jacket manufactured from kraft paper, reinforcing

scrim, aluminum foil, and vinyl film. Vapor Barrier Material for Ductwork: Paper-backed aluminum-foil, except as otherwise indicated; strength and permeability rating equivalent to factoryapplied vapor barriers on adjoining ductwork insulation, where available; with following additional construction characteristics: High Puncture Resistance: Low vapor transmission (for ducts in exposed

areas: Mech. Rooms, etc.) Moderate Puncture Resistance: Medium vapor transmission (for ducts in

concealed areas). All ductwork shall be insulated except: Double wall ductwork Fabric ductwork

Metal ducts with duct liner of sufficient thickness to comply with energy code. Factory insulated flexible ductwork Factory insulated plenums and casings Flexible connectors

Vibration control devices Factory insulated access panels and doors Supply ductwork exposed in conditioned spaces excluding mechanical rooms, server rooms and electric equipment rooms

Toilet exhaust, general exhaust and return ductwork in an insulated joist or attic space.

All insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50.]

Submittal Requirements Product Data: For each type of product indicated.

Equip control output air line (branch pressure) with either quick-connect test plug or with permanently installed 1-1/2" diameter pressure gage. Provide temperature sensors of rigid-stem type using bimetallic sensing

Replacement Materials: Equip pneumatic damper motors, valve motors, controllers, thermostats and positioning relays with replaceable diaphragms and relay mechanisms. Installation Methods: Install system and materials in accordance with manufacturer's instructions, roughing-in drawings and details on drawings.

Control Air Piping: Provide copper tubing with maximum unsupported length of 3'0". Copper tubing shall be hard drawn copper.

Polyethylene tubing must meet or exceed all local and state fire codes for flame and smoke. Polyethylene tubing shall be allowed in control cabinets and equipment enclosures only.

Pressure Test control air piping at 30 psi for 24 hours. Test fails if more than \$ psi loss occurs. Final Adjustment of Equipment: After completion of installation, adjust thermostats, control valves, motors and similar equipment provided as work of

Final adjustment shall be performed by specially trained personnel in direct employ of manufacturer of primary temperature control system.]

Submittal Requirements Product Data: Provide written sequences of operation for each controlled system and piece of equipment.

CV Kitchen Makeup Air Unit (Gas-Fired, DX, Supply Fan only)

 Startup The makeup air system shall be initiated by an auxiliary contact in the exhaust fan motor starter. See Kitchen Hood Exhaust Fan sequence of operation. At startup, the outdoor air damper shall be fully open. Provide an end switch for proper sequencing of damper operation and energizing of fan motor. The outdoor air damper shall have an end switch which will close a contact only after damper is completely opened. Once the contact is closed the supply fan shall be energized.

Supply Fan Control The supply fan shall run continuously during occupied mode at constant speed. Provide complete interlock with exhaust fan control. When exhaust fan is off, supply fan shall be off.

Supply Air Temperature Setpoint A discharge thermostat (field adjustable) in the makeup air unit supply ductwork shall regulate discharge air temperature by staging multiple gas

On a call for cooling the heating shall be off. On a further call for cooling the mechanical cooling shall be staged on.

Heating Control Natural gas heating valve shall modulate open to maintain supply air temperature setpoint.

Filter Pressure Drop Provide static pressure differential switch across each filter which will alarm the system on high static pressure limits. Smoke Detector

When the smoke detector is alarmed, the system shall be alarmed and the air handler shall fail safe with manual reset. Ansul System Alarm Provide hardwire interlocks for Ansul system activation to shutdown makeup

air unit. Shut Down At shutdown the air handler shall go to fail safe position. Fail safe position is defined by the following: The supply fan is off, the outside air damper is closed and the heating is staged off.

Packaged Rooftop Unit Startup

The unit shall operate on a 7 day/night programmable thermostat. During startup, the fan shall run with the dampers in the full recirculation position. Provide occupied changeover sequence with optimum start function. When the return air temperature reaches occupied setpoint (adjustable), the minimum outside air damper shall open to the controlled minimum outdoor air

Supply Fan Control The supply fan shall be two staged and modulate up and down based on a call for heating or cooling

Space Temperature Control Provide 7-day programmable thermostat with digital display of space temperature and setpoint (+/- deg. F. adjustable), with override feature and remote space temperature sensor. Minimum Outside Air Control

During occupied mode, the minimum outside air damper shall be open to the scheduled minimum outdoor air flow and modulate proportionally with the supply fan speed to maintain the scheduled minimum outside airflow. When the supply fan speed is set to high, outside air damper shall be partially closed allowing minimum outside air flow as scheduled. As supply fan speed is set to low, damper shall fully open allowing minimum outside air flow as scheduled. Provide motor operated dampers.

Economizer Control Provide dual enthalpy economizer control. Economizer control shall be enabled whenever the outside air enthalpy is lower than the return air enthalpy. Enthalpy shall be calculated from sensors which are tied to the same controller for accuracy. During economizer mode, the outside air damper shall modulate to 100% open. The economizer damper shall modulate open on a call for cooling and modulate closed on a call for heating. The return damper shall modulate inversely with the economizer damper. Economizer shall have powered relief.

Cooling Control Cooling shall be controlled to maintain space temperature setpoint. On a call All fresh air intakes and exhaust louvers shall have motor operated dampers. for cooling, the heating shall be off and supply fan speed shall be low. On a Dampers shall be low leak with blade and edge seals. All motor operated further call for cooling, the economizer shall be enabled. On a further call for dampers shall be provided and wired by the mechanical contractor unless cooling, disable the economizer and energize first stage cooling on. On a otherwise noted. Provide all necessary transformers, contactors, controls and further call for cooling, the supply fan speed shall be high and energized second wiring for interlocking equipment to motor operated dampers.

7. Heating Control Heating shall be controlled to maintain space temperature setpoint. On a call for heating, the mechanical cooling shall be off. On a further call for heating, Submittal Requirements the economizer mode shall be disabled. On a further call for heating, the supply fan shall be set to low speed and the gas heating shall be disabled. On a further call for heating, the supply fan shall be set to high speed and the gas heating shall be staged on. On a further call for heating, the supply fan shall be set to high speed.

Dehumidification Provide a hot gas reheat coil or duct mounted electric reheat coil for dehumidification. Provide space humidity sensor. When the space humidity rises above 60% (adjustable), provide full cooling and modulate the hot gas reheat coil to maintain space temperature setpoint. When the space humidity reaches setpoint, resume with normal heating & cooling operation.

Smoke Detector When the smoke detector is alarmed, the system shall be alarmed and the air handler shall fail safe with manual reset. Unoccupied Mode

During the unoccupied mode of operation, the RTU shall go into night setback Night Setback/Shutdown

At night setback/shutdown the RTU shall go to fail safe position. Fail safe position is defined by the following: The supply fan is off, the outdoor air intake damper is closed, the heating is off and the mechanical cooling is off. The supply fan shall cycle in conjunction with either the heating or cooling system to maintain a minimum/maximum space temperature depending on the season.

Toilet Exhaust Fans (Timeclock) Exhaust fans shall be tied to timeclock, which shall be furnished, installed and wired by electrical contractor. When activated, exhaust fan motor damper shall open and fan shall start. (Indicated by EC on HECS schedule)

Kitchen Hood Exhaust Fan Provide heat detector in hood collar interlocked to fan operation The Kitchen Hood exhaust system shall be initiated by the heat detector. Provide indicator light on face of hood. At startup, energize exhaust fan motor. Interlock to makeup air system (whether dedicated makeup air or makeup air Flexible Ducts

from HVAC system), so that makeup air is provided whenever exhaust fan is

The exhaust fan shall run continuously at constant speed. Provide a current transducer to prove fan operation. At shutdown, the exhaust fan shall stop. Provide all controls and wiring for complete interlock and operation of Kitchen Hood, exhaust fan, makeup air unit supply fan and all associated motor

Kitchen Hood Exhaust Fan

Low Voltage Thermostats

Provide heat detector in hood collar interlocked to fan operation. The Kitchen Hood exhaust system shall be initiated by the heat detector. Provide indicator light on face of hood. At startup, energize exhaust fan motor. Interlock to makeup air system (whether dedicated makeup air or makeup air from HVAC system), so that makeup air is provided whenever exhaust fan is

The exhaust fan shall run continuously at constant speed. Provide a current transducer to prove fan operation. At shutdown, the exhaust fan shall stop. Provide all controls and wiring for complete interlock and operation of Kitchen Hood, exhaust fan, makeup air unit supply fan and all associated motor dampers. Controls

Electrical contractor will provide power wiring. HVAC contractor shall provide all the low voltage wiring of HVAC units and controls, thermostats and controllers. Thermostat shall be by the manufacturer of the HVAC unit (heat/cool/auto/off) with night setback. Provide plastic protective cover for all thermostats

Low voltage thermostats shall be furnished, installed and wired by the HVAC

contractor. The electrical contractor shall provide 4" square x 1- 1/2" deep wall

outlet boxes (with single-gang rings) for all thermostats/sensors. The electrical contractor shall provide one 3/4" empty conduit from each thermostat/sensor location, turned out above accessible ceilings (in joist space or against overhead slab/deck). The HVAC/Temperature Control Contractor shall provide all other necessary conduit, raceway and wiring related work. Conduit shall be identified in ceiling cavity and shall be provided with sweep bends, bushings and dragline. The HVAC/Temperature Control Contractor shall coordinate with the General Contractor to ensure thermal envelope is maintained at these locations. General Control Wiring Requirements and Installation Methods Except where specifically indicated otherwise above, the HVAC/Temperature Control Contractor shall provide all electrical work as required for all temperature control related wiring (i.e. conduit, raceway, outlet boxes, junction boxes, wiring, etc.) in accordance with Electrical Specifications requirements.

All conduit shall be 3/4" minimum. Coordinate all thermostat/sensor locations in field (case by case) with Architect, Owner and Electrical Contractor to ensure that they are placed in locations that will not interfere with furniture, equipment, artwork, wall-hung specialties, room finishes, etc. All thermostat/sensor wall locations indicated on HVAC drawings are schematic only and must be verified case-by-case prior to rough-in.

All electrical work as described in this specification shall be per the latest edition of the National Electrical Code (NEC) and per applicable state and

local codes. Where "free-air" installation methods (either exposed above the ceilings, in bridle rings or in cable trays) are permitted under Electrical Specifications above ceilings, provide plenum-rated cables wherever plenum ceilings (if any) exist and install as defined under Electrical Specifications. Install low voltage circuits, located in concrete slabs and masonry walls, in inaccessible locations, or exposed in occupied areas, in electrical conduit regardless of what wiring methods are permitted under Electrical Specifications. Where cable trays or bridle rings are provided by the electrical contractor for low voltage cables, these raceways may be utilized for control wiring by this contractor (provide special color coded jackets, label cable jackets per Electrical Specifications and group control wiring cables together). Provide conduit drops from cable tray/bridle ring paths to wall outlet boxes and equipment unless directed otherwise under Electrical Specifications. Regardless of permitted methods in Electrical Specifications, all cables/wiring installed concealed by gypsum board, masonry or other inaccessible materials in walls or above ceilings shall be installed in conduit, 3/4" minimum. All conduit, bridle rings, raceway, outlet boxes, etc. necessary for complete operational installation of control wiring shall be provided (furnished and installed) by the temperature control contractor in strict compliance with Electrical Specifications documents. Coordinate all work with all other applicable trades including the electrical contractor. Provide all required conduit work to and between equipment in a manner compliant with that described above (i.e. between VAV boxes, to boilers, starters, condensing units, etc. as applicable). Install control wiring without splices between terminal points, color-coded. Install in neat workmanlike manner, securely fastened. Install in accordance with National Electrical Code and per Electrical Specifications. Install circuits over 25 volt with color-coded No. 12 wire in electrical metallic tubing, per Electrical Specifications. Install circuits under 25 volt with colorcoded No. 18 wire with 0.031" high temperature (105 degs. F) plastic

each conductor with plastic-jacketed copper shield over all. Smoke Detector All duct smoke detectors will be furnished by electrical contractor, installed by the HVAC contractor, and wired by the electrical contractor per local codes. HVAC contractor will interlock fan with smoke detector.

insulation on each conductor and plastic sheath over all. Install electronic

circuits with color-coded No. 22 wire with 0.023" polyethylene insulation on

Motor Operated Dampers

23 31 13.00 - METAL DUCTS

Product Data: For liners, adhesives, sealants and gaskets. Shop Drawings: Sheet metal thickness, reinforcing details, duct layouts indicating sizes, configuration, liner material, elevation and static pressure class.

Ductwork Materials Exposed Ductwork Materials: Where ductwork is indicated to be exposed to view in occupied spaces, provide materials which are free from visual imperfections including pitting, seam marks, roller marks, stains and discolorations, and other imperfections, including those which would impair painting. Mechanical contractor shall confirm ductwork paint scope and color with architect. Exposed ductwork which is to be painted shall have paint grip

Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized sheet steel, lock forming quality; with G 90 zinc coating and mill phosphatized for exposed locations. Minimum gauge shall be 24.

Miscellaneous Ductwork Materials Volume Dampers: Provide volume dampers in all branch ducts or as required for balancing to required air flows. Fittings: Provide radius type fittings fabricated of multiple sections with

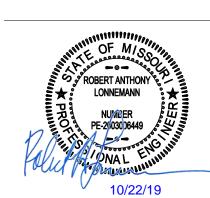
maximum 15 deg. change of direction per section. Unless specifically detailed otherwise, use 45 deg. laterals and 45 deg. elbows for branch takeoff connections. Where 90 deg. branches are indicated, provide conical type Duct Sealant: Non-hardening, non-migrating mastic or liquid elastic sealant,

type applicable for fabrication/installation detail, as compounded and recommended by manufacturer specifically for sealing joints and seams in Duct Cement: Non-hardening migrating mastic or liquid neoprene based cement, type applicable for fabrication/installation detail, as compounded and recommended by manufacturer specifically for cementing fitting components,

or longitudinal seams in ductwork. Ductwork Support Materials: Except as otherwise indicated, provide hotdipped galvanized steel fasteners, anchors, rods, straps, trim and angles for support of ductwork.

CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

P: 859.261.5400 F: 859.261.5530 www.agi-us.com designing where you want to **go**.







FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

MECHANICAL **SPECIFICATIONS**

provide 1" thick 1-1/2 lb. continuous flexible fiberglass sheath with vinyl vapor

Installation is not permitted above drywall ceilings and inaccessible ceilings. Fabrication

Shop fabricate ductwork in 4, 8, 10 or 12-ft lengths, unless otherwise indicated or required to complete runs. All ductwork shall be Pittsburgh Construction with a minimum of thickness of 24 gauge. In addition, ductwork used in systems over 3" W.G. shall have cold sealant applied. Shop fabricate ductwork of gauges and reinforcement complying with SMACNA "HVAC Duct Construction Standards". Lined Duct

Fabricate ductwork with duct liner in each section of duct where indicated. Laminate liner to internal surfaces of duct in accordance with instructions by manufacturers of lining and adhesive, and fasten with mechanical fasteners. Duct liner to be 3-lb density for acoustic requirements 1" thick or as noted. Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used.

Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used. Duct Liner: Fibrous glass of thickness indicated. 3-lb density. All liners, insulation and adhesives shall have a flame spread index not more than 25

and a smoke developed index of not more than 50. Duct Liner Adhesive: As recommended by insulation manufacturer and complying with NFPA 90A or NFPA 90B.

Duct Liner Fasteners: Comply with SMACNA HVAC Duct Construction Standards.

Double Wall Ducts Exposed round and rectangular ductwork and fittings shall be manufactured

or shop-fabricated double wall a minimum G-90 galvanized steel ductwork with 1" fiberglass insulation between the solid outer shell and perforated inner liner. All ducts and fittings shall be construction for SMACNA's latest standards. All gaskets shall be UL listed to conform to ASTM E84-91a and NFPA 90A.

Manufacturers: Subject to compliance with requirements, provide ductwork of one of the following: United-McGills K-27, Lindab Safe, Semco or approved

Installation of Metal Ductwork General: Assemble and install ductwork in accordance with recognized industry practices which will achieve air-tight (5% leakage for systems rated 3" and under; 1% for systems rated over 3") and noiseless (no objectionable noise) systems, capable of performing each indicated service. Install each run with minimum number of joints. Align ductwork accurately at connections, within 1/8" misalignment tolerance and with internal surfaces smooth. Support ducts rigidly with suitable ties, braces, hangers and anchors of type which will hold ducts true-to-shape and to prevent buckling. Support vertical ducts at every floor.

Sealing: Seal all longitudinal seams, S's and drives and all joints with mastic or cement. Install according to SMACNA standards.

Balancing Dampers: The sheet metal contractor shall be fully responsible for installing balancing dampers in the ductwork, (whether shown on the drawing or not) in order to arrive at the intended air flow. The balancing sub-contractor shall provide direction and assistance in determining locations where dampers are required. Additional dampers, if required shall be installed at no

additional cost to the owner. Wall Penetrations: Seal and pack around all ducts and piping sleeves which pass through walls that extend to bottom side of structure and rated walls. Field Fabrication: Complete fabrication of work at project as necessary to match shop-fabricated work and accommodate installation requirements. Routing: Locate ductwork runs, except as otherwise indicated, vertically and horizontally and avoid diagonal runs wherever possible. Run ductwork in shortest route which does not obstruct useable space or block access for servicing building and its equipment. Hold ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building. Limit clearance to 1/2" where furring is shown for enclosure or concealment of ducts, but allow for insulation thickness, if any. Where possible, locate insulated ductwork for 1" clearance outside of insulation. Wherever possible in finished and occupied spaces, conceal ductwork from view, by locating in mechanical shafts, hollow wall construction or above suspended ceilings. Do not encase horizontal runs in solid

partitions, except as specifically shown. Coordinate layout with suspended ceiling and lighting layouts and similar

finished work. Electrical Equipment Spaces: Do not route ductwork through transformer vaults and their electrical equipment spaces and enclosures. Penetrations: Where ducts pass through interior partitions and exterior walls, and are exposed to view, conceal space between construction opening and

duct or duct insulation with sheet metal flanges of same gage as duct. Overlap opening on 4 sides by at least 1-1/2". Fasten to duct and substrate. All dampers shall be low leakage with edge and blade seals. Damper manufacturers are subject to specification compliance. Provide products by one of the following:

Greenheck Fan Corporation Nailor Industries

Ruskin Company Young Regulator Company

Coordination: Coordinate duct installations with installation of accessories, dampers, coil frames, equipment, controls and other associated work of ductwork system. Installation of Duct Liner

General: Install duct liner in accordance with SMACNA HVAC Duct Construction Standards. Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is

Store internally lined ductwork up off of the floor. Protect internally lined ductwork from water and dust. "Butter the leading edge of all internal duct

lining with the manufacturer's recommended adhesive. Inspect and repair all damaged lining prior to installation of ductwork. Installation of Flexible Ducts

Maximum Length: For any duct run using flexible ductwork, do not exceed 5' - 0" extended length. Installation shall have smooth full radius turns down to Installation not permitted above inaccessible ceilings.

23 34 23.00 - HVAC POWER VENTILATORS

Submittal Requirements

disconnect switch.

Product Data: For each type of product indicated. Centrifugal Roof Ventilators

Provide centrifugal roof type, curb mounted, power ventilators of type, size, and capacity as scheduled, and as specified herein. Type: Centrifugal fan, direct or belt driven as scheduled. Provide aluminum, galvanized steel, or fiberglass weatherproof housings as scheduled. Provide square base to suit roof curb. Provide permanent split-capacitor type motor for direct driven fans; capacitor-start, induction-run type motor for belt driven

Provide the Following Types of Housing Design:

Electrical: Provide factory-wired non-fusible type disconnect switch at motor in fan housing. Provide thermal overload protection in fan motor. Provide conduit chase within unit for electrical connection.

Provide NEMA 1 disconnect factory mounted. For single phase fractional HP fans use a toggle type disconnect switch. On three phase integral HP fans use a NEMA 1 safety switch.

Bird Screens: Provide removable bird screens, 1/2" mesh, 16-ga aluminum or brass wire. Dampers: Provide motor-actuated louvered dampers in curb bases. Damper

motor shall be 120V/ 1 phase unless otherwise noted. Provide local

tight seal, motorized, with blade and edge seals. Roof Curb: Provide factory fabricated roof curb by the same manufacturer as

the equipment. Roof curb to be insulated. Manufacturer: Subject to compliance with requirements, provide centrifugal roof ventilators of one of the following:

Cook (Loren) Co.

watertight units.

Pate Co.

Shipman.

Γhycurb.

Twin City Fan & Blower

Prefabricated Roof Curbs General: Provide manufacturer's standard shop-fabricated units, modified if necessary to comply with requirements.

Fabricate structural framing for units of structural quality sheet steel, formed to manufacturer's standard profiles for coordination with roofing, insulation and deck construction. Include 45 deg. cant strips and deck flanges with offsets to accommodate roof insulation. Weld corners and seams to form

Clean and paint units with manufacturer's standard rust-inhibitive metal primer Reinforce continuous runs of over 3'-0" length, by inserting welded stiffeners of heavy gage with flanges as required to provide sufficient rigidity and strength to withstand maximum lateral forces in addition to superimposed

vertical loads. Gage and Height: Fabricate units of metal gage and to height above roof surface as indicated.

Where gage or height are not indicated, fabricate units of 14-ga metal, and nominal height of 14".

Provide pressure treated wood nailer, not less than 1-5/8" thick and of width indicated, but not less than width of support wall assembly. Anchor nailer securely to top of metal frame unit. Provide lumber pressure treated with water-borne preservatives for "above

around" use. Insulate units inside structural support wall with rigid glass fiber insulation board of approximately 3-lb. density and 1-1/2" minimum thickness, except as otherwise indicated

Manufacturer: Subject to compliance with requirements, provide prefabricated roof curbs of one of the following:

Custom Curb, Inc. Equipment Manufacturer. MicroMetl

INSTALLATION Coordinate ventilator work with work of roofing, walls, and ceilings, as necessary for proper interfacing. Provide access door in duct below ventilator to service damper. Solder bottom joints and up 2" of side joints of duct under roof ventilator to

retain any moisture entering ventilator. Manufacturer: Subject to compliance with requirements, provide air terminals of one of the following: Acutherm

Anemostat Products Div., Dynamics Corp. of America. Carnes Co. Krueger

Titus Products Div. E.H. Price Carrier Corp., Sub. of United Technologies Corp. Trane (The) Co.

Tuttle & Bailey

Metal-Aire

Aerolite

Greenheck

acceptable.

Ruskin]

Prefco

Tuttle and Bailey.

Louvers and dampers

one of the following:

Submittal Requirements

Type 1 Commercial Kitchen Hood

Type 1 Kitchen Exhaust Ductwork

Field Quality Control Upon completion of installation and prior to initial operation, test and demonstrate that air terminals, and duct connections to air terminals, are leak-

Repair or replace air terminals and duct connections as required to eliminate leaks, and retest to demonstrate compliance.

23 37 13.00 – DIFFUSERS, REGISTERS AND LOUVERS

Submittal Requirements Product Data: For each type of product indicated.

Titus Products Div., Philips Industries, Inc.

Provide louvers and dampers of size as noted.

DIFFUSERS, GRILLES AND REGISTERS Manufacturer: Subject to compliance with requirements, provide diffusers of one of the following: Anemostat Products Div., Dynamics Corp. of America.

Manufacturer: Subject to compliance with requirements, provide diffusers of

23 38 13.00 - COMMERCIAL KITCHEN HOODS AND DUCTWORK

Refer to food service drawings for equipment furnished by food service

General: Fabricate kitchen exhaust ducts and supports, used for smoke and

black iron where concealed, and of 18-ga minimum stainless steel where

Construction Standards", and NFPA 96 "Removal of Smoke and Grease-

Insulation shall be a lightweight non-asbestos, high temperature, inorganic,

temperature range up to 2000 degrees F. Insulation is a 2 hour fire resistive

exhaust systems to combustible materials. Provide 2 layers of insulation per

filament and 3" aluminum foil tape to seal blanket edges. Provide 304 Carbon

Steel banding for 2 hour ratings, steel angle opening frame, 16 gage access

code. Insulate with two (2) layers of 1-1/2" thickness foil encapsulated fire

resistive duct wrap, total thickness is 3". Install with 1" high performance

cover, ¼" diameter thread rods 5 " long and fire stop materials. Install

For access doors that are part of the tested enclosure system in kitchen

for automatic shutdown of hood exhaust fan. Wiring by electrical contractor.

General: Fabricate dishwasher exhaust ducts and supports, used for vapor

Refer to food service drawings for equipment furnished by food service

Refer to food service drawings for equipment furnished by food service

grease exhaust duct, FireMaster F2-HT-XL3 Access doors are and

ceramic fiber blanket totally encapsulated in foil/scrim having a service

rated grease air duct enclosure as a shaft alternative and a method for

providing zero inch clearances around commercial kitchen grease duct

exposed. For duct construction, comply with SMACNA "HVAC Duct

Provide flexible fire resistive duct enclosure/wrap per ASTM E2336.

Laden Vapors from Commercial Cooking Equipment".

according to manufacturer's installation instructions.

Type 2 Dishwasher Exhaust Ducts

Type 2 Commercial Dishwasher Hood

pitched back to dishwasher.

Kitchen Exhaust Fan

Dishwasher Exhaust Fan

vapor removal from cooking equipment, of 16-ga minimum galvanized steel or

Product Data: For each type of product indicated.

Field Quality Control Testing: After installation of Hood exhaust system has been completed, test each system to demonstrate proper operation of units at performance requirements specified. When possible, field correct malfunctioning units,

tight covers of same material as duct.

then retest to demonstrate compliance. Replace units which cannot be satisfactorily corrected. Provide testing, permits and approvals as required by state and local authorities.

Refer to food service drawings for equipment furnished by food service

Refer to food service drawings for equipment furnished by food service

Combustion efficiency shall be 100% for use with natural gas or propane.

Burners shall be constructed of cast iron pipe with two perforated stainless

A galvanized steel cabinet shall contain the heater's pre-wired controls and

Air pressure switch to prevent unit startup if motor or belts become defective.

Fan interlock to prevent heater ignition when the fan is not operating.

A modulating gas valve with duct sensor to assure an even heat supply.

A flame rod for heater supply shutdown, if pilot is not sensed within ten

Unit shall be equipped with motor operated damper at intake completely

Filtered makeup air units shall have belt driven double width / double inlet,

forward curved centrifugal type supply fans. The entire fan and motor

transmission. Motors shall be permanently lubricated, heavy duty, ball

The fan shaft shall be ground and polished steel mounted in heavy duty,

Pulleys shall be of the fully machined, cast iron type, keyed and securely

Bearings shall be selected for a minimum average life in excess of 200,000

Fan wheels shall be forward curved, constructed of heavy gauge steel and

Filters shall be one inch aluminum mesh and shall be U.L. classified.

and distribution terminal control strip for control wiring connection.

applicable and wired in compliance with National Electric Code.

the requirements, provide Makeup Air Unit of one of the following:

Refer to food service drawings for equipment furnished by food service

General: Fabricate joints and seams with continuous welds for watertight

construction. Provide for thermal expansion of ductwork through 2000 deg. F

temperature range. Install without dips or traps which may collect residues,

except where traps have continuous or automatic residue removal. Provide

access openings at duct connection to hood and at each change in direction,

located on sides of duct 1-1/2" minimum from bottom, and fitted with grease-

General: Fabricate joints and seams with continuous welds for watertight

construction. Install without dips or traps, which may collect residues, pitch

The prewired control center shall include and integral master disconnect

switch with fuse blocks for main power connection, magnetic motor starters

with thermal overloads and manual reset, fused 120 volt control transformer,

All electrical components shall be U.L. listed, approved or classified where

Wiring shall be complete, requiring only one-point field connection for power

Manufacturer: Subject to compliance with the requirements, prompliance with

bearing type, carefully matched to the fan load and furnished at the specified

assembly shall be mounted on vibration isolators to prevent noise

Makeup Air Unit

supply connection.

steel combustion baffles.

seconds after activation

Damper shall be low leak type.

voltage, phase and enclosure.

hours at maximum operating speeds.

attached to the wheel and motor shafts.

statically and dynamically balanc operation.

and one-point field connection for low voltage.

Installation of Type 1 Kitchen Exhaust Ducts

Installation of Type 2 Dishwasher Exhaust Ducts

sized for a minimum of 150% of driven horsepower.

sealed ball bearings.

Applied Air

Greenheck

Captive Aire

Fire Protection System

towards dishwasher.

Reznor

Inspection

Trane

gas piping.

Provide propane conversion kit as required.

Heater shall have a turn down ratio of 20:1.

A high limit control to prevent overheating.

Main and pilot gas valves to regulate gas flow.

Frames shall be constructed of galvanized steel.

Blades shall be aluminum with felt strips on closing edges.

Safety and design features shall include the following:

Adjusting and Cleaning Clean factory-finished surfaces. Repair any marred or scratched surfaces.

Inspection Installation

Coordinate work with work of roofing, walls, and ceilings, as necessary for proper interfacing. Duct connections to be provided by the HVAC contractor. The termination of kitchen exhaust outlets shall not be less than 10 feet horizontally from parts of the same or contiguous buildings, adjacent property

lines and air intakes. Outlet shall not be less than 10 feet vertically above adjoining grade level. Ensure that rotation is in direction indicated and intended for proper

Do not proceed with centrifugal fan start-up until wiring installation is acceptable to fan Installer.

23 74 33.00 - PACKAGED OUTDOOR ROOFTOP UNITS

Product Data: For each type of product indicated.

Warranty Warranty on Compressor and Heat Exchanger: Provide written warranty, signed by manufacturer, agreeing to replace/repair, within warranty period, compressors and heat exchangers with inadequate and defective materials and workmanship, including leakage, breakage, improper assembly, or failure to perform as required; provided manufacturer's instructions for handling, installing, protecting, and maintaining units have been adhered to during warranty period. Replacement is limited to component replacement only, and does not include labor for removal and reinstallation. Warranty Period: 5 years from date of owner acceptance.

STAGED VOLUME General: Rooftop unit shall be factory-assembled and tested, designed for roof or slab installation and, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and Provide a manual reset fire stat mounted in the exhaust duct above the hood temperature controls, filters, and dampers. Capacities and electrical characteristics are scheduled. Casing manufacturer's standard casing construction, having corrosion protection coating, and exterior finish. Casings shall have removable panels or access doors for inspection and access to removal, of 22-ga minimum stainless steel. For duct construction, comply with internal parts, a minimum of 1" thick thermal insulation, knockouts for SMACNA "HVAC Duct Construction Standards". Ducts shall be welded, and electrical and piping connections, and an exterior condensate drain connection, and lifting lugs.

Unit casing shall have double wall construction with foam injected panels. Roof Curbs: Manufacturer's standard construction, insulated and having corrosive protective coating, complete with factory-installed wood nailer and drain nipple. Construction shall be in accordance with NRCA Standards. Evaporator Fans: Forward-curved, centrifugal, belt-driven fans with adjustable sheaves; and permanently lubricated motor bearings.

Condenser fans: Propeller-type, direct-driven fans with permanently lubricated

Coils: Aluminum plate fin and seamless copper tube type. Fins shall have collars drawn, belled and firmly bonded to the tubes by means of mechanical expansion of the tubes. No soldering or tinning shall be used in the bonding Unit shall have indirect fired gas heater completely installed and wired for gas process. Coils shall have a galvanized steel casing. Coils shall be mounted in the coil casing with same end connections accessible for service. Coils shall be removable from the unit through the roof or through the piping enclosure. Coil section shall be completely insulated.

Phenolic Coating – Finned tube coils shall be protected with a pure phenolic thermosetting resinous coating. Metal preparation to provide a surface profile shall include degreasing and etching or phosphatizing by immersion. The coating shall be applied in multiple coats by immersion. After each immersion. the coating shall be partially cured in an oven. Following the final immersion and the application of one (1) spray coat, the coating shall be totally cured in an oven. The total D.F.T. of the coating shall be approximately 2 mils. D.F.T. varies depending upon fin spacing and the number of tube rows in depth. The coating shall withstand dry heat up to 205 degrees Celsius (400 degress Fahrenheit), and show no sign of attack after 3,000 hours of salt spray test to A.S.T.M. Specification B117. The coating shall be Heresite P-413C baking phenolic with plasticizer or approved equal.

Refrigerant cooling coils: have an equalizing type vertical distributor to ensure each coil circuit receives the same amount of refrigerant. Coils shall be proof (450 psig) and leak (300 psig) tested with air pressure under water, then cleaned, dehydrated, and sealed with a holding charge of nitrogen. Condensate Pan: Provide IAQ steel, double sloping drain pain. Provide high condensate in primary condensate pan to de-energize unit upon detection of high condensate levels.

Compressors: Serviceable, semi-hermetic, or hermetic compressors with integral vibration isolators, and crankcase heaters, which de-energize during compressor operation. Units shall also have: Lead compressor shall be 2-stage.

Safety Controls: low pressure cutout, manual reset; high pressure cutout, manual reset; compressor motor overload protection, manual reset; anti-recycling timing device; Motor sheaves shall be adjustable for final system balancing. Drives shall be adjustable low-ambient lockout; oil pressure switch. Controls: redundant gas valves: Housing construction shall be heavy gauge galvanized steel with removable intermittent pilot ignition; panels for access to fan and tempering unit components, filters and controls. electronic spark ignition system; high limit cutout; forced draft proving switch;

flame roll-out switch. Enthalpy Economizer Control: Provide dual enthalpy economizer control. Provide return and outside air dampers, outside air filter, fully modulating electric control system with dry control, and adjustable mixed-air thermostat. System shall be capable of driving 100% closed for unoccupied mode, minimum outside air position and modulation to 100 percent open outside air capability. Provide automatic changeover through adjustable control device.

Economizer Fault Detection and Diagnostics - Provide fault detection and diagnostics to monitor outside airflow temperature, return airflow temperature, supply airflow temperature, refrigerant gas and liquid pressures. Unit controller shall provide status of available free cooling, enabled economizer, enabled compressor(s), enabled heating, mixed air low limit cycle and current value of all sensors. Provide manual override of each operating mode (occupied and unoccupied heating and cooling, economizer and shutdown) for testing and verification. System shall be able to detect air temperature sensor failure, not economizing when unit should be or shouldn't be, dampers not modulating and excessive outside air. Temperature sensors shall have an accuracy of +/-2 deg. F across the range of 40. deg F to 80 deg. F. Refrigerant pressure sensors shall have an accuracy of +/- 3%. Faults shall be annunciated at unit's thermostat.

Heating Types: Temperature Control:

Temperature control: factory-installed, demand-oriented solid-state control system above 5 tons shall have minimum of 2 cooling steps and 2 heating steps. Controls shall include solid-state thermostats with dead-band, and subbase with system and fan switches. Other control features include:

Barometric Relief - Shall include relief damper section with mist eliminator. Dampers open to relieve positive pressure within the building. Available only with economizer Power Exhaust Fan – Shall be factory installed for units larger than 5 tons. Shall

include relief damper section with mist eliminator. Dampers open to relieve

positive pressure within the building. Available only with economizer. Provide air filters to fit in filter box, with a Maximum filter face velocity of 500 fpm, of the following type:

Disposable Type: Provide 30% efficient disposable type air filters 2" thick, consisting of viscous coated fibers with filtering media encased in fiberboard cell sides having perforated metal grids on each side to provide media support.

Hail guards protecting the condenser fins. Controls:

Self Contained: Programmable Electronic Night Setback Thermostat - Shall provide heating setback and cooling setup with 7-day, programming capability. Optional remote sensor available. Manufacturers: Subject to compliance with requirements, provide rooftop units of one of the following:

Carrier Air Conditioning, Div of Carrier Corp. Lennox Industries Inc. Trane; a division of Ingersoll Rand. Daikin

CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to go.

WWW.KLHENGRS.COM



FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

MECHANICAL **SPECIFICATIONS**



CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LIGHTING GENERAL NOTES

SHALL BE THRU-WIRING WHEREVER POSSIBLE. MULTIPLE
CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR VOLTAGE DROP
CONDITIONS OR AS A RESULT OF A FIELD CONDITION ARE
ACCEPTABLE. LIGHTING FIXTURES SHALL BE MANUFACTURED TO
ACCOMMODATE THRU-WIRING, ANY RELATED COSTS FOR

ACCOMMODATE THRU-WIRING, ANY RELATED COSTS FOR MULTIPLE CONNECTIONS SHALL BE INCLUDED IN BID. WHERE CEILING SYSTEMS ARE FIRE RATED, COORDINATE RECESSED LUMINAIRE REQUIREMENTS WITH OWNER AND SUPPLIER TO MAINTAIN THE FIRE RATING OF THE CEILING. WHERE DRYWALL CEILINGS ARE USED, ARRANGE CIRCUITS TO

BE LIMITED TO LOCATIONS NEAR ACCESS FRAMES USED FOR DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS. IF PLAN LOCATION IS NOT ACCEPTABLE,

IMMEDIATELY CONTACT FIRST WATCH PROJECT MANAGER FOR DIRECTION. DISCONNECT AND DISCARD ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES, WIRING, CONDUIT, LIGHT FIXTURES, ETC. NOT BEING

REUSED.

NM CABLE IS NOT PERMITTED FOR USE ON THIS PROJECT.

ALL WIRING DEVICES (RECEPTACLES, SWITCHES, ETC.) AND
COVERPLATES SHALL BE WHITE.

EXIT/EMERGENCY LIGHTS SHALL BE CEILING MOUNTED AND
CENTERED OVER OPENINGS. IF PLAN LOCATION IS NOT
ACCEPTABLE, IMMEDIATELY CONTACT PROJECT MANAGER FOR
DIRECTION

ACCEPTABLE, IMMEDIATELY CONTACT PROJECT MANAGER FOR DIRECTION.

EXIT SIGNS AND NORMAL EGRESS LIGHTING SHALL REMAIN ILLUMINATED AT ALL TIMES.

EMERGENCY BATTERY BALLASTS SHALL BE PROVIDED WITH AN UNSWITCHED "HOT" TO PROVIDE CONTINUOUS POWER TO BALLAST EVEN WHEN FIXTURE IS SWITCHED OFF.

EMERGENCY EGRESS LIGHTING SHALL BE MAINTAINED AT A LEVEL OF 1 FOOT-CANDLE (MINIMUM) AT THE WALKING SURFACE LEVEL. NIGHT LIGHTS SHALL BE WIFED AHEAD OF SWITCHING.

NIGHT LIGHTS SHALL BE WIRED AHEAD OF SWITCHING. COORDINATE ALL LIGHTING LOCATIONS WITH ARCHITECTURAL

SHEET A103.
CONFIRM LOCATION AND QUANTITY OF JUNCTION BOXES FOR LIGHTING FIXTURES IN DINING AREAS WITH PM PRIOR TO COMMENCEMENT OF WORK.

A - 24

106

A - 22 REM

EXISTING EXTERIOR LIGHTING SHALL REMAIN

WAITING/HOSTESS

A - 24 Ď 🛂

0

101

~

A - 24 2

102A

0

0

MEN'S TOILET ROOM

COUNTER SERVICE

A - 14

^AO

ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

L10

REM

O

0

REM

ENTRY VESTIBULE

AVOID THE USE OF JUNCTION BOXES IN INACCESSIBLE LOCATIONS. THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILINGS SHALL

LUMINAIRES SHOWN BOLD AND SOLID ARE NEW. REFER TO LUMINAIRE SCHEDULE ON SHEET E105 FOR SPECIFICATIONS. LIGHTING SHALL BE CIRCUITED AS SHOWN ON PLANS. CIRCUITING

TOP OF GLAZING AT STOREFRONT. VERIFY EXACT LOCATION.

RECEPTACLE SHALL BE CIRCUITED THROUGH LIGHTING CONTROLS. PROVIDE WEATHERPROOF JUNCTION BOX, DISCONNECT SWITCH AND FINAL CONNECTION FOR STOREFRONT SIGNAGE. PROVIDE WEATHERPROOF PHOTOCELL ON ROOF, FACING NORTH AND FREE FROM SHADING, FOR CONTROL OF SIGNAGE. CONNECT SIGNAGE THROUGH LIGHTING CONTROLS. SIGNAGE SHALL BE "ON" AFTER BUSINESS HOURS AND "OFF" AT MIDNIGHT (COORDINATE ON/OFF TIME WITH OWNER PRIOR TO PROGRAMMING LIGHTING CONTROLS). COORDINATE SCHEDULING WITH OWNER AND LANDLORD.

HOOD LIGHTING SUPPLIED WITH HOOD BY HOOD MANUFACTURER, WIRED BY ELECTRICAL CONTRACTOR.

REFER TO DIGITAL SWITCH DETAIL ON SHEET E105 FOR MORE INFORMATION. LOCATION OF LOW-VOLTAGE MASTER ON/OFF DIGITAL SWITCH FOR

LIGHTING CONTROL. REFER TO DIGITAL SWITCH DETAIL ON SHEET E105 FOR MORE INFORMATION.

LOCATION OF WATTSTOPPER LIGHTING CONTROLS. REFER TO LIGHTING CONTROL PANEL DETAIL ON SHEET E105 FOR MORE INFORMATION AND SPECIFICATION. PROVIDE NEW LIGHTING CONTROL PANEL PER ZONE

SCHEDULE SHEET. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR (WATTSTOPPER DT-300 SERIES) FOR CONTROL OF RESTROOM LIGHTING. SET TIME DELAY ON OCCUPANCY SENSOR TO 10 MINUTES. OCCUPANCY SENSORS SHALL BE MOUNTED IN CEILING. REFER TO PRODUCT DOCUMENTATION FOR MORE INFORMATION. REFER TO DETAIL FOR MORE INFORMATION ON

PROVIDE WALL MOUNTED INFRARED OCCUPANCY SENSOR (WATTSTOPPER PW-100) FOR CONTROL OF OFFICE LIGHTING. SET TIME

DELAY ON SENSOR TO 10 MINUTES. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS (WATTSTOPPER DT-300 SERIES) FOR OVERRIDE OF KITCHEN LIGHTING. SET TIME DELAY ON OCCUPANCY SENSOR TO 30 MINUTES. INTERLOCK ALL OCCUPANCY SENSORS IN THIS ROOM SO THAT ANY ONE SENSOR CONTROLS THE KITCHEN LIGHTING WHILE THE SPACE IS OCCUPIED.

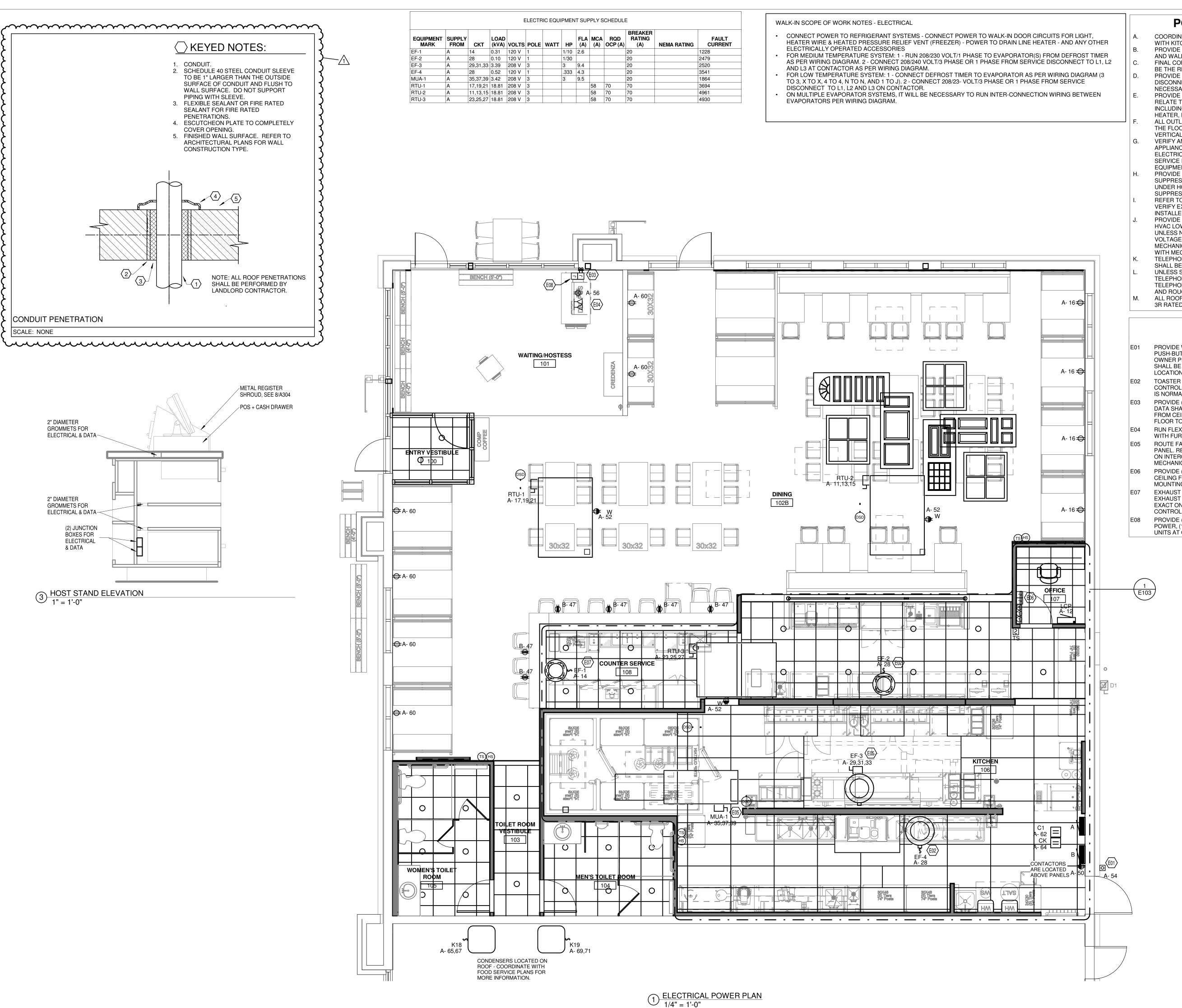
KEYED NOTES

RECEPTACLE FLUSH MOUNTED IN ACT CEILING, MOUNTED WITHIN 18" OF

LOCATION OF LOW-VOLTAGE DIGITAL SWITCH FOR LIGHTING CONTROL.

CONTROL OF FAN AND LUMINAIRES.

L10 REFER TO KITCHEN PLAN FOR LIGHTING IN THIS AREA.



POWER GENERAL NOTES

COORDINATE ALL KITCHEN RECEPTACLE LOCATIONS AND HEIGHTS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ALL SAW CUTTING AND PATCHING OF EXISTING FLOORS AND WALLS AS REQUIRED FOR INSTALLATION OF HIS WORK. FINAL CONNECTIONS FOR ALL FOOD SERVICE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE ALL ELECTRICAL ROUGH-INS, OUTLETS, SWITCHES,

DISCONNECTS, CORDS AND PLUGS, AND OTHER SIMILAR ITEMS NECESSARY TO MAKE FOOD SERVICE EQUIPMENT OPERATIONAL. PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS AS THEY RELATE TO WALK-IN AND REMOTE REFRIGERATION SYSTEM INCLUDING: LIGHTS, BLOWER COIL, DEFROST COIL, DRAIN LINE HEATER, DOOR HEATER AND COMPRESSORS.

THE FLOOR ARE TO BE 5" TO THE TOP OF THE BOX AND MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED.

VERIFY AND PROVIDE EXACT NEMA CONFIGURATION TO MATCH APPLIANCE PLUGS, CORD AND PLUG TO BE PROVIDED BY ELECTRICAL CONTRACTOR WHEN NOT PROVIDED BY FOOD SERVICE EQUIPMENT MANUFACTURER, COORDINATE WITH EQUIPMENT INSTALLER.

PROVIDE SHUNT-TRIP BREAKERS FOR EXHAUST HOOD FIRE SUPPRESSION SYSTEMS. ALL ELECTRICAL APPLIANCES & OUTLETS UNDER HOOD MUST SHUT DOWN UPON ACTIVATION OF SUPPRESSION SYSTEM.

INSTALLER, PRIOR TO ROUGH-IN. PROVIDE JUNCTION BOX AND RACEWAY FOR THERMOSTATS AND HVAC LOW VOLTAGE CONTROLS AND SENSORS AT 48" A.F.F. UNLESS NOTED OTHERWISE. THERMOSTATS AND HVAC LOW VOLTAGE CONTROLS AND SENSORS INSTALLED AND WIRED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATIONS

UNLESS SPECIFICALLY NOTED OTHERWISE, ALL DATA AND

ALL ROOFTOP DISCONNECTS AND TOGGLE SWITCHES TO BE NEMA

KEYED NOTES

PROVIDE WEATHERPROOF JUNCTION BOX FOR DOOR BUZZER PUSH-BUTTON, COORDINATE ALL DOOR BUZZER REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION. JUNCTION BOX FOR DOOR BUZZER SHALL BE INSTALLED AT EXTERIOR DOOR LOCATION. COORDINATE FINAL

TOASTER EXHAUST FAN AND DISHWASHER EXHAUST FAN SHALL BE IS NORMALLY OCCUPIED, THE EXHAUST FANS WILL BE ENERGIZED. PROVIDE (2) SURFACE MOUNTED CONDUITS, (1) FOR POWER, (1) FOR

FLOOR TO JUNCTION BOXES IN CASHWRAP. RUN FLEX CONDUIT THROUGH TOE-SPACE OF FIXTURE. COORDINATE

ROUTE FAN AND MAKE-UP AIR UNIT CIRCUIT THRU HOOD CONTROL PANEL. REFER TO FOOD SERVICE CIRCUITING DIAGRAM FOR MORE INFO ON INTERCONNECTIONS BETWEEN HOOD CONTROL PANEL AND

CEILING FOR MUSIC SYSTEM VOLUME CONTROLS. VERIFY EXACT MOUNTING HEIGHT AND LOCATE ADJACENT TO THERMOSTATS. EXHAUST FAN SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL. EXHAUST FAN SHALL OPERATE DURING BUSINESS HOURS. COORDINATE EXACT ON/OFF SCHEDULING WITH OWNER. REFER TO LIGHTING

CONTROL ZONE SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE (2) JUNCTION BOXES SURFACE MOUNTED TO FIXTURE, (1) FOR POWER, (1) FOR DATA/TELEPHONE, FOR WHIP CONNECTIONS TO POS

ALL OUTLETS AND JUNCTION BOXES THAT ARE STUBBED OUT OF

REFER TO SHEET E103 FOR KITCHEN EQUIPMENT SCHEDULE,

VERIFY EXACT REQUIREMENTS WITH KITCHEN EQUIPMENT

WITH MECHANICAL CONTRACTOR, TYPICAL. TELEPHONE AND DATA CABLING SHALL BE CAT5e CABLE AND SHALL BE BY THE G.C.

TELEPHONE LOCATIONS SHALL RECEIVE 2 DATA DROPS AND 2 TELEPHONE DROPS - COORDINATE WITH OWNER PRIOR TO BID AND ROUGH-IN.

LOCATION OF BUZZER PRIOR TO ROUGH-IN WITH PROJECT MANAGER.

CONTROLLED VIA LIGHTING CONTROL PANEL SO THAT WHEN THE SPACE DATA SHALL BE SURFACE MOUNTED TO FULL HEIGHT FIXTURE AND RUN FROM CEILING TO FLOOR. SAW-CUT SLAB AND ROUTE CONDUITS FROM

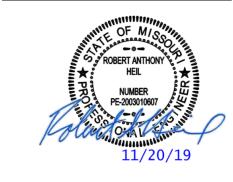
WITH FURNITURE MANUFACTURER'S REPRESENTATIVE.

PROVIDE (5) 2"X4"X2" J-BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE

CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

04/17/2020





MECHANICAL/ELECTRICAL ENGINEERS

WWW.KLHENGRS.COM

1538 ALEXANDRIA PIKE, SUITE

41075 800-354-9783

859-442-8050 859-442-8058 FAX LEXINGTON, KENTUCKY

COLUMBUS, OHIO NEW YORK, NEW YORK This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request. Scales as stated hereon are valid on the original drawing only. Contractor shall carefully review all dimensions and conditions shown hereon and at once report to the Architect any error, inconsis-

Revisions:

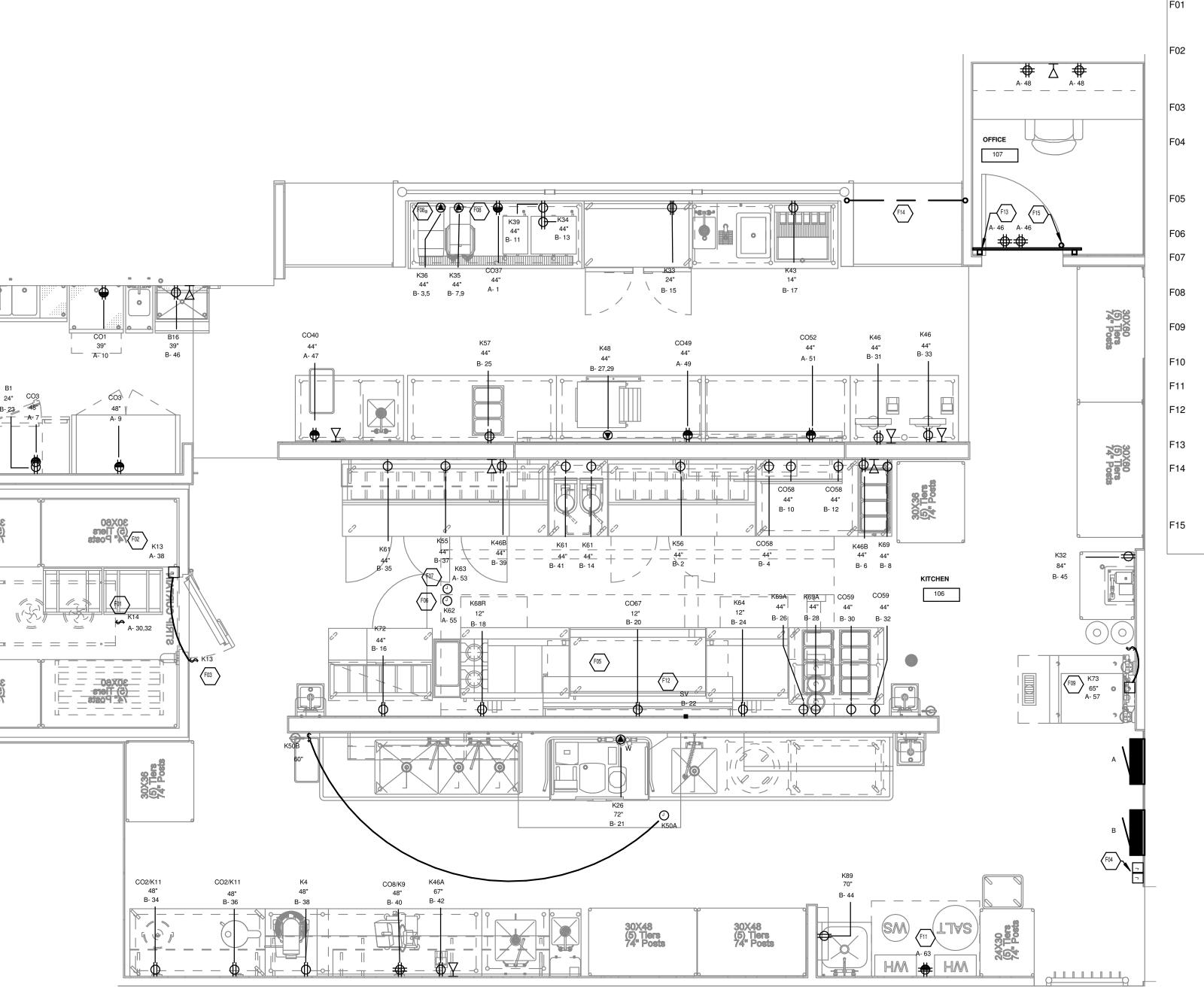
tancy or omission he may discover.

REV 1 - PERMIT & LL COMMENTS



FIRST WATCH LEE'S SUMMIT LEE'S SUMMIT, MO

ELECTRICAL POWER PLAN



1 ELECTRICAL ENLARGED KITCHEN PLAN
3/8" = 1'-0"

B- 19

A- 5

COUNTER SERVICE

KEYED NOTES

PROVIDE 4X4X2 JUNCTION BOX, WEATHER PROOF DISCONNECT SWITCH AND FINAL CONNECTION FOR WALK-IN COOLER/FREEZER REFRIGERATION UNIT. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN. PROVIDE JUNCTION BOX AND FINAL CONNECTION FOR WALK-IN COOLER/FREEZER LIGHTS AND/OR DOOR HEATER. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH FOOD SERVICE PLANS. PROVIDE J-BOX AND MAKE FINAL CONNECTION TO CONDENSATE LINE HEAT TRACE TAPE FOR FREEZER LIGHTS.

SWITCH AND LIGHT PROVIDED WITH KITCHEN EQUIPMENT, PROVIDE 120V CIRCUIT AS INDICATED. COORDINATE INSTALLATION WITH EQUIPMENT

PROVIDE EMPTY OCTAGON BOX FOR MECHANICAL MANUAL PULL STATION (PULL STATION FURNISHED BY OTHERS) FOR HOOD FIRE PROTECTION SYSTEM (MOUNTED AT 48" ABOVE FINISHED FLOOR, VERIFY HEIGHT IN FIELD) WITH (1) 1/2" EMPTY CONDUIT ROUTED UP AND OVER

INSTALLER.

TO HOOD AS DIRECTED BY HOOD VENDOR IN FIELD (W/SWEEP 90'S). ALL KITCHEN EQUIPMENT LOCATED UNDER KITCHEN HOOD SHALL BE CONNECTED TO A SHUNT-TRIP CONTROLLED CONTACTOR. REFER TO DETAIL ON ELECTRICAL DETAILS SHEET FOR MORE INFORMATION. PROVIDE ALL REQUIRED CONNECTIONS FOR THE FIRE SUPPRESSION

PROVIDE DEDICATED CIRCUIT FOR EXHAUST HOOD LIGHTS AND HOOD CONTROLS. REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE HOOD AND HOOD CONTROLS. PROVIDE RECEPTACLE AND MATCHING PLUG WITH 8' CORD (VERIFY NEMA CONFIGURATION WITH EQUIPMENT INSTALLER) FOR CONNECTION

PROVIDE LOCAL DISCONNECTING MEANS, FLEXIBLE WHIP AND MAKE FINAL CONNECTION TO ICE MACHINE. COORDINATE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE J-BOX AND MAKE FINAL CONNECTION TO CONDENSATE LINE HEAT TRACE TAPE.

PROVIDE A SURFACE MOUNTED WATERPROOF, GFCI QUAD RECEPTACLE AT 72" AFF. FOR WATER HEATER CONTROL CIRCUIT.

PROVIDE POWER FOR SOLENOID FOR GAS LINE SHUT OFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING DRAWINGS. REFER TO ELECTRICAL SPECIFICATION FOR MORE INFORMATION. REFER TO SHEET E-104 FOR MORE INFORMATION ON TELEPHONE ROUTE CONDUIT FROM PIPE WALL (HALF WALL), UP THROUGH PIPE TO ABOVE CEILING LEVEL, OVER TO NEAREST FULL HEIGHT WALL, AND TO

ELECTRICAL PANELS AND TELEPHONE BOARD AS REQUIRED. PROVIDE

ALL REQUIRED CONDUIT AND FEEDERS FOR POWER AND DATA SHOWN (ONLY 1 CONDUIT SHOWN FOR ROUTING PURPOSES). PROVIDE 2" CONDUIT WITH WEATHERHEAD FOR (2) 4G ANTENNAS AND (1) CELLULAR BOOSTER. PROVIDE BUSHINGS ON EACH END. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

INSECT LIGHT TRAP

120 V/1-300 VA

CO52

CO58

CO67

KITCHEN POWER GENERAL NOTES COORDINATE ALL KITCHEN RECEPTACLE LOCATIONS AND HEIGHTS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. MOUNTING HEIGHTS SHOWN REFER TO THE CENTER POINT OF THE PROVIDE ALL SAW CUTTING AND PATCHING OF EXISTING FLOORS AND WALLS AS REQUIRED FOR INSTALLATION OF HIS WORK.
ALL 15A. 1P. AND 20A. 1P. CIRCUITS SERVING KITCHEN AND PREP
AREAS SHALL GFCI PROTECTED (EITHER BY A GFCI RECEPTACLE IN A READILY ACCESSIBLE LOCATION OR GFCI CIRCUIT BREAKER).
FINAL CONNECTIONS FOR ALL FOOD SERVICE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
PROVIDE ALL ELECTRICAL ROUGH-INS, OUTLETS, SWITCHES, DISCONNECTS, CORDS AND PLUGS, AND OTHER SIMILAR ITEMS NECESSARY TO MAKE FOOD SERVICE EQUIPMENT OPERATIONAL. PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS AS THEY RELATE TO WALK-IN AND REMOTE REFRIGERATION SYSTEM INCLUDING: LIGHTS, BLOWER COIL, DEFROST COIL, DRAIN LINE HEATER, DOOR HEATER AND COMPRESSORS.
ALL OUTLETS AND JUNCTION BOXES THAT ARE STUBBED OUT OF THE FLOOR ARE TO BE 5" TO THE TOP OF THE BOX AND MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED. PROVIDE EXACT NEMA CONFIGURATION TO MATCH APPLIANCE PROVIDE SACT NEMA CONTRIGATION TO MAINTAINCE
PLUGS. CORD AND PLUG TO BE PROVIDED BY ELECTRICAL
CONTRACTOR WHEN NOT PROVIDED BY FOOD SERVICE EQUIPMENT
MANUFACTURER, COORDINATE WITH EQUIPMENT INSTALLER.
PROVIDE SHUNT-TRIP BREAKERS FOR EXHAUST HOOD FIRE
SUPPRESSION SYSTEMS. ALL ELECTRICAL APPLIANCES & OUTLETS UNDER HOOD MUST SHUT DOWN UPON ACTIVATION OF SUPPRESSION PROVIDE JUNCTION BOX AND RACEWAY FOR THERMOSTATS AND HVAC LOW VOLTAGE CONTROLS AT 48" A.F.F. THERMOSTATS AND HVAC LOW VOLTAGE CONTROLS INSTALLED AND WIRED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR, TYPICAL TELEPHONE AND DATA CABLING SHALL BE CAT5e CABLE AND SHALL UNLESS SPECIFICALLY NOTED OTHERWISE, ALL DATA AND

TELEPHONE LOCATIONS SHALL RECEIVE 2 DATA DROPS AND 2
TELEPHONE DROPS - COORDINATE WITH OWNER PRIOR TO BID AND

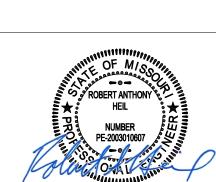
KITCHEN EQUIPMENT SCHEDULE - FW MOUNTING FIXTURE ID DESCRIPTION ELECTRICAL DATA NEMA HEIGHT COMMENT BACK BAR COOLER NEMA 5-15R CORD & PLUG 120 V/1-684 VA MOUNT HORIZONTALLY; VERIFY BAR POS STATION 120 V/1-180 VA NEMA 5-20R ELECTRICAL REQUIREMENTS WITH OWNER BACK BAR COOLER NEMA 5-15R 120 V/1-360 VA **CORD & PLUG** PUT ON 20 AMP DEDICATED CIRCUIT BAR CONVENIENCE 120 V/1-180 VA NEMA 5-20R RECEPTACLE MOUNT HORIZONTALLY. CORD & PLUG; PLUG INTO OUTLET CO2 CO2/K11 120 V/1-1260 VA NEMA 5-20R BACK BAR CONVENIENCE 120 V/1-180 VA PUT ON 20 AMP DEDICATED CIRCUIT NEMA 5-20R RECEPTACLE CO8/K9 SLICER, FOOD 120 V/1-360 VA **NFMA 5-15F** CONVENIENCE OUTLET 120 V/1-180 VA NEMA 5-20R PT ON 20 AMP DEDICATED CIRCUIT CONVENIENCE OUTLET 120 V/1-180 VA NEMA 5-20R PUT ON 20 AMP DEDICATED CIRCUIT CONVENIENCE OUTLET PUT ON 20 AMP DEDICATED CIRCUIT 120 V/1-180 VA **NEMA 5-20R** CONVENIENCE OUTLET 120 V/1-180 VA PUT ON 20 AMP DEDICATED CIRCUIT NEMA 5-20R CONVIENCE OUTLET 120 V/1-180 VA NEMA 5-20R NEMA 5-20R CONVENIENCE OUTLET 120 V/1-180 VA PUT ON 20 AMP DEDICATED CIRCUIT NEMA 5-20R K67 IS PULGGED INTO THIS RECEPTACLE GRIDDLE, GAS 120 V/1-480 VA MIXER, PLANETARY 120 V/1-1800 VA NEMA 5-15R CORD & PLUG WALK-IN COOLER LIGHTING 120 V/1-200 VA FOR LIGHTS; REFER TO FOOD SERVICE **DRAWINGS** FOR LIGHTS; REFER TO FOOD SERVICE WALK-IN FREEZER; 120 V/1-600 VA DRAWINGS LIGHTING WAREWASHER, DOOR VERIFY ELECTRICAL REQUIREMENTS WITH 120 V/1-2760 VA TYPE, LOW TEMP OWNER BIB SODA SYSTEM & NEMA 5-20R VERIFY ELECTRICAL REQUIREMENTS WITH 120 V/1-1440 VA SODA VENDOR CARBONATORS REFRIGERATOR; WORK-TOP 120 V/1-660 VA NEMA 5-15R CORD & PLUG VERIFY ELECTRICAL REQUIREMENTS WITH HOT CHOCOLATE MACHINE | 120 V/1-1680 VA NEMA 5-15R VENDOR COFFEE BREWER, DECAF 208 V/2-3328 VA NEMA L14-20R VERIFY ELECTRICAL REQUIREMENTS WITH VERIFY ELECTRICAL REQUIREMENTS WITH COFFEE BREWER 208 V/2-4784 VA NEMA L14-30R VERIFY ELECTRICAL REQUIREMENTS WITH ICED TEA BREWER 120 V/1-1728 VA NEMA 5-15R DISPENSER, ICE/BEVERAGE 120 V/1-600 VA VERIFY ELECTRICAL REQUIREMENTS WITH NEMA 5-20R OWNER NEMA 5-20R VERIFY ELECTRICAL REQUIREMENTS WITH POS SYSTEM 120 V/1-180 VA FUSION PRINTER W/ DATA 120 V/1-180 VA NEMA 5-20R VERIFY ELECTRICAL REQUIREMENTS WITH 120 V/1-180 VA VERIFY ELECTRICAL REQUIREMENTS WITH KDS SYSTEM NEMA 5-20R VENDOR NEMA 6-30R TOASTER, CONVEYOR 208 V/2-4804 VA CORD & PLUG CONDENSATE HOOD REFER TO SHOP DRAWINGS FOR 208 V/3-0 VA EXHAUST FAN W/ SWITCH ELECTRICAL REQUIREMENTS. SWITCH IS TO MANUALLY CONTROL EXHAUST HOOD. FOR CIRCUIT INFORMATION REFER TO SHEET NEMA 5-20R CORD & PLUG 120 V/1-1632 VA REFRIGERATED 120 V/1-1632 VA NEMA 5-20R CORD & PLUG GARNISH UNIT, REFRIGERATED CORD & PLUG WARMER, FOOD, ELECTRIC 120 V/1-696 VA NEMA 5-15R WAFFLE MAKER 120 V/1-1500 VA NEMA 5-20R VERIFY ELECTRICAL REQUIREMENTS WITH FIRE SUPPRESSION HOOD FIRE SUPPRESSION, TIE IN WITH PULL 120 V/1-180 VA STATION AND FA SYSTEM SYSTEM CONTROLS AND LIGHT CONNECTION 120 V/1-300 VA EXHAUST HOOD POTATO GRIDDLE, GAS NEMA 5-15R CORD & PLUG; PLACE ON 15 AMP 120 V/1-600 VA DEDICATED CIRCUIT HOT TOP OPEN BURNER 120 V/1-600 VA NEMA 5-20R CORD & PLUG; PUT ON 15 AMP DEDICATED CIRCUIT NEMA 5-15R WARMER, FOOD, ELECTRIC 120 V/1-1600 VA CORD & PLUG WARMER, FOOD, ELECTRIC | 120 V/1-1600 VA CORD & PLUG NEMA 5-15R CORD & PLUG; PUT ON 20 AMP DEDICATED EGG STATION, NEMA 5-15R 120 V/1-1404 VA REFRIDGERATED W/DOUBLE OVERSHELVES PUT ON 20 AMP DEDICATED CIRCUIT AND ICE MAKER 120 V/1-1296 VA PROVIDE WITH LOCAL DISCONNECT

CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

04/17/2020 15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530

www.agi-us.com

designing where you want to **go**.



WWW.KLHENGRS.COM

C,



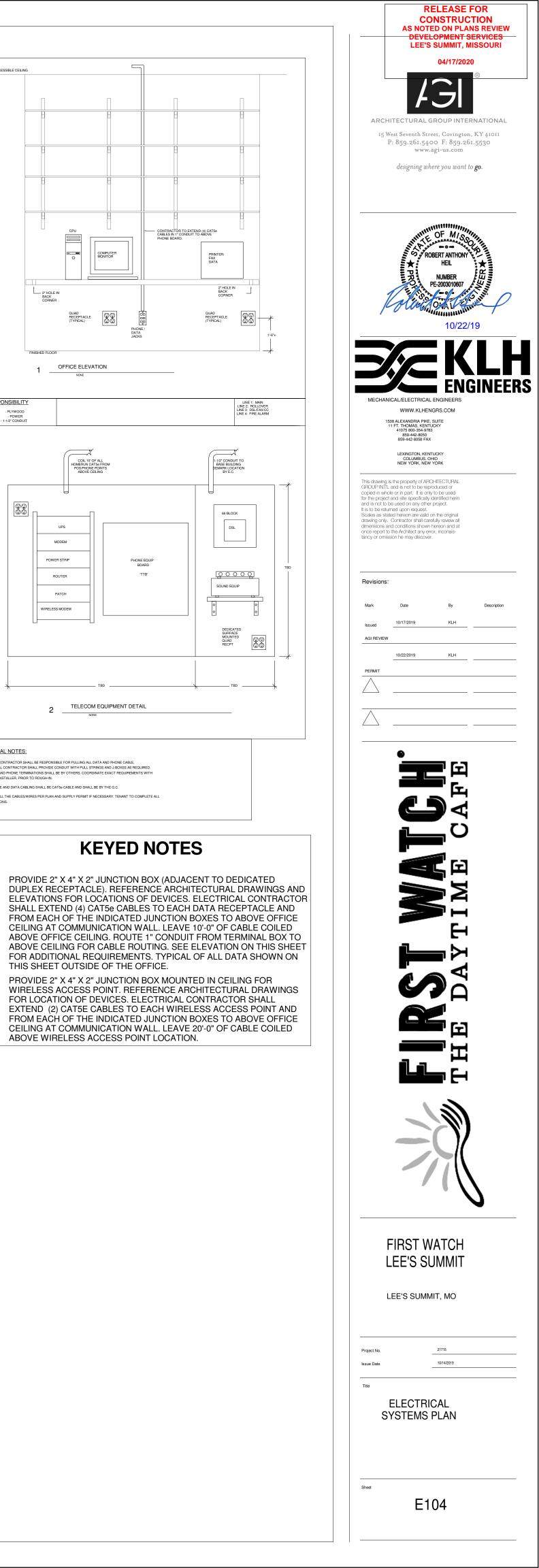
FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

VERIFY MOUNTING HEIGHT WITH

ARCHITECTURAL PLANS

ENLARGED KITCHEN PLAN



1 OFFICE ELEVATION

POWER STRIP

ROUTER

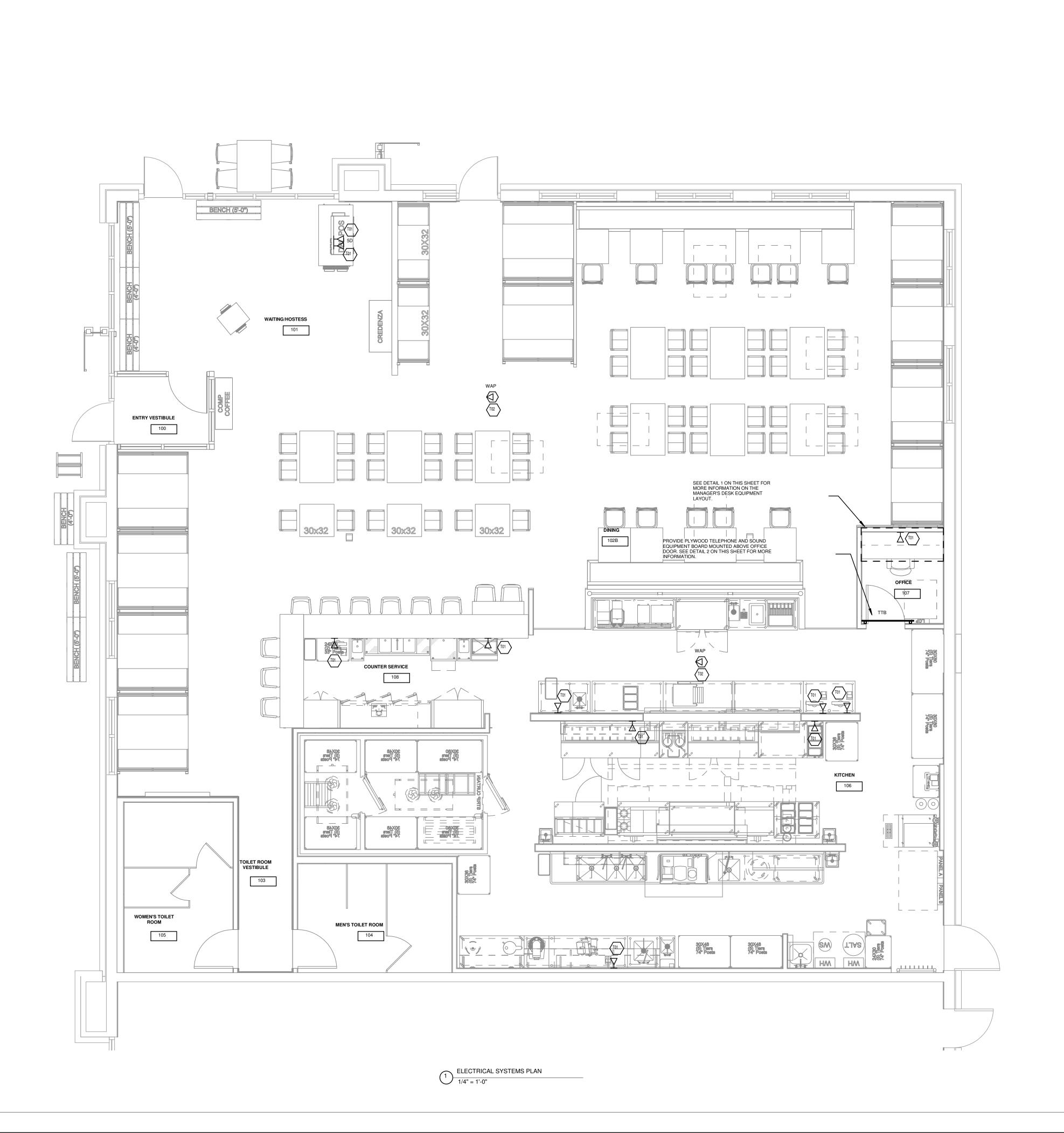
PATCH WIRELESS MODEM

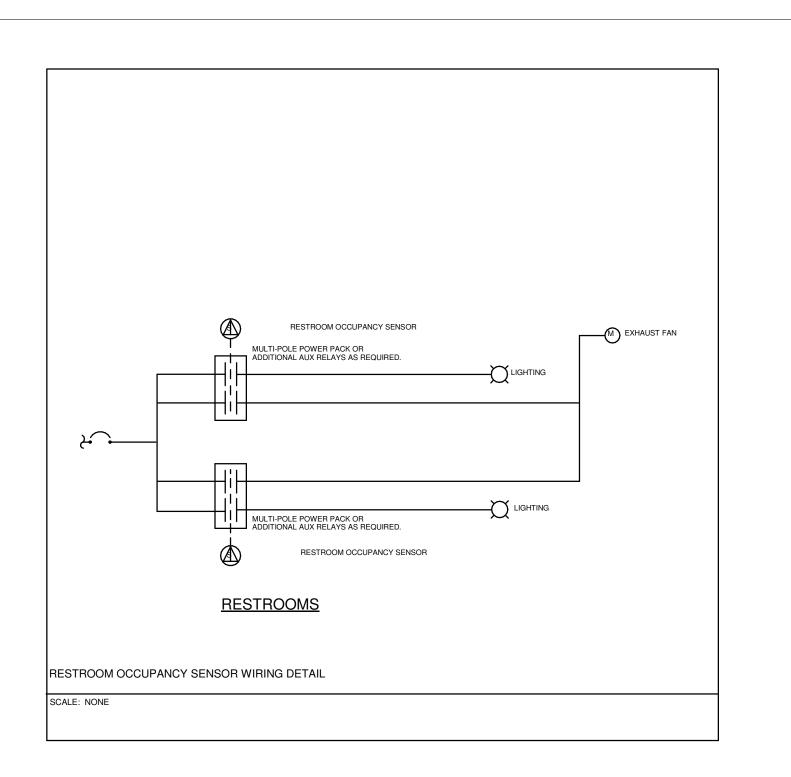
TELEPHONE AND DATA CABLING SHALL BE CAT5e CABLE AND SHALL BE BY THE G.C.

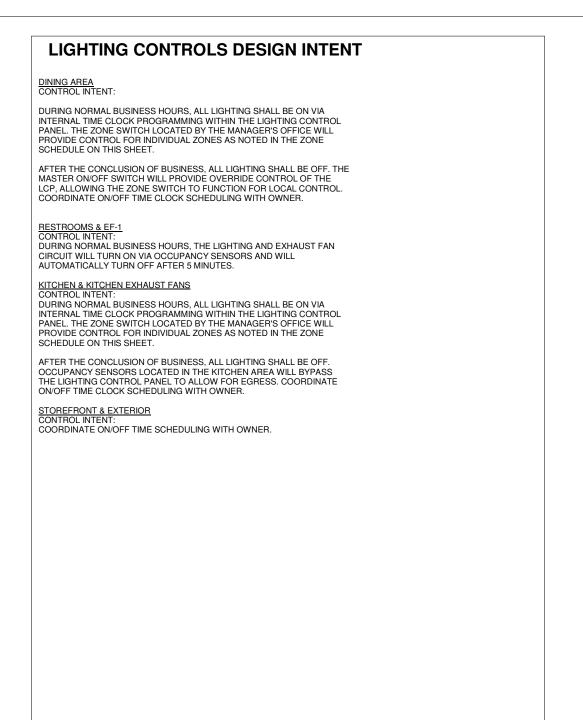
GENERAL NOTES:

2 TELECOM EQUIPMENT DETAIL

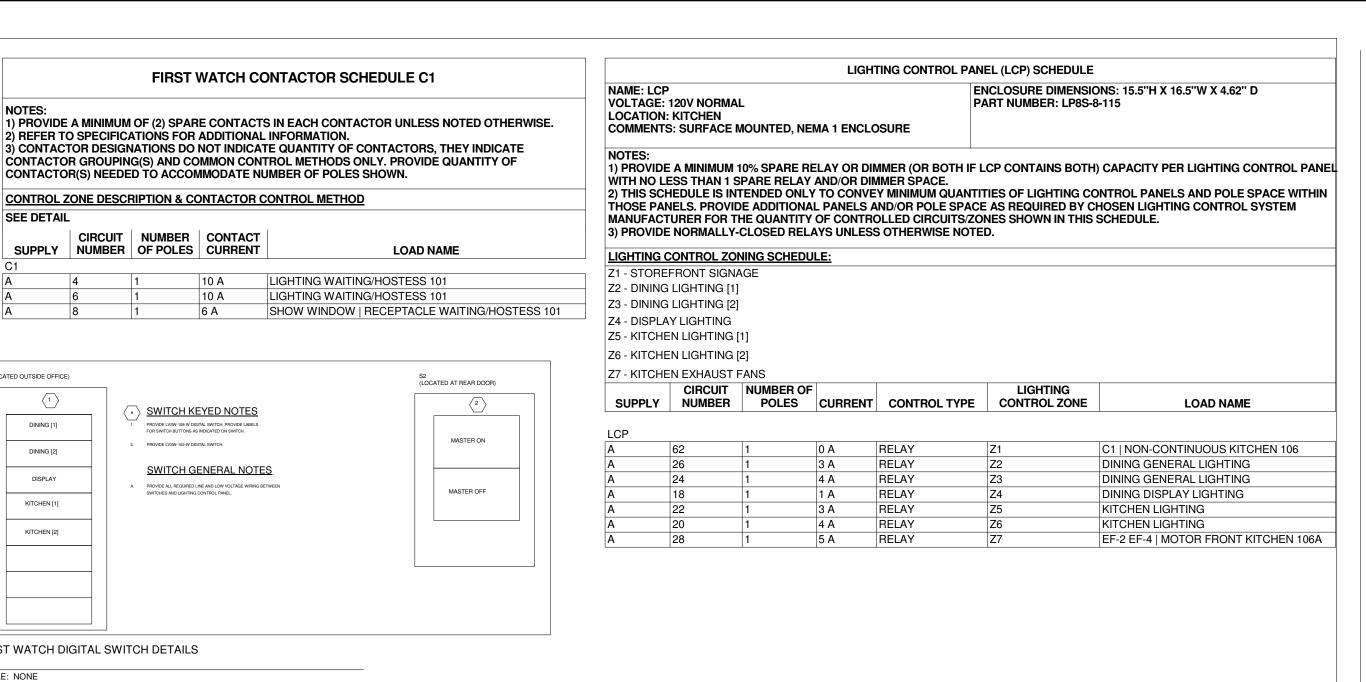
NONE

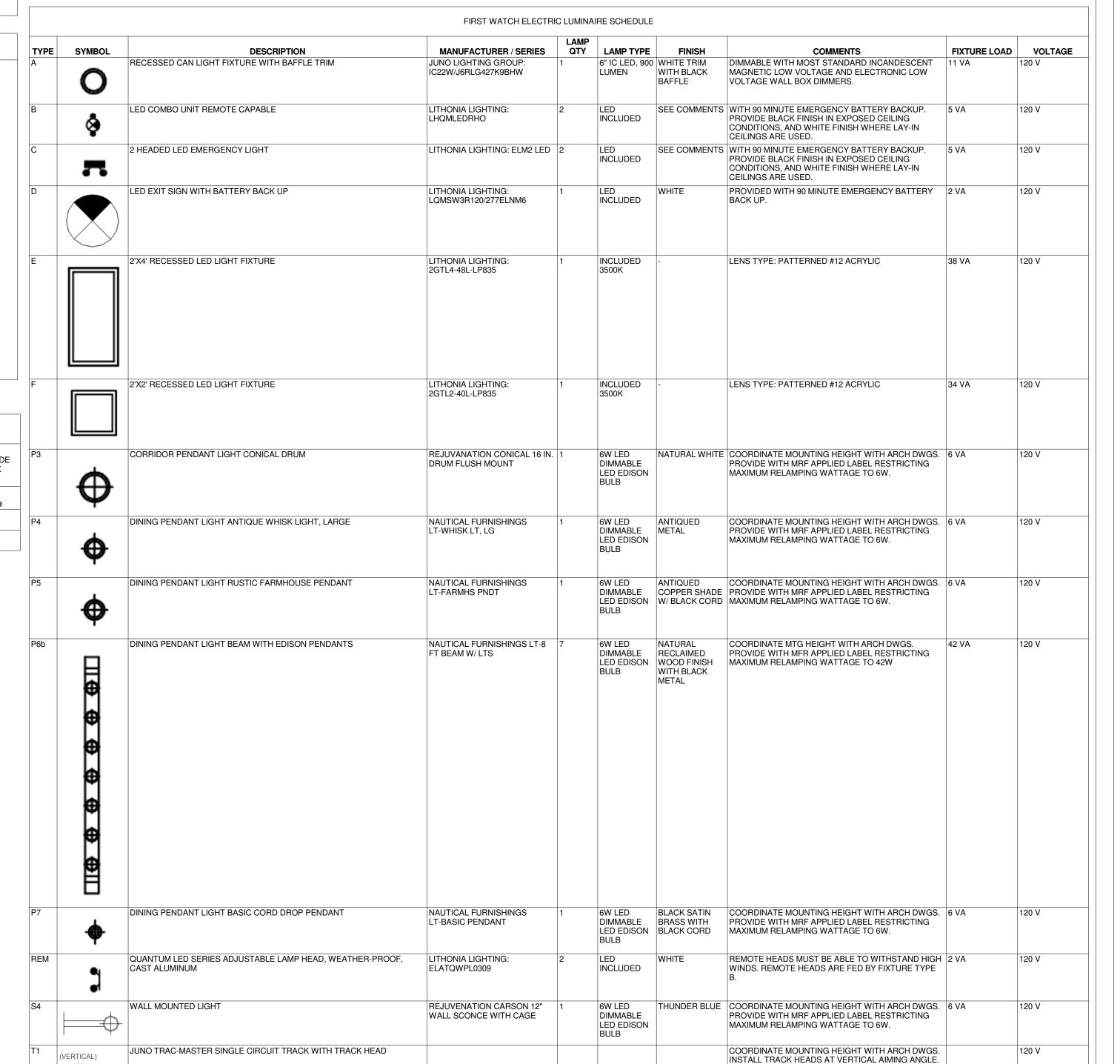


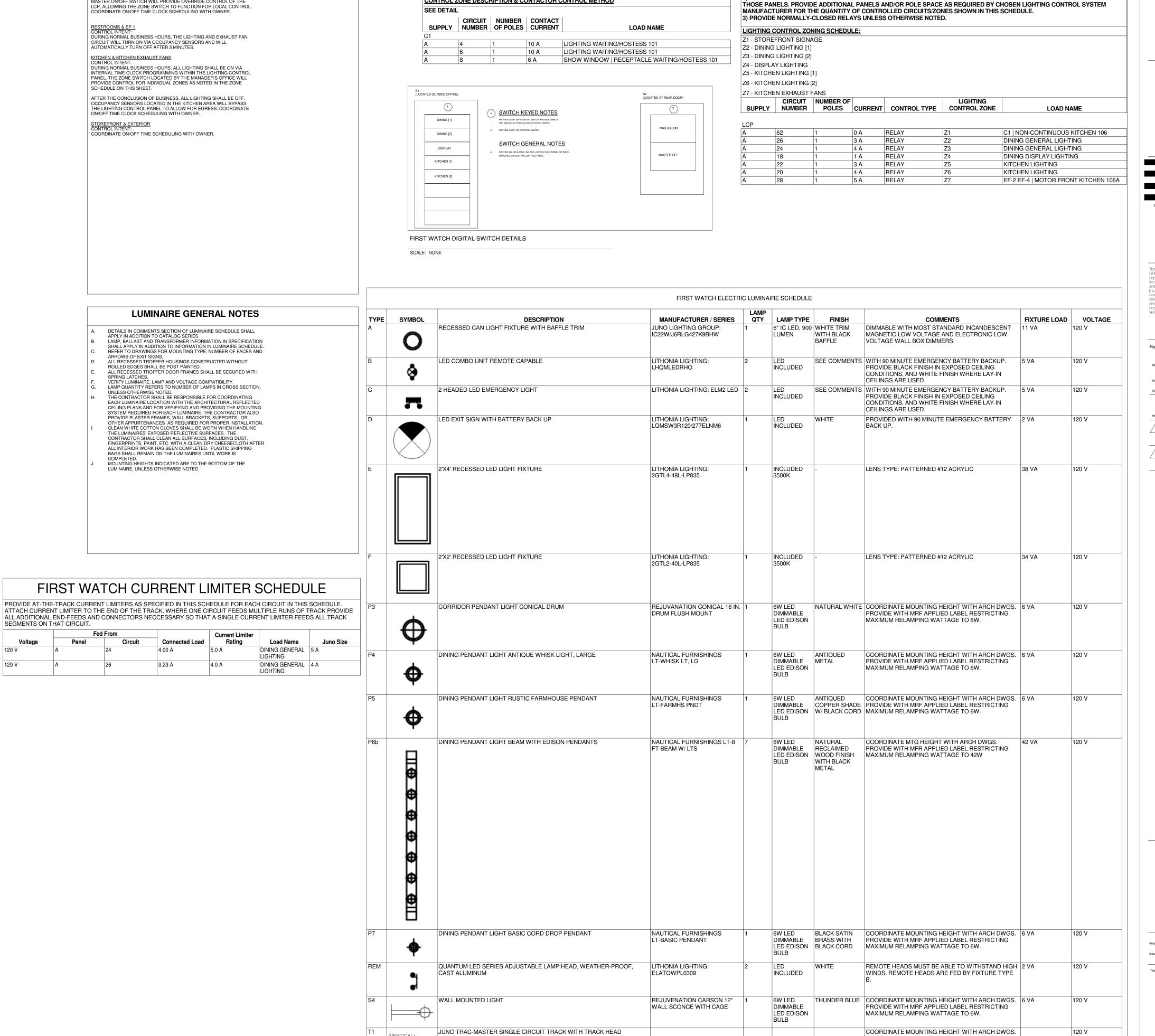




SEGMENTS ON THAT CIRCUIT.







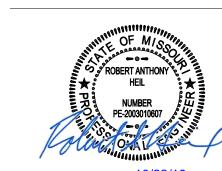
(WALL WASH

LEE'S SUMMIT, MISSOURI 04/17/2020

15 West Seventh Street, Covington, KY 41011

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES

P: 859.261.5400 F: 859.261.5530 www.agi-us.com designing where you want to go.





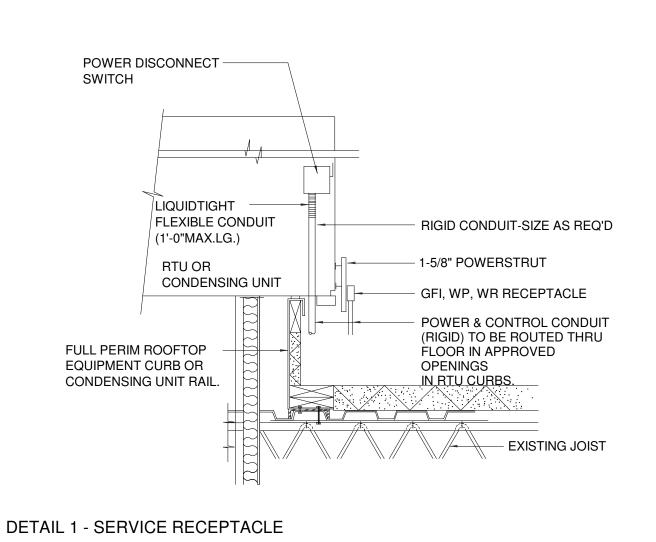
WWW.KLHENGRS.COM

Revisions:

FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

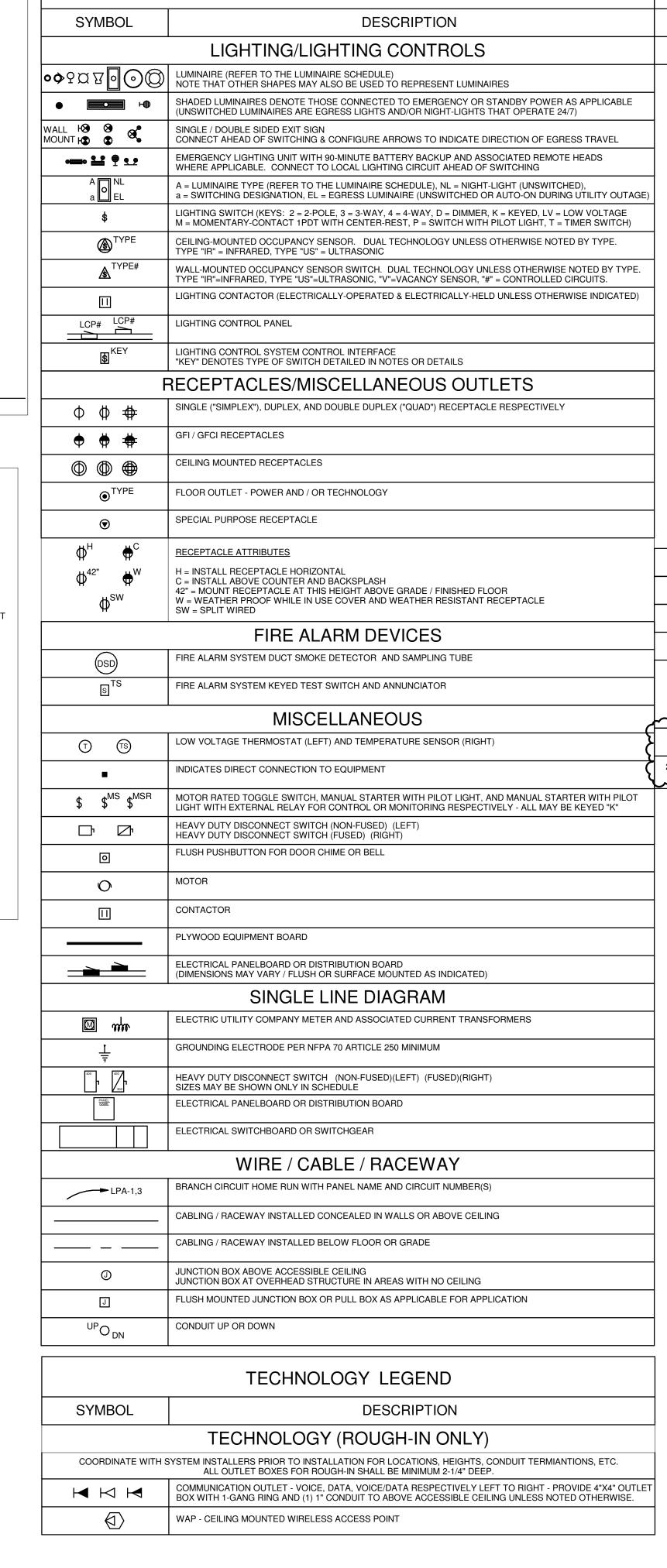
ELECTRICAL LIGHTING DETAILS

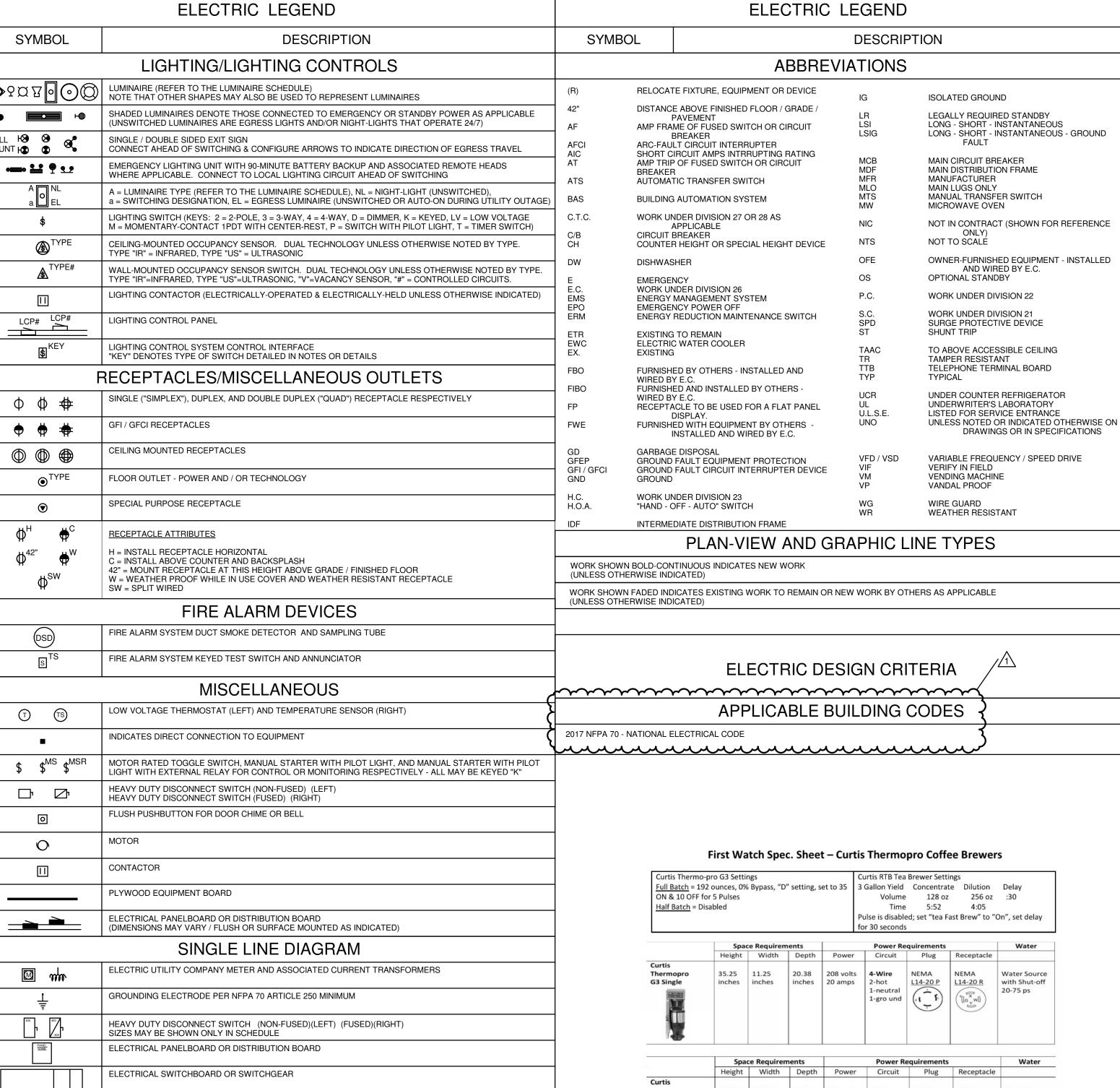


	ELE	CTRIC COI	NTACTOR	SCHEDULE CK		TO HOOD CONTRO	DLS			
NOTED OT 2) REFER 3) CONTAC	THERWISE. TO SPECIFICA CTOR DESIGN	ATIONS FOR NATIONS DO	ADDITIONAL NOT INDICA	S IN EACH CONTACTOR UNLESS INFORMATION. IE QUANTITY OF CONTACTORS,	ELECTRICAL PA		NTACTOR	"CK" 1		PROVIDE ELECTRICALLY HELD CONTACTOR. CONTACTOR SHALL BE LOCATED ABOVE PANELS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
SEE DETA		RIPTION & CO	ONTACTOR C	CONTROL METHOD					2.	PROVIDE SHUNT-TRIP BREAKER FOR CIRCUIT CONTROLLING CONTACTOR.
SUPPLY	CIRCUIT NUMBER	NUMBER OF POLES	CONTACT CURRENT	LOAD NAME			 	$\rightarrow \langle 3 \rangle$	3.	CONTACTOR SHALL CONTROL ALL KITCHEN EQUIPMEN UNDERNEATH HOOD.
CK B	16	1	12 A	(G) K72 - EGG STATION KITCHEN EQUIPMENT KITCHEN 106				3		UNDERNEATH HOOD.
В	18	1	5 A	(G) K68R - OPEN BURNER KITCHEN EQUIPMENT KITCHEN 106			-	3		
В	20	1	4 A	(G) CO67 - GAS, GRIDDLE KITCHEN EQUIPMENT KITCHEN 106			-	3		
В	22	1	1 A	SV SV - SOLENOID VALVE KITCHEN EQUIPMENT			-	3		
В	24	1	5 A	(G) K64 - POTATO GRIDDLE KITCHEN EQUIPMENT KITCHEN 106			_	3		
В	26	1	13 A	(G) K69 - FOOD WARMER W/ DRAIN KITCHEN EQUIPMENT KITCHEN 106				3		
В	28	1	13 A	(G) K69 - FOOD WARMER W/ DRAIN KITCHEN EQUIPMENT KITCHEN 106						
В	30	1	2 A	(G) CO59 - CONVENIENCE OUTLET RECEPTACLE KITCHEN 106						
В	32	1	2 A	(G) CO59 - CONVENIENCE OUTLET RECEPTACLE KITCHEN 106						

SCALE: NONE

SCALE: NONE



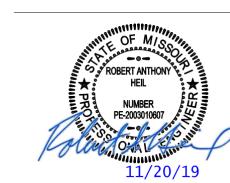


Curtis Thermo- Full Batch = 192 ON & 10 OFF fo Half Batch = Dis	2 ounces, 0% r 5 Pulses		" setting, s	et to 35 3	Gallon Yield Volume Time	5:52 ed; set "tea Fa		Delay :30 On", set delay
	Spa	ce Requiren	nents		Power Re	quirements		Water
	Height	Width	Depth	Power	Circuit	Plug	Receptacle	
Curtis Thermopro G3 Single	35.25 inches	11.25 inches	20.38 inches	208 volts 20 amps	4-Wire 2-hot 1-neutral 1-gro und	NEMA <u>L14-20 P</u>	NEMA L14-20 R	Water Source with Shut-off 20-75 ps
	- Eno	an Possissor	namte.	1	Dower Pr	autromonts		Matar
	Height	width	Depth	Power	Circuit	Plug	Receptacle	Water
Curtis Thermopro G3 Twin	35.25 inches	20.25 Inches	20.38 inches	220 volts 30 amps	4-Wire 2-hot 1-neutral 1-ground	NEMA <u>L14-30 P</u>	NEMA L14-30 R	Water Source with Shut-off 20-75 psi
	Spac	e Requirem	ents		Power Re	quirements		Water
	Height	Width	Depth	Power	Circuit	Plug	Receptacle	
Curtis RTB Fea Brewer	34.4 inches	12.375 Inches	20.875 inches	120 volts 15 amps	3-Wire 1-hot 1-neutral 1-ground	NEMA <u>5-15 P</u>	NEMA 5-15 R	Water Source with Shut-off 20-75 psi
<u> </u>	Spac Height	ce Requiren	nents Depth	Power	Power R Circuit	equirements Plug	Receptacle	Water
Café PC 1 Hot Choc Machine	31.1 inches	9.9 Inches	20.5 inches	120 volts 15 amps	3-Wire 1-hot 1-neutral 1-ground	NEMA 5-15 P	NEMA 5-15 R	Water Source with Shut-off 20-75 psi

DETAIL 3 - NEMA CONFIGURATION SCALE: NONE

CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

5 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com



designing where you want to **go**.

MECHANICAL/ELECTRICAL ENGINEERS

WWW.KLHENGRS.COM

1538 ALEXANDRIA PIKE, SUITE

11 FT, THOMAS, KENTUCKY

41075 800-354-9783 859-442-8050 859-442-8058 FAX LEXINGTON, KENTUCKY COLUMBUS, OHIO NEW YORK, NEW YORK This drawing is the property of ARCHITECTURAL GROUP INT'L and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herin and is not to be used on any other project. It is to be returned upon request.

Revisions:

Scales as stated hereon are valid on the original

drawing only. Contractor shall carefully review all

dimensions and conditions shown hereon and at

once report to the Architect any error, inconsis-

tancy or omission he may discover.



FIRST WATCH LEE'S SUMMIT, MO

10/14/2019

ELECTRICAL LEGEND AND DETAILS

											1 = 07312	ED GROU	IND CONDUCTORS FOR TRANSFORI	WIEN	ENTRANCE	ON DENIVED 3	131EW GROUNDI	NG ELECTRODE CONDUCTOR AS APPLICABLE.
EQUIPMENT	PHASE	EQUIPMENT TYPE		VOLTAGE	POLES	WIRES	DEMAND (kVA)	DEMAND (A)		MAINS FRAME RATING (A)	MAINS TYPE	FEEDEF	FEEDER	VD % ULSE	ENCLOSURE TYPE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES
UTILITY	Existing	Pad Mounted Transformer		208	3										NEMA 3R	69393		FAULT CURRENT BASED ON 500kVA TRANSFORMER WITH 2% IMPEDANCE. E.C. TO FIELD VERIFY AND REPORT BACK ANY DISCREPENCIES TO THE ENGINEER OF RECORD.
D1	Existing	Fused Switch	UTILITY	208	3	4	118.3 kVA	328 A	600	600	FUSED	U600-4C	(2) SETS OF (4) #350 KCMIL CU IN 3" CONDUIT EACH	0.381 Yes	NEMA 3R	41298	65000	
A	New Construction	Branch Panelboard	D1	208	3	4	118.3 kVA	328 A	600	600	MAIN LUGS ONLY	600-4C	(2) SETS OF (4) #350 KCMIL CU, (1) #1 AWG CU GND. IN 3" CONDUIT EACH	0.826	NEMA 1	27958	42000	
B	New Construction	Branch Panelboard	A	208	3	4	32.8 kVA	91 A	125	125	MAIN LUGS ONLY	125-4C	(4) #1/0 AWG CU, (1) #6 AWG CU GND. IN 2" CONDUIT	0.989	NEMA 1	19338	22000	FEEDER TO PANEL B SHALL BE AT LEAST 15'-0" LONG.

INFRALELECTRICAL INSTALLATION NOTES

CUT PAPALLEL SERVICE/FEEDER CONDUCTORS TO EXACTLY THE SAME LENGTHS AND USE CONDUCTORS FROM THE SAME FACTORY RUN. TORQUE ALL CONNECTIONS FOR PARALLEL SERVICE/FEEDER CONDUCTORS TO DESTICAL VALUES. AND LOSS FOR THE SAME FACTORY RUN. TORQUE ALL CONNECTIONS FOR PARALLEL SERVICE/FEEDER CONDUCTORS TO POSTICAL VALUES. AND COMPLY WITH ALL APPLICABLE RECUIREMENTS OF INFRATOR FALL CURRENT VALUES ARE NOT INDICATED ON PLANS, ALSO COMPLY WITH ALL APPLICABLE RECUIREMENTS OF INFRATOR FALL CURRENT VALUES ARE NOT INDICATED ON PLANS, ALSO COMPLY WITH ALL APPLICABLE RECUIREMENTS OF INFRATOR FALL CURRENT VALUES ARE NOT INDICATED ON PARALLEL SERVICE AND PARALLEL SERVICE OF THE ELECTRICAL DOCUMENTS TO THE MANUFACTURE TO COMPLY WITH ALL APPLICABLE PARALLEL SERVICE AND PARALLEL SERVIC

GENERAL ELECTRICAL INSTALLATION NOTES

PLUMBING ELECTRICAL COORDINATON SCHEDULE

FIRST WATCH SPACE EXISTING (2) 3" CONDUITS STUBBED INTO TENANT SPACE SHALL REMAIN. EXTEND CONDUITS TO NEW PANEL A. PROVIDE NEW 600A MLO 125A MLO 27958 AIC 19338 AIC 42000 SCCR 22000 SCCR <u>UTILITY</u> FED FROM: D1 FED FROM: A 600-4C 125-4C GRADE 69393 AIC SINGLE LINE DIAGRAM SCALE: NONE

ABBREVI					CONTRACTOR						111010	R CONTRO								CONTROL					
DC		SCONNECT			_	CTRICAL C	ONTRACT	TOR			CS		MBINATION STA							TC	TIMECLOC			ı=n	
SD		ONTROL (POWER) OKE DETECTOR				STING E PROTECT	ION CONT	FRACTOR			MCC MG		TOR CONTROL GNETIC STARTE		TACT					_		POWER TRA			
CN	CONTROL				_	NERAL CON					MS		NUAL STARTER		IACI						-	AGE CONTR		IVI	
TS	TOGGLE					C CONTRA		•			VFD		RIABLE FREQUE									AGE CONTR			
C/B	H.A.C.R. C	CIRCUIT BREAKER AT SOL	JRCE PANELBO	ARD		NUFACTUR	ER				MSR	MA	NUAL STARTER	W/ CONTRO	OL RELAY					RLINE		ACTING LINI		E THERMO	STAT
FUSE		LOCAL DISCONNECT (VEF	RIFY FIELD RATII			IMBING CO		R			ov	OVI	ERCURRENT PR	OTECTION							MANUAL				
FLA	_	NG FULL LOAD AMPS			OR OW	NER OR OT	HERS														FIRE ALAR		ENCOD		
MCA CP	_	CIRCUIT AMPACITY D PLUG CONNECTION																			-	IONOXIDE S TO EQUIPM			
	OOND AIN	5 1 200 00111120 HON																			IIII EGITAL	TO EQUIT III			
																		MC							AVAILABLE FAULT
EQUIPM	IENT MARK	DESCRIPTION	VOLTS (V)	PHASE	EMERGENCY	BHP (HP)	HP (HP)	HTG KW (kW)	WATTS (W)	FLA (A	A) MCA (A)	OCP (A)	DC TYPE	DC FURN	DC INST	DC WIR	RE MC TYPE	FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE	CURRENT (A)
HT1		HEAT TRACE	120	1										EC	EC	EC					INT	PC	EC	EC	
SV		SOLENID VALVE	120	1					10.1					EC	EC	EC					LINE	EC	EC	EC	
WH1		WATER HEATER	120	1						2				MFR	MFR	MFR					LINE	MFR	MFR	MFR	
WH2		WATER HEATER	120	1						2				MFR	MFR	MFR					LINE	MFR	MFR	MFR	

ABBREVIATIO	ONS			CONTRA	CTOR TYPE				MOTOR	CONTROL	. TYPE						CC	ONTROL	. TYPE		
MC M SD E CN C TS T C/B H FUSE F FLA C MCA M	OCAL DISCONNECT MOTOR CONTROL (POWER) DUCT SMOKE DETECTOR CONTROLS OGGLE SWITCH M.A.C.R. CIRCUIT BREAKER CUSE AT LOCAL DISCONNECT DERATING FULL LOAD AMINIMUM CIRCUIT AMPACIT CORD AND PLUG CONNECT	T (VERIFY FI S		EC EX FC GC HC MFR PC OR	ELECTRICAL CONT EXISTING FIRE PROTECTION (GENERAL CONTRACTO MANUFACTURER PLUMBING CONTRACTO OWNER OR OTHER:	CONTRACTOR CTOR PR			MG MS	MOTOR O MAGNET MANUAL VARIABL MANUAL	CONTRO IC STAI START LE FREC START	RTER OR (TER QUENCY D	CONTACT PRIVE	_AY			LII RL	PT AS DW NE LINE AN A	BUILDING LOW VOL' LINE VOL' REVERSE MANUAL FIRE ALAI CARBON	POWER TRA AUTOMATIC TAGE CONTF TAGE CONTF ACTING LINI	N SYSTEM ROLS ROLS E VOLTAGE THERMOSTAT
EQUIPMEN MARK	NT DESCRIPTION	VOLTS (V)	PHASE	MERGENC BHP	(HP) HP (HP) HTG (kW)	WATTS FLA (A)	MCA (A	OCP (A) DC TYP	PE DO	FURN D	C INST	DC WIRE	MC TYPE	MC FURN	N MC IN	IST MC WIRE	E CN TYI	PE CN	FURN CN IN	ST CN WIRE	AVAILABI SD TYPE CURRE
EF-1	CENTRIFUGAL ROOF VENTILATOR	120	1		1/10	2.6			EC	EC	С	EC	MS	MFR	MFR	MFR	TC	EC	EC	EC	1228
F-2	CENTRIFUGAL ROOF VENTILATOR	120	1		1/30				EC	EC	С	EC	MS	MFR	MFR	MFR	TC	EC	EC	EC	2479
F-3	CENTRIFUGAL ROOF VENTILATOR	208	3		3	9.4			EC	EC	С	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC	2520
F-4	CENTRIFUGAL ROOF VENTILATOR	120	1		.333	4.3			EC	EC	С	EC	MG	MFR	MFR	MFR	TC	EC	EC	EC	3541
IUA-1	PACKAGED OUTDOO MAKEUP AIR UNIT	208	3	1.299	3	9.5			EC	EC	С	EC	MG	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT SMOKE 1864
TU-1	PACKAGED OUTDOO ROOFTOP UNIT	208	3				58	70	EC	EC	С	EC	MG	MFR	MFR	MFR	LOW	НС	HC	HC	DUCT SMOKE 3694
TU-2	PACKAGED OUTDOO ROOFTOP UNIT	208	3				58	70	EC	EC	С	EC	MG	MFR	MFR	MFR	LOW	НС	HC	HC	DUCT SMOKE 4961
	PACKAGED OUTDOO	208	3				58	70	EC	EC	С	EC	MG	MFR	MFR	MFR	LOW	НС	HC	HC	DUCT SMOKE 4930

MFR MFR MFR MFR MFR	MFR MFR MFR MFR MFR	MFR MFR MFR MFR MFR MFR	LOW TC LOW LOW LOW	HC EC HC HC	HC EC HC HC	HC EC HC HC	DUCT SMOKE DUCT SMOKE DUCT SMOKE	2520 3541 1864 3694 4961			Receptacle	
MFR MFR MFR	MFR MFR MFR	MFR MFR MFR	LOW	HC HC	HC HC	HC HC	DUCT SMOKE	1864 3694				
MFR MFR	MFR MFR	MFR MFR	LOW	HC HC	HC HC	HC HC	DUCT SMOKE	3694				
MFR	MFR	MFR	LOW	НС	НС	HC						
							DUCT SMOKE	4961				
MFR	MFR	MFR	LOW	НС	110							
			1		HC	HC	DUCT SMOKE	4930				
		'								L		
LE LEGEI							(LT) (->)	= =	SOURCE AS PART OF SEL	CUIT, WHICH WELECTIVE DEM	VAS DISCONNECTED FROM A MOLITION, TO POLE SPACE(S	INDICATE
ND-FAULT CIRCUIT ND-FAULT EQUIPM TRIP CIRCUIT BRE	INTERRUPTE ENT PROTEC EAKER	TIÔN (GÉEP) (CIRCUIT BREA				* ** SL	= = =	OF THE BRANCH CIRCUIT REQUIRED. WIRE SIZED TO COMPENS REFER TO DRAWINGS FO	T CONDUCTOR ISATE FOR VO OR SPECIFICA	R ÌNSULATION. PROVIDE NE' DLTAGE DROP ATIONS	V BREAKE
O E NE NE T T	EXISTING CIRCUIT D-FAULT CIRCUIT D-FAULT EQUIPM RIP CIRCUIT BRI ILT CIRCUIT INTE	:XISTING CIRCUIT BREAKER)-FAULT CIRCUIT INTERRUPTE)-FAULT EQUIPMENT PROTEC RIP CIRCUIT BREAKER ILT CIRCUIT INTERRUPTER (AI	EXISTING CIRCUIT BREAKER -FAULT CIRCUIT INTERRUPTER (GFCI) CIRC -FAULT EQUIPMENT PROTECTION (GFEP) RIP CIRCUIT BREAKER ILT CIRCUIT INTERRUPTER (AFCI) CIRCUIT	EXISTING CIRCUIT BREAKER -FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKE -FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREA RIP CIRCUIT BREAKER ILT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER	EXISTING CIRCUIT BREAKER -FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER -FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER RIP CIRCUIT BREAKER LIT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER	EXISTING CIRCUIT BREAKER -FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER -FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER RIP CIRCUIT BREAKER LT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER	EXISTING CIRCUIT BREAKER -FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER -FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER RIP CIRCUIT BREAKER LIT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER	TO REMAIN EXISTING CIRCUIT BREAKER 0-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER 1-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER 1-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER 1-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER 1-FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER 1-FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER	TO REMAIN EXISTING CIRCUIT BREAKER 0-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER 1-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER 2	TO REMAIN EXISTING CIRCUIT BREAKER FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER REQUIRED. REPURED. WIRE SIZED TO COMPEN REFER TO DRAWINGS FE LIT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER SL = SEE THE SINGLE LINE DI	TO REMAIN EXISTING CIRCUIT BREAKER FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER REQUIRED. REPORT OF SELECTIVE DEM DETERMINE EXACT POLE ASSIGNMEN OF THE BRANCH CIRCUIT CONDUCTO REQUIRED. REQUIRED. WIRE SIZED TO COMPENSATE FOR VC REFER TO DRAWINGS FOR SPECIFICA LIT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER SL SEE THE SINGLE LINE DIAGRAM / SCH	TO REMAIN EXISTING CIRCUIT BREAKER FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER TO REMAIN TO REMAIN SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING CO OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW REQUIRED. * = WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP REFER TO DRAWINGS FOR SPECIFICATIONS LIT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER * = REFER TO DRAWINGS FOR SPECIFICATIONS SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND V

CKT CIRCUIT DESCRIPTION 1 CO37 - CONVENIENCE RECEPTACLE RECEPTACL. 3 CO1 - BAR CONVENIENCE RECEPTACLE 5 CO3 - BACK BAR CONVENIENCE RECEPTACLE 7 CO3 - BACK BAR CONVENIENCE RECEPTACLE 9 CO3 - BACK BAR CONVENIENCE RECEPTACLE 11 RTU-2 COOLING 15 RTU-3 COOLING 21 RTU-3 COOLING 22 RTU-3 COOLING 23 RTU-3 COOLING 24 RTU-3 COOLING 25 RTU-3 COOLING 33 BARE 41 SPARE 43 SPARE 44 SPARE 45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 52 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS 57 K73 - ICE MAKER KITCHEN EQUIPMENT 59 SPARE 61 SPARE 63 RECEPTACLE	1.06 1.15 1.14 1.11	57 5 13 11 37	#12 #12 #12	#12	TRIP 20 A	FRAME		-	ACH						UGS TYP		/А 1				200% NEUTRAL: ATED GROUND:	
3 CO1 - BAR CONVENIENCE RECEPTACLE I 5 CO3 - BACK BAR CONVENIENCE RECEPTACLE I 7 CO3 - BACK BAR CONVENIENCE RECEPTACLE I 9 CO3 - BACK BAR CONVENIENCE RECEPTACLE I 11 13 RTU-2 COOLING 15 17	1.15 1.14 1.11 1.08	5 13 11 37	#12 #12		20 A		POLE		Α		В	(С	POLI	FRAME	TRIP	GND	AWG	VD%	Ď	CIRCUIT DESCRIPTION	CI
CO3 - BACK BAR CONVENIENCE RECEPTACLE CO3 - BACK BAR CONVENIENCE RECEPTACLE CO3 - BACK BAR CONVENIENCE RECEPTACLE RTU-2 COOLING To	1.14 1.11 1.08	13 11 37	#12	#12		20 A	1	0.18	0.90					1	20 A	20 A	#12	#12	2.969	SHOW WINDON	V RECEPTACLE DINING 102B	2
CO3 - BACK BAR CONVENIENCE RECEPTACLE 9	1.11	37			20 A	20 A	1			0.18	1.20			1	20 A	20 A	#12	#12	4.697	LIGHTING WAIT	TING/HOSTESS 101	
9	1.08	37	#12	#12	20 A	20 A	1					0.18	1.20	1	20 A	20 A	#12	#12	4.207	LIGHTING WAIT	TING/HOSTESS 101	
### TRU-2 COOLING ### TRU-1 COOLING ### TRU-1 COOLING ### TRU-3 COOLING ### TR				#12	20 A	20 A	1	0.18	0.72					1	20 A	20 A	#12	#12	3.121	SHOW WINDON	V RECEPTACLE WAITING/HOSTESS	
13	1.88		#12	#12	20 A	20 A	1			0.18	0.18			1	20 A	20 A	#12	#12	1.126	CO1 - BAR CON	IVENIENCE RECEPTACLE I	
15	1.88	!										6.27	0.12	1	20 A	20 A	#12	#12	0.908	(L) LCP		
17		34	#4	#8	70 A	70 A	3	6.27	0.47					1	20 A	20 A	#12	#12	1.79	EF-1 RESTRO	OM LIGHTING	
19										6.27	0.72			1	20 A	20 A	#12	#12	1.87	RECEPTACLE I	DINING 102B	
21 23 25 25 25 25 25 25 25												6.27	0.15	1	20 A	20 A	#12	#12	1.228	DINING DISPLA	Y LIGHTING	
23 25 RTU-3 COOLING 27 29 31 25 27 29 31 27 29 31 27 32 28 32 35 37 28 39 39 39 30 30 30 30 30	2.32	24	#4	#8	70 A	70 A	3	6.27	0.42					1	20 A	20 A	#12	#12	1.569	KITCHEN LIGH	ΓING	
25 RTU-3 COOLING 27 29 31 EF-3 MOTOR KITCHEN 106 33 35 37 MUA-1 MOTOR KITCHEN 106 39 41 SPARE 43 SPARE 45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS I 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN 59 SPARE 61 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 66 K19 KITCHEN EQUIPMENT 71 COAD CLASSIFICATION CONNECTED LOG. Cooling 56415 VA. Citchen Equipment 52903 VA. Lighting 4981 VA. Alon-Continuous 2500 VA.										6.27	0.37			1	20 A	20 A	#12	#12	1.541	1 KITCHEN LIGH	TING	
27 29 31												6.27	0.48	1	20 A	20 A	#12	#12	2.674	DINING GENEF	AL LIGHTING	
29 31	1.89	91	#4	#8	70 A	70 A	3	6.27	0.39					1	20 A	20 A	#12	#12	2.259	DINING GENER	AL LIGHTING	
### SPARE Code										6.27	0.62			1	20 A	20 A	#12	#12	1.469	9 EF-2 EF-4 MO	TOR FRONT KITCHEN 106A	
33 35 37 MUA-1 MOTOR KITCHEN 106 39 41 SPARE 43 SPARE 45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS I 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN. 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 667 K19 KITCHEN EQUIPMENT 671 K19 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT 600 K19 K19 KITCHEN EQUIPMENT 600 K19 K19 KITCHEN EQUIPMENT 600 K19 K19 K10 K19												1.13	0.08		00.4	00.4	"40	"40	0.004		EVADODATOD I KITOLIEN FOLIIDMENT	
MUA-1 MOTOR KITCHEN 106	1.24	11	#12	#12	20 A	20 A	3	1.13	0.08					2	20 A						EVAPORATOR KITCHEN EQUIPMENT	
MUA-1 MOTOR KITCHEN 106 39 41 SPARE 43 SPARE 45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS I 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN. 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 71 COAD CLASSIFICATION CONNECTED LOAD Cooling 56415 VA Citchen Equipment 52903 VA Ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA										1.13	1.09									K15 - WALK IN	FREEZER EVAPORATOR I KITCHEN	
SPARE												1.14	1.09	2	20 A	20 A	#12	#12	1.965	EQUIPMENT		
SPARE	1.40)7	#12	#12	20 A	20 A	3	1.14	0.20					1	20 A	20 A	#12	#12	1.071	1 K13 - WALK-IN	COOLER LIGHTING LIGHTING	t
41 SPARE 43 SPARE 45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN. 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 71 K19 KITCHEN EQUIPMENT 71 CONNECTED LOGOLING 65 SCHOOL SOURCE 66 SCHOOL SOURCE 67 CONNECTED LOGOLING 68 SCHOOL SOURCE 69 CONNECTED LOGOLING 69 SCHOOL SOURCE 60 SCHOOL SOURCE 60 SCHOOL SOURCE 61 SPARE 62 CONNECTED LOGOLING 63 SCHOOL SOURCE 64 SCHOOL SOURCE 65 SCHOOL SOURCE 66 SCHOOL SOURCE 66 SCHOOL SOURCE 66 SCHOOL SOURCE 67 SCHOOL SOURCE 67 SCHOOL SOURCE 68 SPARE 69 SPARE 60 SPARE 61 SPARE 61 SPARE 61 SPARE 62 SPARE 63 RECEPTACLE KITCHEN 106 65 SCHOOL SOURCE 66 SCHOOL SOURCE 67 SCHOOL SOURCE 67 SCHOOL SOURCE 68 SPARE 69 SPARE 60 SPARE 61 SPARE 61 SPARE 62 SPARE 63 RECEPTACLE KITCHEN 106 65 SPARE 66 SPARE 66 SPARE 67 SPARE 68 SPARE 69 SPARE 60 SPARE 60 SPARE 60 SPARE 60 SPARE 61 SP										1.14	0.00			1		20 A	-			SPARE		t
SPARE 45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 71 COAD CLASSIFICATION CONNECTED LOAD Cooling 56415 VA Citchen Equipment 52903 VA Ighting 4981 VA Motor 7736 VA Jon-Continuous 2500 VA	-				20 A		1					0.00	0.00	1		20 A				SPARE		t
45 SPARE 47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN. 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT 71 COAD CLASSIFICATION CONNECTED LOGICAL CONNECTED LOGICA CONNECTED					20 A		1	0.00	0.00					1		20 A		-		SPARE		t
47 CO40 - CONVENIENCE RECEPTACLE RECEPTACL. 49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN. 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT 71 COAD CLASSIFICATION CONNECTED LOAD Cooling 56415 VA Citchen Equipment 52903 VA ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA					20 A		1				0.72			1	20 A			#12	1.371		DARD RECEPTACLE	t
49 CO49 - CONVENIENCE RECEPTACLE RECEPTACL. 51 CO52 - CONVENIENCE RECEPTACLE RECEPTACL. 53 (L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 55 (L) K62 - FIRE SUPPRESSION CONTROLS 57 K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN. 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT COAD CLASSIFICATION CONNECTED LOW Cooling 56415 VA Citchen Equipment 52903 VA ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA	1.05	56	#12		20 A	20 A	1			0.00		0.18	0.72	1	20 A				_		ESK RECEPTACLE	t
CO52 - CONVENIENCE RECEPTACLE RECEPTACLE				#12		20 A	1	0.18	0.18			00		1	20 A						NENCE RECEPTACLE	
(L) K63 - HOOD LIGHTS LIGHTING KITCHEN 106 (E) K62 - FIRE SUPPRESSION CONTROLS (E) K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN (E) SPARE (E) SPARE (E) SPARE (E) K18 KITCHEN EQUIPMENT (E) K19 KITCHEN EQUIPMENT (E) CONNECTED LOW (E) COOLING (E) CONNECTED LOW (E) CONNE					20 A	20 A	1		00	0.18	0.54			1	20 A				_		CE RECEPTACLE	
(L) K62 - FIRE SUPPRESSION CONTROLS I K73 - ICE MAKER KITCHEN EQUIPMENT KITCHEN SPARE SPARE RECEPTACLE KITCHEN 106 K18 KITCHEN EQUIPMENT K19 KITCHEN EQUIPMENT COAD CLASSIFICATION CONNECTED LOG Cooling 56415 VA Citchen Equipment 52903 VA cighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA		_		#12		20 A	1			00		0.30	0.03	1	20 A		_	_	_	1 DOOR BUZZER		
57 K73 - ICE MAKER I KITCHEN EQUIPMENT KITCHEN 59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 71 K19 KITCHEN EQUIPMENT COAD CLASSIFICATION CONNECTED LOW Cooling 56415 VA Citchen Equipment 52903 VA ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA		_	#12			20 A	1	0.18	0.69			0.00	0.00	1	20 A						ND RECEPTACLE	+
59 SPARE 61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT 71 CONNECTED LOW Cooling 56415 VA Citchen Equipment 52903 VA ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA		_		#12		20 A	1	0.10	0.00	1.30	0.00			1		20 A				SPARE	W TIEGET TAGEE	
61 SPARE 63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT 71 CONNECTED LOW Cooling 56415 VA Citchen Equipment 52903 VA ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA	1.10		π12		20 A		1			1.00	0.00	0.00	1.08		20 A		#12	#12		BOOTH RECEP	TACLES	
63 RECEPTACLE KITCHEN 106 65 K18 KITCHEN EQUIPMENT 69 K19 KITCHEN EQUIPMENT COAD CLASSIFICATION CONNECTED LOW Cooling 56415 VA Sitchen Equipment 52903 VA Lighting 4981 VA Motor 7736 VA Jon-Continuous 2500 VA	+-				20 A		1	0.00	0.05			0.00	1.00	1	20 A				_		TINUOUS KITCHEN 106	t
K18 KITCHEN EQUIPMENT		_	#12		20 A		1	0.00	0.03	0.26	0.05			'								
K18 KITCHEN EQUIPMENT	1.01	U	#14	#14	20 A	20 A				0.30	0.05	1 20	0.00	1	20 A	20 A	#12	#12	0.038	<u> </u>	CONTINUOUS OFFICE 107	
K19 KITCHEN EQUIPMENT	2.61	12	#12	#12	20 A	20 A	2	1.00	15.99			1.32	0.00	-			-	-		SPACE FOR SH	IUIVI INIF	
CONNECTED LOG CONNECTED LOG Cooling	+	+						1.32	15.99		17 1 4			_	105.4	10E A	CI	CI	CI	D		
OAD CLASSIFICATION CONNECTED LOAD Cooling 56415 VA Sitchen Equipment 52903 VA sighting 4981 VA Motor 7736 VA Jon-Continuous 2500 VA	2.39	9	#12	#12	20 A	20 A	2			1.32	17.14		45	3	125 A	125 A	SL	SL	SL	D		L
booling 56415 VA itchen Equipment 52903 VA ighting 4981 VA lotor 7736 VA ion-Continuous 2500 VA				OT 4 :	0011	ICOTCO	1045	40.4	14/4	47.0	17/4		15									L
Cooling 56415 VA Citchen Equipment 52903 VA ighting 4981 VA Motor 7736 VA Ion-Continuous 2500 VA	۸D		- 1	UIAL		IECTED			2 kVA	47.2			kVA	AVVID	AI	OTES:					DDEAKED OHANITITIES (VIEW ON W	_
(itchen Equipment) 52903 VA ighting 4981 VA //otor 7736 VA Jon-Continuous 2500 VA	AU				חבו/	100.00					ESTI	5641		IAND	N	O1E9:					BREAKER QUANTITIES (NEW ONLY) (40) 20A / 1P, (4) 20A / 1P (L), (1) 20A	
ighting 4981 VA Motor 7736 VA Non-Continuous 2500 VA						65.00%						3438									(ST), (4) 20A / 2P, (2) 20A / 3P, (3) 7	
Motor 7736 VA Non-Continuous 2500 VA						125.00						6226									3P, (1) 125A / 3P	
						111.06						8592										
Receptacle 10290 VA						100.00						2500										
						98.59%	6					1014	5 VA									
																						_
										A N	TOT * :	•										_
						T-0	TAL C	20151E			TOTAL											_

							TOTAL	. DEM	AND A	AMPS:	328	Α								
	PANEL NAME: B																			
	SUPPLY FROM: A			MAIN	IS RAT	ING (A):	125						FAUI	LT CUF	RENT (A): 1933	38			SURGE SUPRESSION
	LOCATION: KITCHEN 106				MAIN	S TYPE:	MAIN L	UGS (DNLY			SHOR	T CIR	CUIT R	ATING (A): 2200	00			ULSE
	DISTRIBUTION SYSTEM: 208/120V 3PH 4W				FEE	DER ID:	125-4C	;						LU	JGS TYPE	Ξ :				200% NEUTRAL
	FEEDER: (4) #1/0 AWG CU, (1) #6	AWG C	CU GNI). IN 2	" CONI	DUIT							EN	CLOS	JRE TYPE	E: NEN	1A 1			ISOLATED GROUND
Т	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	Δ.	١	E	3	(;	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCI
	(GE) HEAT TRACE	1.431	#12	#12	20 A	20 A	1	0.27	1.63					1	20 A	20 A	#12	#12	2.537	(G) K56 - GARNISH UNIT KITC
	(G) K36 - COFFEE BREWER KITCHEN EQUIPMENT	0.405	#10	#10	30 A	30 A	2			2.39	0.18			1	20 A	20 A	#12	#12	1.143	(G) CO58 - CONVIENCE OUTLE
	FRONT KITCHEN 106A	2.405	#10	#10	30 A	30 A	2					2.39	0.18	1	20 A	20 A	#12	#12	1.115	(G) K46B - KDS SYSTEM NON

GE) HEAT TRACE G) K36 - COFFEE BREWER KITCHEN EQUIPMENT RONT KITCHEN 106A G) K35 - COFFEE BREWER, DECAF KITCHEN QUIPMENT FRONT KITCHEN 106A	2.405			20 A	20 A	1	0.27	1.63					-1	20 A	οο Λ	#12	#4O	2 527	(G) K56 - GARNISH UNIT KITCHEN EQUIPMENT	0
RONT KITCHEN 106A G) K35 - COFFEE BREWER, DECAF KITCHEN QUIPMENT FRONT KITCHEN 106A		#10	#10										- 1	20 A	20 A	# 2	#12	2.551	(a) Noo - GANINION UNIT NITONEIN EQUIPIVIENT	2
G) K35 - COFFEE BREWER, DECAF KITCHEN QUIPMENT FRONT KITCHEN 106A		#10	# IU	1 20 4	30 A	2			2.39	0.18			1	20 A	20 A	#12	#12	1.143	(G) CO58 - CONVIENCE OUTLET RECEPTACLE	4
QUIPMENT FRONT KITCHEN 106A			".5	30 A	30 A	2					2.39	0.18	1	20 A	20 A	#12	#12	1.115	(G) K46B - KDS SYSTEM NON-CONTINUOUS	6
	0 604	#12	#10	20. 4	20 A	2	1.66	1.60					1	20 A	20 A	#12	#12	2.064	(G) K69 - FOOD WARMER KITCHEN EQUIPMENT	8
	2.001	#12	#12	20 A	20 A				1.66	0.18			1	20 A	20 A	#12	#12	1.139	(G) CO58 - CONVIENCE OUTLET RECEPTACLE	10
G) K39 - ICE TEA BREWER KITCHEN EQUIPMENT	3.352	#12	#12	20 A	20 A	1					1.73	0.18	1	20 A	20 A	#12	#12	1.13	(G) CO58 - CONVIENCE OUTLET RECEPTACLE	12
G) K34 - HOT CHOCOLATE KITCHEN EQUIPMENT	3.33	#12	#12	20 A	20 A	1	1.68	1.50					1	20 A	20 A	#12	#12	2.555	(G) K61 - WAFFLE IRON KITCHEN EQUIPMENT	14
G) K33 - REFRIGERATED WORK TOP KITCHEN	1.801	#12	#12	20 A	20 A	1			0.66	1.40			1	20 A	20 A	#12	#12	2.383	(G) K72 - EGG STATION KITCHEN EQUIPMENT	16
G) K43 - SODA ICE I KITCHEN EQUIPMENT FRONT	1.651	#12	#12	20 A	20 A	1					0.60	0.60	1	20 A	20 A	#12	#12	1.523	(G) K68R - OPEN BURNER KITCHEN EQUIPMENT	18
G) B11- POS STATION I RECEPTACLE COUNTER	1.349	#12	#12	20 A	20 A	1	0.18	0.48					1	20 A	20 A	#12	#12	1.336	(G) CO67 - GAS, GRIDDLE KITCHEN EQUIPMENT	20
G) K26 - DISHWASHER RECEPTACLE KITCHEN 106	2.178	#10	#10	30 A	30 A	1			2.76	0.12			1	20 A	20 A	#12	#12	1.075	SV SV - SOLENOID VALVE KITCHEN EQUIPMENT	22
G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT	2.092	#12	#12	20 A	20 A	1					0.68	0.60	1	20 A	20 A	#12	#12	1.358	(G) K64 - POTATO GRIDDLE KITCHEN EQUIPMENT	. 24
G) K57 - FOOD WARMER KITCHEN EQUIPMENT	1.802	#12	#12	20 A	20 A	1	0.70	1.60					1	20 A	20 A	#12	#12	1.87	(G) K69 - FOOD WARMER W/ DRAIN KITCHEN	26
G) K48 - CONVEYOR TOASTER KITCHEN		440	#40	00.4	00.4	_			2.40	1.60			1	20 A	20 A	#12	#12	1.924	(G) K69 - FOOD WARMER W/ DRAIN KITCHEN	28
QUIPMENT FRONT KITCHEN 106A	2	#10	#10	30 A	30 A	2					2.40	0.18	1	20 A	20 A	#12	#12	1.079	(G) CO59 - CONVENIENCE OUTLET RECEPTACLE	30
G) K46 - POS SYSTEM I NON-CONTINUOUS	1.126	#12	#12	20 A	20 A	1	0.18	0.18					1	20 A	20 A	#12	#12	1.075	(G) CO59 - CONVENIENCE OUTLET RECEPTACLE	32
G) K46 - POS SYSTEM I NON-CONTINUOUS FRONT	1.116	#12	#12	20 A	20 A	1			0.18	1.26			1	20 A	20 A	#12	#12	2.578	(G) K11 - JUICER KITCHEN EQUIPMENT KITCHEN	34
G) K61 - WAFFLE IRON KITCHEN EQUIPMENT	2.877	#12	#12	20 A	20 A	1					1.50	1.26	1	20 A	20 A	#12	#12	2.471	(G) K11 - JUICER KITCHEN EQUIPMENT KITCHEN	36
G) K55 - GARNISH UNIT I KITCHEN EQUIPMENT	2.942	#12	#12	20 A	20 A	1	1.63	1.80					1	20 A	20 A	#12	#12	2.976	(G) K4 - MIXER KITCHEN EQUIPMENT KITCHEN 106	38
G) K46B - KDS SYSTEM I NON-CONTINUOUS	1.183	#12	#12	20 A	20 A	1			0.18	0.36			1	20 A	20 A	#12	#12	1.35	(G) K9 - SLICER KITCHEN EQUIPMENT KITCHEN 106	40
G) K61 - WAFFLE IRON KITCHEN EQUIPMENT	2.598	#12	#12	20 A	20 A	1					1.50	0.18	1	20 A	20 A	#12	#12	1.162	(G) FUSION PRINTER NON-CONTINUOUS KITCHE	42
GE) K17 - WALK-IN FREEZER LIGHTS, DOOR	1.934	#12	#12	20 A	20 A	1	0.60	0.30					1	20 A	20 A	#12	#12	1.146	(G) K89 - BUG LIGHT NON-CONTINUOUS KITCHEN	44
G) K32 - SODA EQUIPMENT I KITCHEN EQUIPMENT	. 1.525	#12	#12	20 A	20 A	1			1.44	0.36			1	20 A	20 A	#12	#12	1.588	(G) B16 - BACK BAR COOLER KITCHEN EQUIPMEN	. 46
G) BAR RECEPTACLE 102A,102B	3.208	#12	#12	20 A	20 A	1					1.08	0.00	1		20 A				SPARE	48
PARE				20 A		1	0.00	0.00					1		20 A				SPARE	50
PARE				20 A		1			0.00	0.00			1		20 A				SPARE	52
PARE				20 A		1					0.00	0.00	1		20 A				SPARE	54
	G) K33 - REFRIGERATED WORK TOP KITCHEN G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT G) B11- POS STATION RECEPTACLE COUNTER G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT G) K57 - FOOD WARMER KITCHEN EQUIPMENT G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT EQUIPMENT FRONT KITCHEN 106A G) K46 - POS SYSTEM NON-CONTINUOUS FRONT G) K46 - POS SYSTEM NON-CONTINUOUS FRONT G) K55 - GARNISH UNIT KITCHEN EQUIPMENT G) K46B - KDS SYSTEM NON-CONTINUOUS G) K461 - WAFFLE IRON KITCHEN EQUIPMENT G) K461 - WAFFLE IRON KITCHEN EQUIPMENT	G) K33 - REFRIGERATED WORK TOP KITCHEN G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT G) B11- POS STATION RECEPTACLE COUNTER G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 G) K37 - FOOD WARMER KITCHEN EQUIPMENT C) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT C) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT C) K46 - POS SYSTEM NON-CONTINUOUS C) K46 - POS SYSTEM NON-CONTINUOUS FRONT C) K46 - WAFFLE IRON KITCHEN EQUIPMENT C) K55 - GARNISH UNIT KITCHEN EQUIPMENT C) K46B - KDS SYSTEM NON-CONTINUOUS C) K46B - WAFFLE IRON KITCHEN EQUIPMENT C) K46B - WAFFLE IRON KIT	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 G) B11 - POS STATION RECEPTACLE COUNTER 1.349 #12 G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT 2.092 #12 G) K57 - FOOD WARMER KITCHEN EQUIPMENT 1.802 #12 G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT 2 #10 #10 #10 #10 #11 #	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 G) B11 - POS STATION RECEPTACLE COUNTER 1.349 #12 #12 G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 #10 #10 G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT 2.092 #12 #12 #12 G) K57 - FOOD WARMER KITCHEN EQUIPMENT 1.802 #12 #12 #12 G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT 2 #10	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 20 A G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 20 A G) B11 - POS STATION RECEPTACLE COUNTER 1.349 #12 #12 20 A G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 #10 30 A G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT 2.092 #12 #12 20 A G) K57 - FOOD WARMER KITCHEN EQUIPMENT 1.802 #12 #12 20 A G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT 2 #10 #10 30 A G) K46 - POS SYSTEM NON-CONTINUOUS 1.126 #12 #12 20 A G) K46 - POS SYSTEM NON-CONTINUOUS 1.116 #12 #12 20 A G) K46 - POS SYSTEM NON-CONTINUOUS 1.116 #12 #12 20 A G) K55 - GARNISH UNIT KITCHEN EQUIPMENT 2.877 #12 #12 20 A G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A G) K46 - WAFFLE IRON KITCHEN EQUIPMENT 2.942 #12 #12 20 A G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A G) K46B - WAFFLE IRON KITCHEN EQUIPMENT 2.598 #12 #12 20 A G) K32 - SODA EQUIPMENT KITCHEN EQUIPMENT 1.525 #12 #12 20 A G) BAR RECEPTACLE 102A,102B 3.208 #12 #12 20 A G) BAR RECEPTACLE 102A,102B 3.208 #12 #12 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE 20 A G) BARRE	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 20 A 20 A 20 A G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 20 A 20 A 20 A 20 A 20 B 20 B	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 20 A 20 A 1 G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 20 A 20 A 1 G) B11- POS STATION RECEPTACLE COUNTER 1.349 #12 #12 20 A 20 A 1 G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 #10 30 A 30 A 1 G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT 2.092 #12 #12 20 A 20 A 1 G) K57 - FOOD WARMER KITCHEN EQUIPMENT 1.802 #12 #12 20 A 20 A 1 G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT 2 #10 #10 30 A 30 A 2 EQUIPMENT FRONT KITCHEN 106A 2 #10 #10 30 A 30 A 2 EQUIPMENT FRONT KITCHEN 106A 2 #10 #10 30 A 30 A 2 EQUIPMENT FRONT KITCHEN EQUIPMENT 1.116 #12 #12 20 A 20 A 1 G) K46 - POS SYSTEM NON-CONTINUOUS 1.126 #12 #12 20 A 20 A 1 G) K61 - WAFFLE IRON KITCHEN EQUIPMENT 2.877 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A 20 A 1 G) K46B - WAFFLE IRON KITCHEN EQUIPMENT 2.598 #12 #12 20 A 20 A 1 G) K32 - SODA EQUIPMENT KITCHEN EQUIPMENT 1.525 #12 #12 20 A 20 A 1 G) K32 - SODA EQUIPMENT KITCHEN EQUIPMENT 1.525 #12 #12 20 A 20 A 1 G) BAR RECEPTACLE 102A,102B 3.208 #12 #12 20 A 20 A 1 G) BAR RECEPTACLE 102A,102B 3.208 #12 #12 20 A 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) BARE 20 A 1 G) B	G) K33 - REFRIGERATED WORK TOP KITCHEN G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 20 A 20 A 1 G) B11- POS STATION RECEPTACLE COUNTER G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 #10 30 A 30 A 1 G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 #10 30 A 30 A 1 G) K57 - FOOD WARMER KITCHEN EQUIPMENT G) K57 - FOOD WARMER KITCHEN EQUIPMENT 1.802 #12 #12 20 A 20 A 1 G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT 2 #10 #10 30 A 30 A 2 G) K46 - POS SYSTEM NON-CONTINUOUS 1.126 #12 #12 20 A 20 A 1 G) K46 - POS SYSTEM NON-CONTINUOUS FRONT 1.116 #12 #12 20 A 20 A 1 G) K55 - GARNISH UNIT KITCHEN EQUIPMENT 2.877 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.183 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.184 #12 #12 20 A 20 A 1 G) K46B - KDS SYSTEM NON-CONTINUOUS 1.185 #12 #12 20 A 20 A 1 G) K61 - WAFFLE IRON KITCHEN EQUIPMENT 2.598 #12 #12 20 A 20 A 1 G) K61 - WAFFLE IRON KITCHEN EQUIPMENT 2.598 #12 #12 20 A 20 A 1 G) K32 - SODA EQUIPMENT KITCHEN EQUIPMENT 1.525 #12 #12 20 A 20 A 1 G) BAR RECEPTACLE 102A,102B 3.208 #12 #12 20 A 20 A 1 3.208 #12 #12 20	G) K33 - REFRIGERATED WORK TOP I KITCHEN G) K43 - SODA ICE I KITCHEN EQUIPMENT FRONT G) B11- POS STATION I RECEPTACLE COUNTER G) B11- POS STATION I RECEPTACLE KITCHEN 106 G) K26 - DISHWASHER I RECEPTACLE KITCHEN 106 G) K57 - FOOD WARMER I KITCHEN EQUIPMENT C) WELL WITCHEN EQUIPMENT C) K46 - POS SYSTEM I NON-CONTINUOUS C) K46 - POS SYSTEM I NON-CONTINUOUS FRONT C) K61 - WAFFLE IRON I KITCHEN EQUIPMENT C) K55 - GARNISH UNIT I KITCHEN EQUIPMENT C) WELL WITCHEN EQUIPMENT C) WE	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 20 A 20 A 1 0.66 G) K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 20 A 20 A 1 0.18 0.48 G) B11- POS STATION RECEPTACLE COUNTER 1.349 #12 #12 20 A 20 A 1 0.18 0.48 G) K26 - DISHWASHER RECEPTACLE KITCHEN 106 2.178 #10 #10 30 A 30 A 1 2.76 G) B1 - BACK BAR COOLER KITCHEN EQUIPMENT 2.092 #12 #12 20 A 20 A 1 0.70 1.60 G) K57 - FOOD WARMER KITCHEN EQUIPMENT 1.802 #12 #12 20 A 20 A 1 0.70 1.60 G) K48 - CONVEYOR TOASTER KITCHEN EQUIPMENT 2 #10 #10 30 A 30 A 2 2.40 EQUIPMENT FRONT KITCHEN 106A 2 #10 #10 30 A 30 A 2 2.40 G) K46 - POS SYSTEM NON-CONTINUOUS 1.126 #12 #12 20 A 20 A 1 0.18 0.18 G) K46 - POS SYSTEM NON-CONTINUOUS FRONT 1.116 #12 #12 20 A 20 A 1 0.18 0.18 G) K61 - WAFFLE IRON KITCHEN EQUIPMENT 2.877 #12 #12 20 A 20 A 1 0.18 G) K65 - GARNISH UNIT KITCHEN EQUIPMENT 2.942 #12 #12 20 A 20 A 1 0.18 G) K61 - WAFFLE IRON KITCHEN EQUIPMENT 2.598 #12 #12 20 A 20 A 1 0.18 G) K61 - WAFFLE IRON KITCHEN EQUIPMENT 2.598 #12 #12 20 A 20 A 1 0.60 0.30 G) K32 - SODA EQUIPMENT KITCHEN EQUIPMENT 1.525 #12 #12 20 A 20 A 1 0.60 0.30 G) K32 - SODA EQUIPMENT KITCHEN EQUIPMENT 1.525 #12 #12 20 A 20 A 1 0.00 0.00 G) BARE	G) K33 - REFRIGERATED WORK TOP KITCHEN	G K33 - REFRIGERATED WORK TOP I KITCHEN 1.801 #12 #12 20 A 20 A 1 0.66 1.40 0.6	G) K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 20 A 20 A 1 0.66 1.40 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0	G K33 - REFRIGERATED WORK TOP KITCHEN 1.801	G K33 - REFRIGERATED WORK TOP I KITCHEN	G K33 - REFRIGERATED WORK TOP I KITCHEN 1.801 #12 20 A 20 A 1 0.66 1.40 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 1 20 A 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1.40 1 20 A 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1.40 1 20 A 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1.40 1 20 A 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1.40 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1.40 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.60 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 3 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 30 A 1 0.66 1.40 0.66 1.40 0.60 1 20 A 20 A 20 A 30 A 1 0.66 0.60 1 20 A 20 A 30 A 1 0.66 0.60 1 20 A 20 A 30 A 1 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 2 0.66 0.60 1 20 A 20 A 30 A 3	G K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12 20 A 20 A 1 0.66 1.40 1 20 A 20 A #12 30 K43 - SODA ICE KITCHEN EQUIPMENT FRONT 1.651 #12 #12 20 A 20 A 1 0.60 0.60 1.40 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 1 0.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A 30 A 1 0.70 1.60 0.60 0.60 1 20 A 20 A #12 30 A 30 A	G K33 - REFRIGERATED WORK TOP KITCHEN 1.801 #12 #12	G K33 - REFRIGERATED WORK TOP KITCHEN	State Stat

		16.0 kVA 1	17.1 kVA	15.1 kVA		
DAD CLASSIFICATION CONNECTED L	OAD DEMAND FACTOR		ESTIM	ATED DEMAND	NOTES:	BREAKER QUANTITIES (NEW ONLY)
chen Equipment 43972 VA	65.00%			28582 VA	FEEDER TO PANEL B SHALL BE AT LEAST	
on-Continuous 2070 VA	100.00%			2070 VA	15'-0" LONG.	(GE), (1) 20A / 2P (G), (1) 30A / 1P (G),
eceptacle 2160 VA	100.00%			2160 VA		(2) 30A / 2P (G)
		PAN	IEL TOTALS	\$		

TOTAL CONNECTED LOAD: 48.2 kVA DEMAND CALCULATION NOTES: TOTAL DEMAND: 32.8 kVA

TOTAL DEMAND AMPS: 91 A

PANEL SCHEDULE GENERAL NOTES

PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
PROVIDE LOCKING TYPE BREAKER FOR ALL LIFE SAFETY AND NIGHT LIGHTING BRANCH CIRCUITS.
ALL VOLTAGE DROP CALCULATIONS AND COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT
LENGTHS TO THE LAST DEVICE. ACTUAL VOLTAGE DROP VARIES BASED ON INSTALLED WIRE LENGTH.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

04/17/2020 15 West Seventh Street, Covington, KY 41011

> www.agi-us.com designing where you want to **go**.

P: 859.261.5400 F: 859.261.5530



MECHANICAL/ELECTRICAL ENGINEERS WWW.KLHENGRS.COM

Revisions:



FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

ELECTRICAL PANEL

SCHEDULES AND SINGLE LINE

F. F. Z. Z. PRECESSED LED LIGHT FIXTUR: Other: 2. WANTING/HOSTESS 101 (Common Space Types: Active Storage) 1. 1 6 10 5. OFFICE 107 (Common Space Types: Active Storage) 5. F. F. Z. Z. PRECESSED LED LIGHT FIXTUR: Other: 1. 1 34 4. COUNTER SERVICE 108 (Common Space Types: Active Storage) A. A. RECESSED CAN LIGHT FIXTUR: WITH: Other: 1. 5 11 5. 11 7. P. P. DINING PENDANT LIGHT ANTIQUE WITH: Other: 1. 6 6 6. 12. DINING 102B (Common Space Types: Active Storage) 8. P. P. P. DINING PENDANT LIGHT RUSTIC FAR: Other: 1. 1 6 6 6. 12. DINING 102B (Common Space Types: Active Storage) 8. P. P. P. DINING PENDANT LIGHT RUSTIC FAR: Other: 1. 1 6 6 6. 12. DINING 102B (Common Space Types: Active Storage) 7. 1 7 1 4 6 7. 1 1 4 6 8. 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 4 6 8. 6 8. 7 1 1 1 8 8. 6 8. 7 1 1 8 8. 6 8. 7 1 1 8 8. 6 8. 7 1 1 8 8. 6 8. 7 1 1 8 8. 6 8. 7 1 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 6 8. 7 1 8 8. 7 1 8 8. 7 1 8	34 60
T1: T1: JUNO TRACMASTER SINGLE CIRCUIT: Other: F.F: 2X2' RECESSED LED LIGHT FIXTUR: Other: 1 1 34 4-COUNTER SERVICE 108 (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 5 11 P4: P4: DINING PENDANT LIGHT ANTIQUE WH: Other: 1 6 6 1-DINING 102B (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 6 6 P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 1 8 6 P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 1 8 6 P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 1 8 6 P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 1 8 6 P8: P5: DINING PENDANT LIGHT BASIC CORD: Other: 1 1 4 6 P8: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 2 4 6 P6: P6: P6: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 7 1 42 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 0 0 480 11-FRONT KITCHEN 106A (Common Space Types: Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applical mandatory requirements listed in the Inspection Checklist.	60
F: F: 2'X2' RECESSED LED LIGHT FIXTUR: Other: 4-COUNTER SERVICE 108 (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 5 11 P4: P4: DINING PENDANT LIGHT ANTIQUE WH: Other: 1-DINING 102B (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 6 6 P7: P7: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 8 6 P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 8 6 P1: T1: T1: Track with limiter: Wattage based on circuit breaker capacity (5 amps x 120 volts) 0 0 600 10-DINING 102A (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 7 1 42 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 0 0 480 11-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applical mandatory requirements listed in the Inspection Checklist.	
A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 6 6 E-DINING 102B (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 6 6 P7: P7: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 8 6 P7: P7: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 1 8 6 P7: P7: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 1 8 6 P8: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 10-DINING 102A (Common Space Types:Active Storage) P9: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 1 7 1 42 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 0 0 480 11-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems had designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and advanced the specifications of the proposed interior lighting systems had designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and advanced the proposed interior lighting systems had designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and the proposed interior lighting the prop	34
P4: P4: DINING PENDANT LIGHT ANTIQUE WH: Other: 1 6 6 1-DINING 102B (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 6 6 P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 8 6 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (5 amps x 120 volts) 0 0 600 10-DINING 102A (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 7 1 42 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 0 0 480 11-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting PASSES: Design 22% better than code Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems had designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applical mandatory requirements listed in the Inspection Checklist.	55
P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: P7: P7: DINING PENDANT LIGHT BASIC CORD: Other: 1 8 6 71: T1: T1: Track with limiter: Wattage based on circuit breaker capacity (5 amps x 120 volts) 0 0 600 D-DINING 102A (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 7 1 42 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 0 0 480 I-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting Compliance Statement Interior Lighting Compliance Statement Interior Statement: The proposed interior lighting design represented in this document is consistent with the build decifications, and other calculations submitted with this permit application. The proposed interior lighting systems have signed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and datory requirements listed in the Inspection Checklist.	36
T1: T1: Track with limiter: Wattage based on circuit breaker capacity (5 amps x 120 volts) 0 0 0 600 D-DINING 102A (Common Space Types:Active Storage) P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: 1 4 6 P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: 7 1 42 T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 0 0 480 I-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting PASSES: Design 22% better than code Interior Lighting Compliance Statement Interior Statement: The proposed interior lighting design represented in this document is consistent with the build decifications, and other calculations submitted with this permit application. The proposed interior lighting systems have signed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and dandatory requirements listed in the Inspection Checklist.	36
P5: P5: DINING PENDANT LIGHT RUSTIC FAR: Other: P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 1	48 600
P6b: P6b: DINING PENDANT LIGHT BEAM WITH: Other: T1: T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 1-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: Total Proposed Watts = Interior Lighting PASSES: Design 22% better than code Interior Lighting Compliance Statement Impliance Statement: The proposed interior lighting design represented in this document is consistent with the build pecifications, and other calculations submitted with this permit application. The proposed interior lighting systems have esigned to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and active requirements listed in the Inspection Checklist.	000
T1: T1: Track with limiter: Wattage based on circuit breaker capacity (4 amps x 120 volts) 1-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = Interior Lighting PASSES: Design 22% better than code Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build pecifications, and other calculations submitted with this permit application. The proposed interior lighting systems have esigned to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and analysis of the comply requirements listed in the Inspection Checklist.	24
1-FRONT KITCHEN 106A (Common Space Types:Active Storage) A: A: RECESSED CAN LIGHT FIXTURE WITH: Other: 1 9 11 Total Proposed Watts = nterior Lighting PASSES: Design 22% better than code nterior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems had designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and active requirements listed in the Inspection Checklist.	42 480
nterior Lighting PASSES: Design 22% better than code Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and attention of the proposed in the Inspection Checklist.	
Interior Lighting PASSES: Design 22% better than code Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application mandatory requirements listed in the Inspection Checklist.	99
nterior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build pecifications, and other calculations submitted with this permit application. The proposed interior lighting systems have esigned to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any application and application of the Inspection Checklist.	2274
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the build specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have lesigned to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applical nandatory requirements listed in the Inspection Checklist.	
Project Title: FIRST WATCH LEE'S SUMMIT Report date	
Data filename: G:\21000-21999\21700-21799\21715\Project Data\Energy\Compliance\Lighting Page Report\Electric.cck	: 10/18

Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast

B C D E

Lamps/ # of Fixture (C X D)

Text in th requireme	ent, the user certifies that a code re	007) Standare directly in the Consistency is provided by to equirement will be	d
Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
8.4.1.1, 8.4.1.2 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)		
Project Title:	FIRST WATCH LEE'S SUMMIT	2 Nedidil impact (nel 2)	Report date:	10/18/	 19
Data filename:	G:\21000-21999\21700-21799\217 Report\Electric.cck	'15\Project Data\Energy\Compliance\Lighting	Page	3 of	6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.1 [EL1] ²	Automatic controls to shut off all building lighting installed in buildings >5,000 ft2.	□Complies □Does Not	Requirement will be met.
	>5,000 112.	□Not Observable □Not Applicable	
9.4.1.2 [EL2] ²	Independent lighting controls installed per approved lighting plans and all	□Does Not	Requirement will be met.
	manual controls readily accessible and visible to occupants.	□Not Observable □Not Applicable	
9.4.1.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved	□Complies □Does Not	Requirement will be met.
	lighting plans.	□Not Observable □Not Applicable	
9.4.2 [EL5] ³	Ballasted one and three lamp fixtures with >30 W/lamp have two lamp tandem wired ballasts when >=2 fixtures in same space on same control.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
9.4.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the	□Complies □Does Not	Requirement will be met.
	approved lighting plans and is automatically controlled and separated from general lighting.	□Not Observable □Not Applicable	

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

Data filename: G:\21000-21999\21700-21799\21715\Project Data\Energy\Compliance\Lighting

1 2 11 22

1 6 11 66

1 1 6 6

1 14 38 532

Report date: 10/18/19

Report date: 10/18/19

Page 4 of 6

Page 1 of 6

Additional Comments/Assumptions:

Project Title: FIRST WATCH LEE'S SUMMIT

A: A: RECESSED CAN LIGHT FIXTURE WITH: Other:

A: A: RECESSED CAN LIGHT FIXTURE WITH: Other:

3-KITCHEN 106 (Common Space Types:Active Storage) E: E: 2'X4' RECESSED LED LIGHT FIXTUR: Other:

S4: S4: WALL MOUNTED LIGHT: Other:

Project Title: FIRST WATCH LEE'S SUMMIT

8-MEN'S TOILET ROOM 104 (Common Space Types:Active Storage)

Data filename: G:\21000-21999\21700-21799\21715\Project Data\Energy\Compliance\Lighting

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.

	1 14:	ab Impact (Tior 1)	2	Madium Impact (Tion 2)	2	Low Impact /Tic
	I HI	gh Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tie
Project Title:	FIRST WATCH	LEE'S SUMMIT				
Data filename:			15\Pr	oject Data\Energy\Compliand	:e\Li	ighting
	Report\Electric	.CCK				

Report date: 10/18/19

Page 5 of 6

Project Title: FIRST WATCH LEE'S SUMMIT Data filename: G:\21000-21999\21700-21799\21715\Project Data\Energy\Compliance\Lighting

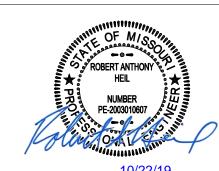
LIGHTING CONTROL DEVICES AND SYSTEMS SHALL BE TESTED TO ENSURE THE HARDWARE AND SOFTWARE IS CALIBRATED, PROGRAMMED, AND IN PROPER WORKING ORDER. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL REQUIRED INSTALLATION CERTIFICATES AND SHALL PROVIDE MANUALS FOR LIGHTING CONTROL DEVICES TO OWNER PRIOR TO PROJECT CLOSE-OUT. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH APPROPRIATE PARTIES TO ARRANGE FOR TESTING/COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS AND SHALL BE RESPONSIBLE FOR FOR SHALL BE RESPONSIBLE FOR TESTING/COMMISSIONING OF THE LIGHTING CONTROL Report date: 10/18/19 SYSTEMS AND SHALL BE RESPONSIBLE FOR ENSURING ANY/ALL REQUIRED FUNCTIONAL TESTING FORMS ARE COMPLETED AND SUBMITTED TO THE OWNER AND LOCAL AHJ PRIOR TO PROJECT CLOSE-OUT. Page 6 of 6

LIGHTING CONTROL FUNCTIONAL TESTING:

CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

15 West Seventh Street, Covington, KY 41011 P: 859.261.5400 F: 859.261.5530 www.agi-us.com

designing where you want to go.



WWW.KLHENGRS.COM



FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

ELECTRICAL

ENERGY COMPLIANCE

Whenever the words "contractor", "this contractor", etc. appear on drawings or in these specifications for the Electrical Work, it shall refer to the Electrical Sub-Contractor. Whenever the word "Provide" appears in these documents, it shall be interpreted to mean "Furnish and Install". Whenever the word "Relocate" appears in these documents, it shall be interpreted to disconnect electrical feed, make safe including lock out, store and protect device, reinstall, rework and extend conduit and wire to new location, re-energize and test.

The exact mounting height of devices shall be determined in the field with relation to architectural details and equipment being served. It shall be the responsibility of this contractor to coordinate outlet location with equipment. The Owners representative shall be permitted to relocate any outlet prior to installation within a 15 foot limit at no additional charge in contract price. All fasteners, hangers and methods of hanging exposed work in finished areas shall be submitted to the Owners representative for approval before installation.

The contract includes all items of material and labor required for the complete installation and full operation of the electrical work as shown on the drawings and hereinafter specified. All materials and methods shall be in accordance with applicable codes, regulations and/or ordinances and meet the approval of local inspection authority having jurisdiction. The latest edition of NFPA 70 (NEC/National Electrical Code) shall be the minimum requirement for all work. Examine the drawings and specifications for compliance with the above codes, regulations and ordinances and base bid and work accordingly. Obtain and pay for all permits and inspections related to this work. A certificate of approval for work from inspection authority shall be given to the Owner before final acceptance will be given by Owners

All work, materials, and equipment shall have a one-year warranty after acceptance of the work by the Owner. Any defective items shall be removed and replaced at the electrical subcontractor's expense and to the satisfaction of the engineer and owner's representative.

Perform work under this contract in close harmony with other contractors so completed work shall present a neat and workmanlike installation. Exposed finished materials and equipment shall be carefully cleaned and wiped to remove grease, smudges, fingerprints, dust and other spots and left smooth and clean. During the progress of the work, the electrical subcontractor shall carefully clean the job site and shall leave the premises and all portions of the building in which he is working free of debris and in a clean and safe condition.

This contractor shall be responsible for the training of owner's representatives of each system to the satisfaction of the Owners representative.

The Electrical Contractor shall consult the Plumbing, HVAC and Structural plans (where applicable) in all instances before installing his work so that his work will not interfere with those branches. In the event of a conflict, this contractor shall report to the Owners representative at once and do no further work to be installed until a satisfactory arrangement is decided upon. Any work done, or equipment placed in position by this contractor, creating a conflict in violation hereof, shall be readjusted to the satisfaction of the Owner's representative at the expense of the contractor. The decision of the Owners representative shall be final in regard to changes due to conflicting conditions. Contractor shall complete his work or any part thereof at such time as may be designated by the Owner, so that it can be used for temporary or permanent use and such use of the system shall not be construed as an acceptance of same by Owner.

Two sets of electrical drawings shall be provided as record drawings which shall be separate, clean, copies reserved for the purpose of showing a complete picture of the work as actually installed. These drawings shall also serve as work progress report sheets and the electrical contractor shall make any notations, neat and legible thereon daily as work proceeds. The drawings shall be available for inspection at all times and shall be kept at the job at a location designated by the Owners representative. At the completion of the work, these record drawings shall be signed by the electrical contractor, dated and returned to the Owners representative. Final payment of contract will not be made until receipt and review of said drawings.

Provide two neatly bound (with tabbed sections) copies of maintenance books, instruction books and parts list pertaining to all equipment furnished. Submit to the Owners representative for approval. Final payment will not be made until drawings for record, maintenance and instruction manuals are delivered to the Owners representative.

26 05 02.00 - COMMON ELECTRICAL MATERIALS AND METHODS

All materials and equipment shall be new. All materials, apparatus and equipment shall bear the seal of Underwriters Laboratories Inc. (UL), or a similar credible testing agency, label where regularly supplied. Certain manufacturers of material and equipment are specified and plans are detailed according to this material. This contractor shall base his bid on furnishing and installing this make of material and equipment.

Where more than one make of material or equipment is specified, the contractor shall state in his bid which make he proposes to furnish. Shop drawings shall be submitted on material and equipment to be furnished by the contractor for Engineers approval. This approval to be obtained prior to shipment of equipment.

Hold routing of new raceways in new and existing buildings as tightly as possible to the structure above. Obtain approval of owner's representative prior to installation. Do not install any electrical work within 6 inches of roof decking.

Neatly dress all work. Install all work parallel and perpendicular to surfaces or exposed structural members, and follow surface contours, where possible. Keep conductor splices to minimum. Install splice and tap connectors which possess equivalent or better mechanical strength and insulation rating than conductors being spliced. Use splice and tap connectors which are compatible with conductor material. All wires shall be run continuous from outlet to outlet/luminaire to luminaire. Insulation value of joints shall be 100% in excess of wire. Provide adequate length of conductors within electrical enclosures and train the conductors to terminal points with no excess. Bundle multiple conductors, with conductors no larger than 10 AWG cabled in individual circuits. Make terminations so there is no bare conductor at the

Maintain a uniform elevation for all cable runs wherever possible. All cables shall be supported/anchored at maximum 4 foot intervals and within 12" of box or outlet and shall not sag. Install cables in a manner that prevents overheating. Cables shall be fastened directly to the structure using factory clamps/clips specifically designed for the respective cable (Caddy

Keep conductor splices to minimum. Pull conductors simultaneously where more than one is being installed in same raceway. Use UL listed pulling compound or lubricant, where necessary. Increase wire sizes to offset voltage drop as/if required.

Branch subfeeder circuits shall be installed as shown on the floor plans. Where outlets are indicated by letters on plans, they shall be controlled by corresponding switches.

Outlets shall be located approximately as shown on the plans and shall be wired to provide control of outlets indicated. All wires of any one circuit shall be run in the same conduit.

Mechanical wire splicers shall be Scotchlock insulated type, TandB Stakon or approved equal. The conductors terminating at each wired outlet shall be left not less than 8" long at their outlet fittings to facilitate installment of devices or luminaires. Friction and rubber tape conform to Federal Specifications HH-T-11 and HH-T-111. Plastic electrical tape shall be Scotch #33+ or approved equal.

Do not share neutrals when amongst multiple branch circuits or with multi-wire branch

Provide grounding electrode conductors for service entrances and derived systems.

Provide all feeders and branch circuits with insulated (green covering) equipment grounding.

Only install conduit exposed on rooftops when it is impossible to do otherwise, or only if specifically indicated for such installation case-by-case elsewhere in documents. Installation convenience, financial considerations, lack of coordination with other trades and similar rationale are not sufficient reasons for doing so. In cases where conduits must be installed on rooftops, de-rate conductors and modify conduit sizes as needed to accommodate this condition. Provide expansion fittings, which are UL listed and labeled for the respective applications, at all building expansion joints and at maximum distances of 100 feet. Paint all such conduits with at least two coats of UV-resistant weatherproof paint. Provide white paint on flat rooftops that have finishes white in color, and for otherwise-colored roof finishes that are not visible from the building interior or from the ground outdoors. Elsewhere select colors to match surrounding surfaces; submit colors to Architect for review in advance of procuring

Maintain a uniform elevation for all cable runs wherever possible. All cables shall be supported/anchored at maximum 4-foot intervals and within 12" of box or outlet and shall not sag. Install cables in a manner that prevents overheating. Cables shall be fastened directly to the structure using factory clamps/clips specifically designed for the respective cable (Caddy

Provide all cutting and patching required for the admission of work. Any damage done by this contractor to the building during the progress of work shall be made good at contractor's own expense. All patching shall be done by a skilled craftsman in that respective trade. It shall be the responsibility of this contractor to supervise the installation of, and pay for all additional members, wood or metal and labor which may be required to support any type of permanent or temporary electrical apparatus employed in the execution of this contractor's work.

Access Doors: Do not use access doors unless special prior written permission is granted from the Owner's Representative. Install pull boxes, junction boxes, etc. in areas which are accessible after completion of construction. Do not install pull boxes or junction boxes above gypsum board or similar inaccessible ceiling systems. Where there is no other recourse but to provide an access door/panel, and where approval of Owner's Representative has been obtained, provide required access doors/panels as required for a complete code-compliant electrical installation as defined below. Provide access doors in fire/smoke ratings that meet or exceed the surrounding surface that is being penetrated.

Seal all new floor, ceiling, wall, slab, etc. penetrations to match or exceed existing assembly fire ratings. Provide sleeve seals for all sleeves, provide sleeves for all penetrations. All penetrations of fire-rated or smoke-rated wall, floors ceilings, etc. shall be sealed immediately after raceways are installed. All new electrically related work shall be supported directly from building structural members. New electrically related work shall not be supported from ductwork, ductwork hanger, ceiling supports, existing conduit support, etc.

26 05 03.00 - SUBMITTALS FOR ELECTRICAL SYSTEMS

Provide submittals in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of that Division.

Some Divisions may include a division-specific "Submittal Requirements for" section. Where this section exists, it articulates additional requirements for submittals that apply to

The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review.

Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings. Separate PDF file packages shall be supplied for each section, for each submittal type. Each PDF shall represent a single standalone submittal.

Include a transmittal: Transmittals shall enumerate each submittal for each section of each

Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrs.com.

Include an index: The index shall enumerate the contents of the submittal.

Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contractcompliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 – Original submission, 01 – First Resubmission, 02 – Second Resubmission, etc...). Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection.

Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example: The original/first product data submittal for Section 260519 would be labeled as "260519.00-PD-00"; the first resubmittal of same shall be labeled "260519.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "260519.00-SD-00"; the first resubmittal of same shall be labeled "260519.00-SD-01".

If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer.

"Request Drawings" form can be accessed, filled out and submitted at http://www.klhengrs.com (right hand side of page - Contractor Resources). Direct access to this form can be found here: http://files.klhengrs.com/requestdrawings.html

26 05 19.00 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

Submittal Requirements Product Data: For each type of conductor and cable.

Furnish and install all necessary cable of the size and type indicated on the drawings or specified hereinafter. All wire shall be copper. All wiring shall be new. No wire smaller than #12 AWG shall be installed unless specifically designated. Use of #14 color coded wire will be allowed for control circuits only. Provide stranded conductors for all sizes unless indicated otherwise.

Provide THHN/THWN-2 insulation for all conductors as appropriate for the locations where installed. Provide color coded insulation/jacket for phase identification. All wires shall be rated at 600 volts. Provide type XHHW-2 insulation for all wiring below grade or subject to

Unless specifically indicated otherwise on drawings, provide grounded ("neutral") conductors that are at least parity-sized with corresponding phase/line conductors for all applications.

All conductors shall be rated for 90 deg. C. minimum. Provide with full parity sized green insulated equipment ground conductor. Provide compatible steel fittings with integral red plastic insulated throat bushings. Cables shall be 90 deg. C. rated with all components and fittings listed for grounding and compliant with the following: UL Std.4 and UL Std. 83; ANSI E119 and E814; NFPA 70.

Aluminum Conductors: Where applicable for electrical equipment connections for aluminum wiring, provide the following supplemental requirements and work regardless of who furnishes the equipment or what type of equipment is affected. Review equipment submittals, installation documents and nameplates to determine if there are any warranty or UL limitations regarding copper versus aluminum wiring connections at equipment. If there are any limitations, provide local non-fused disconnect at or near equipment (external to the equipment) and terminate aluminum conductors to the line side terminals of the disconnect switch. Provide copper conductors from load side terminals of the disconnect switch to the respective equipment factory disconnect or terminals as applicable. Provide UL-Listed AA-8000 series compact-stranded conductors compliant with specifications, prevailing codes and end-use equipment manufacturer requirements. Provide appropriately UL-Listed

Cables: Route cables perpendicular and parallel to the building architectural lines, surfaces, and structural members, keeping offsets to a minimum and following surface contours where possible. Maintain a uniform elevation for cable runs wherever possible. Support and anchor cables at maximum 4 foot intervals and within 12" of box or outlet in a manner that prevents sagging. Install cables in a manner that prevents overheating. Fasten cables directly to the structure using factory clamps and clips (zip ties and like products are not permitted) specifically designed for the respective cable (Caddy or equal). Cables may be utilized only if code-approved for the intended use and in the limited applications defined below.

connectors as recommended by conductor manufacturer.

Type MC (Metal-Clad) Cable: Form from continuous length of spirally wound, interlocked zinc-coated or galvanized (inside and outside) strip steel or aluminum jacket, with stranded copper conductors with 90 deg. C THHN insulation system. Provide for final connections to luminaires that are installed in accessible tile ceiling systems (limited to 6' maximum in length and limited to "whips" from building electrical system junction boxes down to luminaires). Do not install Type MC cable from fixture to fixture unless a special properly listed and labeled UL approved system is specifically indicated. . Provide for new 15 through 30 ampere branch circuit work. This applies only under all of the following circumstances and conditions: Provide only where concealed (Install wiring for exposed applications in raceway)

26 05 26.00 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

All metallic conduit, surface raceways, wireways, supports, cabinet and equipment shall be grounded.

26 05 29.00 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

It shall be the responsibility of the electrical contractor to supervise the installation of and pay for all additional members, wood or metal and labor which may be required to support any type of permanent or temporary electrical apparatus employed in the execution of the electrical contractor's work. Provide supports, anchors, sleeves and seals furnished as part of factory-fabricated equipment as required. Locations and routing that may be shown on plans are schematic and diagrammatic in nature.

Conduit shall be supported by approved straps, fasteners and hangers. Hangers shall be suspended from rods. Perforated straps will not be acceptable. Fasteners shall be lead expansion shields in block or concrete, toggle bolts in hollow walls, machine screws on metal surfaces and wood screws on wood construction. At building expansion joints and where deflection is expected, conduits shall be provided with expansion fittings with bonding jumpers. Conduits passing through structural members shall be provided with stub and coupling or sleeve in the member. Where moisture conditions are encountered, a hole shall be drilled at the lowest point in the conduit run. Also provide sleeves for all fire wall and smoke partition penetrations (sealed accordingly).

All conduit shall be supported independently from all other building systems and shall be supported directly from structural components. Electrically related work shall not be supported from ductwork, ductwork hangers, ceiling supports, existing conduit supports, etc.

Use of synthetic or plastic "tie-wraps", "zip ties", "wire ties" and similar products are not permitted as a permanent means of anchoring, securing, supporting or otherwise installing any cables, conductors, conduits, raceways, devices, equipment or other electrical work.

Cut, fit, and place miscellaneous metal fabrications accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.

All conduits, raceways and cables (where applicable) shall be routed parallel and perpendicular to building structural members. Any and all noncompliant work installed by the electrical contractor shall be removed and reinstalled by the electrical contractor to the satisfaction of the Owner's representative and the Engineer, at the expense of the electrical contractor. At building expansion joints and where deflection is expected, provide conduits with expansion fittings with bonding jumpers. Conduits passing through structural members shall be provided with stub and coupling or sleeve in the member. Where moisture conditions are encountered, a hole shall be drilled at the lowest point in the conduit run. Provide sleeves for all fire wall and smoke partition penetrations (sealed accordingly).

Stem lengths of all pendant fixtures shall be as directed by the owner's representative. All fasteners, hangers and method of hanging exposed work in finished areas shall be submitted to the owner's representative for review before installation. Fasteners shall be zinc-coated, type, grade, and class as required for a neat finished installation.

Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded. Install anchor bolts to elevations required for proper attachment to supported equipment. Provide female expansion anchors, and install studs and nuts after equipment is positioned. Provide bushings for floor/wall-mounted equipment anchors to allow for resilient media between anchor bolts/studs and mounting hole in concrete.

Touchup Painting: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop

Provide supports for multiple raceways capable of supporting combined weight of supported systems, equipment, connected systems and associated components/contents. Provide supports adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this project, with a minimum structural safety factor of five times the applied

Coordinate installation of roof curbs, equipment supports, and roof penetrations.

Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly. Construct with 9/16" dia. holes, nominal 2" o.c. on top surface, with standard factory finish, and with the all necessary fittings which mate and match with U-channel. Provide metallic coatings that are hot-dip galvanized after fabrication and applied according to MFMA-4. Provide channel dimensions that are selected for applicable load criteria. Comply with NECA 1 and NECA 101 unless requirements in this or other specification sections are stricter.

Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.

Riser clamps for supporting rigid metal conduit: Galvanized steel; with 2 bolts and nuts, and

Clevis hangers for supporting rigid metal conduit: Galvanized steel with 1/2" dia. hole for round steel rod.

Galvanized steel clamps: 1/2" rod size.

Galvanized steel clamps: 1-1/4" x 3/16" stock; 3/8" cross bolt; flange width 2".

Two-hole conduit straps for supporting 3/4" rigid metal conduit: Galvanized steel; 3/4" strap width; and 2-1/8" between center of screw holes.

Offset conduit clamps for supporting rigid metal conduit: Galvanized steel.

Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be

Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened All raceways shall be entirely free of plaster, mortar, water and other foreign matter before Portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used. Where specified on drawings as a corrosive area, expansion anchors shall be stainless steel. Provide anchors by Hilti Inc. or equal.

Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.

Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached

Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.

Toggle Bolts: All-steel galvanized springhead type, 3/16" x 4".

Hanger Rods: Threaded steel, Galvanized steel rods; 1/2" dia min.

Clevis hangers: For supporting rigid metal conduit; galvanized steel; with 1/2" dia. hole for

Galvanized steel rod reducing couplings, 1/2" x 5/8".

Galvanized steel clamps; 1/2" rod size.

Galvanized steel clamps, 1-1/4" x 3/16" stock; 3/8" cross bolt; flange width 2".

Hexagon nuts for 1/2" rod size; galvanized steel.

Lead expansion anchors, 1/2".

structural element.

Minimum Hanger Rod Size for Raceway: Minimum rod size shall be 1/4 inch in diameter.

Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted, sized so capacity can be increased by at least 50 percent in future without exceeding specified design load limits. Secure raceways and cables to these supports with two-bolt conduit clamps, single-bolt conduit clamps, or single-bolt conduit clamps using spring friction action for retention in support channel as applicable.

Overhead Electric Work: Install work so that no raceway or cable is within six inches below roof deck(s). Suspend and support overhead electrical work from roof trusses and joists/joist girders only at panel points, at top cord only, unless otherwise indicated.

Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb.

Mounting To Wood: Fasten with lag screws or through-bolts. Provide Standard Grade, lightframing-size lumber of any species. Number 3 Common or Standard Grade boards complying with WCLIB or AWPA rules, or Number 3 boards complying with SPIB rules. Lumber shall be preservative treated in accordance with AWPB LP-2, and kiln dried to a moisture content of not more than 19 percent. Provide marine grade products where subject to moisture conditions. Provide Simpson Strong Tie (or equal) expansion screw anchors. Cut, fit, and place wood grounds, nailers, blocking, and anchorage accurately in location, alignment, and elevation to support and anchor electrical materials and equipment. Select fastener sizes that will not penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood settlement, lateral movement, undermining, washout, and other hazards created by members. Attach to substrates as required to support applied loads.

Attachments to Wood Structural Members: Provide bolts installed through members.

Mounting To New Concrete: Provide channel-type concrete inserts and bolt to inserts, or provide expansion anchors for applications where inserts are not practical.

Mounting To Existing Concrete: Expansion anchor fasteners. Instead of expansion anchors, powder/gas-actuated driven threaded studs provided with lock washers and nuts may be used adjacent to the excavated areas and trenches and utilize it in the final stage of backfilling in existing standard-weight concrete 4 inches thick or greater. Do not use for anchorage to operation. Grade exposed earth and other erodible areas to a reasonably uniform, and lightweight-aggregate concrete or for slabs less than 4 inches thick. Do not use for work anchored to newly installed concrete. Only use this method where other methods cannot or should not be used, and only after receiving case-by-case permission from Owner and design Backfill Materials: As specified on drawings or in details.

Holes for Expansion Anchors in Concrete: Drill at locations and to depths that avoid reinforcing

Mounting To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.

Mounting To Steel: Welded threaded studs complying with AWS D1.1/D1.1M, with lock washers and nuts, or beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69, clamped to flanges of beams or on upper truss chords of bar joists.

Mounting To Light Steel: Sheet metal screws.

Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate.

Fabricated metal equipment support assemblies: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.

Roof Decks: Do not suspend overhead hangers, or support any other overhead electrical work, from roof decks.

Plywood Equipment Boards: Lumber shall be preservative treated in accordance with AWPB 26 05 53.00 - IDENTIFICATION FOR ELECTRICAL SYSTEMS LP-2. and kiln dried to a moisture content of not more than 19 percent. Provide plywood panels; APA C-D PLUGGED INT, with exterior glue; thickness as indicated, or if not indicated, not less than 3/4 inches deep. Provide marine grade plywood where subject to moisture conditions. Unless otherwise noted, boards shall be painted with two coats of good grade weatherproof flat gray non-conductive fire-retardant paint on all sides and edges (prior to mounting) and plumbed in a true vertical position. Provide nominal 1/2" rustproof spacers between back of plywood and wall. Maintain at least 4 inches from bottom of plywood equipment boards and the finished floor surface. Unless directed otherwise in field, plywood equipment boards shall be 8 feet high by 3/4 inches deep by length shown on drawings (as dimensioned or as scaled) or length as required to accommodate equipment if not indicated on drawings. Provide plywood equipment boards at locations as shown on drawings. Unless directed otherwise in field, plywood equipment boards shall be provided for all surface mounted panelboards and systems "head-end" equipment for all applications where located in mechanical or electrical rooms and only where specifically shown on drawings for all other applications.

26 05 33.00 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

Normal system power feeders and branch circuits shall be installed in separate raceways from emergency system power. All wiring for different power voltages shall be installed in raceway systems separate from each other. All wiring for the various electrical systems shall be installed in raceway systems separate from each other.

All conduit installed indoors shall be galvanized steel EMT (3/4" minimum); all fittings shall be set-screw or compression type steel, with insulated throats. Unless indicated otherwise on drawings or in other parts of the electrical specifications, all wiring of all systems shall be installed in conduit.

Conduit shall be cleaned inside before any wires are pulled. Conduit ends shall be capped and plugged with standard accessories as soon as conduit has been permanently installed. Conduit installed without conductors shall be provided with sweep bends and baling wire for

All joints shall be made tight with watertight couplings matching conduit and all corners shall be made with long radius elbows. The ends of all conduits shall be cut square and reamed and all joints brought to a shoulder. Conduit shall be continuous between outlets to make a

complete installation and to provide a continuous ground. Suitable supports and fastening shall be provided for conduit.

installing conductors or cables.

Plugmold: Provide "plugmold" equal to Legrand #2000 series with single NEMA 5-15R receptacles on nominal 9-inch centers. Provide "ScuffCoat" finish in color as directed by Design Professional. Provide factory fittings, dividers, clips, and other accessories as required for a neatly installed complete and operable installation.

In general, gang type outlet boxes shall not be used. The outlet box locations indicated on drawings shall be considered approximate, and therefore, it shall be incumbent upon this contractor to study the general construction with relation to spaces and equipment surrounding each outlet. All outlet, switch and junction boxes shall be made of code galvanized steel complete with rings and screw cover plates and located where shown and noted on drawings. Where conduit is concealed, boxes shall not be less than 4" square x 1-1/2" deep. All boxes shall be equipped with proper covers to bring flush with finished wall

Where outlet boxes occur in block, cinder, or concrete block, facing tile or other material where such materials form the finished wall surface, the opening for the box shall be cut neatly and of the size that the cover plate will cover all parts of the opening. Condulets shall be used on exposed raceways. In general, junction boxes shall be constructed of #12 gauge steel with removable front fastened on with counter sunk head screws or other approved means. For special application, junction boxes shall be noted, detailed and/or sized on the drawings or in the field as required.

Prior to rough-in, verify all box/device mounting heights and locations in field with Owners representative. In general, where not located at counter areas, the height of boxes from finished floor to center of boxes shall be as follows, unless otherwise noted on plans. In cases where using center of box for measurement would result in a switch-height device having an operable component higher than 48 inches above finished floor, install boxes lower as needed so that uppermost part of operable component is no higher than 48 inches. Switches: 3'10"

Receptacles: 1'6" (unless counter height) Telephone Outlets (desk phone): 1'6" Telephone Outlets (Wall phone): 3'10" Data Cable Outlets: 1'6" Control Stations: 3'10" Other devices: As directed in field.

26 05 43.00 - UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS

Coordinate trench locations in reference to other underground utilities. Call before you dig to locate existing underground utilities in excavation areas. Request any available documentation of existing underground work. Support and protect existing services during excavation operations. Ensure no other utilities are placed directly above or below, when parallel to conduits. Locations and routing that may be shown on plans are schematic and diagrammatic in nature. Do not excavate under the drip line of any tree without permission of the owner's representative.

Protect excavated openings with substantial railings, fencing, signage, shoring, and steel roadway plates in strict compliance with OSHA/NIOSH and as directed by Owner's Representative in field. Where roadwork is to be performed, coordinate all work with the Department of Transportation (DOT) and comply with all DOT requirements. Schedule all work with DOT and restore roadways, curbs and sidewalks as quickly as possible. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by excavation operations.

Provide adequate shoring, bracing, cold weather protection and dewatering for all excavation. Provide fill materials in 8 inch lifts and compact to 95%. Seal and protect raceways, boxes and structures during installation.

After installation of underground raceway(s), properly restore all items disturbed by excavation and equipment including but not limited to streets, sidewalks, curbs, concrete, blacktop surfaces and lawn areas that were broken. Separately stockpile excavated topsoil

Excavated or borrowed material: Prior to backfilling, remove rock and gravel larger than 2 inches in any dimension, debris, waste, frozen materials, vegetable matter, and other deleterious matter.

26 05 48.00 - VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS

Provide seismic bracing of mechanical and electrical components where required by code. Provide seismic restraint systems to meet total design lateral force requirements for support and restraint of piping, ductwork, equipment and other similar systems and equipment where required by the applicable building code.

Seismic restraint designer shall coordinate all attachments with the structural engineer of record. Provide engineered stamped and signed drawings of seismic design. Seismic restraint designer shall provide visual inspection after installation and approve installation of seismic design components. Design analysis shall include calculated dead loads, static seismic loads, and capacity of materials utilized for the connection of the equipment or system to the structure. Analysis shall detail anchoring methods, bolt diameter, and embedment depth. All seismic restraint devices shall be designed to accept without failure the forces calculated per the applicable building code. Friction from gravity loads shall not be considered resistance to seismic forces.

Equipment Grounding:

penetrate substrate.

Systems:

Provide manufacturers standard self-adhesive vinyl tape not less than 3 mils thick by 1-1/2" wide. Where applicable, install on all concealed raceways at connection to all junction boxes, pull boxes, equipment, wall/floor/roof penetrations, etc. Unless otherwise indicated or required by governing regulations, provide orange tape with black letters. Provide circuit identification bands for all cables and conductors. Provide manufacturers standard color coding for cable/conductor jacket and/or insulation for all cables and conductors of all systems. Match identification with marking system used in existing systems (where applicable), shop drawings, contract documents, and similar previously established identification for projects electrical work. Provide on all conductors of all systems.

The following insulation color code shall be used for system and voltage identification. This shall apply to both feeder and branch circuit wiring. Interchange of colors shall not be 208Y/120V System: Black, Red, Blue and White (neutral)

Provide engraved plastic-laminate sign on major units of electrical equipment, including panelboards, disconnects, starters, control panels, etc. Except as otherwise indicated, provide single line of text, 1/2" high lettering, on 1-1/2" high sign (2" high where 2 lines are required), white lettering in black field. Unless determined otherwise in field, provide text matching terminology and numbering of the contract documents and shop drawings. Secure to substrate with fasteners, except use adhesive where fasteners should not or cannot

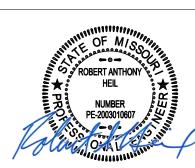
To match existing where applicable - verify in field.

All equipment and system identification nomenclature shown on drawings or listed herein is shown for general design and installation reference only. The actual nameplate, etc. nomenclature for this project shall be verified by electrical contractor in field prior to fabrication and where applicable, shall be an extension of existing nomenclature used on the site as determined in field by electrical contractor.

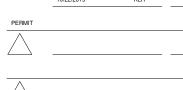
Equipment to Be Labeled: All enclosures for all electrical equipment furnished or installed under Divisions 26 and 28; Remote-controlled switches, dimmer modules, and control devices, via engraved wall plates; Miscellaneous Control Stations; Access doors and panels for concealed electrical items; Other similar equipment designated by owner's representative, architect or engineer in field.

CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI













FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

ELECTRICAL **SPECIFICATIONS**

Locations of equipment and devices are shown only for schematic indication of wiring

Refer to all contract documents for additional electrical requirements and concerns, and for further representation of this work.

Provide raceway, wiring, connections, and terminations for power and interlocks for electrically operated equipment.

Provide disconnect switch ahead of all equipment, including controls, unless the mechanical equipment comes with integral disconnect(s) that are compliant with NFPA 70. Provide NEMA 3R enclosures where installed outdoors and where installed indoors in areas subject to moisture. Ground metal frames of equipment by connecting frames to the grounded metal raceway and to a full size green ground conductor or both. Provide the necessary electrical connections between the specified equipment and the junction box near equipment with flexible metallic conduit (liquid-tight outdoors) and matched connectors (see Section 26 05 33). Where mechanical equipment lugs cannot accommodate conductor sizes shown on drawings, provide ILSCO ClearTap Insulated Multi-Tap Connectors.

Sizes, electrical ratings, etc. of equipment and wiring shown on drawings are based on the respective equipment design base manufacturers. If different manufacturer(s) or model(s) are supplied, provide necessary coordination in field (prior to ordering materials and prior to rough-in) and provide the necessary size of related electrical equipment, wiring, conduit, etc.

Prior to furnishing submittals and prior to rough-in, determine exact electrically related characteristics, loads, voltages, disconnect and starter requirements, locations, mounting heights, connection points, etc. of mechanical equipment.

Provide lugs, lug kits and related accessory work as required to accommodate the conductor sizes and quantities needed for each application. Coordinate with single-line diagram, field conditions, equipment installers, etc.

HACR Breakers: Coordinate in field with the respective trades and determine case by case, which equipment is factory listed for use with Heating and Air Conditioning Rated (HACR) breakers. To minimize requirements for stocking of fuses by the owner, utilize HACR breakers at the source panelboards as the required overcurrent protection wherever possible (in lieu of fusing local disconnect switches).

Disconnect and Controller Locations: Locations shown on drawings are indicated for schematic purposes only. Determine exact locations in field. Refer to Electrical Coordination Schedules on drawings. Provide disconnects, starters, accessories, wiring, connections, services, etc. where defined as "EC" in the schedule. Information in this section supplements the information in the schedules. Provide power wiring and connections for all equipment (including motor dampers and accessories where applicable) as required to render equipment fully operational. Install local disconnects and starters at 48 inches to top of outlet box or enclosure where applicable above finished floor/slab/grade. Provide flush mounted units in finished areas. Provide key operated manual starters where accessible to unauthorized personnel, including general public.

Maintenance Receptacles for Rooftop Units, Rooftop Exhaust Fans and any Miscellaneous Exterior Equipment: Provide Type WR duplex GFCI weatherproof receptacle within 25 feet of all electrically operated equipment of any nature that requires periodic testing or maintenance.

Refer to Coordination Schedules on drawings for information associated with equipment. Provide disconnects, starters, accessories, wiring, connections, services, etc. where defined as "EC" in the schedule. Information in this section supplements the information in schedule(s).

Commercial Kitchen Exhaust Hoods and Related Fan Equipment: Refer to detail(s) on

Refer to food service drawings, food service specifications and manufacturer's submittals for specific information. Field-coordinate work with affected entities.

Note that multiple kitchen hoods may exist, and any single hood shown may actually consist of multiple sections. Provide electrical work for hoods as required to render them and ancillary

Submittal Requirements systems/controls fully operational. Provide power wiring and connections to line side of factory disconnect switches for fan units.

Provide interlock wiring and connections to and from the various equipment and controls. Provide control wiring from the fan units to respective remote duct stats. Provide control wiring to and from duct heat sensors.

Provide 120V, single-phase, 2-wire, 20 ampere wiring and connections to the indoor hood bodies for factory hood lights and for control circuits.

Provide control wiring from the indoor hood bodies to respective fan units. Provide 120V, 2-wire (#12 AWG) control wiring connections from indoor hood bodies to

contacts on factory micro-switch in respective hood fire suppression system. Provide auxiliary control circuit wiring from the factory micro-switch in the hood fire suppression systems to respective dedicated fire alarm system monitor modules to initiate alarm signal when respective hood fire protection system is activated. Provide auxiliary control circuit wiring from the factory micro-switch in the hood fire

suppression system to contactor control coil(s). Provide empty octagon box for mechanical manual pull station (and install pull station) for each hood fire protection system (mounted at 48" to top of outlet box above finished floor) with (1) 1/2" empty conduit routed up and over to hood as directed by hood installer in field (w/sweep 90's). Field verify location.

Provide interlock control wiring between gas solenoid shut off valves and respective kitchen hood fire suppression system. Coordinate with affected installers.

Domestic Water Heaters (Gas): Provide 120V power connection. Provide interlock wiring with circulating pumps, flow switches and aquastat controls where applicable.

Domestic Water Heaters (Electric): Provide local disconnect switch, and power wiring and connections. Provide interlock wiring with circulating pumps, flow switches and aquastat controls where applicable.

Domestic Hot Water Circulating Pumps (Return Line): Provide manual starter with pilot light, and wire pump to operate through the aquastat. Refer to wiring diagrams on drawings for further definition.

Heat Trace (Cord and Plug): Review documents of all mechanical trades to determine extent and specifics related to heat trace requirements for the project. Any loads, quantities, circuits, connection locations, etc. that may be indicated on electrical drawings are shown for design-phase schematic representation only. Coordinate with all installers that may have heat trace for their piping or equipment to determine loads, quantities, required circuits, connection locations, etc. for each application. Provide such coordination prior to furnishing submittals and prior to commencing with any rough-in work. Provide dedicated circuit(s) and dedicated receptacle(s) as required. Provide receptacles that are ground fault equipment protection circuit interrupter type (GFEPCI, per NFPA 70 Article 427-22). Provide cover plate for each receptacle that is weatherproof type, rated NEMA 3R while In use. Provide this special type cover plate whether installed outdoor or indoor (to help deter personnel from inadvertently unplugging the heat trace). Provide power wiring and connections as required to render all heat trace fully operational.

General Control Wiring Requirements: Unless specifically indicated as empty conduit on drawings or herein, provide electrical control and interlock work as shown on drawings. Provide additional control work as specifically indicated herein. Coordinate HVAC thermostat and sensor locations in field (case by case) with Architect, Owner's Representative and equipment installer to ensure that they are placed in locations that will not interfere with furniture, equipment, artwork, wall-hung specialties, room finishes, etc. Field-verify these wall locations case by case, prior to rough-in, since locations shown on drawings are schematic only.

Schematic Thermostat and Sensor Locations: Refer to applicable drawings and documents.

Low Voltage Thermostats and Sensors: Provide 4-inch square by 2-1/8 inch deep wall outlet boxes at 46 inches above finished floor to center of outlet box (with single-gang rings) for each unit. Provide one 3/4 inch empty conduit from each location, turned out above

accessible ceilings (in joist space or against overhead slab/deck). Identify conduit in ceiling cavity; provide sweep bends, bushings and drag line.

Line Voltage Thermostats and Sensors: Provide 4-inch square by 2-1/8 inch deep wall outlet boxes at 46 inches above finished floor to center of outlet box (with single-gang rings) for each unit. Provide line voltage power wiring, in 3/4 inch conduit, and connections from thermostats and sensors to respective equipment that is to be controlled by same. Install thermostats and sensors.

Motor Operated Dampers: Provide wiring associated with interlock of motors to associated motor dampers. Provide local disconnect at each motor damper if fan is not furnished with one. Where HVAC equipment or exhaust fans are controlled by VFC/VFD units, wire motor operated dampers (MOD's) back to the respective VFC/VFD unit separately from the respective exhaust fan power wiring, with (2) #12 AWG in 3/4 inch conduit. Provide local disconnect for each such MOD.

26 09 19.00 - ENCLOSED CONTACTORS

Provide contactors equipped with external pilot lights in cover, and external HOA selector switches in cover. Wire contactors for lighting applications so that the "AUTO" position is the normal activated condition (i.e. photocell controlled, photocell/time-clock controlled, remote switch controlled, BAS controlled, etc.); so that the "OFF" position is manual override to turn lighting off; and so that the "HAND" position is manual override to turn lighting on. Provide contactors with field convertible N.O./N.C. contacts and descriptive nameplates.

Electrically Held Contactors: Provide contactors equal to Square D Class 8903 (or Allen-Bradley Bul. 500L-BA*94 series) for tungsten lighting loads, ballast lighting loads, and small resistance heating loads. Provide contactors that are electrically operated and electrically held (EOEH). Provide contactors in factory NEMA 1 enclosures, with 120V coils (unless indicated otherwise elsewhere or otherwise required to render controls fully operable). Provide "dry" contacts rated at 30A, minimum 250V (600V if required by application). Provide number of poles (minimum of three poles) and number of contactors as required for each application. Field verify coil voltage ratings.

26 09 23.00 - LIGHTING CONTROL DEVICES

Submittal Requirements

Product Data: For equipment, materials and systems specified in this section. Include product data, descriptive information, technical data, wiring diagrams, load

Occupancy Sensors, Passive Infrared Wall Switches: Provide Wattstopper PW-100 wall switch (or equivalent) and configure as manual on, auto off (vacancy sensor) unless otherwise specified on drawings. Provide with time delay as specified on drawings. If no time delay is specified, program to 10 minutes.

Occupancy Sensors, Dual Technology Ceiling Sensors: Provide Wattstopper DT-300 ceiling mounted occupancy sensor (or equivalent). Provide with time delay as specified on drawings. If no time delay is specified, program to 20 minutes. Adjust sensitivity based on field conditions and occupancy of room to provide 100% coverage without nuisance tripping. Provide Wattstopper BZ-250 universal voltage pack(s) as required to properly power all occupancy sensors and provide switching per the design intent. In areas where multiple occupancy sensors control a single zone together, interlock occupancy sensors/power packs per manufacturer instructions to meet control intent.

Momentary-Contact Toggle Switches: Provide Standard of Quality equal to Legrand LVS-1, 3 Amp, 24 VAC/VDC, single-pole, double-throw with center rest, designed to fit conventional toggle switch openings.

26 09 26.00 - LIGHTING CONTROL PANELBOARDS

Submittal Requirements

Product Data: For equipment, materials and systems specified in this section. Include product data, technical data, wiring diagrams, relay schedules, bus configurations, load restrictions, sequence of operation, switch plate designs, circuit breaker details, etc.

26 24 16.00 - PANELBOARDS

Product Data: For each provide bus configuration, current ratings, voltage ratings, SCCR Ratings, overcurrent protective device(s), surge suppression device(s), accessory, and components indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes.

Subject to compliance with requirements, provide panelboard products of one of the following (for each type and rating of panelboard and enclosure): Square D Company, General Electric Company, Siemens, Eaton/Cutler-Hammer.

Panelboards shall bear UL labels for their specific applications. Panelboards shall be suitable for service voltage with number of branch circuits of capacity scheduled. Unless otherwise indicated, panelboards and sections thereof, if any, shall have main-lugs-only of capacity equal to, or greater than, the rating or setting of the over the current protective device next back on the line. All circuit breaker panelboard bus assemblies shall be of the distributed (sequence) bussing type throughout, so that any 2 adjacent single pole breakers and/or spaces shall be replaceable by a 2-pole internal common trip breaker, and any 3 adjacent single pole breakers and/or spaces shall be replaceable by a 3 pole internal common trip breaker, 15 amp through 70 amp inclusive, without disturbing any other breaker. All panelboards shall be UL listed and labeled for use as service entrance

208Y/120V panelboards shall be equal to Square D NQ with bolt-on branch breakers

All bussing shall be copper or aluminum.

equipment where being used as such.

All branch circuit breakers shall be full ambient compensated thermal magnetic molded case with quick-make and quick-break action and positive handle trip indication, both on manual and on automatic operation. Breakers shall be of the over-the-center toggle operating type with the handle going to a position between "on" and "off" to indicate automatic tripping. All breakers shall be bolt-on type.

All circuit breakers shall be full size. "Tandem" or "split" breakers shall not be permitted. All multi-pole breakers shall have internal common trip with all load side box lugs of one breaker in the same gutter. All circuit breakers shall have sealed cases to prevent tampering. All 15 and 20 ampere branch circuit breakers shall be UL Listed as SWD (switching duty). All 15-70 ampere branch circuit breakers shall be HACR Type. All GFCI circuit breakers shall be UL Class A with maximum threshold of 5 mA. All branch circuit breakers serving all ballasted (fluorescent/HID) lighting loads shall be HID rated.

Provide all electrical distribution related equipment with appropriately braced bussing and properly rated breakers, fuses, etc. for the available fault currents. In existing buildings where fault current values are not indicated on drawings, coordinate with existing "upstream" distribution equipment provide equipment AIC ratings to meet or exceed same.

Fill out panelboard's circuit directory card upon completion of installation work. Directories shall be neatly typewritten. All panelboard directories shall include the actual room names/numbers that are selected for interior signage/designation.

All recessed panelboards shall be provided with a minimum of three 1-1/4" empty conduits terminated to a single 12" X 12" X 6" deep junction box above accessible ceiling.

26 27 26.00 - WIRING DEVICES

Submittal Requirements

Product Data: For each type include electrical characteristics, configurations, ratings, markings, colors, etc.

Unless specifically indicated otherwise, or directed otherwise in field, provide white color for normal utility wiring devices.

Provide grounded ("neutral") conductors in all wall switch, dimmer and other lighting control outlet boxes, even if not immediately utilized.

Provide wall plates with engraved legends where indicated on drawings and/or where required per 26 05 53.00 - IDENTIFICATION FOR ELECTRICAL SYSTEMS Section. All device wall plates shall be standard size; "midway", "oversized" ("jumbo") or "extra deep" wall plates shall not be acceptable. Construct with metal screws for securing plates to devices; screw heads colored to match finish of plates. Except where/if indicated otherwise on drawings, wall plates in finished areas shall be commercial specification grade, satin finish stainless steel, with beveled edges, equal to Leviton Type 430 series. Wall plates in unfinished areas shall be galvanized steel unless otherwise noted. Refer to architectural finish schedules and owner representative for additional information.

Wall-Box Type Lighting Controls:

Provide wall switches, that are flush self-grounding with green ground screw and colorcoded cover, snap toggle type, back and side wired, specification grade. Provide wall switches rated 20A, 120/277 volts, 1 HP at 120V, A.C. quiet type.

Single-Pole Switches: Equal to Leviton #1221-2 series. Double-Pole Switches: Equal to Leviton #1222-2 series.

Receptacles:

Special purpose receptacles shall be of the size, type and manufacturer as indicated on the plans or as determined in field.

Weather Resistant (WR) GFCI Receptacles: Provide for all receptacles installed in damp or wet locations. Any receptacle shown on the drawings with "WP/GFCI" next to it denoting exterior cover shall be installed with a WR GFCI receptacle. Provide duplex weather resistant receptacles equal to Leviton # W7899 series. Provide Weather-Resistant Receptacles with UL "WR" marking. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents.

Duplex and Single Specification Grade Receptacles: 2-pole, 3-wire grounding, selfgrounding, green grounding screw, ground terminals and poles internally connected to mounting yoke, color coded base, 20-amperes, 125-volts, with metal plaster ears, back and side wiring, NEMA configuration 5-20R. Provide duplex receptacles equal to Leviton #5362 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Provide receptacles equal to Leviton #5361 series for simplex (single) applications. Provide clock hanger receptacles equal to Leviton #5361-CH.

Self-Grounding Commercial Specification grade, Duplex Receptacles, Ground-Fault Circuit Interrupters: Feed-thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL-rated 943, Class A, Group 1, specification grade, 20amperes rating (device and feed-thru), 125-volts, 60 Hz; with solid-state ground-fault sensing and signaling (maximum threshold of 5mA at 0.025 seconds maximum); equip with 20ampere plug configuration, NEMA 5-20R. Provide ground fault circuit interrupter duplex receptacles equal to Leviton #8898 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Where GFCI protected receptacles are shown on drawings, provide a separate GFCI receptacle for each one shown. Do not feed downstream receptacles from load-side (GFCI-protected) terminals of upstream receptacles

Self-Grounding, Duplex Specification Grade Safety Type Receptacles: 2-pole, 3-wire grounding, self-grounding, green grounding screw, ground terminals and poles internally connected to mounting yoke, color coded base, 20-amperes, 125-volts, with metal plaster ears, back and side wiring, NEMA configuration 5-20R, with shutter mechanisms for tamper resistant applications. Provide duplex safety type receptacles equal to Leviton #5262-SG series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents.

Self-Grounding, Duplex Combination USB-Charger/Tamper-Resistant Type Receptacles: 2pole, 3-wire grounding, self-grounding, green grounding screw, ground terminals and poles internally connected to mounting yoke, color coded base, 20-amperes, 125-volts, with metal plaster ears, back and side wiring, NEMA configuration 5-20R, with shutter mechanisms for tamper resistant applications. Comply with NEMA WD 1, NEMA WD 6 Configuration 5-20R, UL 498, and UL 943 Class A, and UL 1310. Provide one 20 Amp, 125 Volt, Decora Tamper-Resistant Duplex Receptacle, NEMA 5-20R. Provide two 3.6 Amp, 5VDC, 2.0 Type A USB Chargers. Provide integral smart chip that recognizes and optimizes the charging power of the plugged-in device. Label to comply with prevailing codes. Provide duplex safety type receptacles equal to Leviton #T5832 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents.

Floor Boxes: Refer to floor box schedule on drawings.

26 28 13.00 - FUSES

Extra Material

Fuses: Furnish fuses equal to 10% of project quantity not exceeding (10) for each amperage. Furnish no fewer than (2) for single phase applications and (3) for three phase applications.

All fuses shall be of the same manufacturer. Subject to compliance with requirements, provide fuses of one of the following: Bussman, LittelFuse, Shawmut (A4BQ series).

Except as otherwise indicated, provide fuses of types, sizes, ratings, and average timecurrent and peak let-through current characteristics indicated, which comply with manufacturer's standard design, materials, and constructed in accordance with published product information, and with industry standards and configurations. Fuses 1 ampere through 600 amperes shall be rejection type. Fuses 601 amperes through 6000 amperes shall be Hi-Cap, bolt type.

Provide UL Class RK1 time-delay, dual-element (with pure silver links) fuses equal to Bussman #LPS-RK1 (600V) or Bussman #LPN-RK1 (250V) rated 60 Hz with 200,000 RMS symmetrical interrupting current rating for protecting service entrances and distribution feeders 600 amperes and below.

Provide UL Class RK5 time-delay, dual-element (with pure silver links) fuses equal to Bussman #LPS-RK5 (600V) or Bussman #LPN-RK5 (250V) rated 60 Hz with 200,000 RMS symmetrical interrupting current rating for protecting general duty motors.

Provide factory fuse identification labels, installed on the inside of the door of each switch indicating type and size of fuses installed. For types and ratings required, furnish additional fuses, amounting to 10 percent of fuses supplied, but not less than one set of 3 of each kind.

Each fuse shall be clearly factory marked with classification, characteristics, ampere ratings, voltage ratings, etc. Fuses shall not be shipped installed in switches nor shall they be installed in the equipment until the equipment until the equipment is ready to be energized.

Prior to installing fuses for protection of specific equipment, motors, etc., verify recommended fuse size/type in field from respective equipment manufacturer. If a conflict in fuse size/type results between manufacturer's recommendations and above specifications, contact engineer. Provide all required fuses under base bid. Install fuses in fused switches.

26 28 16.00 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

Submittal Requirements

Product Data: For each type include dimensioned elevations, sections, weights, and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes. Include current ratings, voltage ratings, short circuit current ratings, accessories, breaker features, trip unit information as appropriate, etc.

Subject to compliance with requirements, provide equipment of one of the following manufacturers: General Electric Co.; Siemans/ITE; Square D Co.; Westinghouse/Cutler-Hammer. Disconnect switches shall be equal to Square D Type HD. All Safety Switches/Disconnects shall be heavy duty, safety type, quick make and quick break and externally operated. Unless noted otherwise on drawings or directed otherwise in field, all disconnect switches shall be fused. Unless noted otherwise on drawings or directed otherwise in field, brace all disconnect switches for 200,000 A.I.C. Provide heavy-duty switches, with fuses of classes and current ratings indicated and UL listed for use as service

equipment under UL Standard 98 or 869. Where current limiting fuses are indicated, provide switches with non-interchangeable feature suitable only for current limiting type fuses. Install disconnect switches within sight of controller position unless otherwise indicated.

26 29 13.00 - ENCLOSED CONTROLLERS

Subject to compliance with requirements, provide equipment of one of the following (for each type and rating): Allen-Bradley Co.; General Electric Co.; Siemans/ITE; Square D Co.; Westinghouse/Cutler-Hammer.

Except as otherwise indicated, provide motor starters and ancillary components; of types, sizes, ratings and electrical characteristics indicated, which comply with manufacturer's standard materials, design and construction in accordance with published product information, and as required for complete installations. All starters shall be equipped with pilot lights. All starters shall be sized according to load being served or as noted on drawings, whichever requirement is larger. Thermal overload elements shall be rated as recommended by motor manufacturer. Install and connect capacitors furnished by HVAC Contractors ahead of overloads where applicable.

Provide AC motor starters, of types, ratings and electrical characteristics required for specific END OF SPECIFICATION applications. Provide starters with thermal overload relays, with field adjustment capability of plus or minus 10 percent variation of nominal overload heater rating, for protection of motors as shown on drawings. Coordinate specific coil voltage requirements (case-by-case) in field with the respective installer who is providing the equipment to be served.

Manual Starters: Equal to Square D #2510 or Allen-Bradley Bul. 600-TQX109 flush mounted. 2-pole toggle switch type with neon pilot and NEMA 1 Type B enclosure for flush wall installation. Provide surface-mounted equivalents in unfinished areas where the starters cannot or should not be flush mounted. Provide single-phase AC fractional HP manual motor starters, of sizes and ratings required. Equip with manually operated quick-make, quick-break toggle mechanisms; and with one-piece melting alloy type thermal units. Equip with thermal overload relay with field adjustment capability of plus or minus 10% variation of nominal overload heater rating, for protection of fractional HP motors as shown on drawings. Starter shall become inoperative when thermal unit is removed. Provide starters with double break silver alloy contacts, visible from both sides of starter; green pilot lights, and switch capable of being padlocked-OFF.

Combination Starters: Provide external quick-make/quick-break non-fused disconnect switch in cover. Provide external "HAND-OFF-AUTO" (HOA) selector switch in cover (for local or remote control as required based on respective application). Provide external pilot light in cover. Provide external reset button in cover. Provide Form 2 NC/NO auxiliary contacts (rated at 15A/120V). Provide fused control power transformer. Provide combination starters in finished areas that are Size I minimum, equal to Square D #8538 or Allen-Bradley Bul. 512 with NEMA 1 Type B enclosure for flush wall installation. Provide combination starters for exposed conduit installations that are Size I minimum, equal to Square D #8538 or Allen-Bradley Bul. 512 with NEMA 1 surface mount enclosure.

26 51 00.00 - LIGHTING

Submittal Requirements

Product Data: For each type include detailed product information, light source, color temperature, color rendering index, lumen outputs, life, driver manufacturer, model and type, ceiling connection details, integral controls as applicable, drawings of custom fixtures or components, wiring diagrams, warranty, etc. Arrange luminaire submittals in booklet form with separate sheets for each luminaire, assembled by luminaire "type" in alphabetical order.

All recessed luminaires shall be equipped with necessary plaster frames and surface trim.

All junction boxes and serviceable components for recessed luminaires shall be readily accessible for service or replacement from below the ceiling, without removing any ceiling components (other than tiles).

All luminaires utilized for emergency and/or egress lighting shall be connected ahead of switching. All drivers of the same type shall be of the same manufacturer and catalog number. All LED modules of the same type shall be of the same manufacturer and catalog

Light Emitting Diode (LED) Systems: Provide factory installed LED modules that are specifically designed for, and matched and mated to, the respective luminaire in which they are used. Provide LED modules that can easily be replaced in the field and are readily accessible for replacement. Provide color temperature as indicated in Luminaire Schedule. Provide factory installed driver(s) for the LED source utilized that are specifically coordinated to the LED source and luminaire in which they are used. Provide driver(s) having specific operating characteristics defined in the Luminaire Schedule. Provide driver(s) that can easily be replaced in the field and are readily accessible for replacement. Provide specification sheet for the specific driver as part of the Luminaire Submittal. Provide Total Harmonic Distortion (THD) rating of less than 20 percent. Provide factory-installed integral filtering system to ensure THD does not exceed 20 percent regardless of quantities and/or mixes with other manufactured LED systems.

All surface and recessed ceiling luminaires installed on grid or tile ceilings shall be installed to agree with module of ceiling either displacing a tile, or unit on center of tile, or centered on

Provide luminaires and/or luminaire outlet boxes with hangers to properly support luminaire weight. All luminaires installed in or on suspended ceiling systems shall be anchored directly to the building structural system above. Such anchoring shall be independent of the ceiling support system. All luminaires shall be installed plumb and level. Support surface mounted luminaires greater than 2 feet in length at a point in addition to the outlet box luminaire stud.

Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting aimable luminaires to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose. Some of this work may be required after dark. Adjust aimable luminaires in the presence of Owner's Representative and Design Professionals.

28 46 21.33 - DUCT SMOKE DETECTORS

Refer to Division 26 sections for requirements associated with all electrical work not specifically defined in this section, which shall be considered additional and concurrent scope of work that is associated with work of this section. Provide submittals for equipment, materials and systems specified in this section. Include cuts, descriptive information, technical data, wiring diagrams, plan-view layouts, legend, point-to-point wiring, etc. Identify all information that is specific to this project. Submit to applicable authority or authorities having jurisdiction and obtain fire alarm permit prior to submitting to consultant for review.

Provide conventional photoelectric duct smoke detector with sampling tube. Install the duct detector in an indoor accessible location. Provide sampling tube, test station and all other required accessories.

Install all duct smoke detectors in the return air duct/plenum of the respective air handling equipment, or in multiple locations of the return duct branches if necessary to meet the minimum straight distances that are required by manufacturer of smoke duct detectors. Refer to HVAC ductwork drawings, and to HVAC installer's coordination drawings, for configurations when determining actual locations and quantities of duct smoke detectors. Where more than one detector is already indicated associated with a particular piece of air handling equipment, there are special reasons for the additional detectors (i.e. split returns, return risers serving multiple floors, etc.); coordinate all locations for same with the HVAC

Provide all required power and control wiring so that upon detection of smoke, the following sequence of operations occurs: An alarm signal is sent to alarm system (fire alarm system or remote test station or both as applicable); The HVAC unit shut down (including applicable dampers); Associated smoke dampers close, if present (wired to automatically re-open on

Provide keyed test/monitor station (with status/alarm/trouble indicating LED's) on the ceiling or wall (flush in finished areas) beneath the duct detector at discreet but readily visible location as determined in field unless specific location is shown on drawings. Provide engraved (or approved equivalent method) plate at each remote station to read: "#### Duct Smoke Detector", where #### is the equipment identification used on drawings. Connect to fire alarm system.

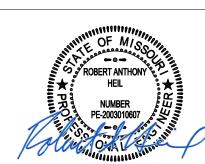
If required by authority having jurisdiction, provide identified key-operated air handler reset station on the ceiling or wall (flush in finished areas) beneath the air handler at discreet but readily visible location as determined in field unless specific location is shown on drawings. Provide engraved (or approved equivalent method) plate at each reset station to read: "#### Reset Switch to reset #### after a duct smoke detection event has been cleared and the fire alarm system has been reset.", where #### is the equipment identification used on drawings. Coordinate with authority having jurisdiction for verification of, or required modification to, the language to be engraved. Connect to fire alarm system.

Provide 20A/120VAC power as required to energize components. This requirement applies whether or not such power work is shown on the drawings. Dedicate branch circuits serving fire alarm related equipment to fire alarm related equipment only.

Properly identify system components, wiring, cabling, and terminals. Install framed instructions in a location visible from fire-alarm control unit. Provide red color on jacket of all fire alarm cables associated with the fire alarm system. Provide red-colored breaker handle and red-colored lock-on device at source circuit breakers that feed fire alarm related equipment. Provide red coloring for all fire alarm system junction boxes, along with

CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

P: 859.261.5400 F: 859.261.5530 www.agi-us.com

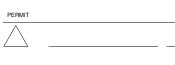


designing where you want to **go**.









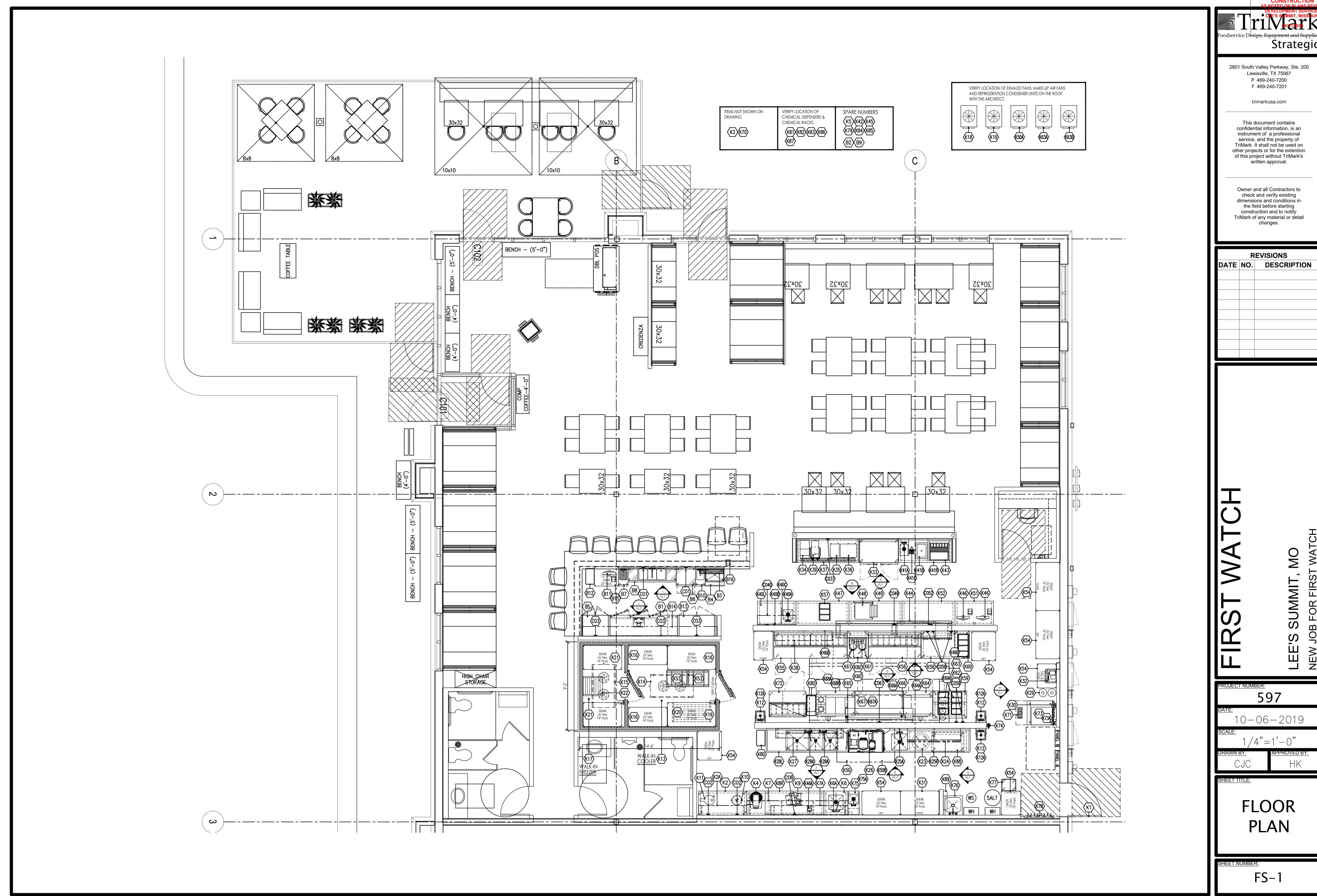




FIRST WATCH LEE'S SUMMIT

LEE'S SUMMIT, MO

ELECTRICAL **SPECIFICATIONS**



RELEASE FOR CONSTRUCTION Strategic

							EQUIPME	-NT	SCH	FDUI	F										
								, ,			<u> </u>								Τ		
			SS 01										,		۲ ۲	ZAIN ZAIN	Z				
				<u> </u>									ZA			AFF (IN) DIRECT DRAI SIZE (IN)					
	00	MOT	OTHER!				(0	ш	ш					\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	≥ <u></u>	*[<u>;</u>		티티티			
ITEM		- JST	1 1 27	<u>~</u>			TJ		AS IPS			71 ≥ 10	ОЩ	[JH 3		등	SE STU	No IT	FQUIPMENT	ITFM
NO	ਹTY ਛੱ	<u></u>		법 EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	>	\sim	립	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	보 등급	<u>.</u>	ELE AFF	H H H	21/2/2	2F 22 2	는 Z	7 0 N W	APA	EQUIPMENT REMARKS	ITEM NO
B1	1 X			BACK BAR COOLER	GLASTENDER	C1FB84-LSS (RRR)	120	60	1 5.7		1/4 X	5-15P	24							ON CASTERS W/ CT2SS COLUMN TOWER	B1
B2	1	4		-SPARE NUMBER-																-SPARE NUMBER-	B2
B3	1	X		BAR DRAIN TRAY		CUSTOM											1	/0	-	W/ HODEL O OD O4 ODEED DAW O ODO O4 A JDOA O4 OOVEDO	B3
B4 B5	1 X	 	+ +	UNDERBAR ICE CHEST BAR DRY STORAGE CABINET	GLASTENDER CUSTOM	C-IBA-24						+ +					1 1,	/2		W/ MODEL C-SR-24 SPEED RAIL, C-SRC-24 & IBCA-24 COVERS	B5
B6	1 X	+^		UNDERBAR GLASS RACK	GLASTENDER	CUSTOM (36X26) C-DBG3-24											1 1,	/2			B6
B7	1 X			UNDERBAR DUMP SINK	GLASTENDER	C-HSB-12								3/8 12	3/8	12	1 1				B7
B8	1 X			UNDERBAR SINK	GLASTENDER	C-TSA-60										12	1 1				B8
B9	1			-SPARE NUMBER-																-SPARE NUMBER-	B9
B10	1 X			UNDERBAR HAND SINK	GLASTENDER	C-HSB-12								3/8 12	3/8	12	1 1,	/2			B10
B11	1		Х	POS SYSTEM	BY OWNER	BY OWNER	120	60	1 20.0)	Х		38							VERIFY MEP REQUIREMENTS WITH OWNER	B11
B12	LOT		X	TRASH RECEPTACLE	BY OWNER	BY OWNER															B12
B13	1	X		BAR DRY STORAGE CABINET	сиѕтом	CUSTOM (48X26)															B13
B14	LOT	X		MILLWORK DISPLAY SHELVES	сиѕтом	CUSTOM															B14
B15	LOT X		 	SHELVING, WIRE	METRO	SIZE ON DRAWING														(1 EA) 2430FS & (1 EA) 2430NK3 W/ 33" POSTS	B15
B16	1	-	X	FUSION PRINTER & SHELF W/DATA BOX (BAR)	BY OWNER	BY OWNER	120	60	1 20.0		─	+ +	39					+ + -	 	VERIFY MEP REQUIREMENTS WITH OWNER	B16
CO1	2	+	X	CONVENIENCE OUTLET CONVENIENCE OUTLET	BY OTHERS BY OTHERS	BY OTHERS BY OTHERS	120 120		1 20.0 1 20.0		X	+ +	39 48	+++				+	+		CO1
CO2	3	+	^ <u> </u>	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	+ +	48	+++				+ + -	1		CO2
C08	1	+	^	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		^ _	+ +	48				\dashv	+ +	+		C03
CO37	1	+	1 x	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		$\frac{1}{x}$	+ +	44	++			-	+ + -	1		C037
CO40	1		X	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		X		44								CO40
CO49	1		X	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		X		44								CO49
CO52	1		X	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		X		44								CO52
C058	3		X	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		X		44								CO58
CO59	2		Х	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		Х		44								CO59
C067	1		X	CONVENIENCE OUTLET	BY OTHERS	BY OTHERS	120	60	1 20.0		X		12								CO67
K1	1		X	RECEIVING DOOR	BY OTHERS	BY OTHERS													_	SUPPLIED BY G.C. MODEL #RECDOOR	K1
K2	1	X		PREP TABLE 60"	CUSTOM ST. STL. FABRICATION															SINGLE UNDERSHELF WITH CASTERS	K2
K2A	2	X		OVERSHELF - WALL MOUNTED 60" X 12" CUT TABLE		CUSTOM (60X12)														NOT ON BLAN MEDICAL CONTINUE WITH CONTINUE	K2A
K3	12 X			PAPER TOWEL HOLDER — ROLL	PRODYNE	M-913	100		1 15 0		1 /0 /		40				_			NOT ON PLAN; VERIFY LOCATION WITH OWNER	K3
K4 K5	1 X			MIXER -SPARE NUMBER-	GENERAL	GEM 120	120	60	1 15.0	' 	1/2 X		48				_			-SPARE NUMBER-	K4 K5
K6	1	 		PREP SINK	CUSTOM ST. STL. FABRICATION	CUSTOM											1 1	/2		WITH OPEN BASE	K6
K6A	1 X	+^		FAUCET, DECK MOUNT	T & S BRASS	B-0221								1/2 18	1/2	18	- ' '	/ 2		WITH OF EN BASE	K6A
K7	1	 x		OVERSHELF - WALL MOUNTED 126" X 18" PREP UPPER	CUSTOM ST. STL. FABRICATION	 								,, = , , ,	-/-						K7
K7A	1	X		OVERSHELF - WALL MOUNTED 96" X 12" PREP LOWER	CUSTOM ST. STL. FABRICATION																K7A
K8R	1	X		PREP TABLE 96" COMBO MIXER STAND RIGHT	CUSTOM ST. STL. FABRICATION	CUSTOM (96X30)															K8R
K9	1 X			SLICER	GLOBE FOOD EQUIPMENT	G12	115	60	1 3.0		1/2 X	5-15P	48								K9
K10	1 X			RICE COOKER	ADMIRAL CRAFT	RC-0030	120	60	1 15.0	1.8	X	5-15P	48								K10
K11	1 X			JUICER	NUTRIFASTER, INC.	N450	110	60	1 10.8	1.2 1	1/4 X		48								K11
K12	3 X			HAND SINK — WALL MOUNTED	JOHN BOOS & CO.	PBHS-W-0909-SSLR-X										1 1/2 2	.0			SIDE SPLASH ON BOTH SIDES	K12
K12A	3 X	.		FAUCET — SPLASH MOUNT	T & S BRASS	B-1115-LN				1				1/2 18	1/2	18					K12A
K13	1	X		WALK-IN COOLER	AMERICAN PANEL	CUSTOM	115	++	1 10.0		X									REFER TO SHOP DRAWINGS	K13
K14 K15	1	X		EVAPORATOR, WALK-IN COOLER EVAPORATOR, WALK-IN FREEZER	AMERICAN PANEL AMERICAN PANEL	SM090 SME054	208-230 208-230				X										K14 K15
K16	LOT X	+ ^		SHELVING, WIRE	METRO	SIZE ON DRAWING	200-250	00	1 10.5	'	- ^ -									GREEN EPOXY FINISH	K15
K17	1 /	X	+ +	WALK-IN FREEZER	AMERICAN PANEL	CUSTOM	115	60	1 10.0	0.4	x	+ +		++			_	+ + -	+	REFER TO SHOP DRAWINGS	K17
K18	1	X	 	CONDENSER, WALK-IN COOLER	AMERICAN PANEL	FJAF-0106-CAV-020	208-230				1 X	† †		- - 				 	1		K18
K19	1	X	1	CONDENSER, WALK-IN FREEZER	AMERICAN PANEL	AWA2464ZXDXC(2B3224-9)	208-230	_			1/2 X	† †		 				1 1	†		K19
K20	1 X			RACK, DUNNAGE	CHANNEL MANUFACTURING	ADE2448/8															K20
K21	LOT X			SHELVING, WIRE	METRO	SIZE ON DRAWING														GREEN EPOXY FINISH	K21
K22	1 X			DUNNAGE RACK 24"	CHANNEL MANUFACTURING	ADE2424						\perp									K22
K23	1		X	TRASH CAN - ROUND	BY OWNER	BY OWNER				1 1		1									K23
K24	1	X		GLASS RACK 66"		CUSTOM (66")								1 /2	4 /2			\perp	<u> </u>		K24
K25A	1 X		+	PRE-RINSE FAUCET, DECK MOUNT	T & S BRASS	B-0113-B				+ +	-++	+ +		1/2 16	1/2	16	<u> </u>	/2	1		K25A
K25R	1	 		DISH TABLE - SOILED 108" RIGHT OF DW		CUSTOM (108X30)	445	60	1 07 0	+	3/4	+ +	70	1/2 70			1 1,		-	ECOLAR TOO DI. VERIEV MED DECUIREMENTO WITH OWNER	K25R
K26 K27	1	- V	X	DISH WASHER, DOUBLE RACK - LOW TEMP OVERSHELF - WALL MOUNTED WITH POT RACK 84"	BY OWNER CUSTOM ST. STL. FABRICATION	BY OWNER	115	60	1 23.0	' 	3/4 X	+ +	/2	1/2 72			2	+ + -	1	ECOLAB TSC-RL; VERIFY MEP REQUIREMENTS WITH OWNER	K26 K27
K27	2 \	 	+ +	FAUCET, SPLASH MOUNT	T & S BRASS	CUSTOM (84X12) B-0231-CR					- 	+ +		1/2 14	1/2	14		+ + -	1		K27 K28A
K28L	1 ^	X	+ +	DISH TABLE - CLEAN W/3 COMP SINK 102" LEFT OF DW		CUSTOM (102X30)				+	- 	+ +		1/4 14	1/4	T T	1 1	/2	+		K28L
K29	2	+^	 	CO2 TANKS	BY OTHERS	BY OTHERS		 		+ +	++	+ +	+	++			 ''	-	+		K28L
K30	1	+	X	WATER FILTER — WHOLE HOUSE	BY OWNER	BY OWNER					- 	+ +		+	3/4	90	_	+ + -			K30
K31	LOT X	+	+	SHELVING, WIRE	METRO	SIZE ON DRAWING				+ +		+ +	+	- 	<i>'</i>		\dashv	+ + -	†	GREEN EPOXY FINISH	K31
K32	LOT	1	X	BAG IN BOX RACK & CARBONATORS — COKE	BY OTHERS	BY OTHERS	120	60	1 12.0	 	x		84	 	1/2	84		 	_	VERIFY MEP REQUIREMENTS WITH SODA VENDOR	K32
K33	1 X			REACH-IN COOLER - SERVER 48" WT	KAIRAK	KUHT48-ZFW01	120	60	1 5.5		1/4 X	5-15P	24							ON 6" CASTERS	K33
K34	1		Х	HOT CHOCOLATE MACHINE	BY OTHERS	BY OTHERS	120		1 15.0			5-15P			3/8	44				VERIFY MEP REQUIREMENTS WITH VENDOR	K34
K35	1		X	COFFEE BREWER - DECAF	BY OTHERS	BY OTHERS	208	60	1 20.0			L14-20P				44				VERIFY MEP REQUIREMENTS WITH VENDOR	K35
K36	1		X	COFFEE BREWER - REGULAR	BY OTHERS	BY OTHERS	220	60	1 30.0		X	L14-30P	44		1/4	44			+	VERIFY MEP REQUIREMENTS WITH VENDOR	K36
K37	1	X		COFFEE TABLE 78"	CUSTOM ST. STL. FABRICATION												1/	2	<u> </u>	WITH DRAIN TROUGH	K37
K38	2	X		OVERSHELF - WALL MOUNTED 72" COOK LINE	CUSTOM ST. STL. FABRICATION	CUSTOM (72X12)															K38

RELEASE FOR CONSTRUCTION S NOTED ON PLANS REV Strategic

2801 South Valley Parkway, Ste. 200 Lewisville, TX 75067 P 469-240-7200 F 469-240-7201

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

REVISIONS							
DATE	NO.	DESCRIPTION					

OJECT NUMBER:
597
10-06-2019
1/4"=1'-0"

EQUIPMENT SCHEDULE

For part For part	
Fig. 1	
Column C	
Section Sect	
Column C	ITEM NO
Total Tota	NO K39
The content of the	K40A
10 1	K40B
March Marc	K40C
2 1 2 1 2 1 2 1 2 1 2 1 2 2	K40L K41A
Part	K41B
Column C	K41C
	K41R K42
The color of the	K42
Fig. 1	K44
Section Sect	K45
Control Cont	K46
	K46A K46B
March Marc	K47
Section Sect	K48
Fig.	AIL K49 K50
Col.	K504
No. 1	718671
Column C	K51
Section Sect	K52 K53
Part	K54
Fig. 1	K55
No.	K56
Second Column Second Colum	K57
Second S	K58 K59
Section Sect	K60
	K61
	K62 K63
STATE STAT	K63A
1	K63B
Section Sect	
Medical Process Medical Pr	K64 K64A
668 1 X X X X X X X X X	K65
1	K66
CATA 1 X X X X X X X X X	K66A
1	K67 K67A
Fig. 1	K68A
Fight Figh	K68R
From	K69
Fig.	K69A K70
K73	K71
K73	K72
Fig. 1 1 1 1 1 2 3 5 5 5 5 5 5 5 5 5	K73
K75	K73A K74
R75A 1 X	K75
1	K75A
K78 2	K76
1	K77 K78
K81 3 X CHEMICAL DISPENSER - ECOLAB BY OWNER BY OWNER 1/2 96 1/2 96 1/2 14	K79
K82 1 X CHEMICAL DISPENSER - POT & PAN - ECOLAB BY OWNER BY OWNER 1/2 14 14 14 14 14 14 15 14 14 15 14 14 14 14 15 14 </td <td>K80</td>	K80
K83 1 X CHEMICAL DISPENSER - ECOLAB BY OWNER BY OWNER 1/2 14 14 -SPARE NUMBER- K84 1 -SPARE NUMBER- -SPARE NUMBER- -SPARE NUMBER- -SPARE NUMBER- -SPARE NUMBER- K85 1 X CHEMICAL DISPENSER - PRE-SOAK - ECOLAB BY OWNER BY OWNER 1/2 96 1/2 96 K87 4 X CHEMICAL RACK - ECOLAB BY OWNER BY OWNER BY OWNER	K81
K84 1 —SPARE NUMBER— —SPARE NUMBER— K85 1 —SPARE NUMBER— —SPARE NUMBER— K86 1 X CHEMICAL DISPENSER — PRE—SOAK — ECOLAB BY OWNER BY OWNER K87 4 X CHEMICAL RACK — ECOLAB BY OWNER BY OWNER	K82 K83
K86 1 X CHEMICAL DISPENSER - PRE-SOAK - ECOLAB BY OWNER BY OWNER 1/2 96 </td <td>K84</td>	K84
K87 4 X CHEMICAL RACK - ECOLAB BY OWNER BY OWNER	K85
	K86
	K87 K88
K89 1 X INSECT LIGHT TRAP BY OWNER BY OWNER 120 60 1 X TBD PELSIS MODEL HALO 30	K89

RELEASE FOR CONSTRUCTION S NOTED ON PLANS REV Strategic

> 2801 South Valley Parkway, Ste. 200 Lewisville, TX 75067 P 469-240-7200 F 469-240-7201

> > trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing
dimensions and conditions in
the field before starting
construction and to notify TriMark of any material or detail changes.

REVISIONS						
DATE	NO.	DESCRIPTION				

PROJECT NUMBER:
597
DATE:
10-06-2019
SCALE:
1/4"=1'-0"
DRAWN BY: APPROVED BY:

EQUIPMENT SCHEDULE

ELECTRICAL GENERAL NOTES

- 1. IT IS THE INTENT OF THIS PLAN TO INDICATE THE ROUGH-IN LOCATION FOR THE FOOD SERVICE EQUIPMENT ONLY. REFER TO THE A/E CONSTRUCTION DOCUMENTS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- 2. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CORRECTLY LOCATE THE ROUGH-INS AS INDICATED ON THIS PLAN AND TO ENSURE THAT THEY ARE IN COMPLIANCE WITH ALL CODES.
- 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ROUGH-INS, INTER-CONNECTIONS AND FINAL CONNECTIONS TO THE FOOD SERVICE EQUIPMENT.
- 4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ELECTRICAL ROUGH-INS, OUTLETS, SWITCHES, DISCONNECTS, CORDS AND PLUGS, AND OTHER SIMILAR ITEMS NECESSARY TO MAKE FOOD SERVICE EQUIPMENT OPERATIONAL.
- 5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ROOF AND REMOTE MOUNTED ELECTRICAL DEVICES REQUIRED TO COMPLY WITH ALL CODES AND TO MAKE FOOD SERVICE EQUIPMENT OPERATIONAL.
- 6. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL ROUGH-IN, INTER-CONTROL WIRING AND FINAL CONNECTIONS AS THEY RELATE TO WALK-IN AND REMOTE REFRIGERATION SYSTEM INCLUDING: LIGHTS, BLOWER COIL, DEFROST COIL, DRAIN LINE HEATER, DOOR HEATER AND COMPRESSORS.
- 7. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL ROUGH-IN, INTER-CONNECTIONS AND FINAL CONNECTIONS AND REQUIRED SWITCHES TO THE EXHAUST AND MAKE-UP FANS.
- 8. ALL OUTLETS AND JUNCTION BOXES THAT ARE STUBBED OUT OF THE FLOOR ARE TO BE 5" TO THE TOP OF THE BOX. ALL OUTLETS ARE TO BE RUN HORIZONTAL, UNLESS CODE DICTATES OTHERWISE.
- 9. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE NEMA OUTLET CONFIGURATION TO MATCH APPLIANCE CORD AND PLUG. CORD AND PLUG TO BE PROVIDED BY ELECTRICAL CONTRACTOR, WHEN NOT PROVIDED BY FOOD SERVICE EQUIPMENT MANUFACTURER AND REQUIRED TO COMPLETE FINAL CONNECTION.
- 10. ROUGH-IN HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO CENTER OF ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ROUGH-IN HEIGHTS AND LOCATION.
- 11. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SHUNT TRIP BREAKERS FOR EXHAUST HOOD FIRE SUPPRESSION SYSTEMS. ALL ELECTRICAL APPLIANCES & OUTLETS UNDER HOOD MUST SHUT DOWN UPON ACTIVATION OF SUPPRESSION SYSTEM.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NECESSARY POWER TO MICRO SWITCH FOR EXHAUST HOOD FIRE SUPPRESSION SYSTEM.

ROUGH-IN INSTALLATION NOTES

- (A) ELECTRICIAN TO LOCATE J.B.'S ABOVE WALK-INS AND RUN TOCONNECTIONS ON EQUIPMENT.
- B ELECTRICIAN TO LOCATE J.B.'S AND RUN TO CONNECTIONS FOR FANS, LIGHTS, AND SWITCHES.
- © ELECTRICIAN TO PROVIDE J.B.FOR CONTROL WIRING FOR FIRE SUPPRESSION SYSTEM AND COORDINATE W/ SYSTEM INSTALLER.
- ELECTRICIAN TO LOCATE & PROVIDE J.B.'S & ELECTRICAL OUTLETS AS SPECIFIED ON THE ELECTRICAL FOOD SERVICE PLAN. J.B.'S ARE TO RUN TO ELECTRICAL OUTLETS LOCATED EITHER IN CABINET, ON TABLE LEG, UNDERSHELF AND/OR TABLE TOP.
- E ELECTRICIAN TO LOCATE AND INSTALL ELECTRICAL FOR HEAT LAMPS ON OVERSHELVES TO CODE.
- ELECTRICIAN TO LOCATE DISCONNECT SWITCH IN DRY LOCATION.
- G ELECTRICIAN TO PROVIDE J.B. IN CEILING AND DROP OUTLET TO UNIT.
- (H) ELECTRICIAN TO MOUNT RECEPTACLE VERTICALLY.
- GENERAL CONTRACTOR TO COORDINATE WITH OWNER THE NECESSITY AND REQUIREMENTS OF P.O. S. SYSTEM WIRING.

ELECTRICAL NOTES

K50 EXTEND THRU WALL SWITCH K50B AT 60" A.F.F. TO CONNECTION K50A ON ROOF; SWITCH TO BE LOCATED BY ENGINEER.

LEGEND - ELECTRICAL CONNECTIONS

DUPLEX RECEPT., 20-AMP, 120-VOLT,

- GROUND TYPE

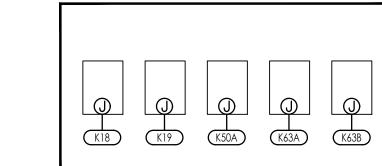
 SIMPLEX RECEPT., 20-AMP, 120-VOLT,
- SIMPLEX RECEPT., 20-AMP, 120-VO GROUND TYPE
- QUAD RECEPTACLE
- SPECIAL PURPOSE OUTLET, 120-VOLT,
- GROUND TYPE

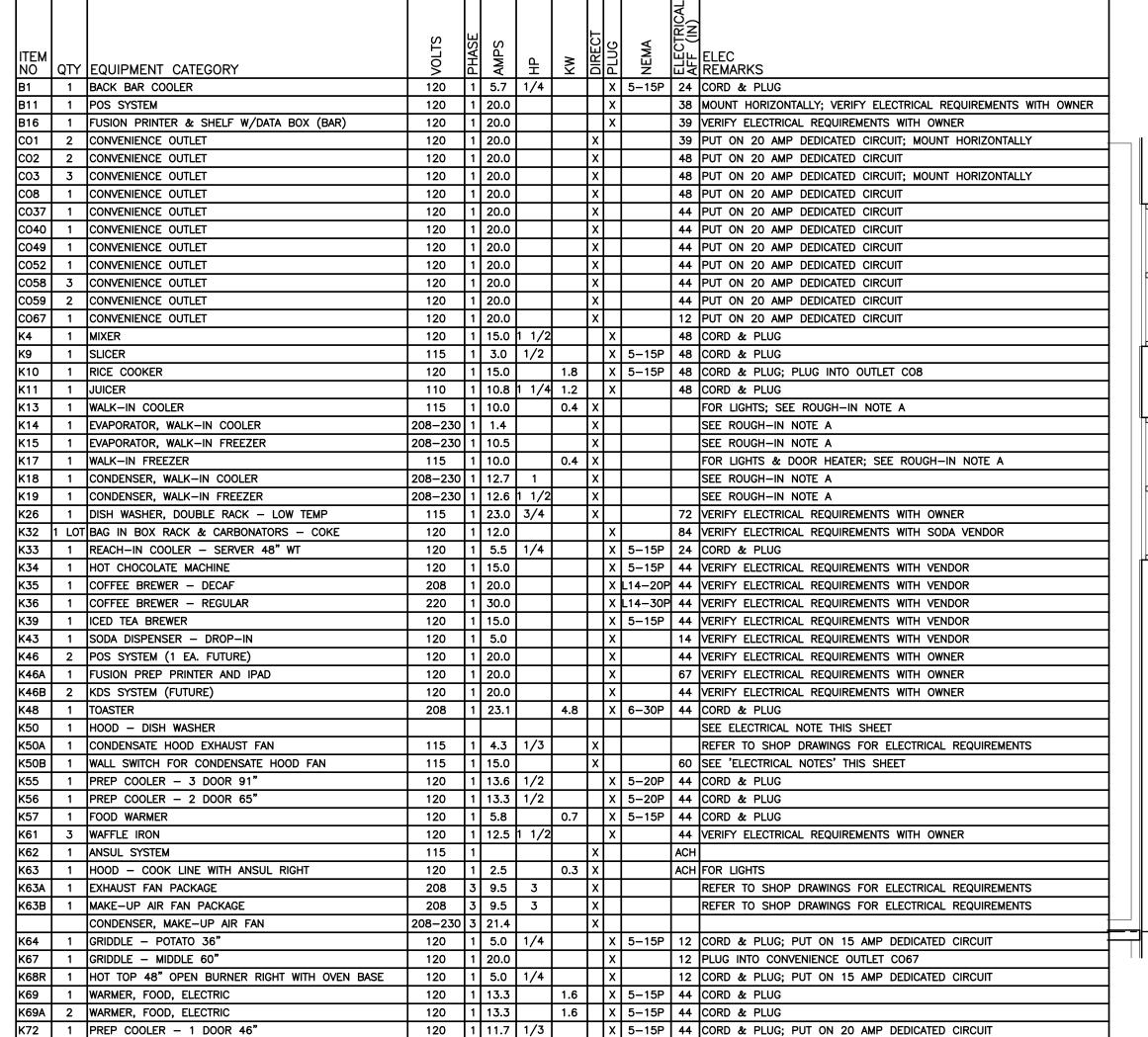
 2 WAY SWITCH
- JUNCTION BOX
- PHONE & DATA OUTLET
- E ELECTRICAL CONDUIT, STUB AS INDICATED
- FOR DIRECT CONNECTION

 FLOOR/CEILING RECEPTACLE AS INDICATED
- ACH AT CEILING HEIGHT

FIELD WIRING, EXPOSED RIGID WATERTIGHT CONDUIT

_ FIELD WIRING, CONCEALED IN WALL, FLOOR, OR CEILING





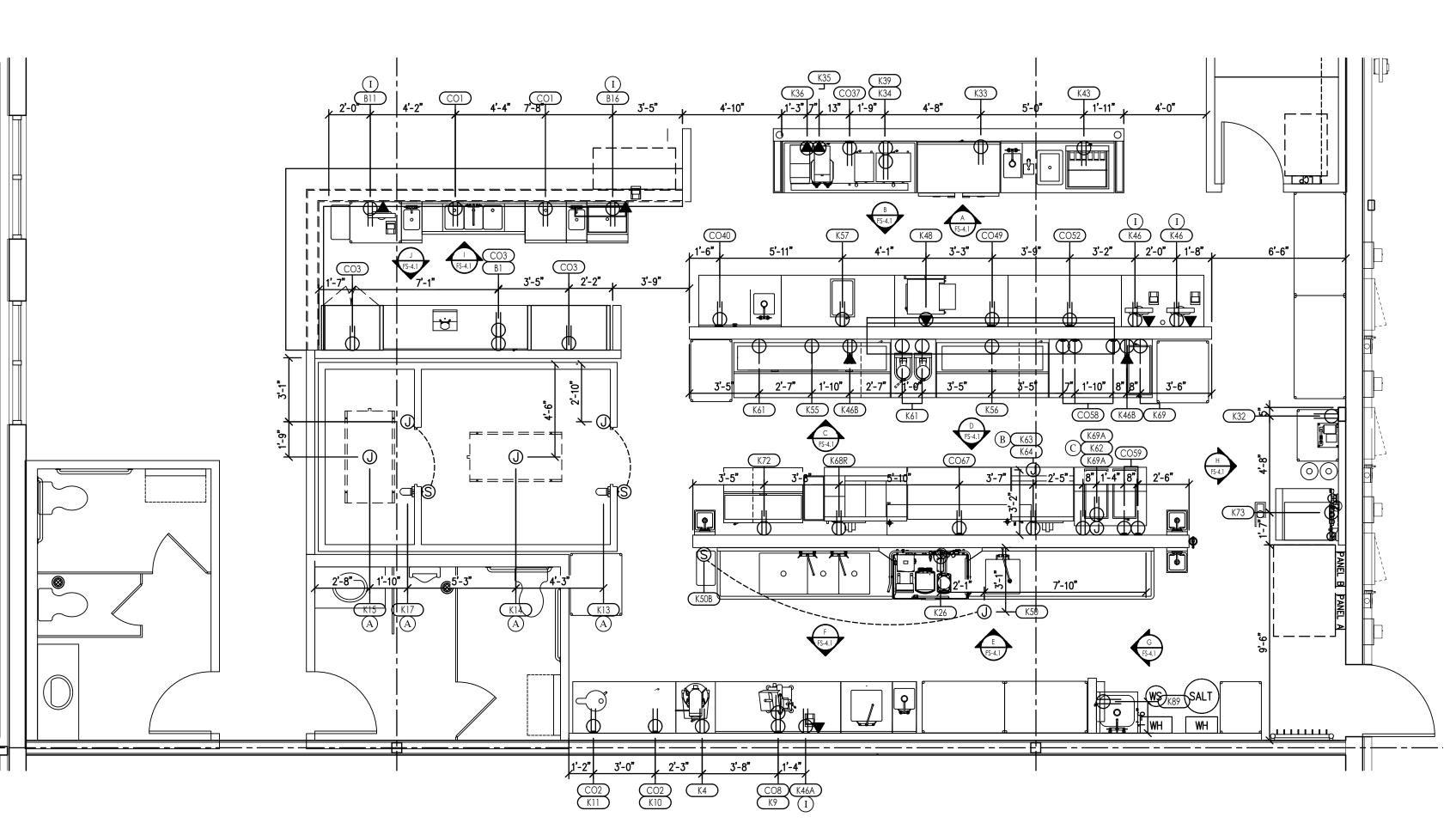
115 1 10.8

K73 1 ICE MACHINE
K89 1 INSECT LIGHT TRAP

65 PUT ON 20 AMP DEDICATED CIRCUIT

TBD VERIFY ELECTRICAL REQUIREMENTS WITH OWNER

ELECTRICAL SCHEDULE



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
TO STANDARD TO STAN

2801 South Valley Parkway, Ste. 2 Lewisville, TX 75067 P 469-240-7200 F 469-240-7201 trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

REVISIONS						
DATE	NO.	DESCRIPTION				

Ø W

NUMBER:

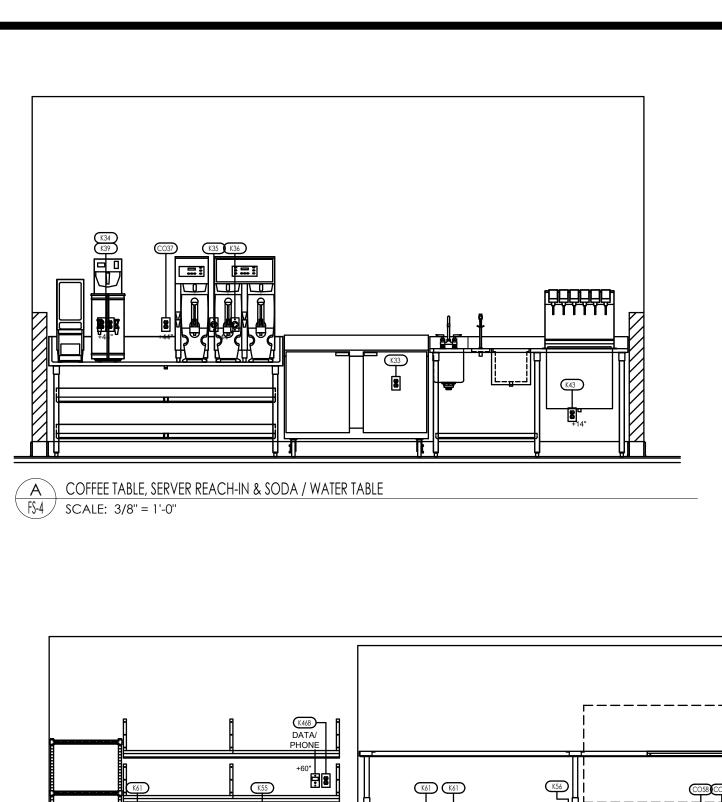
59710-06-2019

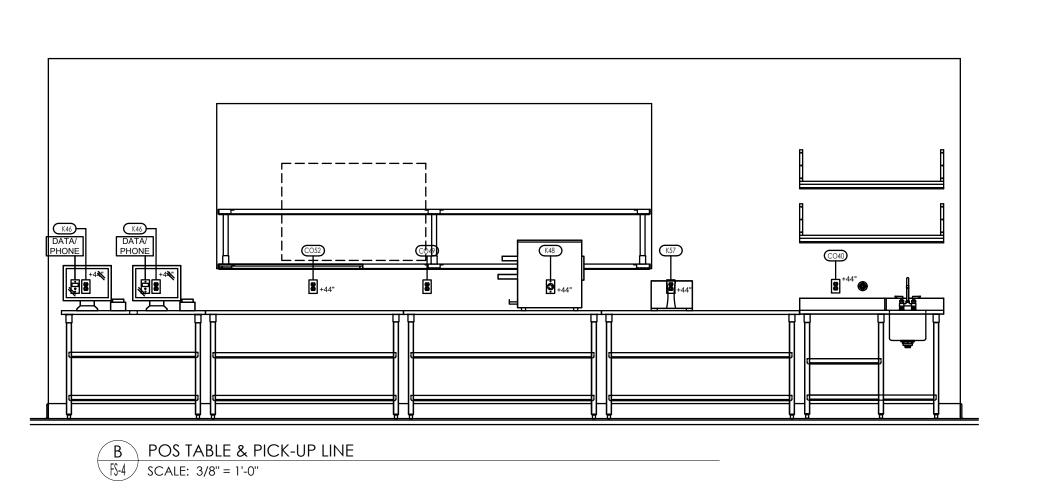
 $\frac{1/4"=1'-0"}{\text{APPROVE}}$

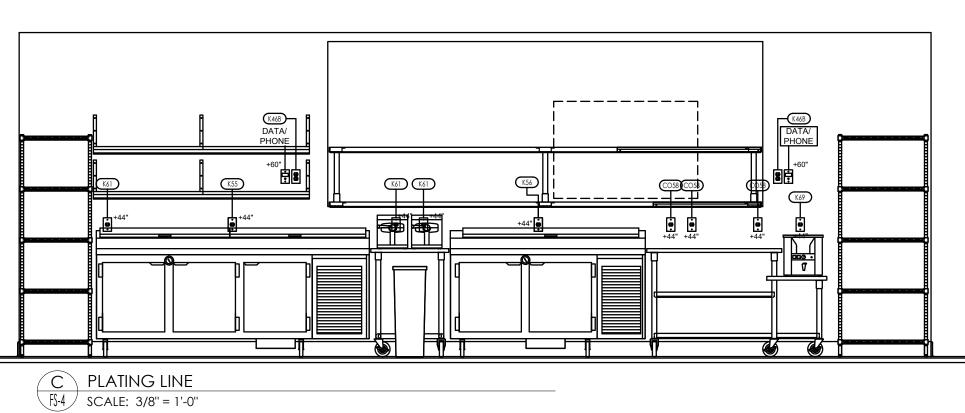
CJC

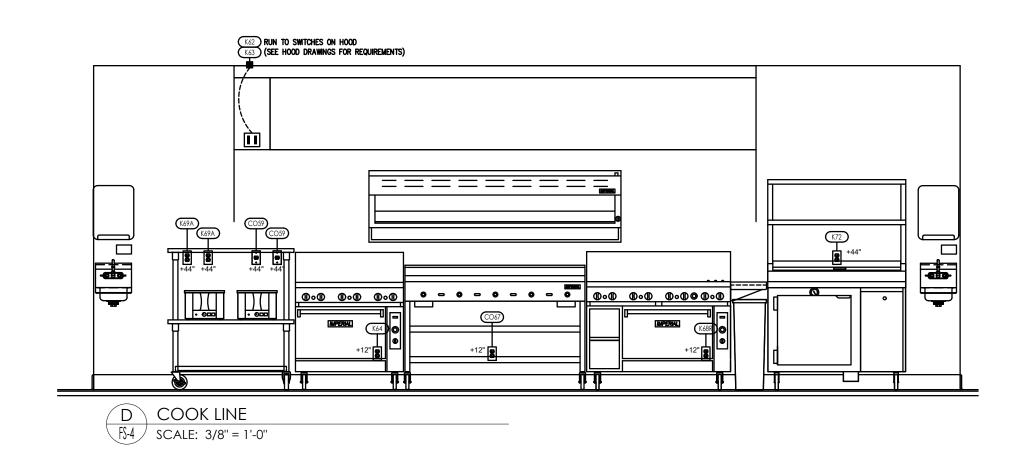
ELECTRICAL PLAN

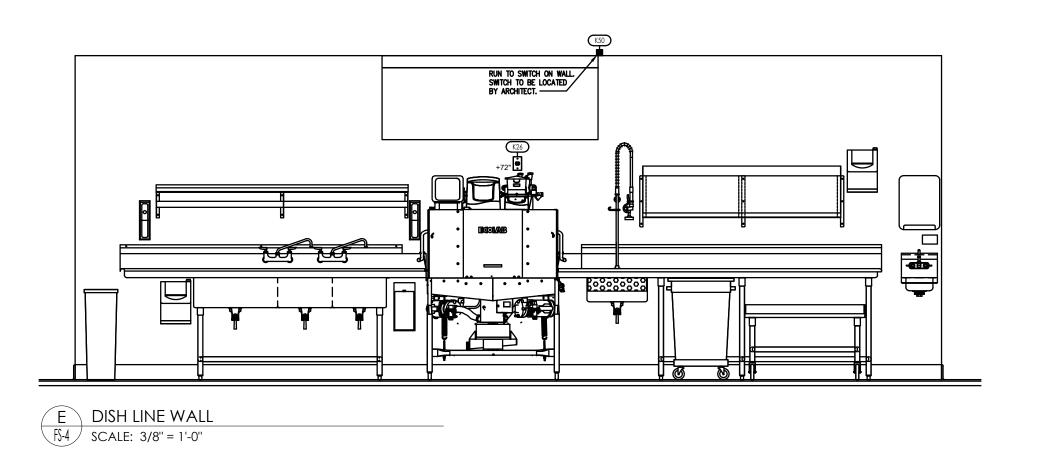
FS-4

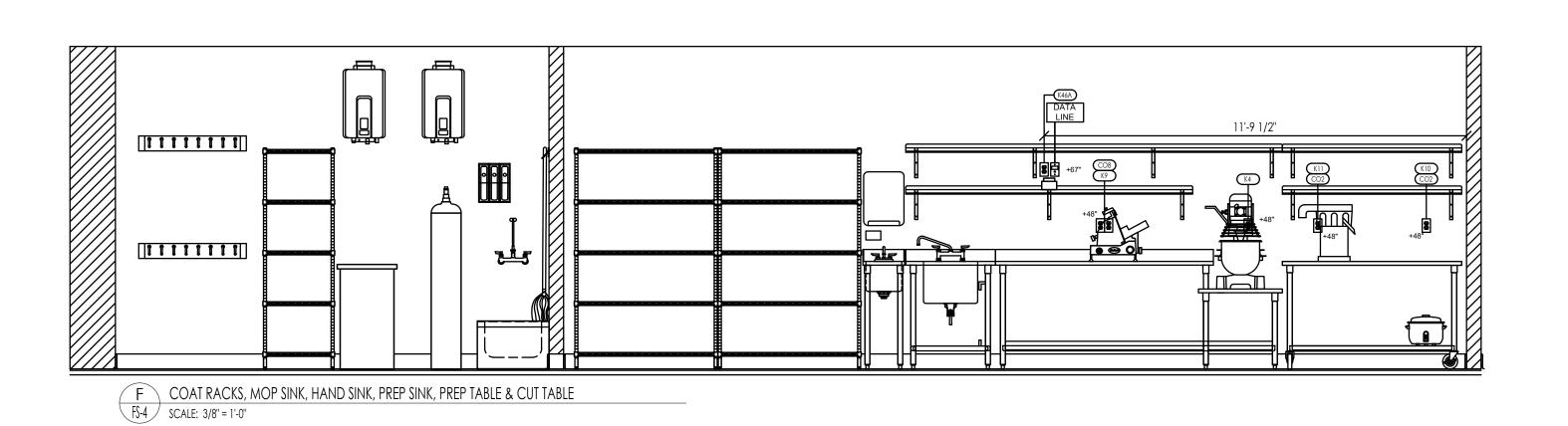


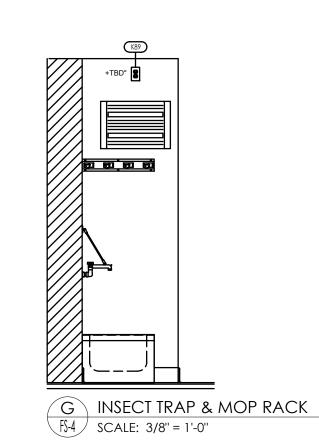


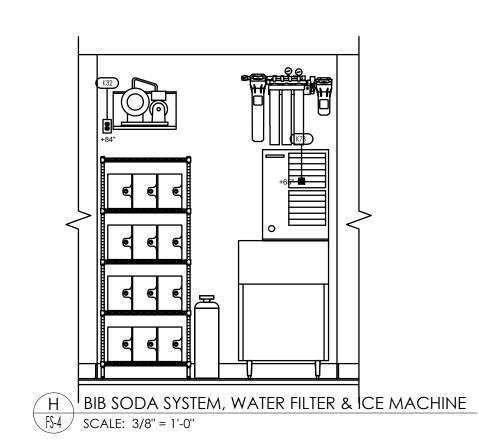


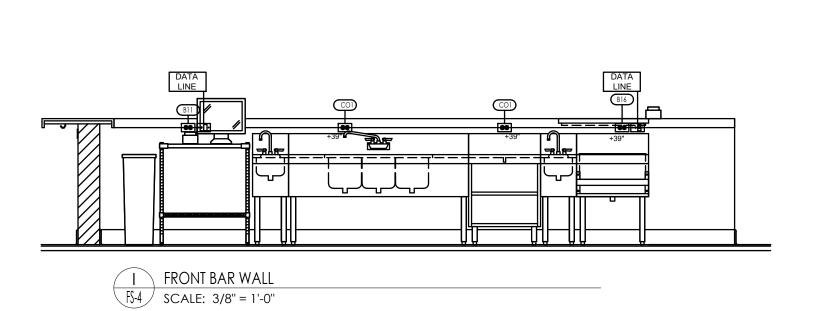


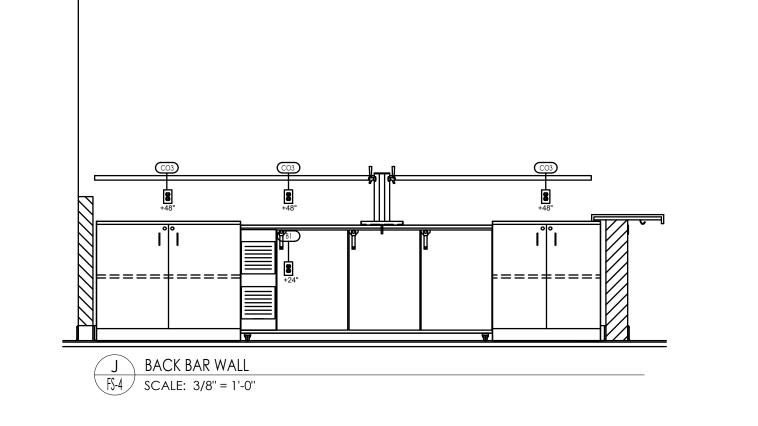












RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
TO THE STANDING MISSION OF THE

2801 South Valley Parkway, Ste. 200 Lewisville, TX 75067 P 469-240-7200 F 469-240-7201

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

REVISIONS
DATE NO. DESCRIPTION

S SUMMIT, MO

PROJECT NUMBER:

597

DATE:

10-06-2019

SCALE:

1/4"=1'-0"

DRAWN BY:

APPROVED BY:

SHEET TITLE:

ELECTRICAL ELEVATIONS

FS-4.1

PLUMBING GENERAL NOTES

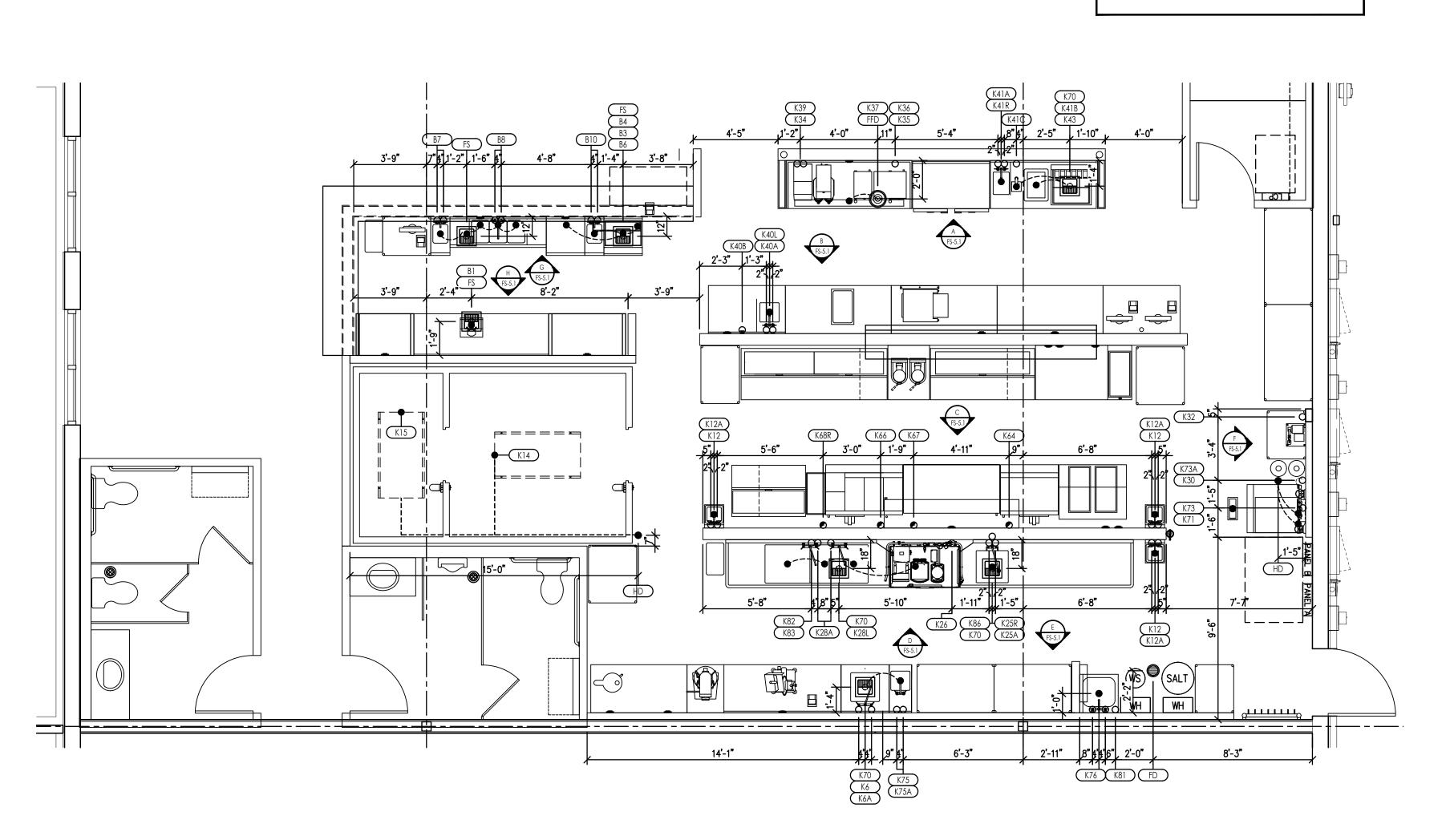
- 1. IT IS THE INTENT OF THIS PLAN TO INDICATE THE ROUGH-IN LOCATION FOR THE FOOD SERVICE EQUIPMENT ONLY. ROUGH-IN HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO CENTER OF ROUGH-IN. REFER TO THE A/E CONSTRUCTION DOCUMENTS FOR ADDITIONAL PLUMBING REQUIREMENTS.
- 2. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO CORRECTLY LOCATE THE ROUGH-INS AS INDICATED ON THIS PLAN AND TO ENSURE THAT THEY ARE IN COMPLIANCE WITH ALL CODES.
- 3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ROUGH-INS, INDIRECT CONNECTIONS, INTER-CONNECTIONS, AND FINAL CONNECTIONS TO MAKE THE FOOD SERVICE EQUIPMENT OPERATIONAL.
- 4. PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSTALLING FAUCETS, TRAPS, LEVER WASTES AND SIMILAR ITEMS REQUIRED TO MAKE THE FOOD SERVICE EQUIPMENT OPERATIONAL.
- 5. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAPS, SHOCK ABSORBERS, ANTI-BACK FLOW DEVICES, FLOOR SINKS, HUB DRAINS, PRESSURE REDUCING VALVES, TRIM PIECES AND OTHER SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE THE FOOD SERVICE EQUIPMENT OPERATIONAL.
- 6. THE PITCH OF THE FLOOR FOR ADDITIONAL FLOOR DRAINS NOT RELATED TO THE FOOD SERVICE EQUIPMENT, SHALL BE DESIGNED BY THE A/E AND PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- 7. ALL HAND SINKS TO HAVE SOAP AND TOWEL DISPENSERS, WHICH ARE TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
- 8. ALL WALL STUB OUTS ARE TO BE A MINIMUM OF 12" ABOVE FINISHED FLOOR.
- 9. ALL GRATETOPS FOR FLOOR SINK GRATES ARE TO BE MADE WITH HALF OF THE TOP OPEN.

L	EGEND - PLUMBING CONNECTIONS
0	HW-HOT WATER, OR CW-COLD WATER
•	GAS
•	WASTE, DIRECT OR INDIRECT CONNECTED
•	(HD) HUB DRAIN
	(FFD) FUNNEL FLOOR DRAIN
	(FD) CAST IRON FLOOR DRAIN
	(FS) CAST IRON FLOOR SINK WITH HALF OPEN GRATE UNLESS NOTED OTHERWISE
	FLOOR DRAIN TROUGH
•	BEER/SODA CHASE
	FIELD CONNECTIONS

PLUMBERS, ELECTRICIANS, AND RELATED TRADES TO REFER TO SHEETS FS-2 & FS-3 EQUIPMENT SCHEDULE

ALL GAS COOKING EQUIPMENT TO BE SUPPLIED WITH QUICK DISCONNECTS (EXCEPT CHEESE MELTER)

					PLU	UMBING SCHEDULE							
			WATER (IN)	WATER (IN)) WATER (IN)) WATER (IN)	DIRECT DRAIN SIZE (IN)	CT DRAIN (IN)	R DRAIN (IN)	(IN)	H	(IN)	
TEM NO	QTY	EQUIPMENT CATEGORY	HOT	AFF	COLD	SOLL	DIRE SIZE	DIRE AFF	INDIF	GAS SIZE	МВТИН	GAS AFF	PLUMBING REMARKS
33	1	BAR DRAIN TRAY							1				RUN DRAIN LINE TO FLOOR SINK
14	1	UNDERBAR ICE CHEST							1 1/2				RUN DRAIN LINE TO FLOOR SINK
36	1	UNDERBAR GLASS RACK							1 1/2				RUN DRAIN LINE TO FLOOR SINK
37	1	UNDERBAR DUMP SINK	3/8	12	3/8	12			1 1/2				RUN DRAIN LINE TO FLOOR SINK
38	1	UNDERBAR SINK	3/8	12	3/8	12			1 1/2				MANIFOLD & RUN DRAIN LINE TO FLOOR SINK
310	1	UNDERBAR HAND SINK	3/8	12	3/8	12			1 1/2				RUN DRAIN LINE TO FLOOR SINK
(6	1	PREP SINK							1 1/2				RUN DRAIN LINE TO FLOOR SINK
(6A	1	FAUCET, DECK MOUNT	1/2	18	1/2	18							
(12		HAND SINK — WALL MOUNTED	- 		' -		1 1/2	20					
(12A		FAUCET - SPLASH MOUNT	1/2	18	1/2	18	, =						
(14	-	EVAPORATOR, WALK-IN COOLER	·/ -		1,72	<u> </u>			1				RUN DRAIN LINE TO FLOOR SINK
(15		EVAPORATOR, WALK-IN FREEZER							1				RUN DRAIN LINE TO FLOOR SINK
(25A		PRE-RINSE FAUCET, DECK MOUNT	1/2	16	1/2	16			'				INON BIONIN LINE TO TEOOK SHAK
(25R		DISH TABLE — SOILED 108" RIGHT OF DW	1/2	10	1/2	10			1 1/2				RUN DRAIN LINE TO FLOOR SINK
			1/2	70					<u> </u>				
(26		DISH WASHER, DOUBLE RACK - LOW TEMP	<u> </u>	72	1 /2	4.4			2				VERIFY PLUMBING REQUIREMENTS WITH OWNER
(28A		FAUCET, SPLASH MOUNT	1/2	14	1/2	14			1 1 /0				MANUFAUD A BUIN BRAIN LINE TO FLOOD CINIC
(28L	1	DISH TABLE - CLEAN W/3 COMP SINK 102" LEFT OF DI	<u> </u>		7./4				1 1/2				MANIFOLD & RUN DRAIN LINE TO FLOOR SINK
(30	1	WATER FILTER — WHOLE HOUSE			3/4	90							VERIFY PLUMBING REQUIREMENTS WITH OWNER
(32		BAG IN BOX RACK & CARBONATORS — COKE			1/2	84							VERIFY PLUMBING REQUIREMENTS WITH SODA VENDOR
(34		HOT CHOCOLATE MACHINE			3/8	44							VERIFY PLUMBING REQUIREMENTS WITH VENDOR
(35	1	COFFEE BREWER - DECAF			1/4	44							VERIFY PLUMBING REQUIREMENTS WITH VENDOR
<36	1	COFFEE BREWER - REGULAR			1/4	44							VERIFY PLUMBING REQUIREMENTS WITH VENDOR
(37	1	COFFEE TABLE 78"							1/2				RUN DRAIN LINE TO FLOOR SINK
(39	1	ICED TEA BREWER			1/4	44							VERIFY PLUMBING REQUIREMENTS WITH VENDOR
(40A	1	FAUCET, DECK MOUNT	1/2	18	1/2	18							
(40B	1	SHUT-OFF VALVE (FUTURE)			1/2	44							CAP OFF FOR FUTURE USE
(40L	1	BUSSER TABLE 48" SINK LEFT					1 1/2	20					
(41A	1	FAUCET - DECK MOUNT	1/2	18	1/2	18							
(41B	1	ICE BIN - DROP-IN							1/2				RUN DRAIN LINE TO FLOOR SINK
(41C	1	GLASS FILLER			1/2	18							
(41R	1	SODA TABLE 66" SODA DISPENSER RIGHT					1 1/2	20					
(43	1	SODA DISPENSER - DROP-IN							3/4				VERIFY PLUMBING REQUIREMENTS WITH VENDOR
(63B	1	MAKE-UP AIR FAN PACKAGE								1	203		REFER TO SHOP DRAWINGS FOR PLUMBING REQUIREMENTS
(64	1	GRIDDLE - POTATO 36"								3/4	90	32	
(66	1	CHEESEMELTER 84"								3/4	80		
(67	1	GRIDDLE - MIDDLE 60"								3/4	150	32	
(68R	1	HOT TOP 48" OPEN BURNER RIGHT WITH OVEN BASE								3/4	150	32	
(70	4	FLOOR SINK					3						VERIFY PLUMBING REQUIREMENTS WITH G.C.
(71	1	TRENCH DRAIN					3						VERIFY PLUMBING REQUIREMENTS WITH G.C.
(73	1	ICE MACHINE			1/2	72			3/4				RUN DRAIN LINE TO HUB DRAIN
(73A	1	BIN, ICE			, -				3/4				RUN DRAIN LINE TO HUB DRAIN
(75		HAND SINK TABLE 14"							1 1/2				RUN DRAIN LINE TO FLOOR SINK
(75A		FAUCET - DECK MOUNT	1/2	18	1/2	18							
76		MOP SINK	1/2	36	1/2	36	3						VERIFY PLUMBING REQUIREMENTS WITH G.C.
(81		CHEMICAL DISPENSER — ECOLAB	1/2	96	·/ -	ا ا	<u> </u>						VERIFY PLUMBING REQUIREMENTS WITH OWNER
(82	_	CHEMICAL DISPENSER — POT & PAN — ECOLAB	1/2	14		-							VERIFY PLUMBING REQUIREMENTS WITH OWNER
(83	1	CHEMICAL DISPENSER — FOI & FAN — ECOLAB CHEMICAL DISPENSER — ECOLAB	1/2										VERIFY PLUMBING REQUIREMENTS WITH OWNER
86	- 	CHEMICAL DISPENSER - PRE-SOAK - ECOLAB	1/2										VERIFY PLUMBING REQUIREMENTS WITH OWNER VERIFY PLUMBING REQUIREMENTS WITH OWNER



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
TO STANDARD TO SERVICES

From Strategic

2801 South Valley Parkway, Ste. 200
Lewisville, TX 75067
P 469-240-7200
F 409-240-7200

Lewisville, TX 75067
P 469-240-7200
F 469-240-7201

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to

REVISIONS
DATE NO. DESCRIPTION

check and verify existing dimensions and conditions in

the field before starting

construction and to notify

TriMark of any material or detail

changes.

H WATCH

DJECT NUMBER:

597
TE:

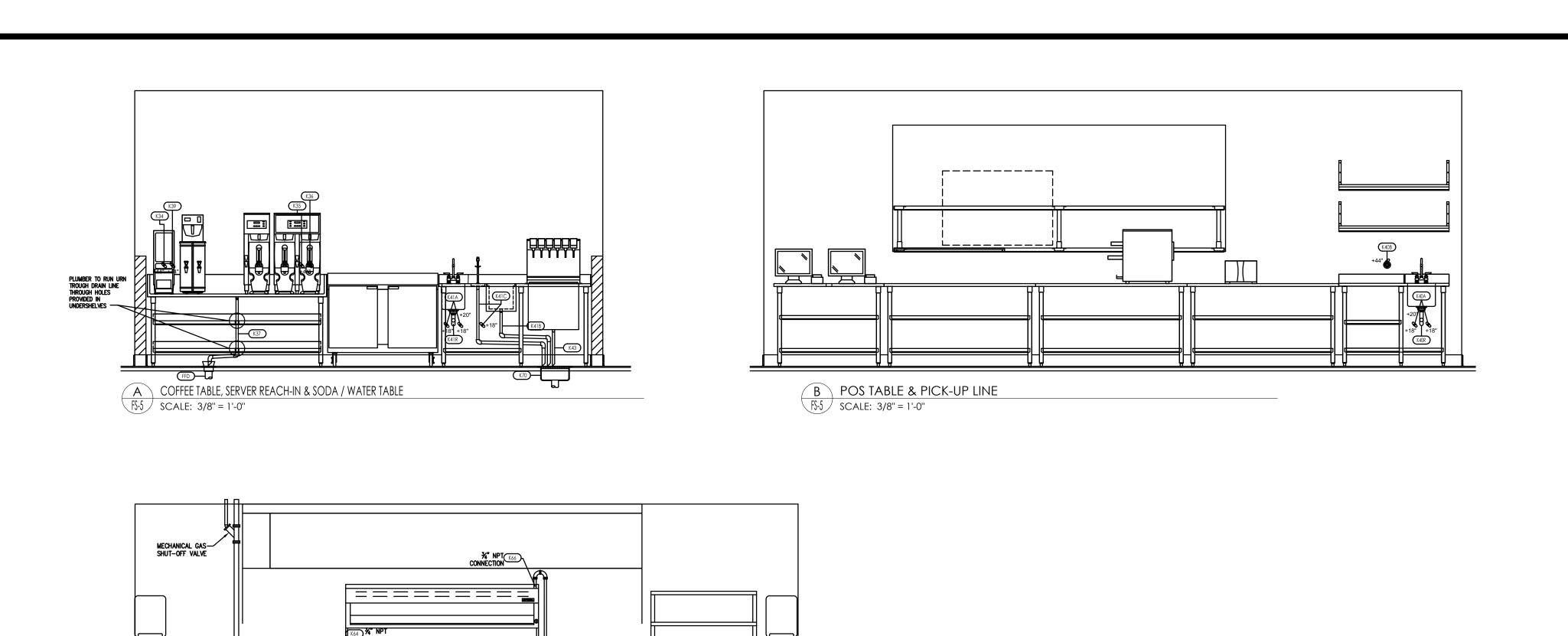
 $\begin{array}{c}
 10 - 06 - 2019 \\
 \hline
 1/4" = 1' - 0"
 \end{array}$

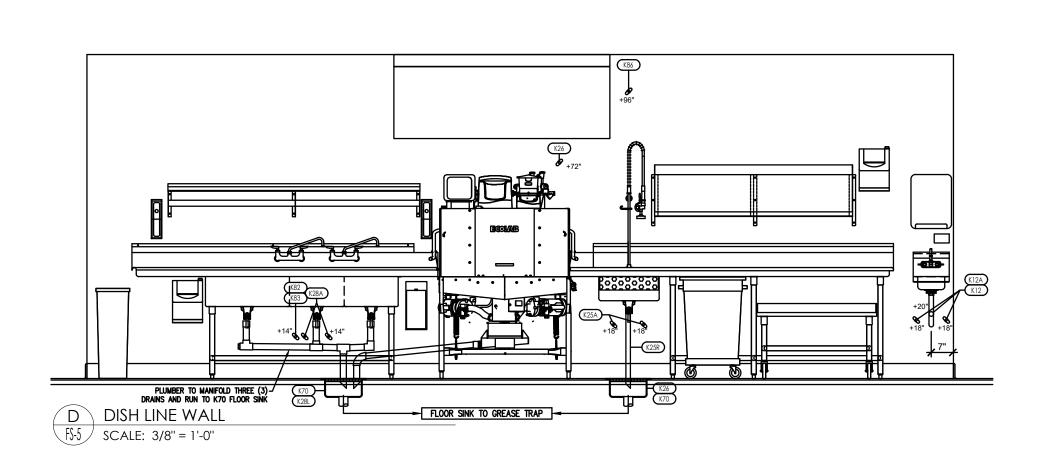
 $\begin{array}{ccc} 1/4 &= 1-0 \\ \hline \text{DRAWN BY:} & & \underline{\text{APPROVED}} \\ \hline & & & & \\ \hline & & & & \\ \hline \end{array}$

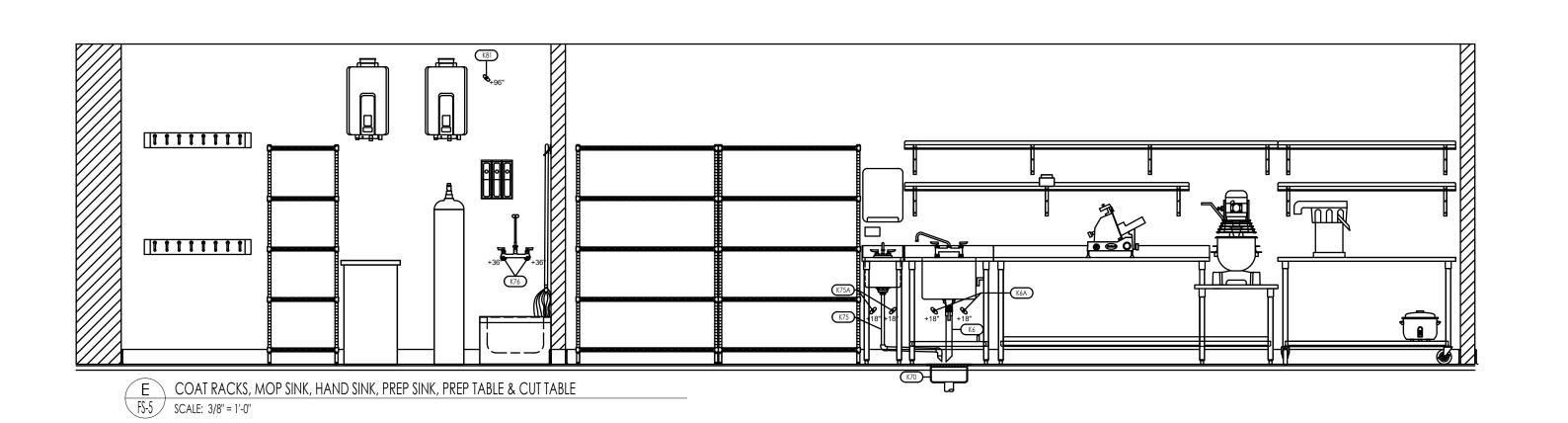
PLUMRIN

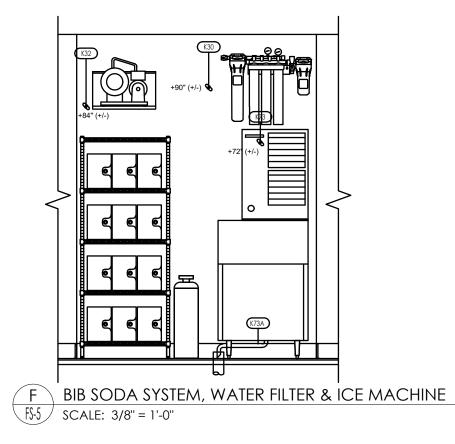
PLUMBING PLAN

FS-5





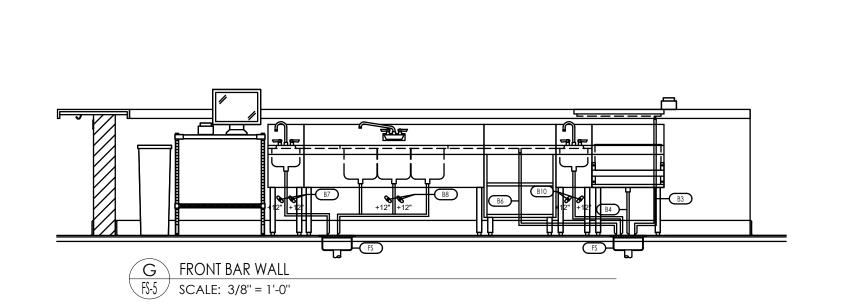


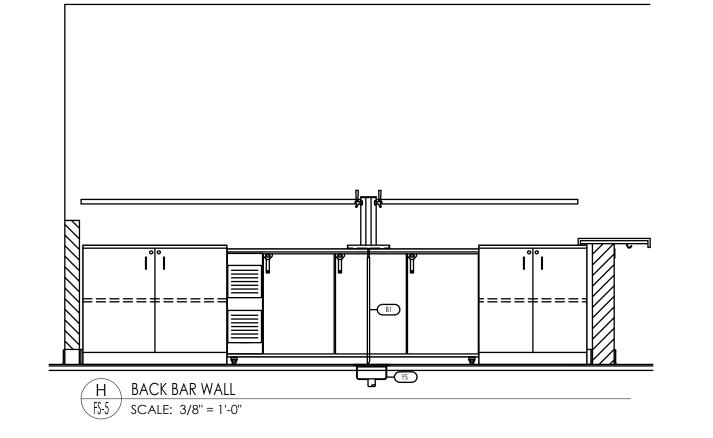


K12A K12

COOK LINE

| SCALE: 3/8" = 1'-0"





RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
THE'S STMMIT, MISSOURI
OODSERVICE Design, Equipment and Supplies
Strategic

2801 South Valley Parkway, Ste. 200
Lewisville, TX 75067

F 469-240-7201
trimarkusa.com
This document contains

confidential information, is an instrument of a professional

P 469-240-7200

service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

REVISIONS
DATE NO. DESCRIPTION

LEE'S SUMMIT, MO

597

DATE:

10-06-2019

 $\frac{10-06-2019}{\frac{\text{SCALE}:}{1/4"=1'-0"}}$

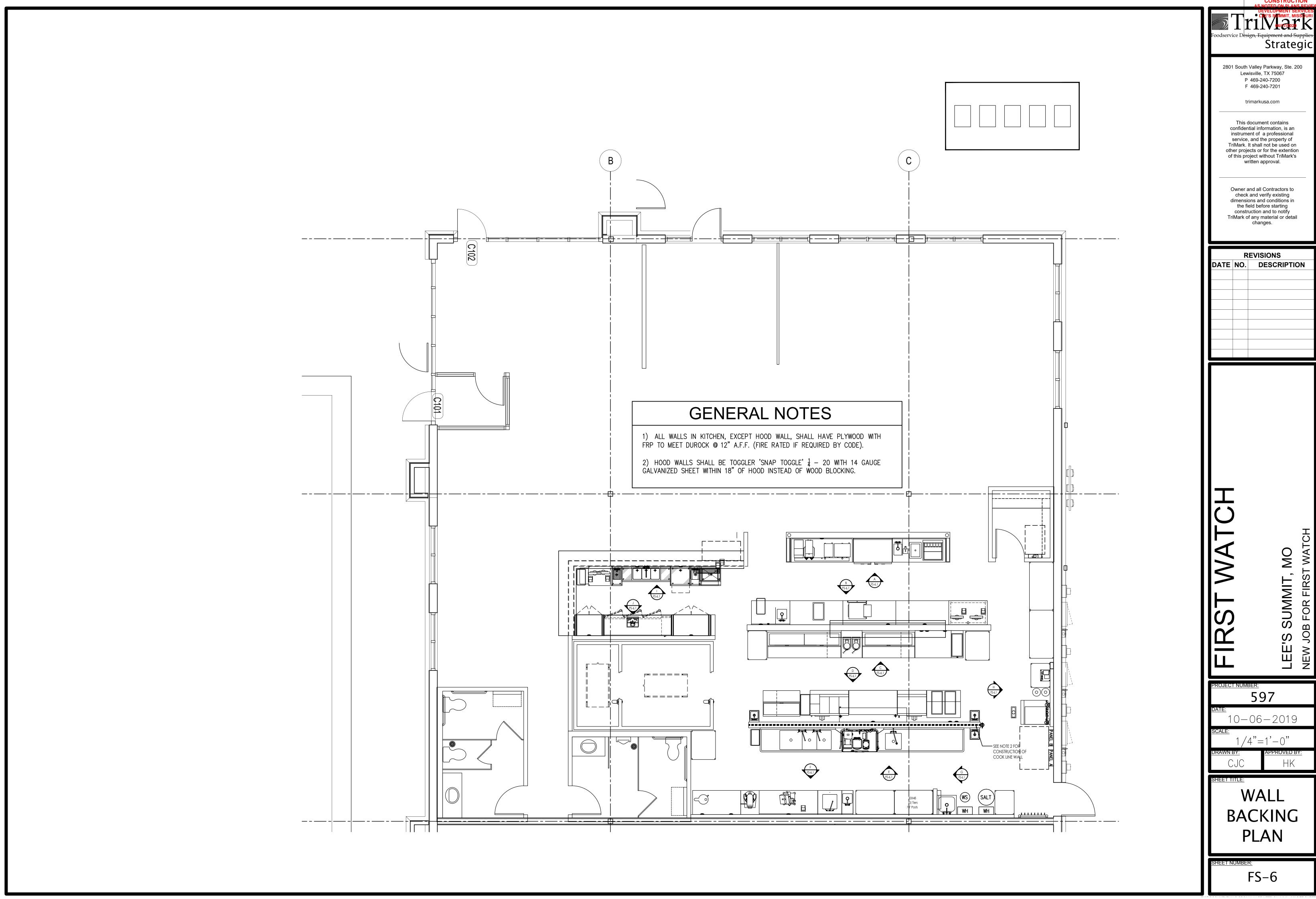
1/4"=1'-0"

DRAWN BY: APPROVEL

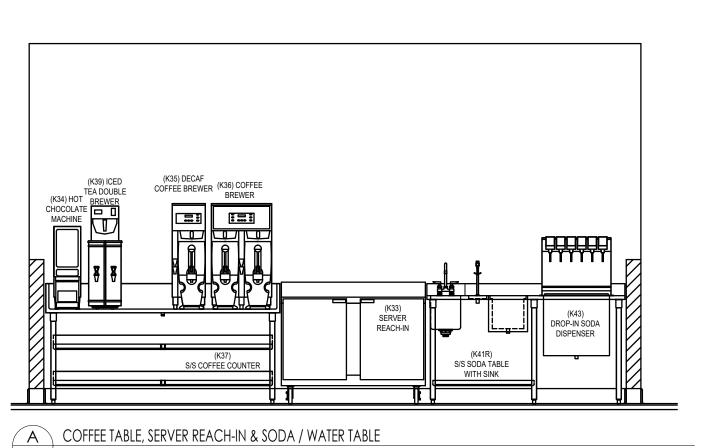
CJC

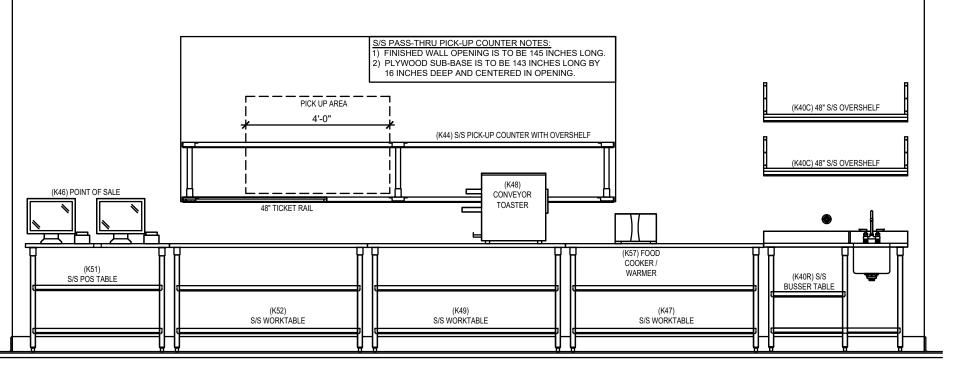
PLUMBING ELEVATIONS

FS-5.1

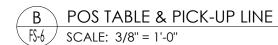


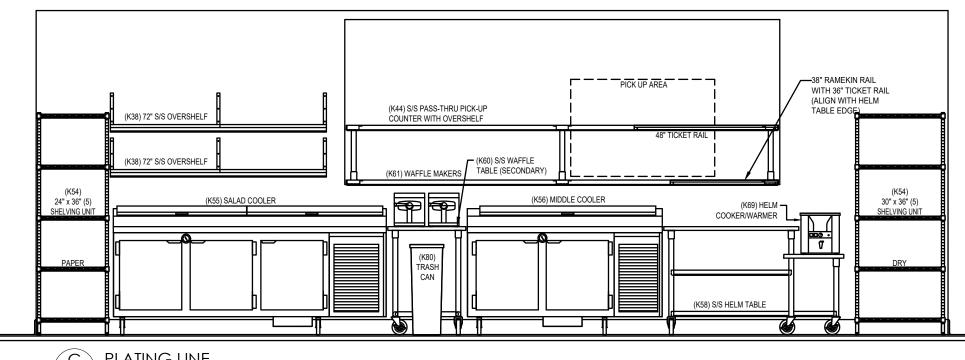
RELEASE FOR CONSTRUCTION

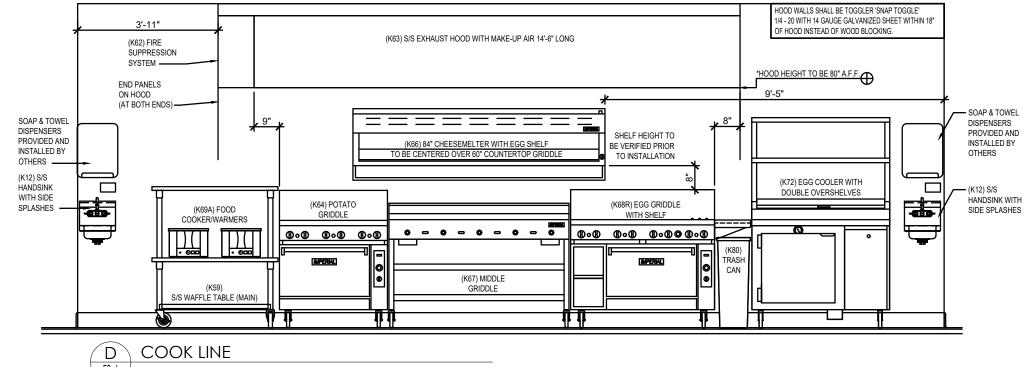






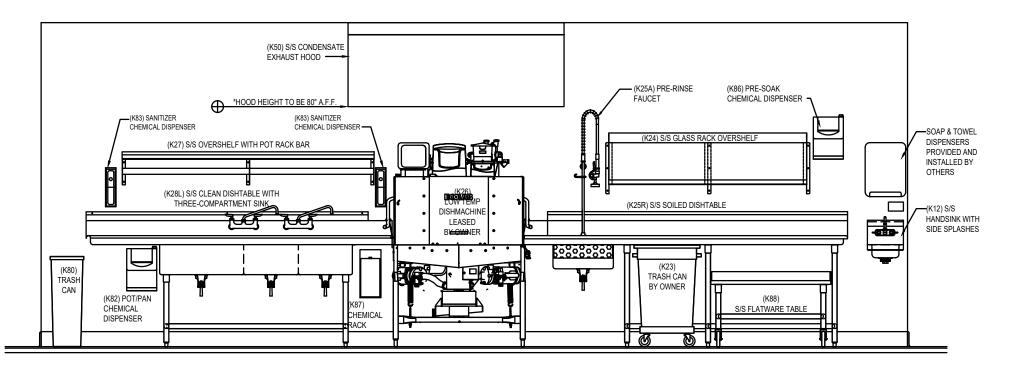


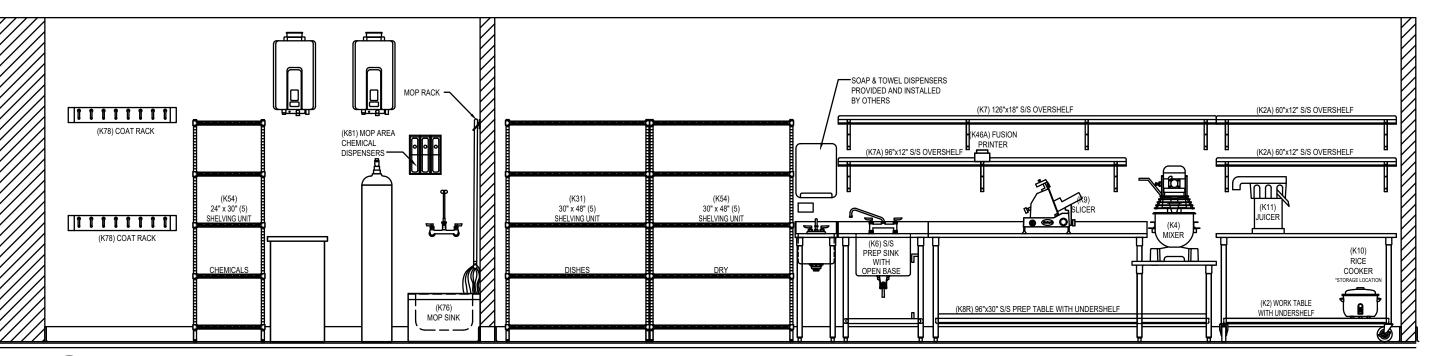




C PLATING LINE FS-6 | SCALE: 3/8" = 1'-0"

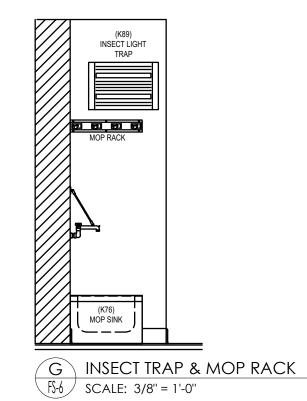


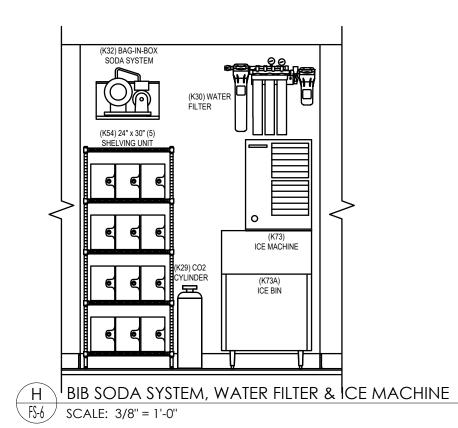


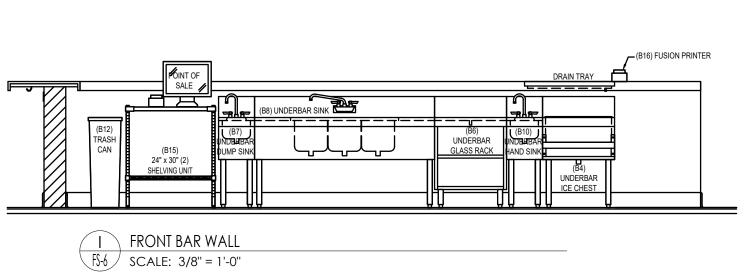


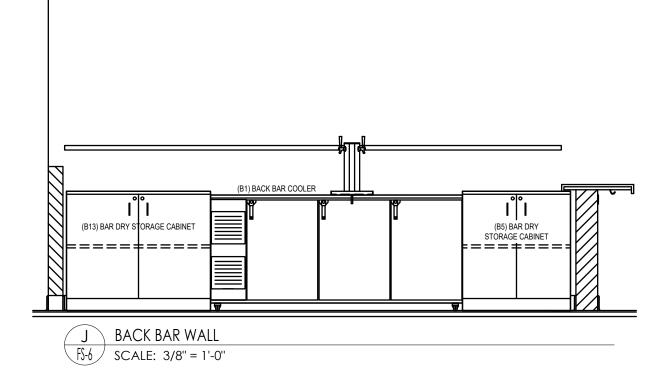
E DISH LINE WALL
FS-6 SCALE: 3/8" = 1'-0"

FS-6 COAT RACKS, MOP SINK, HAND SINK, PREP SINK, PREP TABLE & CUT TABLE SCALE: 3/8" = 1'-0"









CONSTRUCTION Strategic 2801 South Valley Parkway, Ste. 200 Lewisville, TX 75067 P 469-240-7200 F 469-240-7201 trimarkusa.com

RELEASE FOR

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

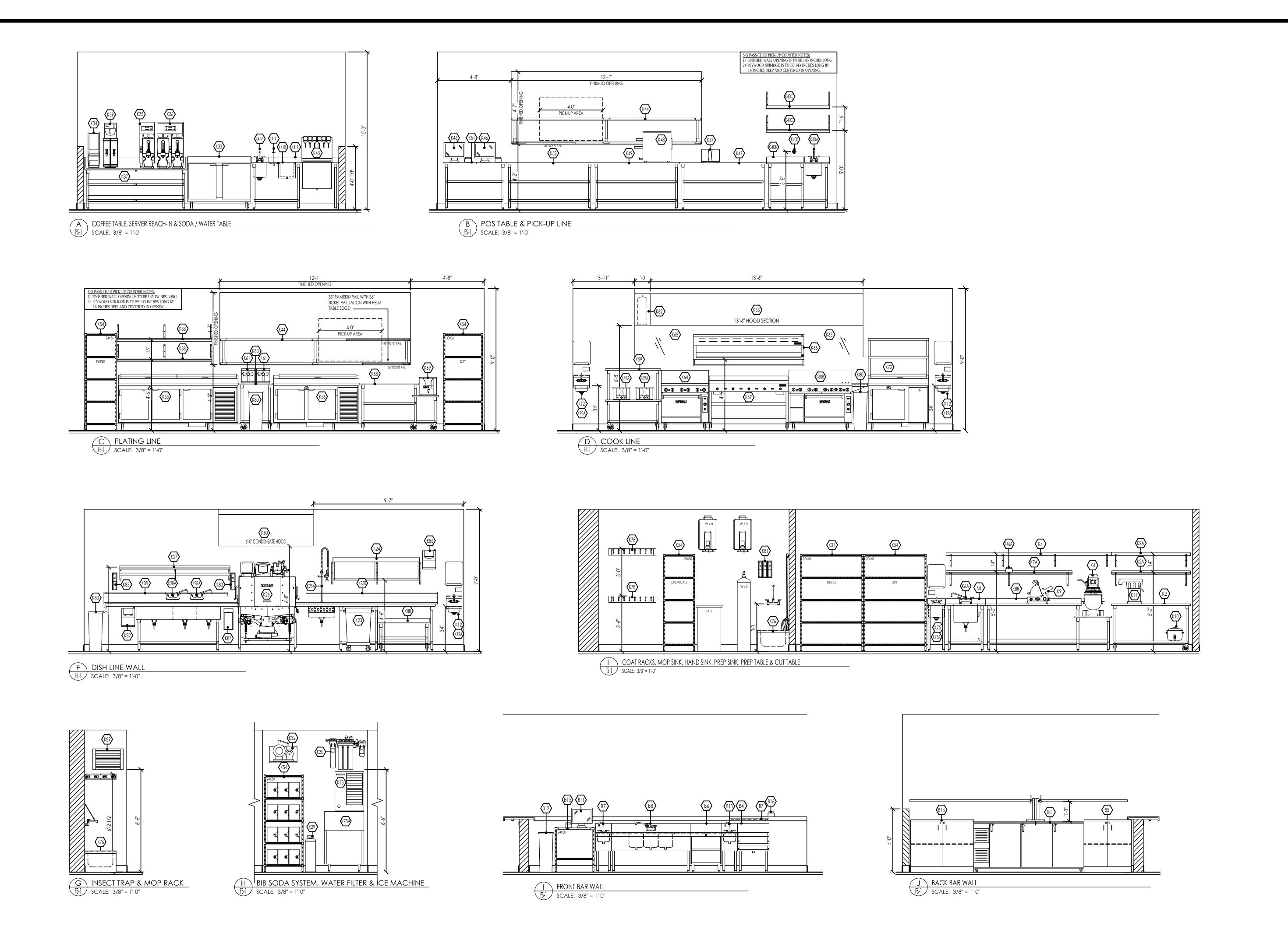
REVISIONS DATE NO. DESCRIPTION

SUMMIT, MO

597 10-06-2019

WALL BACKING ELEVATIONS

FS-6.1



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
TO THE STAMMIT, MISSIONI
Foodservice Design, Equipment and Supplies
Strategic

2801 South Valley Parkway, Ste. 200

2801 South Valley Parkway, Ste. 2 Lewisville, TX 75067 P 469-240-7200 F 469-240-7201

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extention of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

REVISIONS
DATE NO. DESCRIPTION

NAICH CH

597

LEE'S SUMMIT, MO

10-06-2019

 $\frac{1/4"=1'-0"}{\text{PRAWN BY:}}$

CJC

SHEET TITLE:

KITCHEN ELEVATIONS

SHEET NUMBER:

FS-7

NDENSER 1

See above details.

D3 IN HEATER TO IL1A IN DCV
D7 IN HEATER TO IL1B IN DCV
WIRE TO 203

NOT CONNECT CONDENSER POWER DROPS TO KITCHEN CONTROL PACKAGE STARTERS OR VFDS

SV-01 Hain disconnect switch [2]

SV-03 Danper end Unit switch [4] SV-04 40 Amp Rotary Disconnect[2-14] SV-06 Dverflow Switch [12-13]

TR-02 Power transformer(20va) [12 TR-03 Ignition transformer [14 TR-04 Power transformer(20va) [17 TR-05 Cond Transformer(40va) [12

TS-02 High temp limit switch [10] TS-03 Intake Air Sensor [10]

TS-05 Discharge Air Sensor [21] TS-06 Cooling Thermostat [16]

VA-02 Main gas valve [18] VA-03 Modulating gas valve [20]

MOTOR INFO JPPLY 3HP-208V-3P-9.5FLA

VA-01 Pilot gas valve

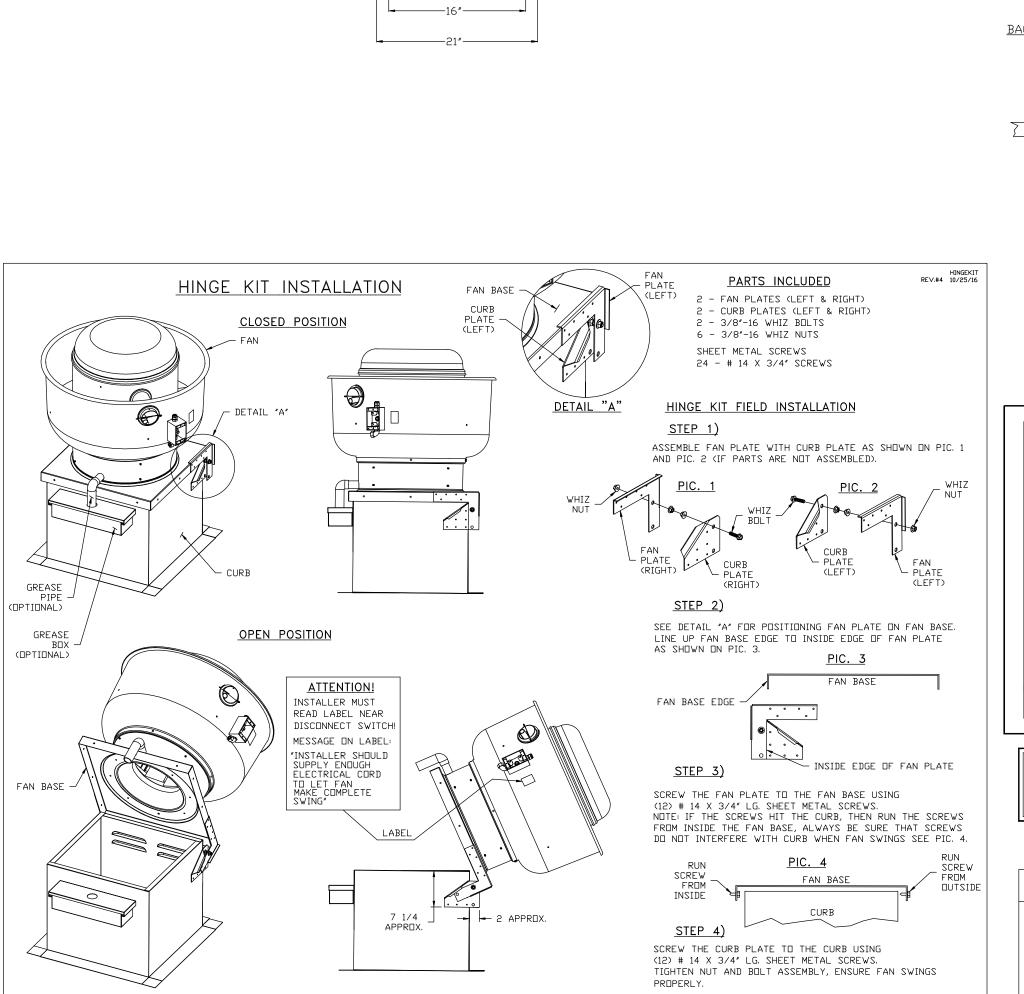
GY Ø15 GY GY 115 WH TR-02 BR | 24 BL

40 BK Ø160BK

50 BR 217 S TR-03
S20 BK SPARKO PLUG



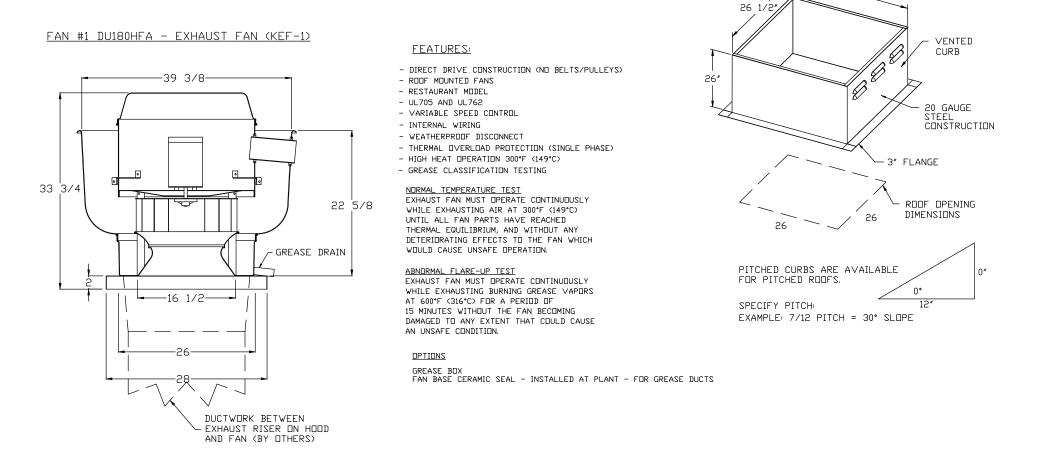
SEPARATE CIRCUIT REQUIR FOR SERVICE RECEPTACE



FAN #3 DU33HFA - EXHAUST FAN (DISHFAN K50)

12 1/8"

------25 1/2"--



DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)

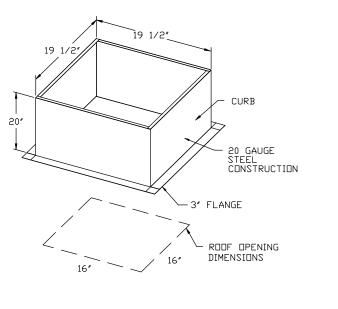
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

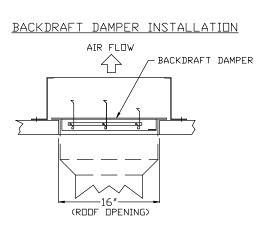
FEATURES:

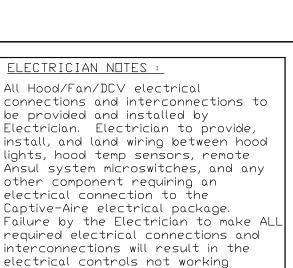
- ROOF MOUNTED FANS

- VARIABLE SPEED CONTROL - INTERNAL WIRING - WEATHERPROOF DISCONNECT

ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION. SCR-11 BIRD SCREEN. I 15-BDD DAMPER.







FOR QUESTIONS, CALL THE

SOUTHWEST FLORIDA REGIONAL OFFICE 4519 GEORGE RD, SUITE 150, TAMPA, FL 33634

PHDNE: (800)378-2471 FAX: (813)354-4825

CUSTOMER APPROVAL TO MANUFACTURE:

of the Electrician.

Approved as Noted

Revise and Resubmit

SIGNATURE ___

Approved with NO Exception Taken

properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility ight bulbs for kitchen hoods to be rovided and installed by electrician

DRAWN BY: DC

SCALE:

MASTER DRAWING

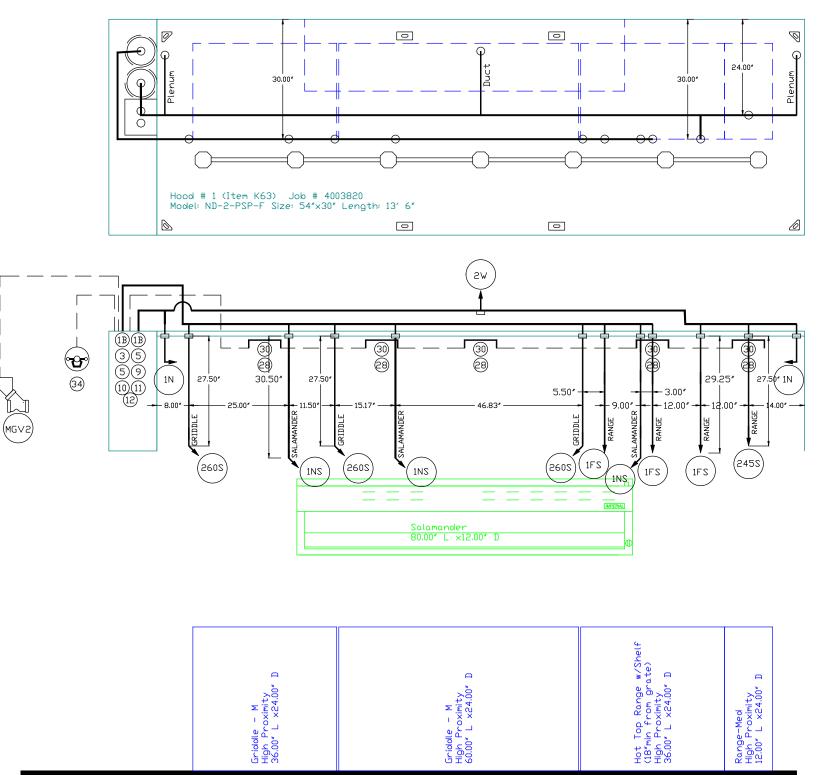
SHEET NO.

RELEASE FOR AS N**ETENDIS I O NS** EVIEW DEVELORIMENT SERVICESE LEE'S SUMMIT, MISSOURL

 \bigcirc

DATE: 11/15/2019 DWG.#: 4003820

1/2" = 1'-0"



<u>SPECIFICATIONS</u>

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

INCLUDES: FIELD INSTALLATION AND HODKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HODKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST. EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HODKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

NOTES
- FIELD PIPE DROPS AS SHOWN
SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING,
SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

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

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

Job #: 4003820 Job Name: First Watch - Lee's Summit, MO

System Size: ANSUL-3.0/3.0 Total FP required: 18

Hood # 1 13' 6.00" Long × 54" Wide × 30" High Riser # 1 Size: 18" Dia. Hood # 1 Metal Blow-Off Caps included.

<u>LEGEND - FIRE CABINET ANSUL SYSTEM</u>

1.5 GALLON TANK 3 GALLON TANK DEM AUTOMAN RELEASE DEM REGULATED RELEASE

DEM REGULATED ACTUATOR ANSULEX LIQUID AGENT (3 GAL.) ANSULEX LIQUID AGENT (1.5 GAL.) CARTRIDGE (101-20)

CARTRIDGE (101-10) CARTRIDGE (101-30) CARTRIDGE (LT-A-101-30) DOUBLE TANK CARTRIDGE

TEST LINK DOUBLE MICROSWITCH HOSE ASSEMBLY

1100 DUCT NOZZLE (430913) DUCT NOZZLE (419337)

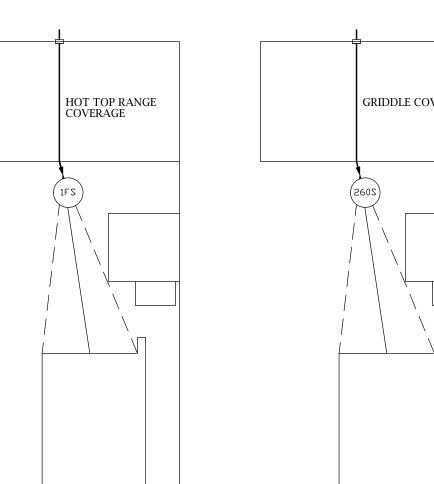
NOZZLE ASSEMBLY (419336) NOZZLE ASSEMBLY (419333) NOZZLE ASSEMBLY (419335)

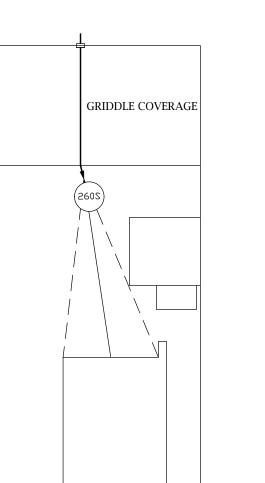
1/2N NOZZLE ASSEMBLY (419334) 3N NOZZLE ASSEMBLY (419338) 245 NOZZLE ASSEMBLY (419340) 230 NOZZLE ASSEMBLY (419339)

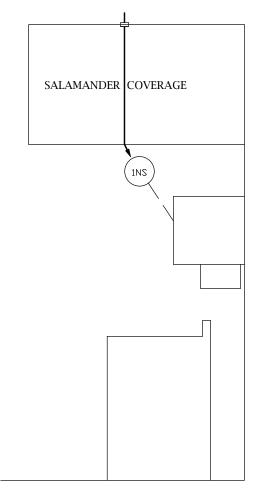
2120 NOZZLE ASSEMBLY (419343) 290 NOZZLE ASSEMBLY (419342) 260 NOZZLE ASSEMBLY (419341) DETECTOR BRACKET

LOW TEMP FUSIBLE LINK HIGH TEMP FUSIBLE LINK MGV MECHANICAL GAS VALVE

EGV ELECTRICAL GAS VALVE REMOTE MANUAL PULL STATION SWIVEL ADAPTOR







ELECTRICIAN NOTES :

SIGNATURE __

All Hood/Fan/DCV electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package. | Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician. Light bulbs for kitchen hoods to be provided and installed by electrician.

FOR QUESTIONS, CALL THE SOUTHWEST FLORIDA REGIONAL OFFICE 4519 GEORGE RD, SUITE 150, TAMPA, FL 33634 PHDNE: (800)378-2471 FAX: (813)354-4825

CUSTOMER APPROVAL TO MANUFACTURE: Approved as Noted Approved with NO Exception Taken Revise and Resubmit

RELEASE FOR AS NOTED IN SEVIEW DEVELORPMENT SERVICESE: LEE'S SUMMIT, MISSOURE

> 4 \bigcirc $\langle \rangle$ \mathcal{C}

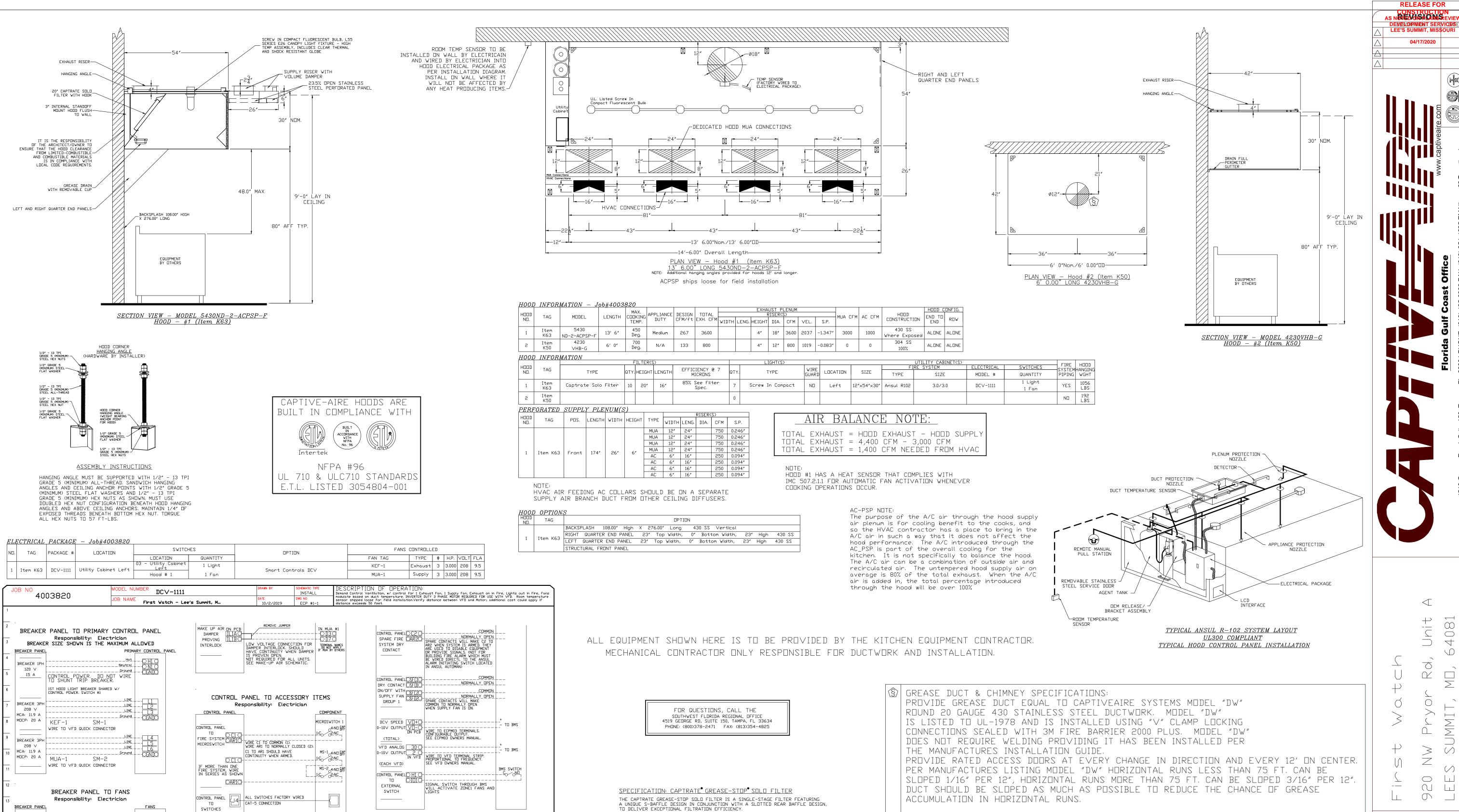
 \bigcirc **DATE:** 11/15/2019 DWG.#: 4003820

DRAWN DC

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

MASTER DRAWING

SHEET NO.



FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

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

RESISTANCE VS. AIRFLOW - 2" Captrate Grease-Stop Solo Filter

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

2-INCH DEEP HOOD CHANNEL(S).

FILTER COLLECTION EFFICIENCY2" Captrate Grease-Stop Solo Filter

PARTICLE DIAMETER (um)

NFPA #96 NSF STANDARD #2

INT. MECH. CODE (IMC)

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

SWITCHES

CONTROL PANEL BIC

CONTROL PANEL TIAC

KITCHEN TEMP

SENSOR

DUCT SENSOR

EXTERNAL

SHUNT TRIP

CONTROL PANEL

SIGNAL FOR NIO

__BLACK

<u>LECTRICIAN NOTES :</u>

all Hood/Fan/DCV electrical

e provided and installed by

other component requiring an

Captive-Aire electrical package.

electrical controls not working

of the Electrician.

electrical connection to the

connections and interconnections to

nstall, and land wiring between hood

Ansul system microswitches, and any

ailure by the Electrician to make AL

properly. Any loss or failed test as

result of electrical controls not

working properly is the responsibility

Light bulbs for kitchen hoods to be provided and installed by electrician.

required electrical connections and

nterconnections will result in the

Electrician. Electrician to provide,

lights, hood temp sensors, remote

WIRE TO J-BOX ON TOP OF HOOD

SENSOR MOUNTED IN ROOM AWAY
FROM HEAT SOURCES. SEE MANUAL

SENSOR, MOUNTED IN EXHAUST DUCT

THE FOLLOWING CONNECTIONS
MAY OR MAY NOT BE
REQUIRED BASED ON JOBSITE
SPECIFICATIONS

ST TERMINAL IS ENERGIZED

IN FIRE CONDITION.

NEUTRAL FROM SHUNT COIL

HOT TO SHUNT COIL SHUNT COIL

T1BC WIRE TO CONTROL BOARD.

T2BO FACTORY WIRED TEMPERATURE

__LINE __POWER TO __LINE __CONDENSER

KEF-1

FAN: 01

MUST HAVE ITS OWN CONDUIT DISCONNECT

COND 1

CONTROL PANEL TO FANS

Responsibility: Electrician

_ LDAD_LEG 1 _____

DO NOT SHARE CONDUIT!

PROVIDED CONDUIT DROPS.

__ LDAD LEG 2 _____

__LDAD_LEG_3_____

| CONNECTOR | CONN

3 PHASE

208-230

30 Amps

PRIMARY PANEL

VFD QUICK OGNDO--

CONNECTOR

MUA-1

 $\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$ \Box \bigcirc **DATE:** 11/15/2019 DWG.#:

 \triangleleft

<u>-</u>

 \otimes

 \forall

 \bigcirc

RELEASE FOR

DEMESLORPMIENT SERVICES LEE'S SUMMIT, MISSOUR

4003820

DRAWN BY: DC

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE

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

VERIFY CEILING HEIGHT

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY

430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS DUTER SHELL

EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE

Approved as Noted

Revise and Resubmit

Approved with NO Exception Taken

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS

SHOULD NOT BE PLACED WITHIN TEN (10) FEET

OF THE EXHAUST HOOD, PERFORATED

DIFFUSERS ARE RECOMMENDED.

CUSTOMER APPROVAL TO MANUFACTURE:

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

MASTER DRAWING

SHEET NO.