04 NOTES

ARCHITECTURAL GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CITY AND STATE'S BUILDING HEALTH RULES AND REGULATION. LOCAL ORDINANCES AND SUCH STATUTORY PROVISIONS WILL BE CONSIDERED AS MUCH AS A PART OF THESE SPECIFICATIONS.
2. CG SHALL FIELD VERIFIED ALL EXISTING DIMENSIONS AND PARTITIONS LOCATION, AND INFORM ARCHITECT.
3. THE DRAWINGS ARE COMPLIMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. SHOULD A CONFLICT OCCUR, THE OWNER'S REPRESENTATIVE WILL DETERMINE THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETED AND FUNCTIONAL FACILITY. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THESE DRAWINGS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED "FINISHED" RESULTS.
4. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK EACH CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND IN THE BUILDING AND SHALL BE RESPONSIBLE FOR THE ACTUAL DIMENSIONS AND THE DIMENSIONS INDICATED ON THE DRAWINGS. ALL WORK SHALL BE LAID OUT SUFFICIENTLY IN ADVANCE OF WORKMEN TO GIVE OPPORTUNITY FOR THE ARCHITECT TO ADJUST DISCREPANCIES OR RENDER DECISIONS WITHOUT CAUSING DELAY TO THE PROJECT BUT WORK SHOULD BE STOPPED WHEN NECESSARY AND IN NO CASE ALLOWED TO PROCEED IN UNCERTAINTY.
5. THESE DRAWINGS ARE FOR THIS SPECIFIC PROJECT AND NO OTHER USE IS AUTHORIZED.
6. ALL MATERIALS ARE NOT NOTED BY WORDS. IT IS INTENDED THAT THEY ARE UNDERSTOOD BY THE MATERIAL SYMBOL DRAWN.
7. WHERE A CONDITION IS NOTED "TYPICAL", IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS ARE TO BE CONSTRUCTED OF THE SAME MATERIALS, FINISH AND/OR DIMENSIONS.
8. ALL DIMENSIONS ARE TO THE FACE OF STUDS, THE FACE OF FINISHED WALL, OR CENTERLINE OF STRUCTURAL COLUMN AND THE AFOREMENTIONED MATERIALS. CEILING ELEVATIONS, BEAM ELEVATION, SOFFIT ELEVATIONS ARE CLEAR "FINISHED" DIMENSIONS.
9. FURNISH AND INSTALL FIRE RETARDANT SOLID WOOD BLOCKING IN ALL INTERIOR STUD PARTITIONS WHERE STRUCTURAL SUPPORTS ARE REQUIRED FOR VANITIES, SHELVES, GRAB BARS, BENCHES. ETC.
10. WHERE DISSIMILAR MATERIALS MEET USE CAULKED JOINTS. USE METAL EDGES CORNERS AND STOPS AS REQUIRED ON ALL GYPSUM BOARD UNITS FOR FIRST CLASS FINISHED APPEARANCE.
11. ALL GYPSUM BOARD SHALL BE 5/8" "X" TYPE THROUGHOUT EXCEPT WHERE NOTED, AND SHALL INSTALL ACCORDING TO THE SPECIFICATION OF GYPSUM ASSOCIATION.
12. NO PLUMBING SUPPLIES, WASTES, ETC. TO BE LOCATED IN EXTERIOR WALLS EXCEPT FROST PROOF HOSE BIBS. ALL EXPOSED PIPES, DUCTS, CONDUIT SHALL BE ENCLOSED WITH GYPSUM BOARD ON FURRING INCLUDING THOSE NOT SHOWN ON THE DRAWINGS.
13. SLOPE 1" IN 4' RADIUS AROUND ALL FLOOR DRAINS.
14. ALL PLUMBING CHASES TO HAVE FULL BATT INSULATION.
15. EVERY CONTRACTOR SUBCONTRACTOR AND SUPPLIER SHALL PROVIDE A NOTARIZED STATEMENT OF ASSURANCE THAT NO PRODUCTS OR MATERIALS CONTAINING ASBESTOS WERE SUPPLIED OR INSTALLED ON THIS PROJECT.
16. COMBUSTIBLE MATERIALS OF ANY NATURE ARE NOT PERMITTED ABOVE THE CEILING
17. ALL CONTRACTORS MUST BE LICENSED TO WORK IN THE CITY
18. ANY AND ALL MATERIALS AND SUBSTANCE UTILIZED WITHIN THE PREMISES MUST BE ENVIRONMENTALLY SAFE AND NON-HAZARDOUS
19. INSTALL A SIGN THAT STATE THE OCCUPANT LOAD.
20. ALL BARRIER FREE FIXTURES AND ACCESSORIES ARE TO CONFORM TO THE AMERICANS WITH DISABILITIES ACT, THE STATE BARRIER FREE CODE AND ANY LOCAL ORDINANCES
21. INSTALL HANDICAP SIGN ON RESTROOM DOOR AND PARKING LOT SPACE. ALL SIGNS SHALL BE ADA APPROVED.

FOOD PROTECTION NOTES:

GC SHALL FIELD VERIFY EXISTING CONDITION OF THE FOLLOWINGS. REPAIR /REPLACE OR PROVIDE AS REQUIRED:
1. UTENSIL WASHING SINK (3-COMPARTMENT SINK) MUST BE NSF APPROVED ALL METAL AND FREESTANDING. BOWL SIZE 21"X21"X21"
2. PROVIDE METAL BACKSPLASH @ 8" MIN, EXTENDING UP THE WALL SHALL BE FORMED AS AN INTEGRAL PART OF THE UNIT AND SEALED TO THE WALL. THE SINK COMPARTMENTS AND DRAIN BOARDS SHALL BE LARGE ENOUGH TO ACCOMMODATE THE LARGEST UTENSIL USED.
3. THIS FACILITY DOES NOT SERVE BEER AND/OR ALCOHOL DRINKS.
4. HOT WATER HEATER: A.O.SMITH, #BTH-150, GAS FIRED CONDENSING TYPE, 50 GAL. STORAGE, 150 MBTUH INPUT, 190 GPH RECOVERY @ 90 DEGREE F RISE, OR SIM.
6. HAND WASHING FACILITIES PER PLAN SHALL BE EQUIPPED WITH AN ADEQUATE SUPPLY OF HOT AND COLD RUNNING WATER DELIVERED UNDER PRESSURE THROUGH A MIXING VALVE. TEMPERED WATER MUST SUPPLY TO ALL THE HAND-WASHING SINKS. FAUCETS SHOULD BE W/WRIST BLADES. PROVIDE HAND WASHING CLEANSER AND SINGLE-USE SANITARY TOWELS SHALL BE PROVIDED IN WALL MOUNTED DISPENSERS.
7. MOP SINK SHALL BE SEPARATED FROM ANY FOOD PREPARATION OR STORAGE AREA AND SHALL BE A SLAB, BASIN CURBED AND SLOPED TO A DRAIN FINALIZED WITH OWNER, AND CONNECTED TO APPROVED SEWERAGE AND PROVIDED WITH HOT AND COLD RUNNING WATER, THROUGH A MIXING VALVE, AND PROTECTED WITH A BACKFLOW DEVICE.
8. ALL EQUIPMENT SHALL MEET NSF STANDARS AND INSTALLED IN ACCORDANCE WITH SUCH REQUIREMENTS.
9. ALL REFRIGERATION UNITS SHALL BE MAINTAINING FOODS AT OR BELOW 41 DEGREE F AT ALL TIME.
10.APPLIANCES AND EQUIPMENT WHICH ARE EQUIPPED WITH PUMPS, DRIPS OR DRAINAGE OUTLETS SHALL BE DRAINED BY INDIRECT WASTE PIPES DISCHARGING INTO AN APPROVED FLOOR DRAIN AS REQUIRED BY CODE.
11.FOOD SHELVING SHALL BE EASILY CLEANABLE AND DURABLE. THE LOWEST SHELF OF ANY SHELVING UNIT SHALL BE AT LEAST SIX INCHES ABOVE THE FLOOR.
12.VENTILATION SHALL BE PROVIDED TO REMOVE TOXIC GASES, HEAT, GREASE, VAPORS AND SMOKE FROM THE FOOD ESTABLISHMENT. ALL AREAS SHALL HAVE SUFFICIENT VENTILATION TO FACILITATE PROPER FOOD STORAGE AND TO PROVIDE A REASONABLE ENVIRONMENT OF COMFORT. TOILET ROOM SHALL BE VENTED TO THE OUTSIDE AIR BY MEANS OF A LIGHT-SWITCH ACTIVATED EXHAUST FAN, CONSISTENT WITH THE REQUIREMENTS OF LOCAL BUILDING CODES.
13.LIGHTING: 50 FOOT-CANDLES MIN. @ 30" AFF SHALL BE PROVIDED IN ALL AREAS WHERE FOOD IS PREPARED, PROCESSED OR PACKAGED OR IN AREAS WHERE UTENSILS ARE CLEANED OR STORED. LIGHT FIXTURES SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE EASILY CLEANABLE.
14.DELIVERY AND ENTRANCE DOORS SHALL BE SELF-CLOSING.
15.PROVIDE SUFFICIENT HOT WATER SUPPLY TO SATISFY THE CONTINUOUS AND PEAK HOT WATER DEMANDS OF THE ESTABLISHMENTS. HAND WASHING SHALL BE AT 110 DEGREES. ALL TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110 DEGREES.

NEW AUTOMATIC FIRE-EXTINGUISHING SYSTEM:

A NEW SYSTEM SHALL BE PROVIDED FOR THE KITCHEN EXHAUST HOOD AND DUCT SYSTEM AS REQUIRED BY THE IFC OR THE IMC. THE AUTOMATIC FIRE EXTINGUISHING SYSTEMS SHALL BE AUTOMATICALLY ACTUATED AND INTERLOCKS WITH FUEL SHUTOFFS, VENTILATION CONTROLS, SMOKE AND HEAT VENTS AND OTHER FEATURES NECESSARY FOR PROPER OPERATION OF THE FIRE-EXTINGUISHING SYSTEM.

MANUAL PULL-STATION SHALL BE NOT LESS THAN FORTY-TWO (42) INCHES ABOVE FLOOR AND NOT MORE THAN FORTY-EIGHT (48) INCHES ABOVE FINISHED FLOOR. B. NOT LESS THAN TEN (10) FEET FROM NOR MORE THAN TWENTY (20) FEET FROM THE EXHAUST SYSTEM; AND MUST BE IN OR NEAR THE PATH OF EGRESS. THE OPERATION OF THE EXTINGUISHING SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL OR ELECTRICAL SUPPLY TO THE COOKING EQUIPMENT UNDER THE HOOD.

AN AUDIBLE ALARM SHALL BE MOUNTED ON THE FRONT FACE OF THE HOOD, INTERLOCKED WITH THE FIRE SYSTEM. MAKE UP AIR UNITS SHALL BE ELECTRICALLY INTERLOCKED WITH THE AUTOMATIC FIRE SUPPRESSION SYSTEM AND SHALL SHUT DOWN UPON ACTIVATION. THE EXHAUST FANS SHALL REMAIN IN OPERATION DURING FIRE CONDITIONS. EXHAUST FANS SHALL BE TESTED FOR USE WITH GREASE LADEN VAPORS AND COMPLY WITH UL762-1991.

FIRE SUPPRESSION SYSTEM OVER DEEP FRYERS SHALL MEET UL300 COMPLIANCE.

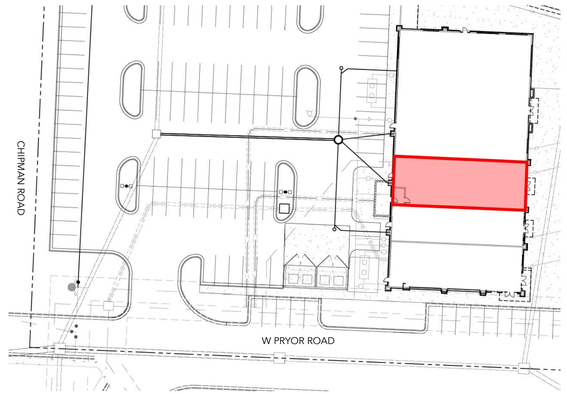
ALL ELECTRIC OUTLETS AND CONNECTIONS UNDER THE HOOD, SHALL BE TURNED OFF UPON ACTIVATION OF THE FIRE SYSTEM.

DEFERRED SUBMITTAL
FIRE SUPPRESSION SYSTEM IS NOT PART OF THIS SUBMITTAL. CONTRACTOR SUBMIT SHOP DRAWINGS FOR CITY/COUNTY APPROVAL PRIOR TO INSTALLATION.

FIRE PROTECTION NOTES:

1.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.
2. MAINTENANCE OF FIRE-RESISTIVE ASSEMBLY FOR THE EXISTING DEMISING WALL: GC SHALL FIELD VERIFY AND MAINTAIN THE REQUIRED ONE HOUR FIRE-RESISTANT RATING OF FIRE-RESISTANCE-RATED CONSTRUCTION. SUCH ELEMENTS SHALL BE PROPERLY REPAIRED, RESTORED OR REPLACED WHEN DAMAGED, ALTERED, BREACHED OR PENETRATED. OPENINGS MADE THEREIN FOR THE PASSAGE OF PIPES, ELECTRICAL CONDUIT, WIRES DUCTS, AIR TRANSFER OPENINGS AND HOLES MADE FOR ANY REASON SHALL BE PROTECTED WITH APPROVED METHODS CAPABLE OF RESISTING THE PASSAGE OF SMOKE AND FIRE. OPENINGS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROTECTED BY SELF- OR AUTOMATIC- CLOSING DOORS OF APPROVED CONSTRUCTION MEETING THE FIRE PROTECTION REQUIREMENTS FOR THE ASSEMBLY.
3. INSTALLATION ACCEPTANCE TESTING:
FIRE DETECTION AND ALARM SYSTEMS, FIRE EXTINGUISHING SYSTEM, FIRE HYDRANT SYSTEMS, AND ALL OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBJECT TO ACCEPTANCE TESTS AS CONTAINED IN THE INSTALLATION STANDARD AND AS APPROVED BY THE FIRE CODE OFFICIAL. THE FIRE CODE OFFICIAL SHALL BE NOTIFIED BEFORE ANY REQUIRED ACCEPTANCE TESTING.
4. PORTABLE FIRE EXTINGUISHERS FOR COMMERCIAL COOKING EQUIPMENT. PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED WITH A 30 FOOT TRAVEL DISTANCE OF COMMERCIAL TYPE COOKING EQUIPMENT. COOKING EQUIPMENT INVOLVING VEGETABLE OR ANIMAL OILS AND FATS SHALL BE PROTECTED BY A CLASS K RATED PORTABLE EXTINGUISHER. A K-CLASS EXTINGUISHER SHALL BE PROVIDED AND LOCATED UNDER THE MANUAL PULL FOR THE HOOD.
5. PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NFPA 10. OWNER SHALL BE MAINTAIN ABC TYPE EXTINGUISHERS.
6. MAINTENANCE OF EXTERIOR DOORS AND OPENINGS: EXTERIOR DOORS AND THEIR FUNCTION SHALL NOT BE ELIMINATED WITHOUT PRIOR APPROVAL.
7. SPRINKLER NOTES:
A. THIS SPACE IS PROTECTED WITH AN EXISTING WET PIPE SPRINKLER SYSTEM. RELOCATE AND PROVIDE ADDITIONAL SPRINKLER HEADS AND PIPING AS REQUIRED. SPRINKLER HEADS/ PIPING'S SHALL MATCH EXISTING.
B. SPRINKLER WORK SHALL BE PREFORMED BY A SPRINKLER CONTRACTOR PRE-APPROVED BY THE LANDLORD AND CITY.
C. PROVIDE SPRINKLER FLOW ALARM AND CONNECT TO EXISTING FIRE ALARM SYSTEM AS REQUIRED.
D. SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER SHOP DRAWINGS AND SHALL BE APPROVED BY THE LOCAL AUTHORITY AND LANDLORD'S INSURANCE CARRIER PRIOR TO START OF WORK.
E. ADD SPRINKLER HEADS IN THE WALK-INS.
8. THE FINAL DETERMINATION FOR THE REQUIREMENTS OF EXIT SIGNAGE AND EMERGENCY LIGHTING SHALL BE MADE IN THE FIELD.
9. SPRINKLER CONTROL VALVE SHALL REMAIN ACCESSIBLE.
10. SPACE WILL REQUIRE ADDRESS POSTED ON FRONT AND REAR. FRONT IS MINIMUM 6" LETTERS OF CONTRASTING COLOR TO BACKGROUND AND BACK MAY BE 1" LETTERS.
11. A KNOX BOX SHALL BE PROVIDED NEAR THE MAIN ENTRANCE TO THE BUILDING (IFC-2018 § 506.1) OR CITY ORDNANCE.
12. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER (IFC-2018 § 906.1;906.2). ABC AND CLASS K

02 SITE CONTEXT



1020 NW PRYOR ROAD SUITE 102 LEE'S SUMMIT, MISSOURI

03 KEY

- FLOOR DRAIN/SINK
- PORTABLE FIRE EXTINGUISHER
- EMERGENCY EXIT FIXTURE WITH 90 MIN. BACK-UP
- COMBINATION OF EXIT & EMERGENCY LIGHT UNIT WITH 90 MIN. BACK-UP PER ARTICLE 700 EMERGENCY SYS NFPA 70
- ELEC. PANEL EXISTING
- SINGLE SWITCH 48" A.F.F. TYP. RELOCATE EXISTING OR PROVIDE NEW AS NECESSARY
- ELECT. RECEPTACLE ELEVATION PER OWNER RELOCATE EXISTING OR PROVIDE NEW AS NECESSARY
- EXHAUST FAN SWITCHED With LIGHT VENT THROUGH ROOF TO THE EXTERIOR
- REVISION CLOUD
- ROOM NAME
- PLAN NOTE
- EQUIPMENT NUMBER
- 280 POWER OUTLET

DEMO WALL | NEW WALL | EXISTING WALL | CEILING TILE
CLAY | EARTH | ROOFING SHINGLES
GRAVEL | CONCR. | INSUL.
BRICK | BRICK | STACKED TILE

LINE ABOVE | BELOW | FURNITURE | EQUIPMENT | DIMENSION LINE | HATCH LINE | TEXT | CUT LINE

01 EXISTING SITE PLAN

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

SHEET REFERENCE SYMBOL

ELEVATION T.O.PLATE 1010'-0"

01 BUILDING INFORMATION

THE 2018 INTERNATIONAL BUILDING CODES PACKAGE:
INTERNATIONAL BUILDING CODE
INTERNATIONAL FIRE CODE
INTERNATIONAL PLUMBING CODE
INTERNATIONAL ENERGY CODE
INTERNATIONAL MECHANICAL CODE
INTERNATIONAL FUEL GAS CODE
INTERNATIONAL EXISTING BUILDING CODE

2017 NATIONAL ELECTRIC CODE
2010 ADA ACCESSIBILITY REQUIREMENTS

SCOPE OF WORK

THE REMODELING OF AN TENANT SPACE FOR THE NEW CAFE WHERE ORDER AND SERVED AT TABLE

CODE AND OCCUPANT LOAD DATA

CODE DATA	
OCCUPANCY TYPE	A2
CONSTRUCTION TYPE	2B
FLOOR AREA	2,700 SF

OCCUPANCY LOAD

ROOM NAME	AREA	AREA PER OCCUPANT	OCCUPANCY LOAD
DINING	FLEX SEAT BOOTH	928 SF/15 SF/PPL 56'/2'/PPL	62 28
KITCHEN	983 SF	200 SF GROSS	5
WAITING	BENCH	2'/PERSON	3
HOST			
		TOTAL OCCUPANCY LOAD: 99	

	REQUIRED	PROVIDED
NO. OF EXIT	2	2
NO. OF RESTROOMS	2	2
NO. OF STORIES	1 STORY	
SPRINKLERS	THIS IS A SPRINKLED BUILDING WITH AN EXISTING FIRE ALARM FOR THE BUILDING. DEFERRED SUBMITTAL BY GC PRIOR TO ANY MODIFICATION WORK BEGINS.	

PLUMBING FIXTURES

EXISTING TO REMAIN. NO CHANGE.

FIXTURES DATA	REQUIRED	PROVIDED
WATER CLOSET(S)	2	4
LAVATORY(S)	2	2

PLANNING AND DEVELOPMENT

PARKING DATA

PARKING PROVIDED BY DEVELOPER HAS COMPLY WITH THE CITY'S STANDARDS FOR OFF-STREET PARKING. ACCESSIBLE PARKING SPACES AND RAMPS ARE LOCATED IN FRONT OF THIS FACILITY.

NO RTU CAN BE SIGHTED FROM GROUND LEVEL.
GC SHALL PROVIDE RTU SCREEN MATCHING BUILDING MATERIALS AS REQUIRED.

CORNERSTONE ARCHITECT, LLC
8117 NW ROBERTS ROAD
KANSAS CITY, MISSOURI 64152
816.838.3472
CORNERSTONEARCHITECTLLC@GMAIL.COM

PROJECT:

MAGIC NOODLES

1020 NW PRYOR ROAD SUITE 102
LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
YUEH-LI JEAN SUN KAO
NUMBER A-6059
REGISTERED ARCHITECT

05/20/2024

SHEET INDEX:

CONSULTANTS:

M/E/P:
GLADFELTER ENGINEERING GROUP
10233 MILLSTONE DRIVE, #4111
LENEXA, KANSAS
66220
TEL: 816-916-4675
EMAIL: GPG@AECONSORT.COM

ISSUE PACKAGE:

NO:	DATE

OWNER:
CONTACT:

DRAWN BY: JRK
CHECKED BY: YJK
PROJECT: DINE-IN

DATE 05/19/2024

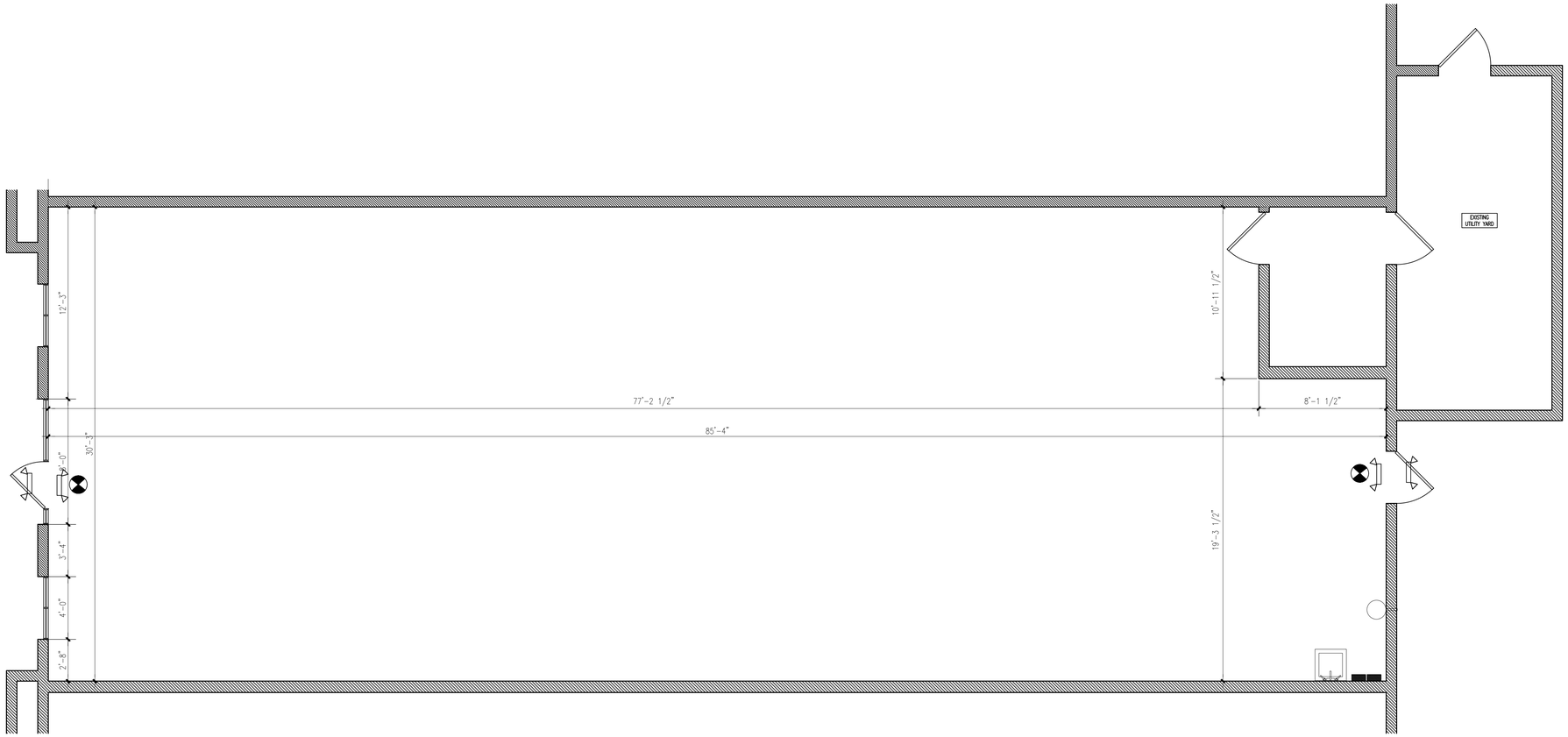
DRAWING

TITLE PAGE

SCALE 1/4" = 1'-0"

SHEET NUMBER

T



01 EXISTING / DEMO FLOOR PLAN

SCALE: $\frac{1}{4}$ " = 1'-0"

01 PLAN NOTES

1. GC TO FIELD VERIFY ALL EXISTING CONDITIONS

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ISSUE PACKAGE:

NO:	DATE

OWNER:
CONTACT:

DRAWN BY: JRK
CHECKED BY: YJK
PROJECT: DINE-IN

DATE 05/19/2024

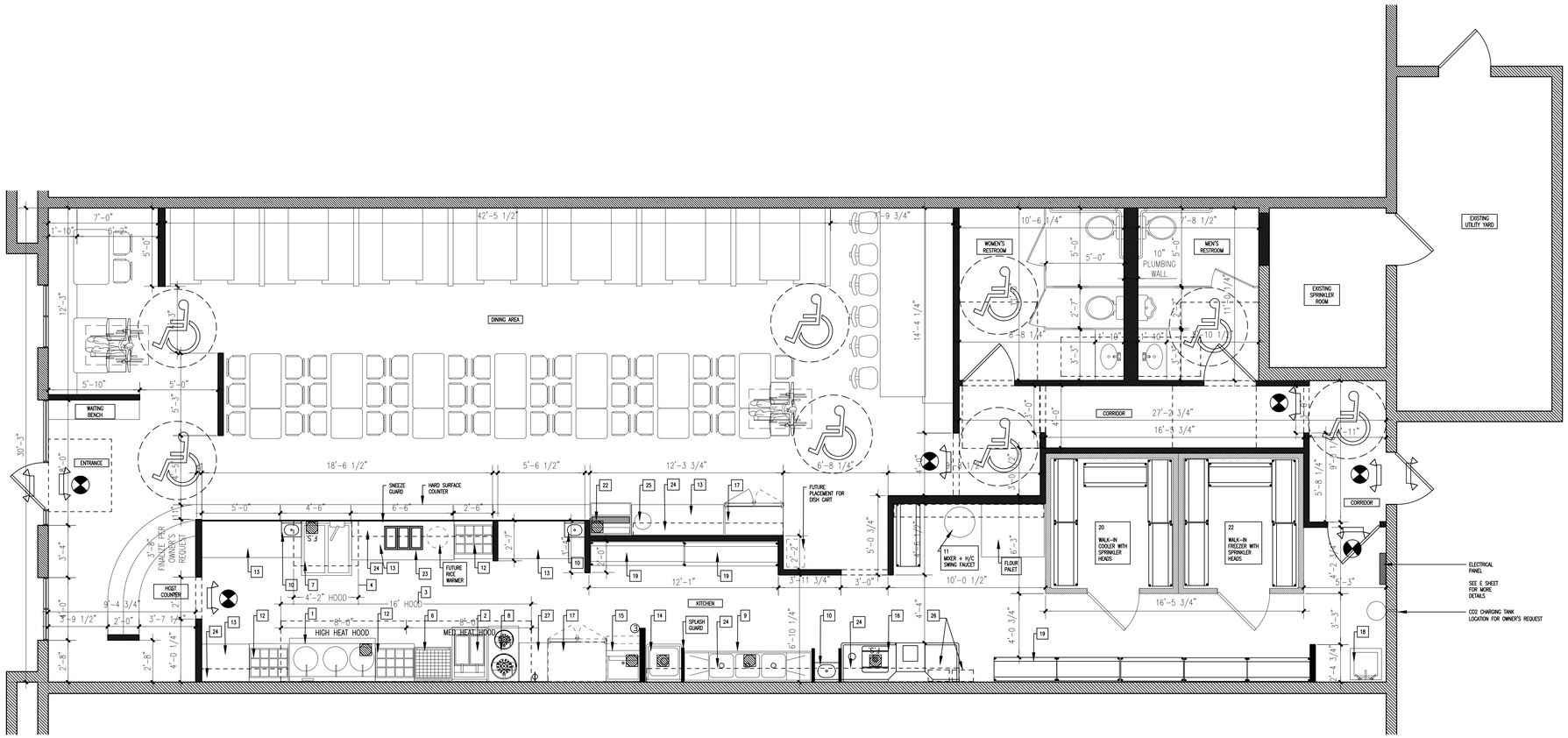
DRAWING

EXISTING FLOOR PLAN

SCALE $\frac{1}{4}$" = 1'0"

SHEET NUMBER

A101



02 PROPOSED FLOOR PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

01 PLAN NOTE

1. GC TO FIELD VERIFY ALL EXISTING CONDITIONS
2. ALL SELF-SERVE COUNTERS @34" AFF

02 EQUIPMENT LIST

1	WOK
2	DEEP FRYER
3	EXHAUST HOOD
4	EXHAUST HOOD
5	N/A
6	TAPPAN GRIDDLE
7	PASTA COOKER
8	SOUP STOCK BURNER
9	3 COMP SINK
10	HAND SINK
11	DOUGH MIXER
12	PREP COOLER
13	WORK TABLE
14	PREP SINK
15	ICE MAKER
16	DISHWASHER
17	2 DOOR COOLER
18	MOP SINK
19	WIRE SHELVES
20	WALK-IN COOLER
21	WALK-IN FREEZER
22	ICE MAKER DRINK COMBO
23	SOUP WARMER
24	DOUBLE DECK SHELF/OR SS SHELF
25	TEA URN STAND
26	TANKLESS HWH

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NO:	DATE

OWNER:
CONTACT:

DRAWN BY: JRK
CHECKED BY: YJK
PROJECT: DINE-IN

DATE 05/19/2024

DRAWING

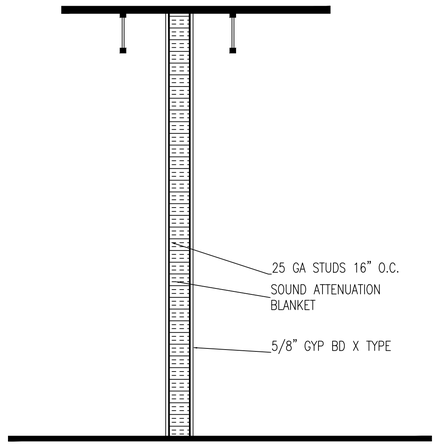
PROPOSED FLOOR PLAN

SCALE $\frac{1}{4}$" = 1'0"

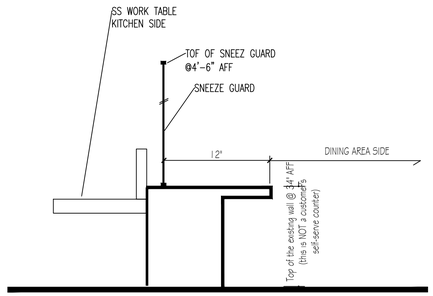
SHEET NUMBER

A102

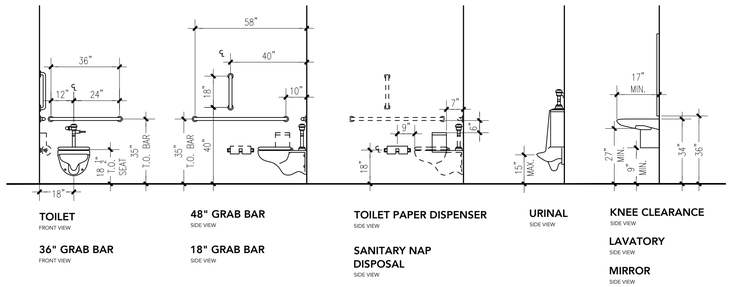
04 NEW PARTITION WALL & PARTIAL WALL SIM.
NOT TO SCALE

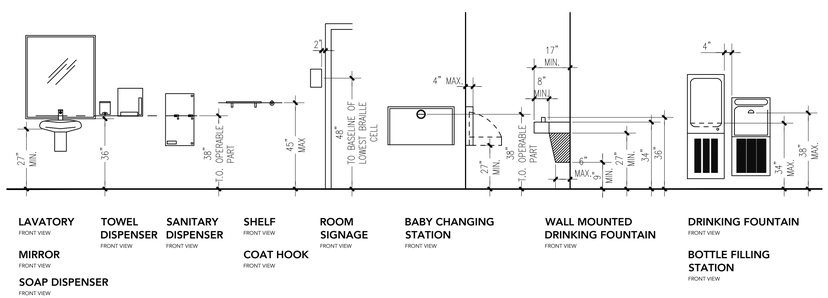


05 SNEEZE GUARD @ PASTA SERVICE COUNTER
NOT TO SCALE



06 ADA RESTROOM MOUNTING HEIGHTS FOR BATHROOM ACCESSORIES
NOT TO SCALE





1. WATER CLOSET SHALL BE LOCATED 18" FROM SIDEWALL. THE HEIGHT TO THE TOP OF THE TOILET SEAT SHALL BE 17" TO 19".
2. GRAB BARS SHALL BE 1 1/2" DIA. MOUNTED 33-36" A.F.F. SIDE WALL: FULL WIDTH, CONNECTING TO GRAB BAR ON BACK WALL. BACK WALL: FULL WIDTH, CONNECTING TO GRAB BARS ON SIDE WALLS.
3. GRAB BARS @ WATER CLOSET SHALL BE 1 1/2" DIA MOUNTED 33-36" A.F.F. SIDE WALL: HORIZONTAL @42"LONG, 12" FROM BACK WALL. VERTICAL @18"LONG MIN. 39"-41" FROM BACK WALL, 39"-41" A.F.F. FROM BOTTOM OF BAR. BACK WALL: 36" LONG, WATER CLOSET ON CENTER.
4. TOILET PAPER DISPENSERS SHALL BE INSTALLED ON THE SIDEWALL, BELOW THE GRAB BAR, AT MIN. 19" ABOVE THE FLOOR, AND A MAX. 36" FROM THE REARWALL. DISPENSERS THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
5. LAVATORIES SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34" ABOVE THE FINISH FLOOR. IT SHALL EXTEND 17" MIN. FROM THE WALL. CLEARANCE OF 29" MIN SHALL BE PROVIDED FROM FINISH FLOOR TO BOTTOM OF APRON. KNEE CLEARANCE OF 27" MIN. BY 8" MIN. UNDER THE EDGE OF THE LAVATORY. HOT WATER AND DRAINPIPES UNDER LAVATORIES SHALL BE INSULATED TO PROTECT AGAINST CONTACT AND SHALL BE NO ABRASIVE SURFACES.
6. FAUCET SHALL BE LEVER-OPERATED DESIGN.
7. MIRROR SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40" MAX. A.F.F.
8. HANDICAPPED ACCESSIBLE RESTROOM SIGN SHALL MEET ALL THE STANDARDS OF ADA SIGN.
9. RESTROOM SHALL BE 3'-0"X 7'-0" HOLLOW CORD DOOR W/ SELF-CLOSER AND U SHAPED HARDWARE.
10. EXHAUST FAN SHALL BE SWITCHED WITH LIGHT.
11. ACCESSIBLE ROUTE SHALL HAVE A RUNNING SLOPE OF 1:20 MAX. AND A CROSS SLOPE OF 1:50 MAX.

01 EQUIPMENT LIST

NO.	DESCRIPTION	MODEL	NSF/AGA/UL	GAS	VOLT	AMP/HR/PH	MANUFACTURER
1	WOK	Q3 BURNERS	V V V	3/4"	300,000		WIN
2	DEEP FRYER		V V V	3/4"	150,000		AVANTCO
3	EXHAUST HOOD	16 FOOT TYPE 1	V V			120	LARKEN
4	EXHAUST HOOD	4 FOOT TYPE 2	V				LARKEN
5	GREASE INTERCEPTOR	CONNECT TO EXISTING	V				PER P SHEET
6	TAPPAN GRIDDLE	24" WIDE	V V V	3/4"	60,000		VOLLRATH
7	PASTA COOKER	AX-GPC-2	V V V	3/4"x2"	100,000		AXIS OR SIM
8	SOUP STOCK BURNER	TASP-180	V	3/4"	158,000	115	6 1/2" 1 WIN
9	3 COMP SINK	22X22X20	V				EAGLE
10	HAND SINK	PER OWNER	V				EAGLE
11	DOUGH MIXER	30 QUART	V V			115/60/1	6 1 1 WIN
12	PREP COOLER	30"	V V			115	3.2 1/2" 1 TURBO
13	WORK TABLE	SIZE VARY	V V				WIN
14	PREP SINK	PER OWNER	V			115	EAGLE
15	ICE MAKER	REMOTE AIRCHILL	V V			115	1/3" 1 MANITOWOC
16	DISHWASHER	CONSERVER XL:CHEM. SAN.	V V			115	EAGLE
17	2 DOOR COOLER	PER OWNER	V V			115/60/1	1/3" 1 MANITOWAC
18	MOP SINK	PER OWNER	V				EAGLE
19	WIRE SHELVES	PER OWNER	V				EAGLE
20	WALK-IN COOLER	SIZE PER PLAN	V V			230	7.7 1 1 AMERIKOOLER
21	WALK-IN FREEZER	SIZE PER PLAN	V V			230	10 1 1 AMERIKOOLER
22	ICE MAKER DRINK COMBO	AIR COOL	V V			115/120/60	9.8 1 HOSHIZIKI
23	SOUP WARMER	INDUCTION 7 QT	V V			115/120/60	8.5 1 VOLLRATH
24	DOUBLE DECK SHELF	PER OWNER	V				WIN
25	TEA URN STAND	PER OWNER	V				WIN
26	TANKLESS HWH	CU199IN	V V V	3/4"	199,000		RINNAI

NOTE:
1. "BY OWNER": EQUIPMENT PROVIDE BY OWNER AND INSTALL BY GC PER MANUFACTURE'S INSTRUCTION WITH SUFFICIENT POWER IN ACCORDANCE WITH THE LATEST ADOPTED CODE.
2. GC TO FINALIZE ALL EQUIPMENT WITH OWNER PRIOR TO CONSTRUCTION, AND INSTALLATION PER MANUFACTURE'S INSTRUCTION AND THE LATEST ADOPTED CODE.
3. PER NFPA 17A AND 96, ALL CASTER-MOUNTED EQUIPMENT UNDER FIRE SUPPRESSION SYSTEM SHALL BE LOCKED IN PLACE WITH DORMONT SAFETY-SET CASTER PLACEMENT SAFETY SET SYSTEM, OR EQUAL.

02 INTERIOR FINISH SCHEDULE

INTERIOR FINISH SCHEDULE

ROOM	FLOOR	CEILING	WALL
DINING	CERAMIC TILE WITH MATCHING COVE BASE	OPEN CEILING	2 COATS OF WASHABLE PAINT
HOST	CERAMIC TILE WITH MATCHING COVE BASE	OPEN CEILING	2 COATS OF WASHABLE PAINT
RESTROOM/ CORRIDOR	CERAMIC TILE WITH MATCHING COVE BASE	EXISTING 2X4 LAY-IN CLIMAPLUS CEILING TILE OR EQUAL	TILE TO 6'-0" A.F.F. & WASHABLE PAINT
KITCHEN	CERAMIC TILE WITH MATCHING COVE BASE	2X4 LAY-IN CEILING TILE, GENESIS: SMOOTH PRO OR EQUAL	SS UNDER HOOD / FRP

INTERIOR WALL AND CEILING FINISH MATERIALS SHALL COMPLY WITH IBC 2018 CHAPTER 803.1 AND TESTED IN ACCORDANCE WITH NFPA 286.

03 DOOR SCHEDULE

DOOR SCHEDULE

DOOR	MATERIAL	SIZE	REMARKS-HEAVY DUTY COMMERCIAL, ANSI, ADA
EXISTING EXTERIOR FRONT	STORE FRONT ALUMINUM	6'-0" x 7'-0"	TIGHT FITTING, CLOSER, PUSH PANIC BAR
NEW RESTROOM	WOOD-SC, MTL FRAME, PREHUNG	3'-0" x 6'-8"	TIGHT FITTING, CLOSER, PUSH/PULL PLATE SET
EXISTING EXTERIOR REAR	HOLLOW MTL FRAME, PREHUNG	3'-0" x 7'-0"	TIGHT FITTING, CLOSER, PUSH PANIC BAR

DOOR NOTES:
1. LATCH SIDE CLEARANCES AT ALL DOORWAYS SHALL BE IN ACCORDANCE W/ A 117.1 AND IN COMPLIANCE WITH IBC 2018 1008 AND 1010.1.99
2. ALL EXITS TO BE LABELED.
3. INTERIOR TO BE LABELED AS TO INTENDED USE.
4. PANIC HARDWARE ON ALL EXTERIOR DOORS
5. THE OPERATING DEVICE ON ALL DOORS SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
6. LANDING SHALL BE PROVIDED AT EVERY REQUIRED EXIT AND THEY SHALL BE A MINIMUM OF 36 INCHES IN WIDTH AND 44 INCHES LONG IN THE DIRECTION OF TRAVEL.

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PROJECT:

MAGIC NOODLES
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LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
YUEH-LI JEAN SUN KAO
NUMBER A-6059
REGISTERED ARCHITECT

05/20/2024

SHEET INDEX:

CONSULTANTS:

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ISSUE PACKAGE:

NO:	DATE

OWNER:
CONTACT:

DRAWN BY: JRK
CHECKED BY: YJK
PROJECT: DINE-IN

DATE 05/19/2024

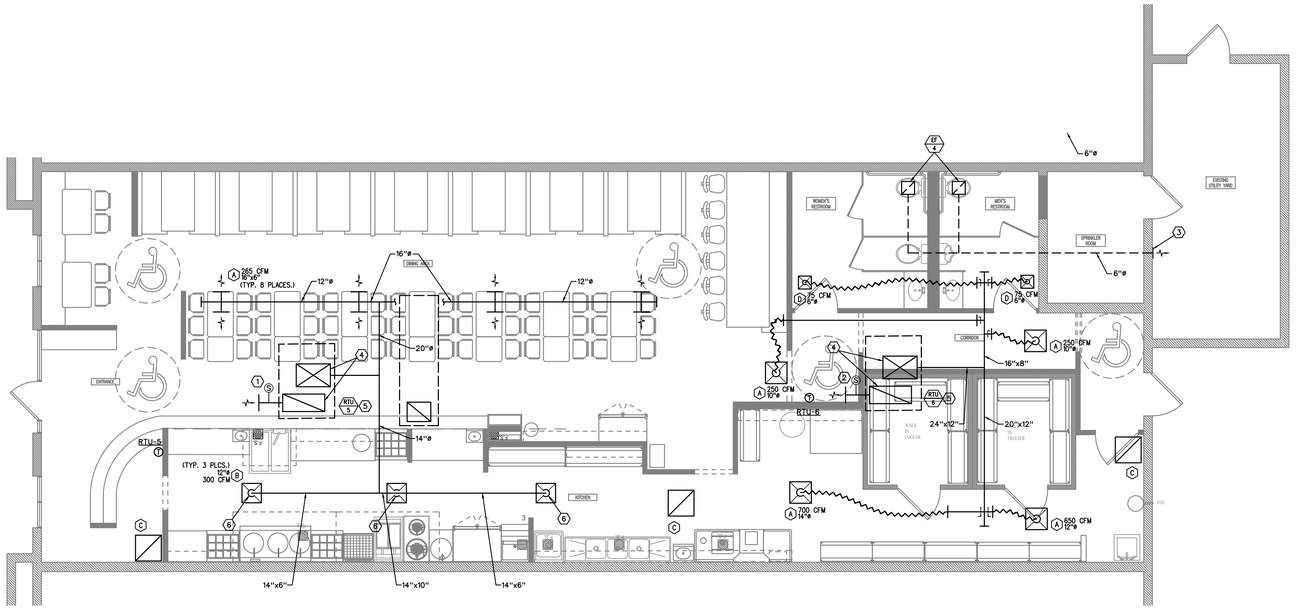
DRAWING

DETAILS + SCHEDULES

SCALE 1/4" = 1'0"

SHEET NUMBER

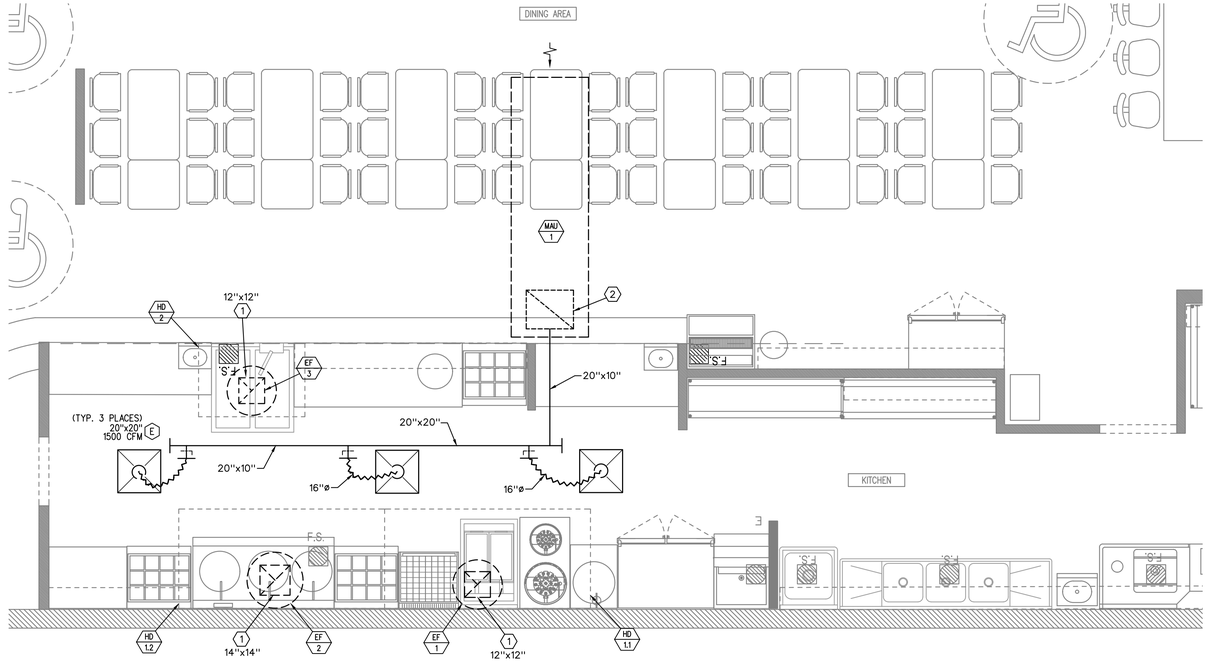
A103



MECHANICAL FLOOR PLAN

1/4" = 1'-0"

NORTH



MECHANICAL ENLARGED KITCHEN PLAN

3/8" = 1'-0"

NORTH

MECHANICAL PLAN NOTES (#)

1. EXISTING SMOKE DETECTOR IN RA DUCT IS ALREADY IN PLACE. SMOKE DETECTOR SHALL BE WIRED BY ELECTRICAL CONTRACTOR TO SHUT DOWN SUPPLY AIR FANS AT BOTH ROOFTOP UNITS UPON DETECTION OF SMOKE. SEE THE MECHANICAL SPECIFICATION FOR ADDITIONAL INFORMATION.
2. NO SMOKE DETECTOR REQUIRED SINCE SUPPLY AIR FAN CAPACITY DOES NOT EXCEED 2000 CFM.
3. 6" EXHAUST DUCT THRU WALL TO WEATHERPROOF OUTLET.
4. SA & RA DUCTS DOWN THRU ROOF. COORDINATE SIZE WITH ROOFTOP UNIT MANUFACTURER.
5. COORDINATE LOCATION OF OA INTAKE AND MAINTAIN 10'-0" SEPARATION BETWEEN INTAKE ANY EXHAUST OUTLETS OR PLUMBING VENTS.
6. 12"ø SPIN COLLAR WITH VD AND 12"ø FLEX DUCT DOWN TO CEILING DIFFUSER (TYP. 3 PLACES).

ENLARGED KITCHEN MECHANICAL PLAN NOTES

1. EXHAUST AIR DUCT THRU ROOF (SIZE AS INDICATED). COORDINATE LOCATION WITH STRUCTURAL ELEMENTS. OFFSET DUCT IF REQUIRED. MAINTAIN 10'-0" SEPARATION BETWEEN OUTLET OF EF AND ANY HVAC EQUIPMENT OA INTAKES.
2. 22"x18" MAKE-UP AIR DOWN THRU ROOF FROM MAKE-UP AIR UNIT. ROOF PENETRATION (FLASHING AND ROOFING) BY LANDLORD'S APPROVED ROOFING CONTRACTOR. COORDINATE LOCATION OF MAKE-UP AIR UNIT WITH STRUCTURAL ELEMENTS AND MAINTAIN 10'-0" SEPARATION BETWEEN OA INTAKE AND EXHAUST OUTLETS OR PLUMBING VENTS.

MECHANICAL GENERAL NOTES

A) COORDINATE LOCATION OF CEILING DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.

B) CONFIRM THAT NO COMBUSTIBLE MATERIALS ARE LOCATED IN CEILING RETURN AIR PLENUMS.

C) TEMPERATURE CONTROL INCLUDES ALL CONTROL WIRING FOR COMPLETE OPERATION OF ROOFTOP UNITS BY MECHANICAL CONTRACTOR ACCORDING TO THE FOLLOWING SEQUENCE OF OPERATION

RTU SEQUENCE OF CONTROL:

PROVIDE A WALL MOUNTED 7-DAY HEATING/COOLING THERMOSTAT FOR EACH ROOFTOP UNIT INSTALLED IN A LOCATION APPROVED BY THE OWNER. INSTALL TAMPERPROOF COVER.

DAY OPERATION - THE TIMECLOCK OR MANUAL OVERIDE FUNCTION SHALL AUTOMATICALLY ACTIVATE THE SYSTEM TO THE "OCCUPIED" OR "DAY" MODE. THE SYSTEM SHALL HEAT OR COOL THE SPACE TO THE DESIRED SET POINTS (COOLING: 74°F AND HEATING: 70°F) THROUGH THE THERMOSTATS BUILT-IN DEADBAND. THE OUTSIDE AIR DAMPERS SHALL BE AT THEIR MINIMUM POSITION AND THE FAN SHALL MAINTAIN CONTINUOUS OPERATION.

NIGHT OPERATION - THE TIMECLOCK SHALL AUTOMATICALLY ACTIVATE THE SYSTEM TO THE "NIGHT/UNOCCUPIED" MODE. THE SYSTEM SHALL HEAT OR COOL THE SPACE TO THE DESIRED NIGHT SET POINTS (COOLING: 85°F AND HEATING: 60°F) THROUGH THE THERMOSTATS NIGHT/UNOCCUPIED SETPOINTS. THE OUTSIDE AIR DAMPERS SHALL BE CLOSED AND THE FAN SHALL CYCLE AS NEEDED TO MAINTAIN THE THERMOSTAT SETPOINTS.

ECONOMIZER OPERATION TO ENABLE FREE COOLING SHALL BE A FUNCTION OF THE RTU MANUFACTURER'S STANDARD CONTROLS.

DEHUMIDIFICATION OPERATION, IF PROVIDED, SHALL BE A FUNCTION OF THE RTU MANUFACTURER'S STANDARD CONTROLS. INSTALL HUMIDISTAT WHERE RECOMMENDED BY MANUFACTURER

SAFETY OPERATION - THE SYSTEM SHALL SHUTDOWN OPERATION OF RTU FAN UPON DETECTION OF SMOKE AT ANY SMOKE DETECTOR INSTALLED AT THIS FACILITY.

RTU FAN SHALL OPERATE WHENEVER THE HOOD EXHAUST AND MAKE-UP AIR SYSTEMS ARE OPERATING. CONSULT "AIR BALANCE" SCHEDULE FOR MINIMUM OA SETTING WHEN THESE SYSTEMS ARE OPERATING.

E) TYPE I HOODS, ASSOCIATED EXHAUST FANS AND MAKE-UP AIR UNIT PROVIDED BY KEC, INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXHAUST DUCT CONNECTIONS TO HOOD WITH MANUFACTURER OF THE HOOD INSTALLED.

F) CONTRACTOR SHALL ASSURE A FREE AIR PATH EXISTS IN RA CEILING PLENUM SPACES. PROVIDE OPENINGS IN SOLID BARRIERS AND RA SOUND BOOTS WHERE SOUND CONTROL IS DESIRED.

MECHANICAL SYMBOLS

	NEW SHEET METAL DUCTWORK & SIZE.
	NEW SHEET METAL DUCTWORK & SIZE.
	SUPPLY AIR DUCT OR OUTSIDE AIR INTAKE.
	RETURN AIR DUCT OR EXHAUST AIR DUCT.
	DIRECTION OF RETURN AIRFLOW.
T	THERMOSTAT OR TEMPERATURE SENSOR.
CD	CONDENSATE DRAIN.
	ELBOW DOWN.
	ELBOW UP.
SA	SUPPLY AIR.
OA	OUTSIDE AIR.
RA	RETURN AIR.
EA	EXHAUST AIR.
CU	CONDENSING UNIT.
EF	EXHAUST FAN.
RTU	ROOFTOP UNIT.
	PLAN NOTE DESIGNATION.
	PLAN REVISION DESIGNATION.
	CONNECT TO EXISTING.
	MECHANICAL EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (RTU, EF, HP, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
05/17/2024

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Date: 2024/04/13

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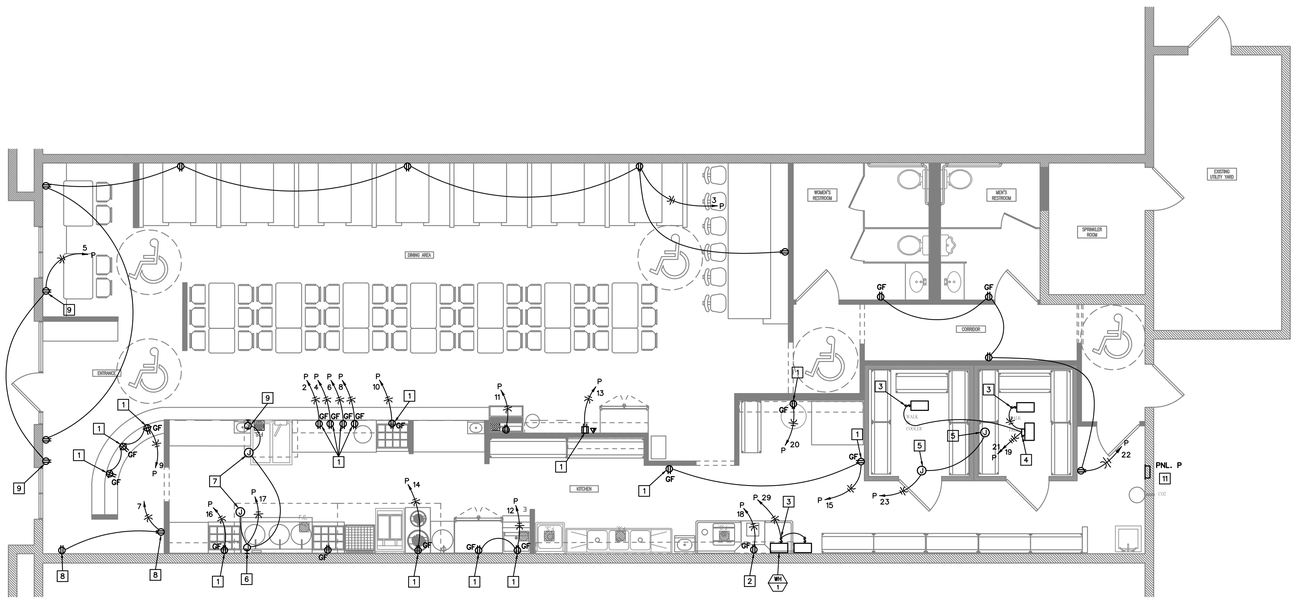
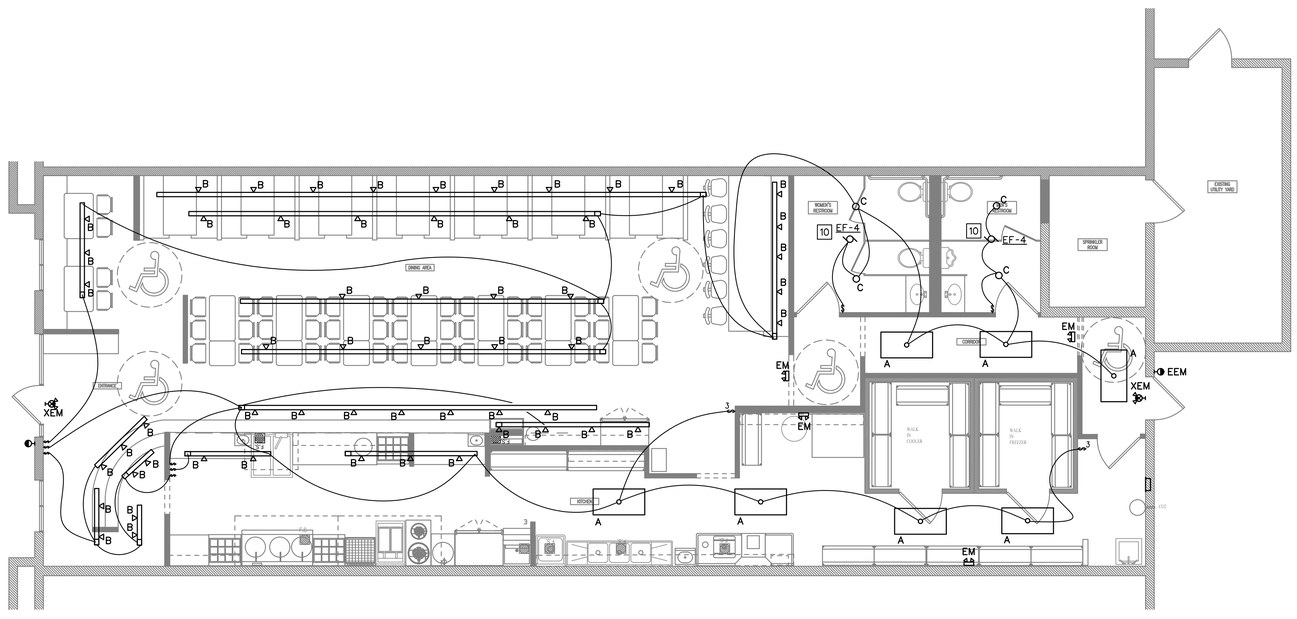


POWER FLOOR PLAN

1/4" = 1'-0"

NORTH



LIGHTING FLOOR PLAN

3/16" = 1'-0"

NORTH

ELECTRICAL PLAN NOTES

1. INSTALL OUTLET BOX FOR WIRING DEVICE AT 48" AFF.
2. RECEPTACLE FOR DISHWASHER INSTALLED BELOW COUNTERTOP. INSTALL IN AN ACCESSIBLE MANNER.
3. 20A/1P, HORSEPOWER RATED TOGGLE SWITCH FOR DISCONNECTING MEANS INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
4. 30A/2P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
5. J-BOX FOR CONNECTION OF WALK-IN LIGHTS AND CONTROLS. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
6. J-BOX FOR CONNECTION OF HOOD/ANSUL. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
7. J-BOX FOR CONNECTION OF HOOD LIGHTS AND CONTROLS. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
8. OUTLET BOX FOR WIRING DEVICE INSTALLED AT 6'-0" AFF.
9. SHOW-WINDOW RECEPTACLE INSTALLED IN CEILING. INSTALL WITHIN 12" OF WINDOW.
10. POWER FROM LIGHTING CIRCUIT.
11. COORDINATE LOCATION OF PANEL P WITH THE OWNER. EXTEND MIN. 2" CONDUIT FROM EXISTING 2-1/2" CONDUIT, PULL 3 #3/0 CU AND 1 #6 CU G FROM EXISTING 400-AMP DISCONNECT SWITCH PANEL P. REPLACE EXISTING 400-AMP FUSES WITH 200-AMP FUSES AT DISCONNECT SWITCH (3-POLE).

ELECTRICAL GENERAL NOTES

A) SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.

B) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.

C) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.

D) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.

E) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.

F) VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK.

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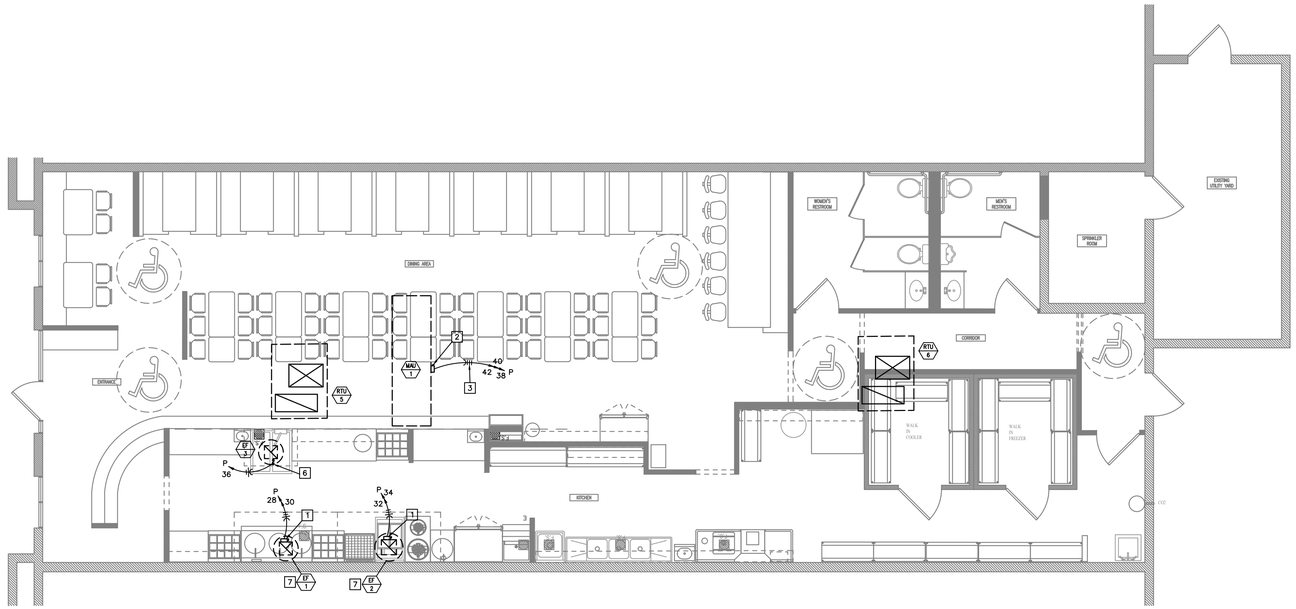

ROOF POWER PLAN

3/16" = 1'-0"

NORTH

POWER PLAN NOTES

1. 30A/2P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
2. 30A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
3. 3/4" CONDUIT WITH 3-#10 (CU) AND 1-#10 (CU) GROUND WIRE.
4. 60A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
5. 3/4" CONDUIT WITH 3-#8 (CU) AND 1-#10 (CU) GROUND WIRE.
6. 20A/1P, HORSEPOWER RATED TOGGLE SWITCH INSTALLED ON WALL FOR DISCONNECTING MEANS.
7. POWER FROM LIGHTING CIRCUIT.

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E201

PANEL P 120/208 VOLTS ■ 200 A. BUS ■ SERVICE ENTRANCE
(EXISTING) 3 PHASE □ 200 A. MAIN BREAKER □ FEED THRU LUGS
SECTION 1 OF 1 4 WIRE ■ MAIN LUGS ONLY □ SUBFEED LUGS

CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. BRKR. AMPS	CIRC. BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. BRKR. AMPS	CIRC. BRKR. POLES	VA
1	LIGHTS	20	1	920	A	2	INDUCTION	20	1	1800
3	RECEPTACLES	20	1	1080	B	4	INDUCTION	20	1	1800
5	SHOW-WINDOW REC	20	1	1000	C	6	INDUCTION	20	1	1800
7	LOGO REC	20	1	1000	A	8	INDUCTION	20	1	1800
9	HOST REC	20	1	1200	B	10	PREP COOLER	20	1	500
11	SODA/ICE	20	1	1000	C	12	ICE/COOLER	20	1	1500
13	P.O.S.	20	1	500	A	14	STOCK BURNER	20	1	720
15	GF REC	20	1	360	B	16	PREP COOLER	20	1	500
17	HOOD S	20	1	1500	C	18	DISHWASHER	20	1	1500
19	WALK-IN SYSTEMS	20	2	1000	A	20	MIXER	20	1	1500
21				1000	B	22	RECEPTACLES	20	1	720
23	WALK-IN LTS/CONTRLS	20	1	500	C	24	SPARE	20	1	-
25	SPARE	20	1	-	A	26	SPARE	20	1	-
27	SPARE	20	1	-	B	28	EF-1	15	2	385
29	WH-1	20	1	500	C	30				385
31	EXISTING RTU-5	60	3	3480	A	32	EF-2	15	2	500
33				3480	B	34				500
35				3480	C	36	EF-3	15	1	696
37	EXISTING RTU-6	50	3	6720	A	38	MAU-1	25	3	2040
39				6720	B	40				2040
41				6720	C	42				2040

TOTAL CONNECTED LOAD 57270 VA

SURFACE MOUNTED
■ FLUSH MOUNTED

DEMAND FACTORS:
LIGHTS @ 125 % = 1150 VA
RECEPTS @ 100 % = 10000 VA
RECEPTS @ 50 % = 2332 VA
OTHER @ 100 % = 41686 VA
TOTAL DEMAND LOAD = 55168 VA

NEUTRAL BUS 100 %
POWER FACTOR 100 %
DEMAND CURRENT 153.2 AMPS

NOTES:
1. POWER FROM PANEL P FROM 400-AMP FUSED DISCONNECT SWITCH. REPLACE FUSES WITH 200-AMP RATED FUSES.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMP	VOLTS WATTS
A	2x4 TROFFER SELECTED BY ARCHITECT	LED	120 32
B	LED TRACK LIGHT FIXTURE AND TRACK RAIL SYSTEM SELECTED NY ARCHITECT	LED	120 10
C	CAN LIGHT SELECTED BY ARCHITECT	LED	120 10
EM	EXITRONIX #LED90	(2) LED HEADS WITH UNIT	120 10
EEM	EXITRONIX #MLED	WEATHERPROOF LED REMOTE	6 8
XEM	EXITRONIX #VLED-1-WH-EL90-R	RED LED AND (2) LED HEADS WITH UNIT	120 15
X	EXITRONIX #VEX-U-BP-WB-WH-120	RED LED WITH UNIT	120 5
X2	EXITRONIX #VEX-U/2-BP-WB-WH-120	RED LED WITH UNIT	120 5

NOTES:
1. TYPE 'X' AND/OR 'XEM' FIXTURES SHALL HAVE 12 WATTS OF REMOTE CAPACITY AND POWER TYPE 'EEM'.

ELECTRICAL SYMBOLS

- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
- CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.
- GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.
- WALL MOUNTED JUNCTION BOX.
- CEILING MOUNTED JUNCTION BOX.
- PANELBOARD (SURFACE MOUNTED).
- DISCONNECT SWITCH. SIZED AS NOTED.
- DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.
- EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN. (OR)
- EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN.
- COMBINATION EXIT/EMERGENCY LIGHT FIXTURE WITH (2) HEADS
- CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH (2) HEADS.
- FLUORESCENT LIGHT FIXTURE.
- FLUORESCENT NIGHT LIGHT FIXTURE. FIXTURE SHALL BE ON 24/7.
- FLUORESCENT STRIP FIXTURE.
- CEILING LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE.
- REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE.
- $ SINGLE POLE SWITCH. +3'-10" AFF.
- $P SWITCH AND PILOT LIGHT. +3'-10" AFF.
- SINGLE RECEPTACLE. +1'-6" AFF OR AS NOTED.
- DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
- DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
- WP DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
- GF DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.
- FOURLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
- FOURPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
- COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
- COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.

+3'-10"	HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.
RTU-1	ROOF TOP UNIT AND NUMBER.
WH-1	ELECTRIC WATER HEATER AND NUMBER.
EF-1	EXHAUST FAN AND NUMBER.
AFF	ABOVE FINISH FLOOR.
ETR	EXISTING TO REMAIN.
ER	EXISTING RELOCATED.
EC	ELECTRICAL CONTRACTOR.
NL	NIGHT LIGHT. FIXTURE SHALL BE ON 24/7

ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH BUILDING REPRESENTATIVE AND GENERAL CONTRACTOR.
2. INSTALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION.
3. CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
4. ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
5. CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
6. ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
8. MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE CONCEALED IN WALLS AND FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM LENGTH 6'-0"). CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER. MC CABLE SHALL NOT BE USED FOR HOMERUNS.
9. INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
10. TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
11. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.
12. ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.
13. ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS.
14. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
15. VOICE/DATA AND THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.
16. VOICE/DATA SYSTEMS, ASSOCIATED WIRING, AND DEVICES TO BE PROVIDED BY OWNER.
17. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.
18. FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
19. MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
20. PROVIDE LIGHT FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
21. ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
22. PROVIDE A FACTORY INSTALLED MAXIMUM WATTAGE LABEL ON ALL MEDIUM SCREW BASE LIGHT FIXTURES THAT CORRESPONDS TO THE MAXIMUM WATTAGE OF THE LIGHT FIXTURE LISTED IN THE LIGHT FIXTURE SCHEDULE.
23. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.
24. E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
25. E.C. SHALL VERIFY ALL CONDITIONS PRIOR TO ANY ROUGH-IN.
26. ALL CHANGES BY E.C. TO ITEMS SPECIFIED ON DRAWINGS MUST BE APPROVED IN WRITING BY ENGINEER/ARCHITECT OR OWNER AT LEAST (10) TEN DAYS PRIOR TO PROJECT BID DATE.
27. E.C. SHALL PROVIDE AND INSTALL SMOKE AND FIRE STOPS AT ALL CONDUIT PENETRATIONS OF SMOKE AND FIRE-RATED WALLS AND CEILINGS.
28. CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
29. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
30. E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
31. DUCT SMOKE DETECTOR SHALL BE 120 VOLT, PHOTO-ELECTRIC WITH SAMPLING TUBES - INSTALLED IN RETURN AIR DUCT OF HVAC UNIT(S). PROVIDE WITH MIN-ALERT SOUNDER, STROBE AND REMOTE TEST/RESET STATION. WIRE DETECTORS SO THAT UPON SENSING SMOKE HVAC UNIT FANS(S) AUTOMATICALLY SHUTS DOWN AND SOUNDER/STROBE IS ACTIVATED. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL FANS SHALL AUTOMATICALLY SHUT DOWN UPON DETECTION OF SMOKE AT ANY SINGLE SMOKE DETECTOR (INCLUDING VAV BOX FANS OR OTHER FANS ASSOCIATED WITH THE PLENUM). PROVIDE ALL RELAYS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. EQUIPMENT SHALL BE BY EDWARDS, SIMPLEX, PYROTRONICS, OR NOTIFER.
32. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AIC RATING.
33. THE COMPONENTS OF THE ELECTRICAL SYSTEM SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE THEREOF EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP.
34. FIRE ALARM SYSTEM ADDITIONS TO THE TENANT SPACE FOR THIS FACILITY SHALL BE DESIGN/BUILD. SUCCESSFUL FIRE ALARM CONTRACTOR SHALL PROVIDE COMPLETE FIRE ALARM SYSTEM DOCUMENTS INCLUDING DRAWINGS, DETAILS AND SPECIFICATION DATA SHEETS SEALED BY A LICENSED ENGINEER FOR REVIEW AND SUBMISSION TO THE CITY FOR PERMIT. INSTALLATION SHALL COMPLY WITH NFPA 72, ALL LOCAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION. ALL COMPONENTS SHALL MATE/MATCH THE EXISTING SYSTEM. WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.

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Date:	Issued for:
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Project number: 24-069

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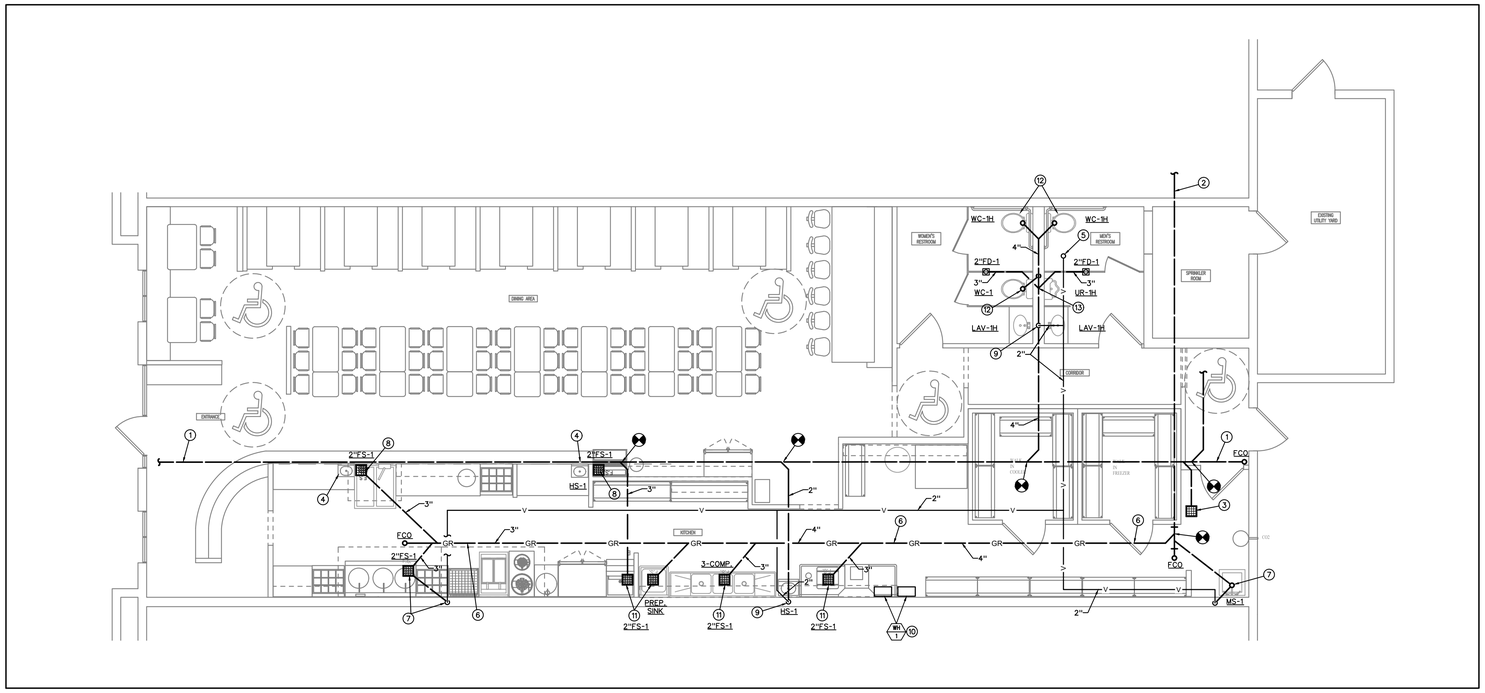


SANITARY WASTE AND VENT PLUMBING FLOOR PLAN

3/16" = 1'-0"

NORTH

PLUMBING PLAN NOTES (#):

1. EXISTING 4" SANITARY PIPING.
2. EXISTING 4" GREASE WASTE PIPING.
3. FLOOR SINK TO RECEIVE CONDENSATE FROM WALK-IN COOLER/FREEZER EVAPORATOR.
4. 2" W UP THRU FLOOR TO HS-1. INSTALL AIR ADMITTANCE VALVE IN LIEU OF PLUMBING VENT.
5. 2" V UP TO 3" VTR.
6. MINIMUM 2" SLOPE.
7. 2" W DOWN, 2" V OVER TO WALL AND ABOVE CEILING.
8. 2" W UP TO FS-1.
9. 2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
10. EXTEND CONDENSATE FROM WATER HEATERS TO FLOOR SINK BELOW DISHWASHER.
11. INDIRECT WASTE FROM 3-COMP. SINK, PREP. SINKS, DISHWASHER OR ICE MAKER ABOVE FLOOR SINK.
12. 4" S DOWN, 2"V OVER TO WALL AND UP IN WALL.
13. 2" W DOWN, 1/2" V UP IN WALL.

PLUMBING GENERAL NOTES

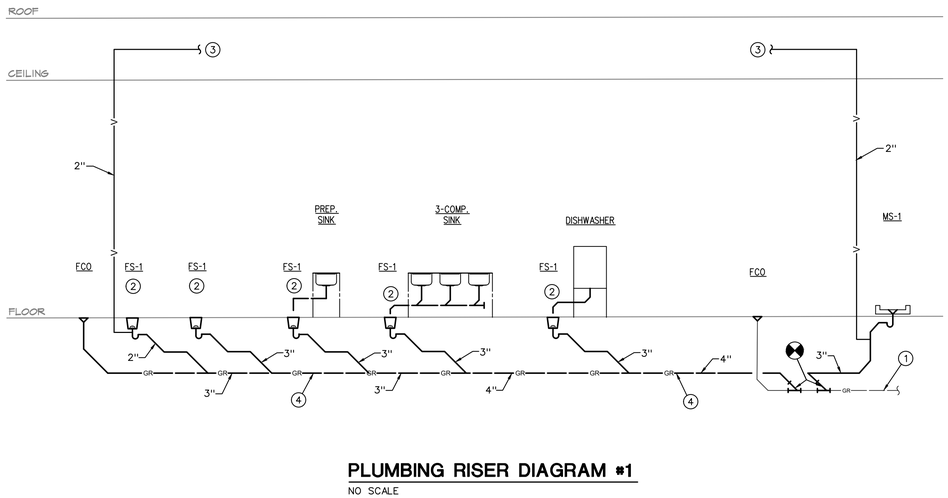
A) ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).

B) SEE "WASTE AND VENT RISER DIAGRAMS" AND "DOMESTIC WATER RISER DIAGRAMS", THIS SHEET, FOR PIPING NOT SHOWN ON THE PLANS.

C) PC SHALL ROUGH-IN AND MAKE FINAL CONNECTION FOR ALL SINKS, EQUIPMENT APPLIANCES AND ACCESSORIES PROVIDED BY THE THE OWNER/KEC. WHERE REQUIRED, PC TO PROVIDE BASKET STRAINER DRAIN, TAILPIECE, 3/8-INCH FLEXIBLE RISERS W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW.

D) FIELD VERIFY LOCATION AND SIZE OF EXISTING UTILITIES.

E) NG PIPING ON ROOF SHALL BE SUPPORTED BY MANUFACTURED PILLOW BLOCK PIPE SUPPORTS (MIRO INDUSTRIES MODEL #1.5 OR APPROVED EQUAL).

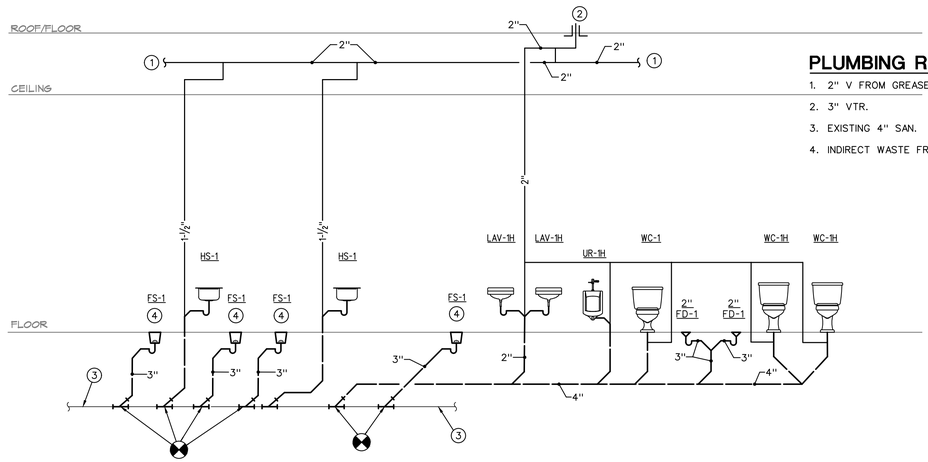


PLUMBING RISER DIAGRAM #1

NO SCALE

PLUMBING RISER #1 NOTES (#)

1. EXISTING 4" GREASE WASTE PIPING.
2. INDIRECT WASTE FOR EQUIPMENT OR SINK ABOVE FLOOR SINK.
3. SEE "PLUMBING RISER DIAGRAM #2", THIS SHEET FOR CONTINUATION.
4. NEW GREASE WASTE PIPING. SLOPE AT A MINIMUM OF 2%.



PLUMBING RISER DIAGRAM #2

NO SCALE

PLUMBING RISER #2 NOTES (#)

1. 2" V FROM GREASE WASTE SYTEM.
2. 3" VTR.
3. EXISTING 4" SAN.
4. INDIRECT WASTE FROM EQUIPMENT ABOVE FLOOR SINK.

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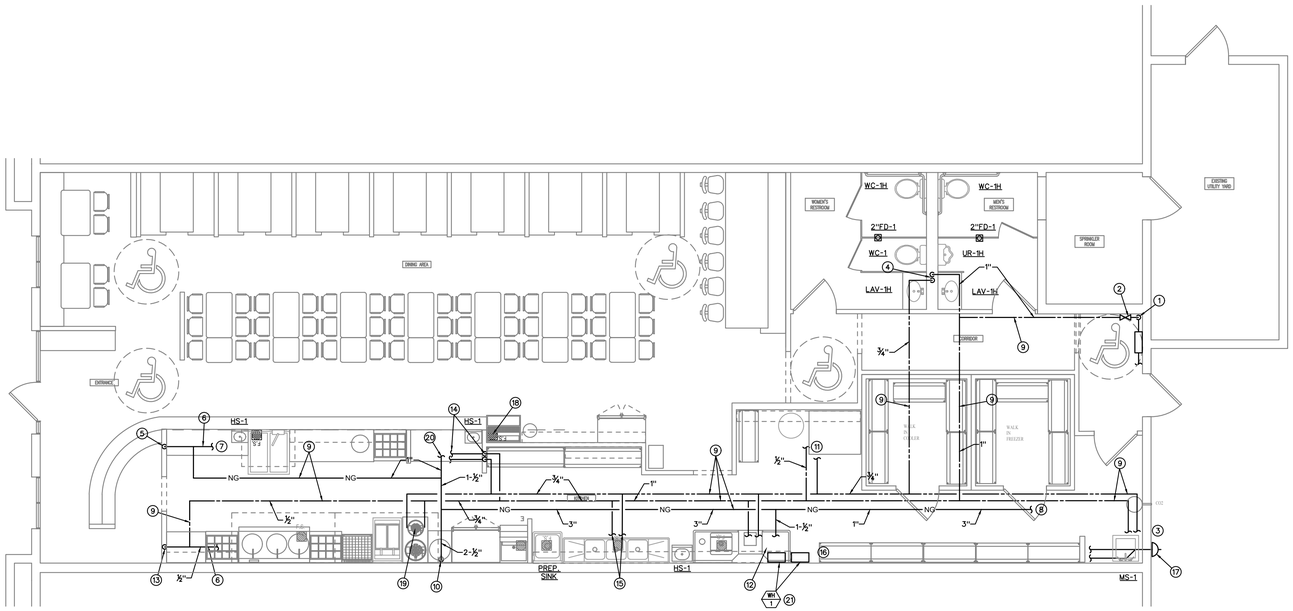

WATER & NATURAL GAS PLUMBING FLOOR PLAN

3/16" = 1'-0"

NORTH

PLUMBING PLAN NOTES ⓝ:

1. EXISTING 1" CW.
2. CONNECT NEW 1" CW TO EXISTING 1" CW.
3. EXTEND 1/2" CW AND HW TO MS-1.
4. 1" CW AND 3/4" HW DOWN IN WALL. EXTEND 1/2" CW TO EACH LAVATORY AND WATER CLOSET, 1/2" HW TO EACH LAVATORY, 3/4" CW TO URINAL.
5. 1" NG DOWN IN WALL TO BELOW COUNTER.
6. NG PIPING BELOW COUNTER OR BEHIND APPLIANCES.
7. EXTEND 1" NG TO PASTA COOKER. SEE "GAS RISER DIAGRAM #2", SHEET MP300, FOR CONTINUATION OF PIPING.
8. EXTEND 3" NG TO EXISTING NG METER.
9. PIPING ABOVE CEILING.
10. 2-1/2" NG DOWN TO KITCHEN APPLIANCES. SEE "GAS RISER DIAGRAM #1", SHEET MP300, FOR CONTINUATION PIPING.
11. EXTEND 1/2" CW AND HW TO FAUCET AT MIXER.
12. 1" CW TO WATER HEATERS AND 1" HW FROM WATER HEATERS. SEE "DOMESTIC WATER HEATER PIPING DIAGRAM", SHEET MP 300, FOR PIPING ARRANGEMENT.
13. 1/2" CW DOWN IN WALL. EXTEND 1/2" CW TO WOK.
14. 3/4" CW AND HW DOWN IN WALL TO BELOW COUNTER. EXTEND 1/2" CW TO PASTA COOKER, 1/2" CW AND HW TO HS-1 (2 PLACES).
15. 3/4" CW AND HW EXTEND 1/2" CW AND HW TO FAUCETS AT 3-COMPARTMENT SINK, PREP. SINK AND HAND SINK, 1/2" CW TO ICE MACHINE (ON OTHER SIDE OF WALL). INSTALL BACK FLOW PREVENTER ON WATER SUPPLY TO ICE MACHINE.
16. 1-1/2" NG TO WH-1A AND 1B. EXTEND 1-1/4" NG TO EACH.
17. CONCENTRIC VENT/COMBUSTION AIR INTAKE/VENT FOR WH-1A AND WH-1B (SEPARATE FOR EACH WATER HEATER). VENT SIZES PER WATER HEATER MANUFACTURER.
18. 1/2" CW TO BEVERAGE EQUIPMENT. INSTALL BACKFLOW PREVENTERS AS REQUIRED BY THE CODE. SEE "BACKFLOW PREVENTER SCHEDULE" ON SHEET MP302.
19. 1/2" CW AND HW TO SOUP STOCK FAUCET.
20. EXTEND 1" NG TO MAU-1.
21. EXTEND 3/4" HW TO DISHWASHER.

PLUMBING SYMBOLS

———	EXISTING TO REMAIN.
———	NEW PIPING WORK.
—— – ——	DOMESTIC COLD WATER (CW).
—— – – ——	DOMESTIC HOT WATER (HW).
—— – – – ——	HOT WATER RECIRCULATION (HWR).
——V——	PLUMBING VENT ABOVE FLOOR (V).
—SAN—	SANITARY WASTE ABOVE FLOOR (W).
— — —	SANITARY WASTE BELOW FLOOR (W).
——NG——	GAS (NATURAL) (NG).
———+O	ELBOW DOWN.
———+O	ELBOW UP.
——+O+——	TEE DOWN.
——+O+——	TEE UP.
———⊣	CAP.
——⫣⫣——	PIPE UNION.
——●⫣——	1/4 TURN SHUT-OFF VALVE.
——⫣◥——	CHECK VALVE.
VTR	VENT THRU ROOF (VTR).
ETR	EXISTING TO REMAIN.
○	PLAN NOTE DESIGNATION.
△	PLAN REVISION DESIGNATION.
◕	CONNECT TO EXISTING.
⬡	PLUMBING EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (HW, RTU, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

PLUMBING GENERAL NOTES

A) ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).

B) SEE "PLUMBING RISER DIAGRAMS", SHEET MP300, FOR PIPING NOT SHOWN ON THE PLANS.

C) REFER TO FOOD SERVICE DRAWINGS FOR SINKS, EQUIPMENT AND APPLIANCES PROVIDED BY THE KEC.

D) PC SHALL ROUGH-IN AND MAKE FINAL CONNECTION FOR ALL SINKS, EQUIPMENT APPLIANCES AND ACCESSORIES PROVIDED BY THE KEC. 3-COMPARTMENT SINK AND HAND SINK, AND ASSOCIATED FAUCETS, ARE PROVIDED BY THE KEC. WHERE REQUIRED, PC TO PROVIDE BASKET STRAINER DRAIN, TAILPIECE, 3/8-INCH FLEXIBLE RISERS W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW.

E) CONTRACTOR SHALL CONSULT WITH KANSAS GAS TO DETERMINE IF EXISTING GAS METER HAS SUFFICIENT CAPACITY TO SUPPLY 1,889 CFH.

STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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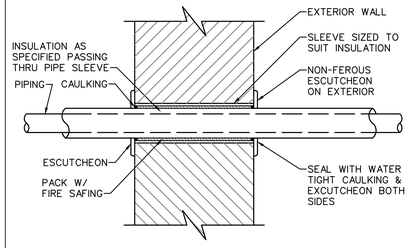
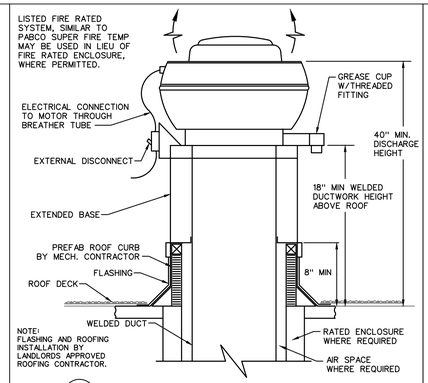


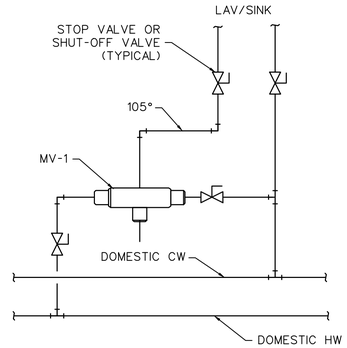
NOTE:
WHERE REQUIRED, ASSEMBLY TO CONFORM TO APPROPRIATE UL FIRE PENETRATION DETAIL.

1 P3.1 EXTERIOR WALL PIPE PENETRATION DETAIL
NO SCALE

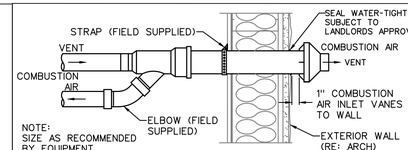


NOTE:
FLASHING AND ROOFING INSTALLATION BY LANDLORDS APPROVED ROOFING CONTRACTOR.

2 MP300 KITCHEN HOOD EXHAUST FAN DETAIL
NO SCALE

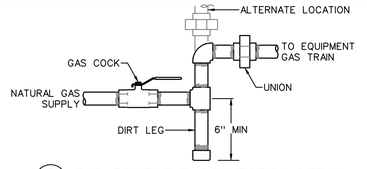


3 MP300 MIXING VALVE DETAIL
NO SCALE

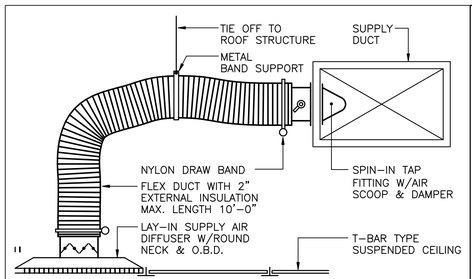


NOTE:
SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

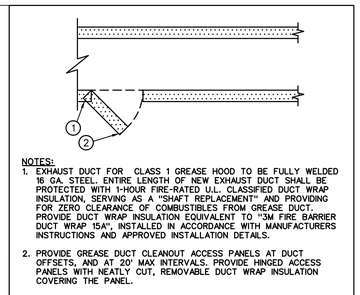
4 MP300 CONCENTRIC PVC FLUE TERMINAL DETAIL
NO SCALE



5 MP300 GAS EQUIPMENT CONNECTION DETAIL
NO SCALE

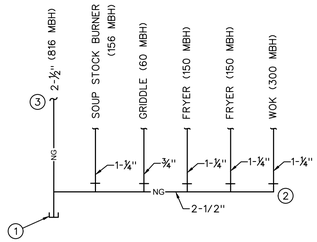


6 MP300 SUPPLY AIR DIFFUSER DETAIL
NO SCALE

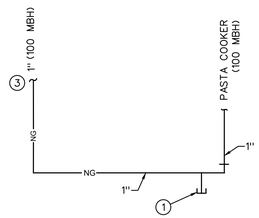


NOTES:
1. EXHAUST DUCT FOR CLASS 1 GREASE HOOD TO BE FULLY WELDED 16 GA. STEEL. ENTIRE LENGTH OF NEW EXHAUST DUCT SHALL BE PROTECTED WITH 1-HOUR FIRE-RATED U.L. CLASSIFIED DUCT WRAP INSULATION, SERVING AS A "SHAFT REPLACEMENT" AND PROVIDING FOR ZERO CLEARANCE OF COMBUSTIBLES FROM GREASE DUCT. PROVIDE DUCT WRAP INSULATION EQUIVALENT TO "3M FIRE BARRIER DUCT WRAP 15A", INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND APPROVED INSTALLATION DETAILS.
2. PROVIDE GREASE DUCT CLEANOUT ACCESS PANELS AT DUCT OFFSETS, AND AT 20' MAX INTERVALS. PROVIDE HINGED ACCESS PANELS WITH NEATLY CUT, REMOVABLE DUCT WRAP INSULATION COVERING THE PANEL.

7 MP300 GREASE EXHAUST DETAIL
1/2" = 1'-0"



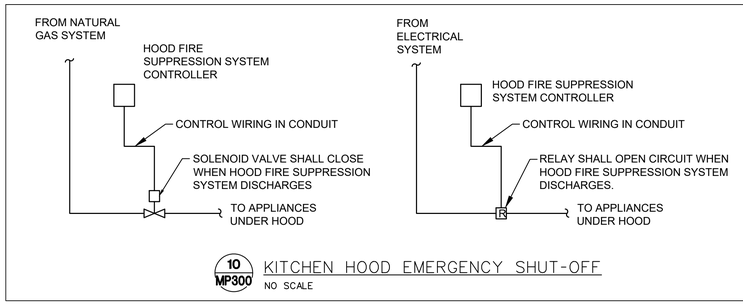
8 MP300 NATRUAL GAS RISER #1
NO SCALE



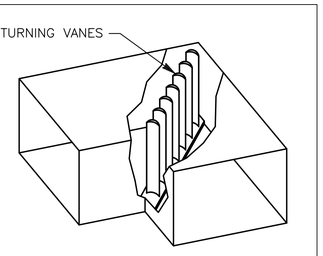
9 MP300 NATRUAL GAS RISER #2
NO SCALE

NATURAL GAS RISER NOTES

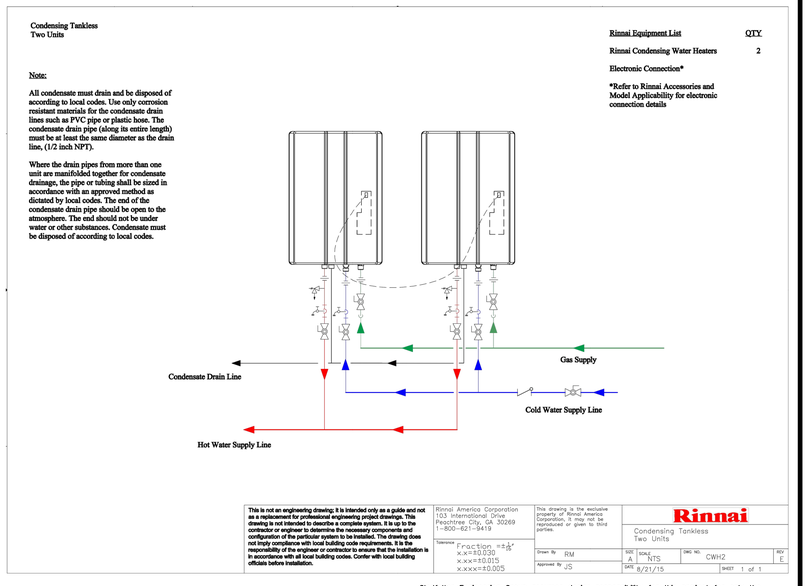
1. MINIMUM 6" DIRT LEG
2. MAKE FINAL CONNECTION TO KITCHEN EQUIPMENT WITH BALL VALVE AND HOSE PROVIDE BY THE KEC (TYPICAL).
3. 2" NG FROM SAFETY SHUTOFF VALVE.



10 MP300 KITCHEN HOOD EMERGENCY SHUT-OFF
NO SCALE



11 MP300 TYPICAL DUCT ELBOW DETAIL
NO SCALE



Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

COMMERCIAL-KITCHEN HOOD/EXHAUST/MAKE-UP AIR SYSTEM:

THE HOOD SHALL BE CONSTRUCTED OF A MINIMUM OF 18 GAUGE, (TYPE 304) STAINLESS STEEL WITH A #3 FINISH. HOOD SHALL BE CONSTRUCTED USING THE STANDING SEAM METHOD FOR OPTIMUM STRENGTH. THE SEAMS ON THE CANOPY SHALL BE WELDED LIQUID TIGHT, AND ALL EXPOSED EXTERNAL WELDS SHALL BE GROUND AND POLISHED TO MATCH THE ORIGINAL FINISH OF THE METAL. LIGHTER MATERIAL GAUGES, ALTERNATE MATERIAL TYPES AND FINISHES (400 SERIES STAINLESS STEEL, COLD ROLLED STEEL, ETC.) AND NON-LIQUID TIGHT WELDING (TACK WELD, SPOT WELD, ETC.) IS NOT ACCEPTABLE. CONSTRUCTION SHALL INCLUDE CORROSION-RESISTANT STEEL FRAMING MEMBERS FOR STRENGTH

HOOD SHALL INCLUDE UL LISTED AND NSF CERTIFIED GREASE EXTRACTOR TYPE, HIGH EFFICIENCY CARTRIDGE STYLE BAFFLE FILTERS OF ADEQUATE NUMBER AND SIZES TO ENSURE OPTIMUM PERFORMANCE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INFORMATION. THE FILTER HOUSING SHALL TERMINATE IN A PITCHED, FULL LENGTH GREASE TROUGH, WHICH SHALL DRAIN INTO A REMOVABLE GREASE CONTAINER. HOOD SHALL BE PROVIDED WITH ONE (1) FILTER REMOVAL TOOL.

VAPOR PROOF, UL LISTED, INCANDESCENT LIGHT FIXTURES SHALL BE PREWIRED TO A JUNCTION BOX SITUATED AT THE TOP OF THE HOOD FOR FIELD CONNECTION. WIRING SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC #70).

FIRE PROTECTION SYSTEMS: WET CHEMICAL WITH WALL-MOUNTED STAINLESS-STEEL CABINET. FIRE-PROTECTION SYSTEM TO PROVIDE DUCT, PLENUM, AND SURFACE PROTECTION FOR VENTILATOR AND EQUIPMENT LOCATED BELOW VENTILATOR. SYSTEM SHALL BE INTERWIRED WITH SHUNT TRIP BREAKER AND GAS SOLENOID VALVE OF EQUIPMENT LOCATED BELOW VENTILATOR FOR POWER AND FUEL SHUTOFF DURING SYSTEM ACTUATION.

THE MANUAL PULLS FOR THE ACTIVATION OF THE KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEMS SHALL BE LOCATED A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET FROM THE EXHAUST HOODS PER SECTION 904.11.1 OF THE 2012 INTERNATIONAL BUILDING CODE.

ENCLOSURE PANELS: 1.3 MM (0.05 INCH) THICK STAINLESS STEEL SHALL BE INSTALLED: LOCATE BETWEEN VENTILATOR TOP AND CEILING ON ALL EXPOSED SIDES.
BACK SHALL BE UNFINISHED.

OUTSIDE AIR MAKE-UP PLENUM SHALL BE INCORPORATED INTO THE FRONT FACE OF THE HOOD.

INSTALL VENTILATORS LEVEL AND PLUMB WITH ACCESS CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE AND CLEANING AND IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DOCUMENTATION. COORDINATE INSTALLATION OF VENTILATORS WITH OVERHEAD SUPPORTS.

FIELD TESTING:

FIELD TESTING, GENERAL: FOLLOWING INSTALLATION, TEST VENTILATORS FOR COMPLIANCE WITH SPECIFIED REQUIREMENTS AND THOSE OF AUTHORITIES HAVING JURISDICTION. PERFORM TESTING AFTER AIR-HANDLING SYSTEMS HAVE BEEN BALANCED AND ADJUSTED.

PERFORM TESTS WITH COOKING EQUIPMENT SERVED BY VENTILATOR TURNED OFF.

PERFORM TESTS WITH SUPPLY AND EXHAUST FANS SERVING THE FOOD SERVICE KITCHEN AREA TURNED ON.

TEST PROCEDURE: MOVE A SMOKE BOMB AROUND THE PERIMETER OF COOKING EQUIPMENT AT THE TOP SURFACE.

TEST-PERFORMANCE REQUIREMENTS: NO VISIBLE SMOKE SHALL ESCAPE FROM THE VENTILATOR CANOPY INTO THE ROOM.

INSTRUCT PERSONNEL AND TRANSMIT OPERATING INSTRUCTIONS IN ACCORDANCE WITH REQUIREMENTS.

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
05/17/2024

MAGIC NOODLE
1020 SW PRYOR, UNIT B
LEE'S SUMMIT, MO

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Date:	Issued for:
05/17/24	PERMIT

Project number: 24-069
Drawn: JEE/SWB/GPG
Date: 2024/04/13
Sheet Number:

MP300

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INSTANTANEOUS WATER HEATER SCHEDULE (NATURAL GAS)

MARK NO.	MANUFACTURER	MODEL NO.	TYPE	MIN. INPUT (MBH)	MAX INPUT (MBH)	GPM FLOW RATE (MIN.)	GPM FLOW RATE (MAX.)	TEMP RISE °F	GPM FLOW RATE (DESIGN)	GAS			REMARKS
										MBH INPUT	MBH OUTPUT	THERMAL EFFICIENCY	
1A/1B	RINNAI	CU199IN	TANKLESS	15	199	0.5	10	70	5.4	199	189	95%	1-3

NOTES:
1. SEE PIPING SCHEMATIC FOR OTHER ACCESSORIES NEEDED.
2. SAFETY FEATURES INCLUDE AIR-FUEL RATIO SENSOR, EXHAUST/WATER TEMPERATURE SAFETY CONTROL AND OVERHEAT CUT-OFF FUSE.
3. PROVIDE WITH REU-CSA-C1 CABLE TO INTERLOCK WATER HEATERS.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	CFM	ESP IN W.G.	TYPE	FAN SIZE	RPM	DRIVE	ACCESSORIES	ELECTRICAL				REMARKS
										VOLT	ø	HZ	HP/W	
1	LARKIN	XRUB-141	1800	1.25	ROOF	-	-	-	-	230	1	60	.75	NOTE 1, 2
2	LARKIN	XRUB-161	2400	1.25	ROOF	-	-	-	-	230	1	60	1.0	NOTE 1, 2
3	LARKIN	XRUB-101	800	.625	ROOF	-	-	-	-	120	1	60	.25	NOTE 1, 2
4	COOK	GC-144	100	0.25	CEILING	-	1600	D	-	120	1	60	98W	NOTE 3

NOTES:
1. MAKE-UP AIR UNIT, KITCHEN HOOD AND HOOD EF PROVIDED BY THE KEC AS A PACKAGED SYSTEM. SEE LARKIN DRAWINGS. MC SHALL INSTALL SYSTEMS PER MANUFACTURER'S INSTRUCTIONS.
2. INTERLOCK TO OPERATE WHENEVER KITCHEN APPLIANCES ARE IN OPERATION. SEE LARKIN DRAWINGS FOR CONTROL DIAGRAMS.
3. PROVIDE CEILING FANS WITH CEILING GRILLE, DISCONNECT SWITCH, HANGER HARDWARE, BACKDRAFT DAMPER, UNIT MOUNTED VARIABLE SPEED SWITCH, WALL OR ROOF CAP, FLEX CONNECTOR. CONTROL WITH LIGHTS.

OUTSIDE AIR SUMMARY (SINGLE ZONE SYSTEMS) (NOTE 2)

SYSTEM	SPACE	AREA (SQUARE FEET)	CALCULATED OCCUPANT TOTAL (Pz)	VENTILATION RATE (CFM/PERS) (Rp)	AREA OUTDOOR AIRFLOW IN BREATHING ZONE (Ra) CFM/SF	SPACE OUTDOOR AIRFLOW IN BREATHING ZONE Vbz=RpPz+RaAz CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) COOLING/HEATING (NOTE 1)	ZONE OUTDOOR AIRFLOW (Voz=Vbz/Ez) COOLING	ZONE OUTDOOR AIRFLOW (Voz=Vbz/Ez) HEATING	ZONE OUTDOOR AIR SETPOINT (CFM)	EXHAUST REQUIRED (CFM)	REMARKS
RTU-6	CORRIDOR	159	0	5	0.06	9.54	1.0/0.8	9.54	11.93	12		
(5-TON)	STORAGE	145	0	0	0.12	17.40	1.0/0.8	17.40	21.75	22		
	WOMEN RESTROOM	112									70	
	MEN RESTROOM	82									70	
	WORK ROOM (DISHWASHING)	165	1	5	0.06	14.90	1.0/0.8	14.90	18.63	19	83	6
	TOTAL RTU-6	663	1							53	223	
RTU-5	KITCHEN (COOKING)	368	-	-	-	-	-	-	-	-	258	6
(7.5-TON)	DINING ROOM	1,102	78	7.5	0.18	783.36	1.0/0.8	783.36	979.20	980		
	CORRIDOR	169	0	5	0.06	10.14	1.0/0.8	10.14	12.68	13		
	TOTAL RTU-5	1,710	91							993	258	

NOTES:
1. ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) DETERMINED FROM TABLE 403.3.1.2 AND IS BASED ON AIR DISTRIBUTION CONFIGURATION.
2. CALCULATION DONE IN ACCORDANCE WITH 2018 IMC, CHAPTER 4.
3. VENTILATION AIR PROVIDED BY DIRECT CONNECTION TO THE OUTDOORS IN ACCORDANCE WITH SECTION 401, 2018 IMC.
4. BATHROOM MINIMUM EXHAUST AIR PROVIDED AT MINIMUM 70 CFM PER FIXTURE IN ACCORDANCE WITH CHAPTER 4, 2018 IMC.
5. SPACE EXHAUST REQUIRED AT THE INDICATED RATE.
6. MINIMUM KITCHEN EXHAUST AIR PROVIDED AT 0.7 CFM/SQUARE FOOT IN ACCORDANCE WITH CHAPTER 4, 2018 IMC.

AIR BALANCE SCHEDULE

PLAN MARK	AREA SERVED	OUTSIDE AIR CFM	EXHAUST AIR CFM	NOTES
RTU-1	ALL	500		
RTU-2	ALL	200		
MAU-1	MAKE-UP AIR UNIT	4500		
EF-1	KITCHEN HOOD		-1800	
EF-2	KITCHEN HOOD		-2400	
EF-3	KITCHEN HOOD		-800	
EF-4	RESTROOMS		-200	
	SUBTOTAL	5200	-5200	

NOTES:
1. OUTSIDE AIR CFM INDICATED FOR OPERATION IN CONJUNCTION WITH TYPE 1 HOOD EXHAUST AND MAKE-UP AIR SYSTEM. CFM MAY REVERT TO MINIMUM OA AS CALCULATED IN "OA CALCULATION" WHEN THESE SYSTEMS ARE OFF.

DIFFUSER SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	FACE SIZE (INCHES)	NECK SIZE (INCHES)	MOUNTING	FINISH	REMARKS
A	TITUS	S300FL	-	NOTE 1	DUCT	NOTE 4	3
B	TITUS	TMS	24x24	NOTE 1	LAY-IN	NOTE 4	2
C	TITUS	PAR	24x24	NOTE 1	LAY-IN	NOTE 4	-
D	TITUS	TMS	12x12	NOTE 1	SURFACE	NOTE 4	2

NOTES:
1. SEE THE PLANS FOR NECK SIZE.
2. PROVIDE DAMPER AT DUCT TAKE-OFF EXCEPT PROVIDE GRILLE MOUNTED DAMPER ABOVE INACCESSIBLE CEILINGS.
3. PROVIDE WITH DAMPER OR EXTRACTOR
4. COLOR PER ARCHITECT.

WATER HAMMER ARRESTOR SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	PDI UNIT RATING	FIXTURE UNIT CAPACITY	REMARKS
AA	SIOUX CHIEF	660 SERIES	AA	4 (SINGLE FIXT)	X
A	SIOUX CHIEF	652	A	1 - 11	X
B	SIOUX CHIEF	653	B	12 - 32	X
C	SIOUX CHIEF	654	C	33 - 60	X
D	SIOUX CHIEF	655	D	61 - 113	X
X	X	X	X	X	X

NOTES:
1. INSTALL IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH THE PLUMBING CODE.

FIXTURE BRANCH SCHEDULE

FIXTURE	WASTE	VENT	COLD	HOT
Water Closet (ft)	4"	2"	½"	---
Water Closet (fv)	4"	2"	1"	---
Urinal	2"	1 ½"	¾"	---
Lavatory	1 ½"	1 ½"	½"	½"
Sink	2"	1 ½"	½"	½"
Triple Sink	2"	1 ½"	(2) ½"	(2) ½"
Shower, Tub	2"	1 ½"	½"	½"
Water Fountain	1 ½"	1 ½"	½"	---
Janitor Sink (flr)	3"	2"	¾"	¾"
Janitor Sink (wall)	2"	1 ½"	½"	½"
Floor Drain	2"	1 ½"	---	---
Floor Sink	3"	2"	---	---
Eqpt Floor Drain	3"	2"	---	---
Hub Drain	2"	1 ½"	---	---
Dishwasher	2"	1 ½"	---	½"
Washer Box	2"	1 ½"	½"	½"
Ice Maker	---	---	½"	---
FPWH, HB	---	---	¾"	---

1. Minimum waste or vent size below slab on grade shall be 2".
2. Size as shown on drawings and diagrams, but not less than listed.

CROSS CONNECTION DEVICE SCHEDULE

INSTALL BACKFLOW PREVENTION DEVICES ON KITCHEN EQUIPMENT PER JO. CO. DISTRIBUTION WATER QUALITY DEPT. REQUIREMENTS AS FOLLOWS:

FIXTURE		DEVICE
DISHWASHER	-	RPZ BFP
CARBONATORS	-	RPZ BFP
ICE MAKERS	-	DCVA
TEA MAKERS	-	DCVA
MOP SINK	-	ATMOS. VA. BRKR.

LARKIN MAKE-UP AIR UNIT SCHEDULE - (NG HEATING)

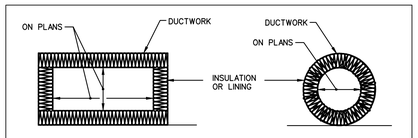
UNIT	LOCATION	"MFR" MODEL NO.	CFM	ESP (IN. W.G.)	SENS. COOLING CAP (MBH)	TOTAL COOLING CAP. (MBH)	EVAP.		GAS HEATING					ELECTRICAL DATA					OPER. WT. (LBS.)	REMARKS
							EDB (°F)	EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	GAS PRESSURE (PSI)	EAT	°F RISE	VOLT/PHASE	SUPPLY FAN HP	SUPPLY FAN FLA	MCA	MOCP		
1	ROOF	115-H20	4500	0.5	-	-	-	-	127.3	117.2	7"WC	0*	56	208/3	3.0	-	17	25	639	1

NOTES:
1. MAKE-UP AIR UNIT, KITCHEN HOOD AND HOOD EF PROVIDED BY THE KEC AS A PACKAGED SYSTEM. SEE LARKIN DRAWINGS. MC SHALL INSTALL SYSTEMS PER MANUFACTURER'S INSTRUCTIONS.
2. INTERLOCK TO OPERATE WHENEVER KITCHEN APPLIANCES ARE IN OPERATION. SEE LARKIN DRAWINGS FOR CONTROL DIAGRAMS.

ROOFTOP UNIT SCHEDULE (GAS-FIRED) - EXISTING TO REMAIN AND NEW

MARK NO.	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	DISCHARGE	SUPPLY							RELIEF/EXHAUST					COOLING										HEATING			ELECTRICAL					WEIGHT	REMARKS
						CFM	MIN. O.A.	EXT. S.P. IN. W.G.	FAN TYPE	FAN SIZE	RPM	EVAP. HP	TYPE	CFM	EXT. S.P. IN. W.G.	RPM	FAN HP	AMBIENT °F	EDB °F	EWB °F	LDB °F	LWB °F	TOTAL MBH	SENS. MBH	MAX FPM	STAGES	UNIT EER	INPUT MBH	OUTPUT MBH	STAGES	VOLT	ø	HZ	MCA	MOCP		
5	ROOF	-	-	HORIZONTAL	DOWN	3000	-	-	-	-	-	-	-	-	-	-	-	-	80	67	-	-	-	-	-	-	-	-	-	-	208	3	60	-	60	-	1,3,4
6	ROOF	-	-	HORIZONTAL	DOWN	2000	-	-	-	-	-	-	-	-	-	-	-	-	80	67	-	-	-	-	-	-	-	-	-	-	208	3	60	-	50	-	2,3,5

NOTES:
1. NOMINAL 5.0 TON CAPACITY.
2. NOMINAL 7.5 TON CAPACITY.
3. SET MINIMUM OA PER OUTSIDE AIR CALC AND/OR AIR BALANCE SCHEDULE.
4. VERIFY THAT A SMOKE DETECTOR IS INSTALLED IN THE RA DUCT AND INSTALL ONE IF MISSING. POWER WIRING & SMOKE DETECTOR INTERFACE BY ELECTRICAL CONTRACTOR. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. SMOKE DETECTOR NOT REQUIRED SINCE FAN CFM DOES NOT EXCEED 2000 CFM.



DUCT INSULATION SCHEDULE	INTERNAL INSULATION			EXTERNAL INSULATION			NOTES
	1/2"	1"	OTHER	1"	2"	OTHER	
LOW VELOCITY DUCTS:							
RETURN DUCTS		o					1
SUPPLY DUCTS (RECT.)		o					
SUPPLY DUCTS (ROUND)					o		3,4
EXHAUST DUCTS	o			o			2
OUTSIDE AIR DUCTS				o			
RELIEF DUCTS	o						1
MEDIUM/HIGH VELOCITY DUCTS:							
ROUND SUPPLY				o			
FLAT OVAL SUPPLY				o			

NOTES:
1. INSULATION SHALL BE INSTALLED WHEN INDICATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. OTHERWISE, NO INSULATION IS REQUIRED.
2. INSULATION IS REQUIRED WITHIN 6'-0" OF TERMINATION POINT OF EXHAUST AIR. RECTANGULAR DUCTS SHALL BE LINED, ROUND DUCTS SHALL BE WRAPPED.
3. CONCEALED ROUND SUPPLY AIR DUCTS AND ROUND SUPPLY AIR DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED AS INDICATED AND SHALL INCLUDE A VAPOR BARRIER TO PREVENT CONDENSATION FROM FORMING ON COLD METAL SURFACES. NO INSULATION IS REQUIRED FOR ROUND SUPPLY AIR DUCT EXPOSED IN CONDITIONED SPACES UNLESS INDICATED OTHERWISE.
4. AT CONTRACTORS OPTION, GALVANIZED STEEL ROUND DOUBLE WALL DUCT MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DOUBLE WALL DUCT SHALL BE LINX LINDLAB SPIRO-SAFE SPIRAL LOCKSEAM DUCTWORK. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. AT CONTRACTOR'S OPTION, ROUND DUCT LINER MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DUCT LINER SHALL BE JOHNS MANVILLE SPIRACOUSTIC PLUS, OR APPROVED EQUAL, 1.5" THICK (R6.4). SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 MP301 INSULATED OR LINED DUCT DETAIL
NO SCALE

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
05/17/2024

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Project number: 24-069
Drawn: JEE/SWB/GPG
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Sheet Number: MP301

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	CFM	ESP IN W.G.	TYPE	FAN SIZE	RPM	DRIVE	ACCESSORIES	ELECTRICAL				REMARKS
										VOLT	ø	HZ	HP/W	
1	LARKIN	XRUB-141	1800	1.25	ROOF	-	-	-	-	230	1	60	.75	NOTE 1, 2
2	LARKIN	XRUB-161	2400	1.25	ROOF	-	-	-	-	230	1	60	1.0	NOTE 1, 2
3	LARKIN	XRUB-101	800	.625	ROOF	-	-	-	-	120	1	60	.25	NOTE 1, 2
4	COOK	GC-144	100	0.25	CEILING	-	1600	D	-	120	1	60	98W	NOTE 3

NOTES:
1. MAKE-UP AIR UNIT, KITCHEN HOOD AND HOOD EF PROVIDED BY THE KEC AS A PACKAGED SYSTEM. SEE LARKIN DRAWINGS. MC SHALL INSTALL SYSTEMS PER MANUFACTURER'S INSTRUCTIONS.
2. INTERLOCK TO OPERATE WHENEVER KITCHEN APPLIANCES ARE IN OPERATION. SEE LARKIN DRAWINGS FOR CONTROL DIAGRAMS.
3. PROVIDE CEILING FANS WITH CEILING GRILLE, DISCONNECT SWITCH, HANGER HARDWARE, BACKDRAFT DAMPER, UNIT MOUNTED VARIABLE SPEED SWITCH, WALL OR ROOF CAP, FLEX CONNECTOR. CONTROL WITH LIGHTS.

AIR BALANCE SCHEDULE

PLAN MARK	AREA SERVED	OUTSIDE AIR CFM	EXHAUST AIR CFM	NOTES
RTU-1	ALL	500		
RTU-2	ALL	200		
MAU-1	MAKE-UP AIR UNIT	4500		
EF-1	KITCHEN HOOD		-1800	
EF-2	KITCHEN HOOD		-2400	
EF-3	KITCHEN HOOD		-800	
EF-4	RESTROOMS		-200	
	SUBTOTAL	5200	-5200	

NOTES:
1. OUTSIDE AIR CFM INDICATED FOR OPERATION IN CONJUNCTION WITH TYPE 1 HOOD EXHAUST AND MAKE-UP AIR SYSTEM. CFM MAY REVERT TO MINIMUM OA AS CALCULATED IN "OA CALCULATION" WHEN THESE SYSTEMS ARE OFF.

DIFFUSER SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	FACE SIZE (INCHES)	NECK SIZE (INCHES)	MOUNTING	FINISH	REMARKS
A	TITUS	S300FL	-	NOTE 1	DUCT	NOTE 4	3
B	TITUS	TMS	24x24	NOTE 1	LAY-IN	NOTE 4	2
C	TITUS	PAR	24x24	NOTE 1	LAY-IN	NOTE 4	-
D	TITUS	TMS	12x12	NOTE 1	SURFACE	NOTE 4	2
E	TITUS	272RL	-	NOTE 1	SURFACE	NOTE 4	2

NOTES:
1. SEE THE PLANS FOR NECK SIZE.
2. PROVIDE DAMPER AT DUCT TAKE-OFF EXCEPT PROVIDE GRILLE MOUNTED DAMPER ABOVE INACCESSIBLE CEILINGS.
3. PROVIDE WITH DAMPER OR EXTRACTOR
4. COLOR PER ARCHITECT.

LARKIN MAKE-UP AIR UNIT SCHEDULE - (NG HEATING)

UNIT	LOCATION	"MFR" MODEL NO.	CFM	ESP (IN. W.G.)	SENS. COOLING CAP (MBH)	TOTAL COOLING CAP. (MBH)	EVAP.		GAS HEATING					ELECTRICAL DATA					OPER. WT. (LBS.)	REMARKS
							EDB (°F)	EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	GAS PRESSURE (PSI)	EAT	°F RISE	VOLT/PHASE	SUPPLY FAN HP	SUPPLY FAN FLA	SUPPLY FAN MCA	SUPPLY FAN MOCP		
1	ROOF	115-H20	4500	0.5	-	-	-	-	127.3	117.2	7"WC	0°	56	208/3	3.0	-	17	25	639	1

NOTES:
1. MAKE-UP AIR UNIT, KITCHEN HOOD AND HOOD EF PROVIDED BY THE KEC AS A PACKAGED SYSTEM. SEE LARKIN DRAWINGS. MC SHALL INSTALL SYSTEMS PER MANUFACTURER'S INSTRUCTIONS.
2. INTERLOCK TO OPERATE WHENEVER KITCHEN APPLIANCES ARE IN OPERATION. SEE LARKIN DRAWINGS FOR CONTROL DIAGRAMS.

ROOFTOP UNIT SCHEDULE (GAS-FIRED) - EXISTING TO REMAIN AND NEW

MARK NO.	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	DISCHARGE	SUPPLY							RELIEF/EXHAUST					COOLING									HEATING			ELECTRICAL					WEIGHT	REMARKS
						CFM	MIN. O.A.	EXT. S.P. IN. W.G.	FAN TYPE	FAN SIZE	RPM	EVAP. HP	TYPE	CFM	EXT. S.P. IN. W.G.	RPM	FAN HP	AMBIENT °F	EDB °F	EWB °F	LDB °F	LWB °F	TOTAL MBH	SENS. MBH	MAX FPM	STAGES	UNIT EER	INPUT MBH	OUTPUT MBH	STAGES	VOLT	ø	HZ	MCA	MOCP		
1	ROOF	ETR	-	-	-	4400	500	-	-	-	-	-	-	-	-	-	-	95	80	67	-	-	136	-	-	-	-	240	-	-	208	3	60	71	80	-	1-3
2	ROOF	LENNOX	LGH060H4E	HORIZONTAL	DOWN	1800	200	1.0	-	-	919	1.0	-	-	-	-	-	100	80	67	-	-	58	-	-	2	12.7	108	86	2	208	3	60	29	40	852	2,4,5

NOTES:
1. NOMINAL 12.5 TON CAPACITY.
2. SET MINIMUM OA PER OUTSIDE AIR CALC AND/OR AIR BALANCE SCHEDULE.
3. VERIFY THAT A SMOKE DETECTOR IS INSTALLED IN THE RA DUCT AND INSTALL ONE IF MISSING. POWER WIRING & SMOKE DETECTOR INTERFACE BY ELECTRICAL CONTRACTOR. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. SMOKE DETECTOR NOT REQUIRED SINCE FAN CFM DOES NOT EXCEED 2000 CFM.
5. PROVIDE WITH ENTHALPY ECONOMIZER W/BAROMETRIC RELIEF, HUMIDITY CONTROL, TWO (2) SPEED FAN, PROGRAMMABLE NIGHT SET BACK THERMOSTAT/SENSOR, 5 YR. COMPRESSOR WARRANTY, 10 YR. HEAT EXCHANGER WARRANTY, COIL HAIL GUARDS, HINGED ACCESS DOORS, 2" THROWAWAY FILTERS, ADAPTER CURB TO MATCH EXISTING CURBBED OPENING IF REQUIRED.

WATER HAMMER ARRESTOR SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	PDI UNIT RATING	FIXTURE UNIT CAPACITY	REMARKS
AA	SIOUX CHIEF	660 SERIES	AA	4 (SINGLE FIXT)	X
A	SIOUX CHIEF	652	A	1 - 11	X
B	SIOUX CHIEF	653	B	12 - 32	X
C	SIOUX CHIEF	654	C	33 - 60	X
D	SIOUX CHIEF	655	D	61 - 113	X
X	X	X	X	X	X

NOTES:
1. INSTALL IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH THE PLUMBING CODE.

FIXTURE BRANCH SCHEDULE

FIXTURE	WASTE	VENT	COLD	HOT
Water Closet (ft)	4"	2"	½"	---
Water Closet (fv)	4"	2"	1"	---
Urinal	2"	1 ½"	3/4"	---
Lavatory	1 ½"	1 ½"	½"	½"
Sink	2"	1 ½"	½"	½"
Triple Sink	2"	1 ½"	(2) ½"	(2) ½"
Shower, Tub	2"	1 ½"	½"	½"
Water Fountain	1 ½"	1 ½"	½"	---
Janitor Sink (flr)	3"	2"	3/4"	3/4"
Janitor Sink (wall)	2"	1 ½"	½"	½"
Floor Drain	2"	1 ½"	---	---
Floor Sink	3"	2"	---	---
Eqpt Floor Drain	3"	2"	---	---
Hub Drain	2"	1 ½"	---	---
Dishwasher	2"	1 ½"	---	½"
Washer Box	2"	1 ½"	½"	½"
Ice Maker	---	---	½"	---
FPWH, HB	---	---	3/4"	---

1. Minimum waste or vent size below slab on grade shall be 2".
2. Size as shown on drawings and diagrams, but not less than listed.

INSTANTANEOUS WATER HEATER SCHEDULE (NATURAL GAS)

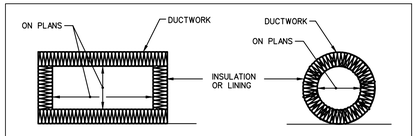
MARK NO.	MANUFACTURER	MODEL NO.	TYPE	MIN. INPUT (MBH)	MAX INPUT (MBH)	GPM FLOW RATE (MIN.)	GPM FLOW RATE (MAX.)	TEMP RISE °F	GPM FLOW RATE (DESIGN)	GAS			REMARKS
										MBH INPUT	MBH OUTPUT	THERMAL EFFICIENCY	
1A/1B	RINNAI	CU199IN	TANKLESS	15	199	0.5	10	70	5.4	199	189	95%	1-3

NOTES:
1. SEE PIPING SCHEMATIC FOR OTHER ACCESSORIES NEEDED.
2. SAFETY FEATURES INCLUDE AIR-FUEL RATIO SENSOR, EXHAUST/WATER TEMPERATURE SAFETY CONTROL AND OVERHEAT CUT-OFF FUSE.
3. PROVIDE WITH REU-CSA-C1 CABLE TO INTERLOCK WATER HEATERS.

CROSS CONNECTION DEVICE SCHEDULE

INSTALL BACKFLOW PREVENTION DEVICES ON KITCHEN EQUIPMENT PER JO. CO. DISTRIBUTION WATER QUALITY DEPT. REQUIREMENTS AS FOLLOWS:

FIXTURE		DEVICE
DISHWASHER	-	RPZ BFP
CARBONATORS	-	RPZ BFP
ICE MAKERS	-	DCVA
TEA MAKERS	-	DCVA
MOP SINK	-	ATMOS. VA. BRKR.



DUCT INSULATION SCHEDULE

	INTERNAL INSULATION			EXTERNAL INSULATION			NOTES
	1/2"	1"	OTHER	1"	2"	OTHER	
LOW VELOCITY DUCTS:							
RETURN DUCTS		o					1
SUPPLY DUCTS (RECT.)		o					
SUPPLY DUCTS (ROUND)					o		3,4
EXHAUST DUCTS	o			o			2
OUTSIDE AIR DUCTS				o			
RELIEF DUCTS	o						1
MEDIUM/HIGH VELOCITY DUCTS:							
ROUND SUPPLY				o			
FLAT OVAL SUPPLY				o			

NOTES:
1. INSULATION SHALL BE INSTALLED WHEN INDICATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. OTHERWISE, NO INSULATION IS REQUIRED.
2. INSULATION IS REQUIRED WITHIN 6'-0" OF TERMINATION POINT OF EXHAUST AIR. RECTANGULAR DUCTS SHALL BE LINED, ROUND DUCTS SHALL BE WRAPPED.
3. CONCEALED ROUND SUPPLY AIR DUCTS AND ROUND SUPPLY AIR DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED AS INDICATED AND SHALL INCLUDE A VAPOR BARRIER TO PREVENT CONDENSATION FROM FORMING ON COLD METAL SURFACES. NO INSULATION IS REQUIRED FOR ROUND SUPPLY AIR DUCT EXPOSED IN CONDITIONED SPACES UNLESS INDICATED OTHERWISE.
4. AT CONTRACTORS OPTION, GALVANIZED STEEL ROUND DOUBLE WALL DUCT MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DOUBLE WALL DUCT SHALL BE LINX LINDLAB SPIRO-SAFE SPIRAL LOCKSEAM DUCTWORK. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. AT CONTRACTOR'S OPTION, ROUND DUCT LINER MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DUCT LINER SHALL BE JOHNS MANVILLE SPIRACOUSTIC PLUS, OR APPROVED EQUAL, 1.5" THICK (R6.4). SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 MP302 INSULATED OR LINED DUCT DETAIL
NO SCALE

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
05/17/2024

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Project number: 24-069
Drawn: JEE/SWB/GPG
Date: 2024/04/13
Sheet Number: MP302

ELECTRICAL SPECIFICATION

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF N.E.C., NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.

B. PLANS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE CODE WHERE CODE REQUIREMENTS ARE EXCEEDED.

C. DRAWINGS ARE DIAGRAMATIC AND ARE INTENDED TO INDICATE THE GENERAL DESIGN CONCEPT. THEY DO NOT NECESSARILY INDICATE EACH AND EVERY FITTING OR FEATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT.

D. FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.

E. MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.

F. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE MECHANICAL DRAWINGS. CONFORM TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS FOR EXACT PLACEMENT AND LOCATION OF EQUIPMENT AND FOR REQUIRED STRUCTURAL SUPPORT, BRACING AND REINFORCEMENT.

G. E.C. SHALL VERIFY ALL CONDITIONS PRIOR TO ANY ROUGH-IN.

H. E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.

I. VERIFY ALL EQUIPMENT TO BE INSTALLED (WHETHER FURNISHED BY THIS CONTRACTOR OR BY OTHERS). CONFIRM WITH VENDOR CONNECTION SIZES, TYPES AND LOCATION AND PROVIDE MATCHING CONDUIT CONNECTIONS, SIZES AND TYPES AFTER EQUIPMENT PROCUREMENT. PROVIDE ALL FITTINGS AND ACCESSORIES FOR A COMPLETE CODE COMPLIANT WORKING INSTALLATION.

J. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND PER LISTINGS.

K. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO PROVIDE MANUFACTURER'S RECOMMENDED OPERATING AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

L. EC SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.

M. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

N. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT HANDLING AND TRANSPORT FOR ITEMS HE FURNISHES AND/OR INSTALLS. HE SHALL BE RESPONSIBLE FOR PROVIDING FOR ACCESS INTO SPACES WHERE WORK IS TO OCCUR.

O. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. HE SHALL RESTORE REPAIRED OR REMODELED AREAS TO EXISTING CONDITIONS AND NEW CONSTRUCTION AREAS TO NEW CONDITION. ALL REPAIRS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL AND STRUCTURAL PROVISIONS. TO THE GREATEST EXTENT POSIBLE, EXISTING BUILDING MATERIALS SHALL NOT BE DISTURBED.

P. THE COMPONENTS OF THE ELECTRICAL SYSTEM SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE THEREOF EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP.

Q. ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".

R. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.

S. ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS WHERE POSSIBLE.

T. CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.

U. ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED.

V. MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE BUT NOT IN EXPOSED LOCATIONS. CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER. MC CABLE SHALL NOT BE USED FOR HOMERUNS.

W. ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.

X. INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.

Y. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AIC RATING.

Z. DUCT SMOKE DETECTOR SHALL BE 120 VOLT, PHOTO-ELECTRIC, REMOTE ALARM LAMP, WITH SAMPLING TUBES - INSTALLED IN RETURN AIR DUCT. PROVIDE WITH MIN-ALERT SOUNDER, STROBE AND REMOTE TEST/RESET STATION. WIRE DETECTORS SO THAT UPON SENSING SMOKE UNIT AUTOMATICALLY SHUTS DOWN AND SOUNDER/STROBE IS ACTIVATED. PROVIDE ALL RELAYS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. EQUIPMENT SHALL BE BY EDWARDS, SIMPLEX, PYROTRONICS, OR NOTIFER.

AA. TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.

BB. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.

CC. PROVIDE LIGHT FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.

DD. ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.

EE. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.

FF. VOICE/DATA AND THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.

GG. VOICE/DATA SYSTEMS, ASSOCIATED WIRING, AND DEVICES TO BE PROVIDED BY OWNER.

HH. AT COMPLETION OF THE INSTALLATION, TEST ELECTRICAL SYSTEMS PER INDUSTRY STANDARDS.

MECHANICAL/PLUMBING SPECIFICATION

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL AND PLUMBING CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.

B. PLANS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE CODE WHERE CODE REQUIREMENTS ARE EXCEEDED.

C. DRAWINGS ARE DIAGRAMATIC AND ARE INTENDED TO INDICATE THE GENERAL DESIGN CONCEPT. THEY DO NOT NECESSARILY INDICATE EACH AND EVERY FITTING OR FEATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT.

D. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE MECHANICAL DRAWINGS. CONFORM TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS FOR EXACT PLACEMENT AND LOCATION OF EQUIPMENT AND FOR REQUIRED STRUCTURAL SUPPORT, BRACING AND REINFORCEMENT.

E. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS CONCERNING STRUCTURAL SUPPORTS AND MOUNTINGS FOR MECHANICAL EQUIPMENT AND SUPPLEMENTAL STEEL.

F. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED TO PROVIDE MANUFACTURER'S RECOMMENDED OPERATING AND SERVICE CLEARANCES FOR ALL EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS AND DIFFERING CLEARANCE REQUIREMENTS OF ACTUAL EQUIPMENT FURNISHED.

G. VERIFY ALL EQUIPMENT TO BE INSTALLED (WHETHER FURNISHED BY THIS CONTRACTOR OR BY OTHERS). CONFIRM WITH VENDOR CONNECTION SIZES, TYPES AND LOCATION AND PROVIDE MATCHING PIPING CONNECTIONS, SIZES AND TYPES AFTER EQUIPMENT PROCUREMENT. PROVIDE ALL FITTINGS AND ACCESSORIES FOR A COMPLETE CODE COMPLIANT WORKING INSTALLATION.

H. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

I. CAULK AND SEAL ALL PIPING PENETRATIONS OF EXTERIOR WALLS.

J. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS. PROTECT ALL EXPOSED PVC PIPING WITH UV PROTECTIVE COATING.

K. ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' HARD COPPER WITH LEAD FREE SOLDER JOINTS OR CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING.

L. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. LEAD FREE BRASS BALL VALVES WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70 (SOLDER) OR PXCP400-LF (PEX) CONNECTION.

M. COLD CONDENSATE PIPING AND TRAPS SHALL BE PVC. TRAP CONDENSATE FULL SIZE OF UNIT DISCHARGE AND TERMINATE AS SHOWN.

N. WHERE CHILLED CONDENSATE FROM INDOOR UNITS CANNOT BE POSITIVELY DRAINED, PROVIDE CONDENSATE PUMP ACCESSORY WITH THE EQUIPMENT.

O. NATURAL GAS PIPING (ABOVE GROUND) SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. CONNECT USING JOINT COMPOUND SUITABLE FOR NATURAL GAS PIPING. ALL EXPOSED BLACK STEEL NATURAL GAS PIPING SHALL BE PROTECTED WITH A RUST INHIBITING COATING IN ACCORDANCE WITH THE PLUMBING CODE.

P. GAS SERVICE VALVES TO BE LUBRICATED PLUG COCKS, ROCKWELL 142 OR 143. CONNECTIONS TO EQUIPMENT SHALL HAVE SERVICE VALVES, 6" MINIMUM DIRT LEG AND UNION OR AT CONTRACTOR OPTION, UL LISTED APPLIANCE FLEXIBLE CONNECTORS MAY BE USED.

Q. COPPER DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. INSULATION IS NOT REQUIRED FOR PEX PIPING.

R. PLUMBING FIXTURES AND EQUIPMENT PROVIDED BY OTHERS. PROVIDE ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. PROVIDE STOP VALVES AND WATER HAMMER ARRESTORS, SIZED AS INDICATED OR PER MANUFACTURER FOR EACH FIXTURE OR EACH GROUP OF FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.

S. MEET ALL REQUIREMENTS OF THE ADA FOR ALL FIXTURES REQUIRED TO BE HANDICAP ACCESSIBLE. INSULATE PIPING BENEATH HANDICAP FIXTURES PER ADA, HANDI-LAV-GARD SYSTEM OR EQUIVALENT.

T. ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND PER LISTINGS.

U. IN GENERAL AND EXCEPT AS OTHERWISE NOTED, PIPING SHALL BE INSTALLED PARALLEL TO COLUMN AND BUILDING WALL LINES. THEY SHALL BE CONCEALED ABOVE CEILINGS, IN CHASES OR WALL CONSTRUCTION WHERE POSSIBLE.

V. SUPPORT ALL PIPING SYSTEMS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS TO PREVENT SAGS AND DIPS.

W. ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS. COORDINATE SYSTEM DRAINAGE FOR WINTERIZATION WITH OWNER'S UTILITIES CONTRACTOR.

X. PROVIDE ACCESS PANELS TO PROVIDE ACCESS TO INACCESSIBLE VALVES THAT REQUIRE ADJUSTMENT OR REPLACEMENT.

Y. DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. CONNECTION TO UTILITIES PROVIDED SHALL BE COORDINATED WITH OWNER'S UTILITY CONTRACTOR..

Z. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.

AA. SUPPORT ALL SUSPENDED PIPING INDEPENDANTLY, DIRECTLY FROM STRUCTURAL MEMBERS, NOT METAL DECK.

BB. DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.

CC. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.

DD. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.

EE. ALL DUCTWORK EXPOSED ON THE ROOF SHALL BE INSULATED AND ENCLOSED IN A WATERPROOF COVERING MATERIAL. GREASE DUCT INSULATION SHALL BE SUITABLE FOR HIGH TEMPERATURE USE.

FF. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.

GG. DUCT SMOKE DETECTOR AT RTU-1 IS EXISTING TO REMAIN. SEE ELECTRICAL FOR INTEGRATION OF ALL SMOKE DETECTION AND SHUTDOWN OF EQUIPMENT WITH FIRE ALARM SYSTEM IF PROVIDED. ALL EQUIPMENT IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH SMOKE DETECTORS IN THE RETURN AIR STREAM. IF A FIRE ALARM SYSTEM IS NOT PROVIDED, PROVIDE AND INSTALL A STROBE/HORN TO NOTIFY OCCUPANTS OF THE SENSING OF SMOKE AT A SMOKE DETECTOR.

HH. ALL POWER WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DISCONNECT SWITCHES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, EXCEPT WHERE SPECIFICALLY INDICATED TO BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE REQUIRED POWER FOR EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

II. ALL CONTROL DEVICES AND INTERLOCK WIRING SHALL THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. CONTRACTOR SHALL FURNISH LOCKING GUARDS FOR DEVICES WHERE INDICATED AND WHERE REQUIRED TO PROTECT THEM FROM PHYSICAL DAMAGE. PROVIDE INSULATED SUBBASES WHERE SENSORS ARE INSTALLED ON 'COLD' OR EXTERIOR WALLS. MOUNT CONTROL DEVICES SUCH AS THERMOSTATS AND SENSORS AT 46" AFF.

JJ. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT HANDLING AND TRANSPORT FOR ITEMS HE FURNISHES AND/OR INSTALLS. HE SHALL BE RESPONSIBLE FOR PROVIDING FOR ACCESS INTO SPACES WHERE WORK IS TO OCCUR.

KK. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. HE SHALL RESTORE REPAIRED OR REMODELED AREAS TO EXISTING CONDITIONS AND NEW CONSTRUCTION AREAS TO NEW CONDITION. ALL REPAIRS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL AND STRUCTURAL PROVISIONS. TO THE GREATEST EXTENT POSIBLE, EXISTING BUILDING MATERIALS SHALL NOT BE DISTURBED.

LL. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.

MM. TEST AND BALANCE ALL SYSTEMS PER NEBB STANDARDS. SUBMIT BALANCE REPORTS TO ARCHITECT FOR APPROVAL.

PLUMBING FIXTURE SCHEDULE

A. INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALLS/FLOORS. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED.

B. WATER CLOSET (WC-1H), TOTO #CSC744SL.01, FLOOR-MOUNTED, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS, 17" HIGH, 1.6-GALLON FLUSH, CLOSE-COUPLED TANK DESIGN WITH ELONGATED BOWL AND SIPHON JET ACTION. TANK SHALL BE VITREOUS CHINA WITH COVER, 3/8" FLEXIBLE RISER WITH LOOSE KEY ANGLE STOP VALVE, CHROME-PLATED BRASS TRIP LEVER AND MANUFACTURER'S BOLT CAPS. PROVIDE BENKE #527 WHITE ELONGATED OPEN FRONT SEAT LESS COVER, PERMA BUMPER.

C. LAVATORY (LAV-1H), TOTO #LT307.4 (20"X18"), WALL-HUNG TYPE, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS. LAVATORY SHALL HAVE 4-INCH FAUCET CENTERS AND DRILLED FOR CONCEALED ARM CARRIER. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PROVIDE DELTA #523-WFOGHDF HEAVY DUTY SINGLE LEVER FAUCET, 4-INCH CENTERS, VANDAL-RESISTANT 2.2 GPM AERATOR, PERFORATED OFFSET GRID DRAIN (W/ 1-1/4" TAILPIECE) AND VANDAL-RESISTANT SINGLE LEVER HANDLE. PROVIDE WITH J.R. SMITH CARRIER (TO MATCH WALL TYPE). MOUNT AT ADA HEIGHT AND MAINTAIN CLEARANCES UNDER LAVATORY AS REQUIRED BY ADA REGULATIONS. INSULATE WASTE AND HOT WATER SUPPLY UNDER LAVATORY WITH UNDERSINK PROTECTIVE PIPE COVER, MOLDED, ANTIMICROBIAL, WITH FLUSH REUSABLE FASTENERS, TRUEBRO LAV GUARD.

D. MOP SINK (MS-1), STERN WILLIAMS #SB-900, CONSTRUCTED OF TERRAZZO, 32" SQUARE BY 12" HIGH (COORDINATE SIZE WITH ARCHITECTURAL PLANS), CHROME-PLATED CAST BRASS RIM (CAST INTEGRAL) WITH STAINLESS STEEL CAP. PROVIDE WITH DELTA #28T2383 FAUCET WITH VACUUM BREAKER, LEVER HANDLES, 3/4" HOSE THREAD SPOUT WITH 48" LONG HOSE, WALL SUPPORT, INTEGRAL STOPS AND ROUGH CHROME-PLATED FINISH..

E. FLOOR DRAINS (FD-1), WADE #1100-G5-1-27. RATED FOR GENERAL LIGHT DUTY USE WITH CAST IRON BODY WITH FLANGE, SEEPAGE OPENINGS,INTEGRAL REVERSING CLAMPING COLLAR, TRAP PRIMER CONNECTION, 5" SQUARE NICKEL BRONZE ADJUSTIBLE STRAINER, SEDIMENT BUCKET AND HEEL PROOF GRATE, PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).

F. EQUIPMENT DRAINS (ED-1) WADE #1100-94 ADJUSTABLE CAST IRON FLOOR DRAIN WITH FLANGE, SEEPAGE OPENINGS, INTEGRAL CLAMPING COLLAR, EXTENSION ADAPTER INSTALLED ABOVE THE FLOOR ELEVATION APPROXIMATELY 3/4" TO PREVENT WATER ON THE FLOOR FROM ENTERING DRAIN AND 1/2" PLUGGED TRAP PRIMER CONNECTION. PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).

G. SANITARY FLOOR SINKS: FS-1 WADE #9130-1-24-27-6 SQUARE PATTERN FLOOR SINK WITH CAST IRON BODY (12" X 12" X 6" DEEP), ACID RESISTING ENAMELED INTERIOR, SEDIMENT BUCKET, TRAP PRIMER CONNECTION AND 12" SQUARE NICKEL BRONZE FRAME AND GRATE. PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).

H. FINISHED FLOOR CLEANOUTS: (FFCO) WADE #6000-1-2-S CAST IRON FLOOR CLEANOUT WITH FLANGE, PLASTIC TAPERED PLUG AND SQUARE NICKEL BRONZE ADJUSTABLE TOP. PROVIDE WITH CARPET CLEANOUT MARKER WHEN CLEANOUT IS LOCATED BELOW CARPET. COORDINATE WITH ARCHITECTURAL PLANS.

I. FINISHED WALL CLEANOUTS: (FWCO) WADE #8560, W/ 8304-85-6 CAST IRON CLEANOUT TEE WITH BRASS PLUG AND 6" ROUND STAINLESS STEEL ACCESS COVER. J.R. SMITH FIGURE 4530. PROVIDE DUCO CAST IRON WALL CLEANOUT TEE WITH COUNTERSUNK PLUG. DELETE COVER PLATE IF CLEANOUT IS IN EXPOSED LOCATION.

J. ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).

K. 3-COMPARTMENT SINK, HAND SINKS AND KITCHEN SINKS AND ASSOCIATED FAUCETS ARE PROVIDED BY THE KEC. PC TO PROVIDE BASKET STRAINER DRAIN, TAILPIECE, 3/8-INCH FLEXIBLE RISERS W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PC TO PROVIDE OWNER FAUCETS (DELTA OR EQUAL) TO GO ALONG WITH FIXTURES PROVIDED BY THE KEC UNLESS OTHERWISE NOTED. SEE KITCHEN EQUIPMENT PLANS.

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
05/17/2024

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