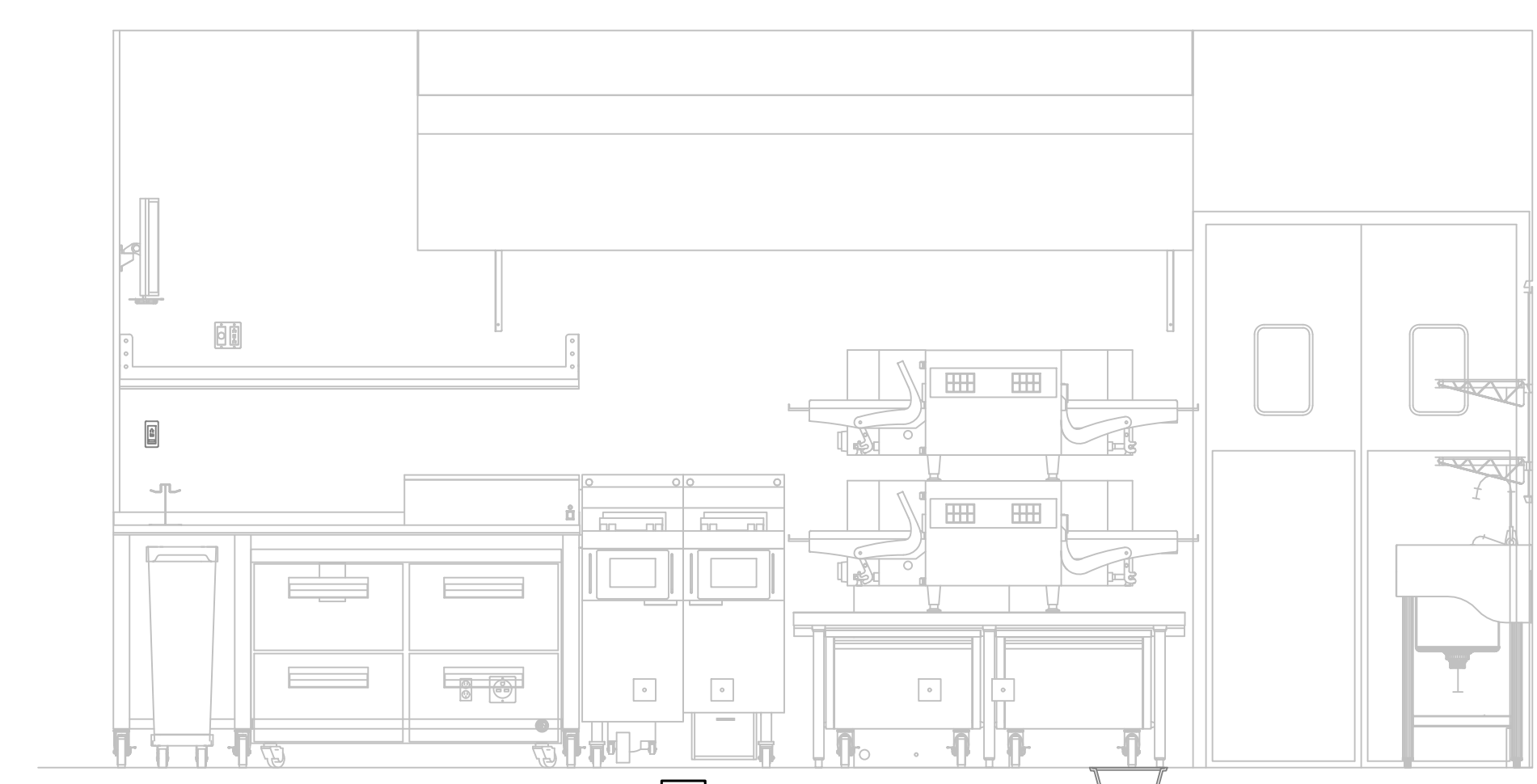


REMOVE EXISTING WATER SUPPLY OUTLET BOX AND REMOVE WATER SUPPLY LINES BACK TO ABOVE CEILING FOR EXTENSION TO NEW LOCATION.

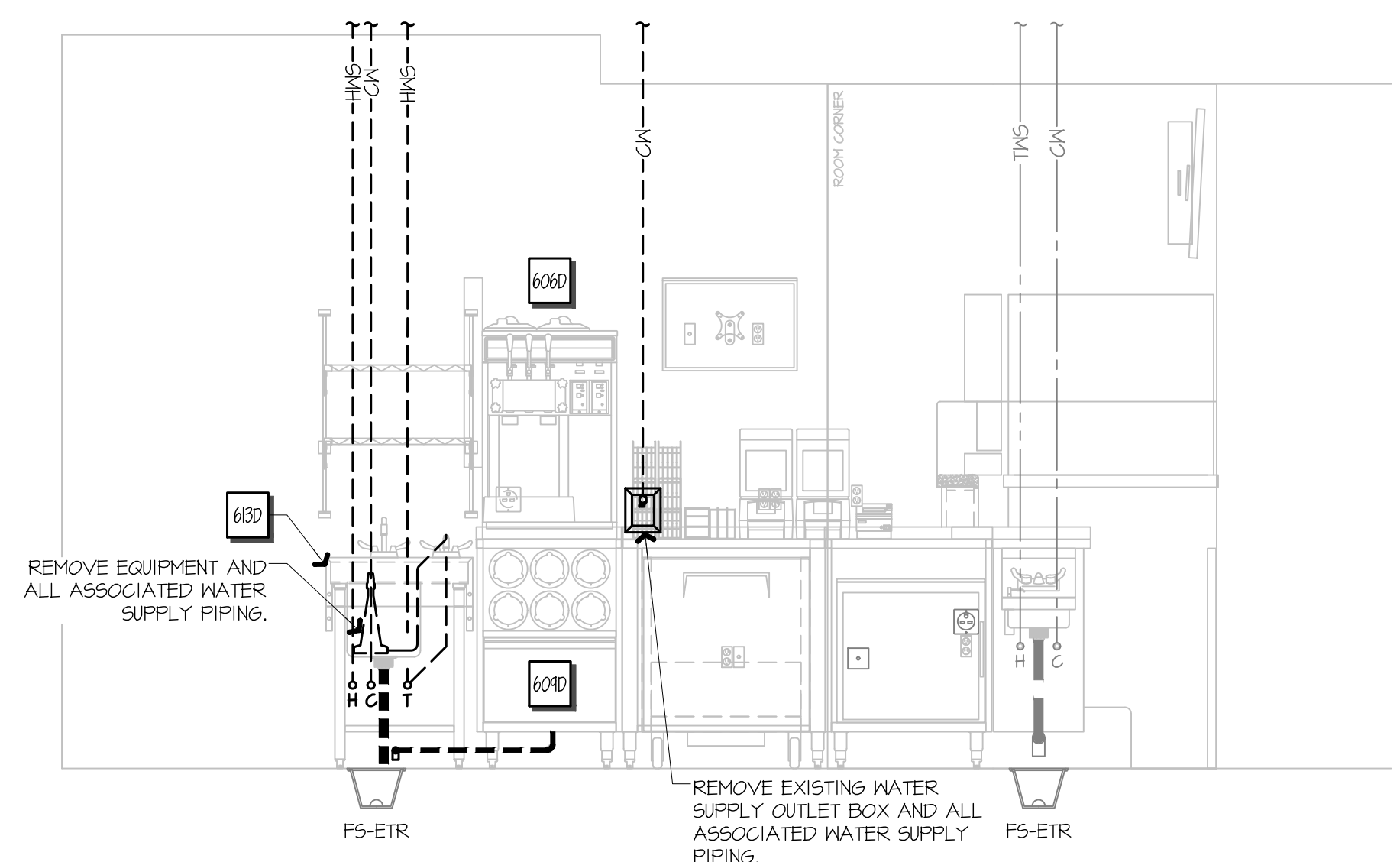
L1 FSC REAR WALL ELEVATION - DEMO

1/8" = 1'-0" A1-P101, A1-P103



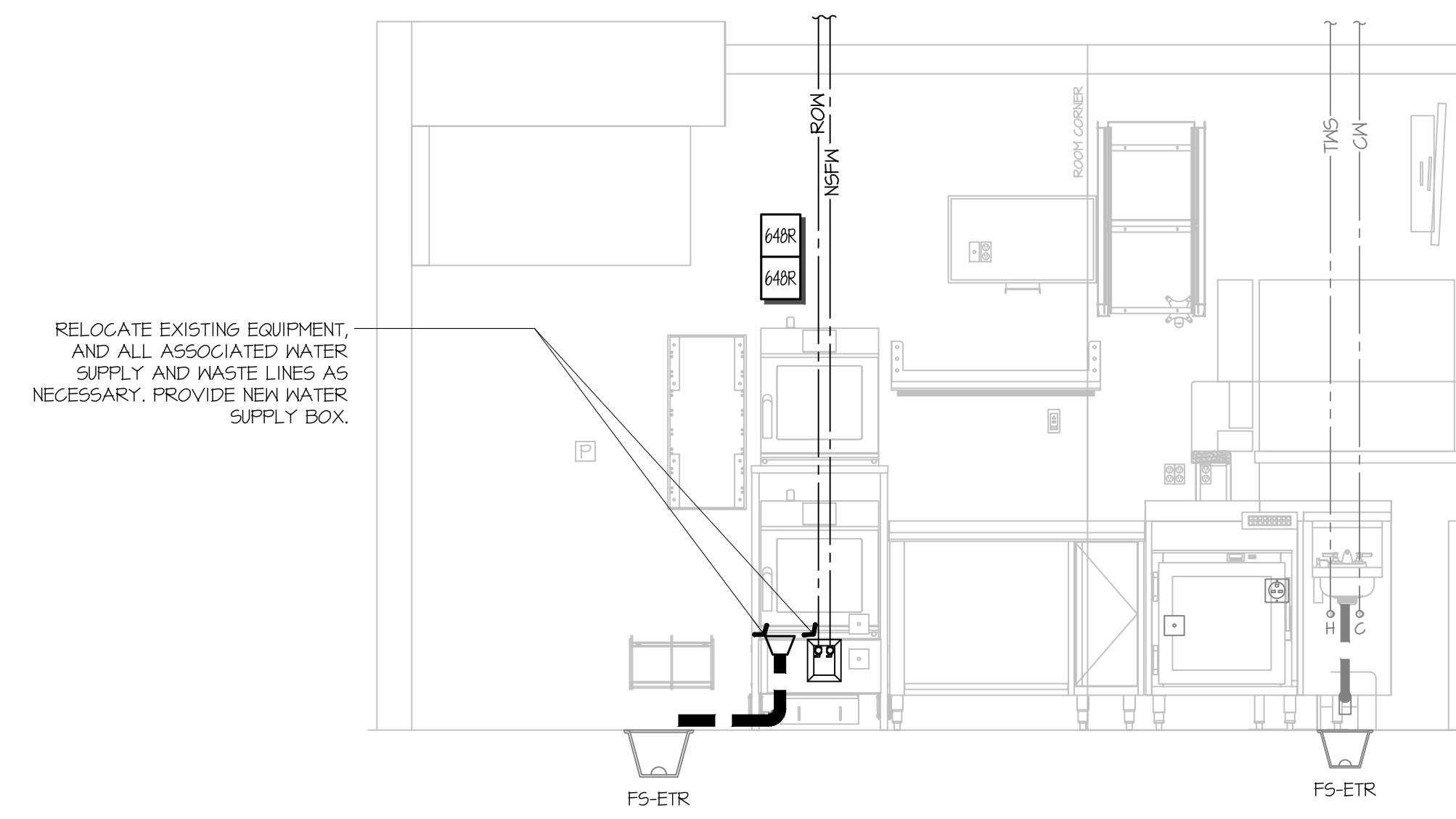
L9 FSC REAR WALL ELEVATION - NEW

1/8" = 1'-0" A1-P102, A1-P104



F1 FSC RIGHT WALL ELEVATION - DEMO

1/8" = 1'-0" A1-P101, A1-P103



F9 FSC RIGHT WALL ELEVATION - NEW

1/8" = 1'-0" A1-P102, A1-P104

A1 NOT USED

A9 NOT USED

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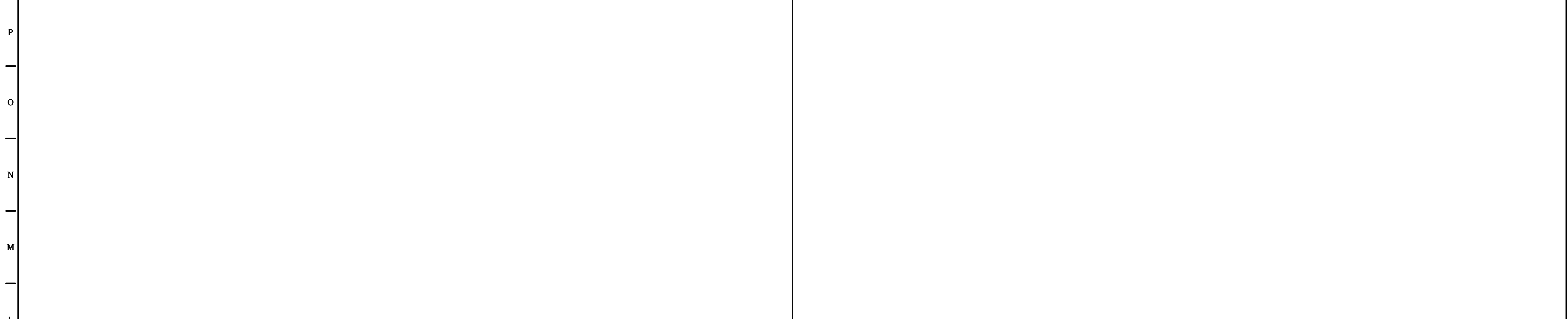
PROTOTYPE	FRYER ADDITION
DIVISION	DIVISION
VERSION	GEN 3
DATE	XX/XX/XXXX

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ORIGINAL ISSUE DATE: XX/XX/XXXX

SHEET TITLE:
PLUMBING ELEVATIONS

SHEET NUMBER:
P501

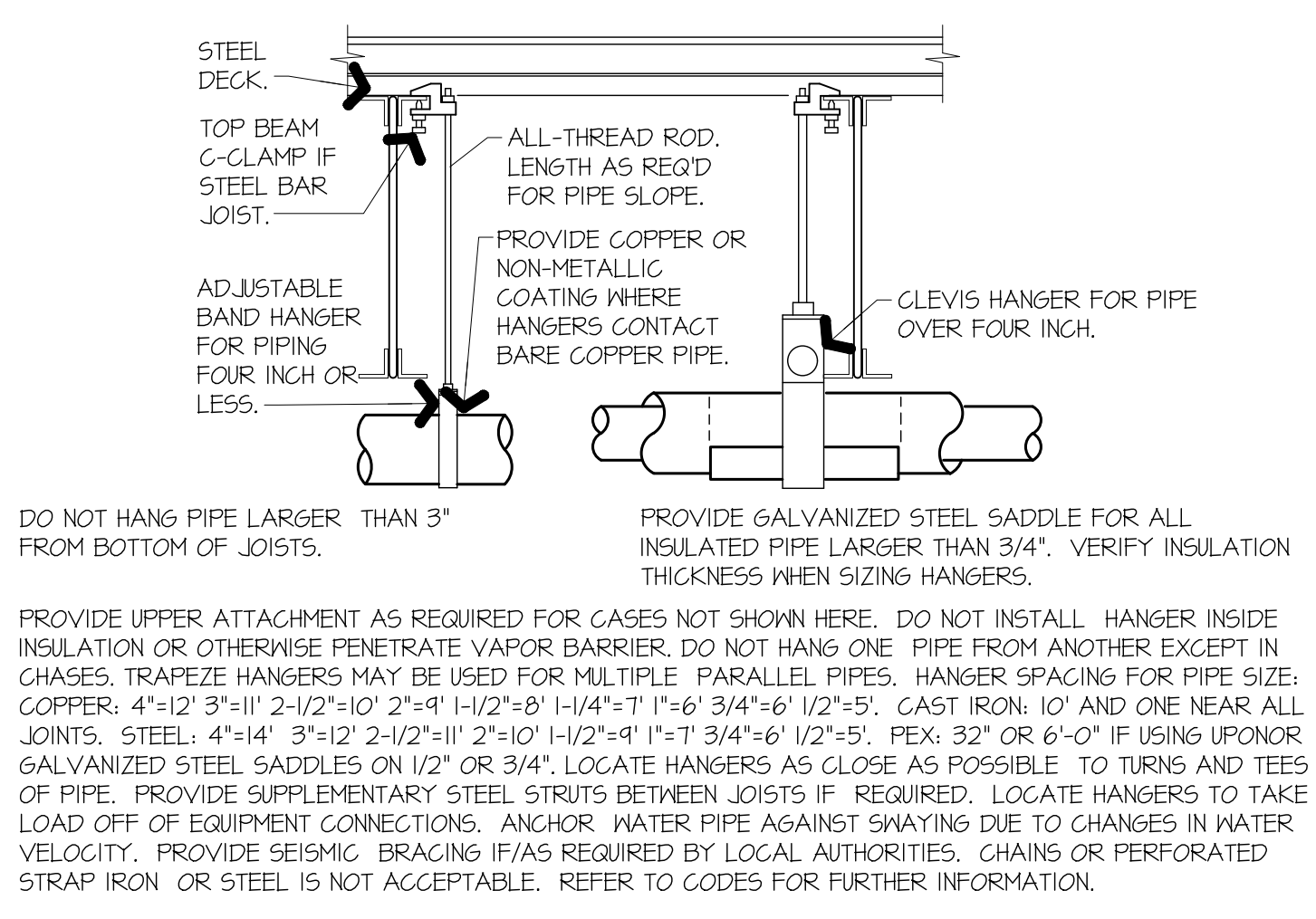
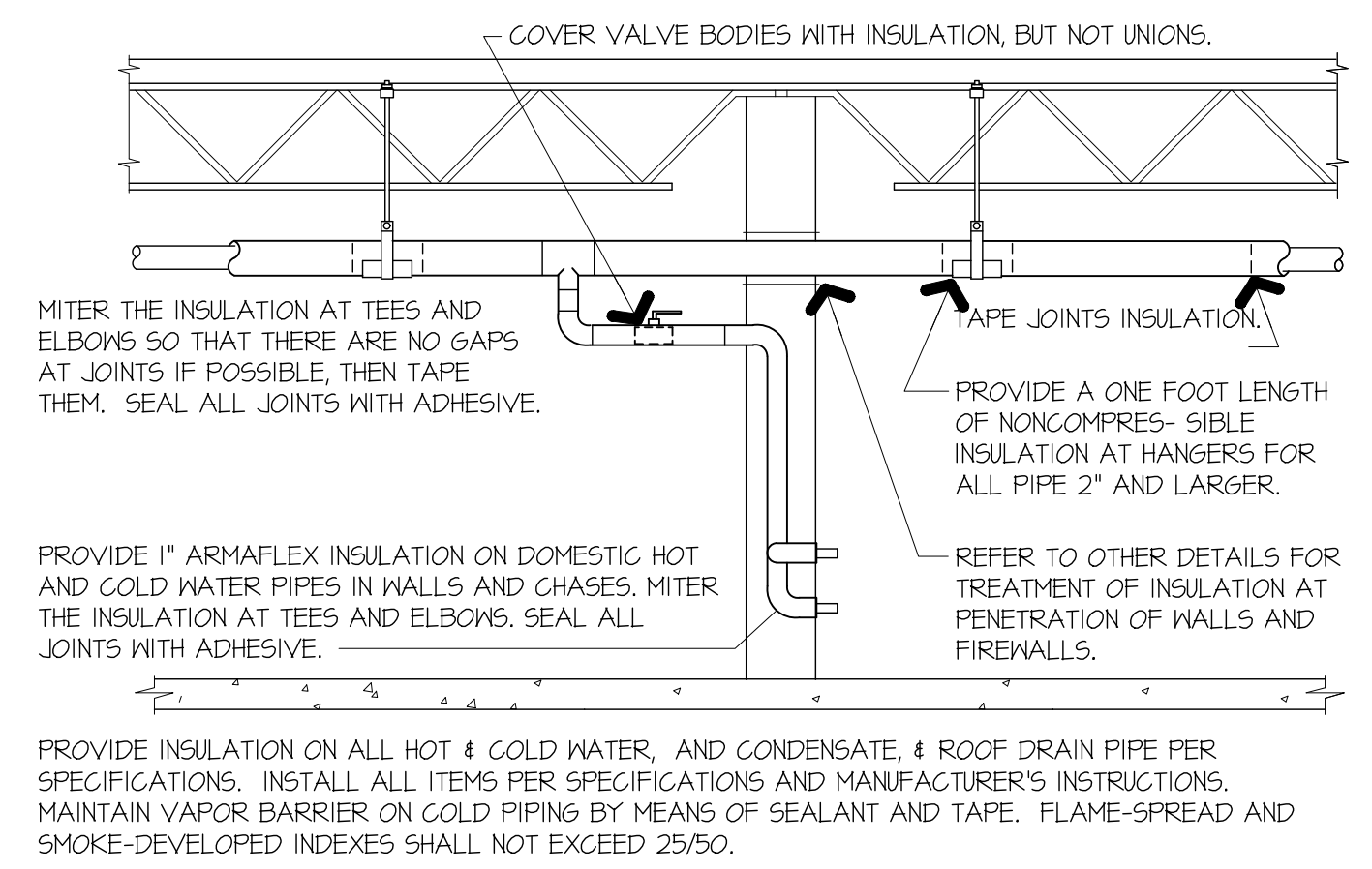
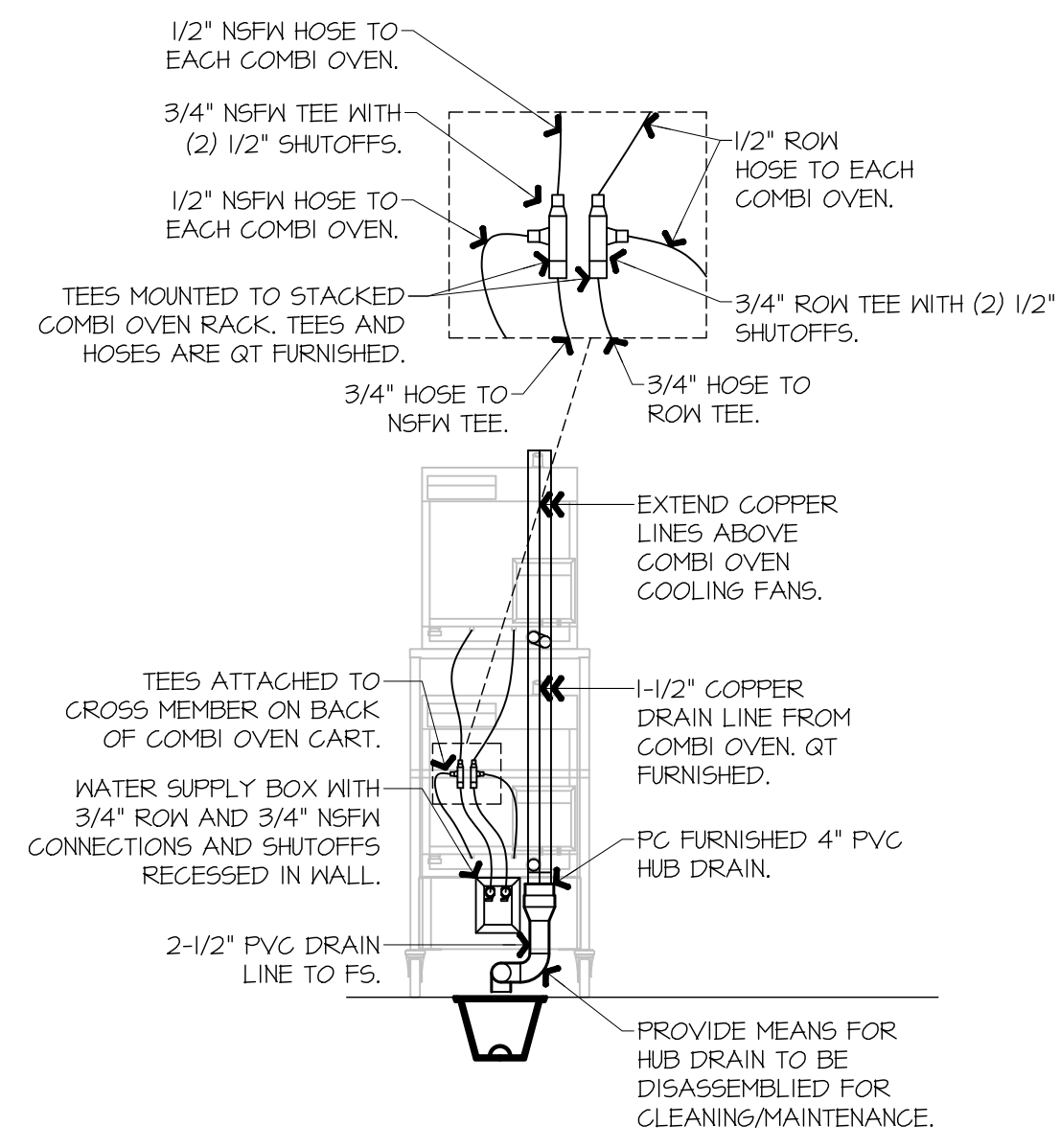


L1 NOT USED

L9 NOT USED

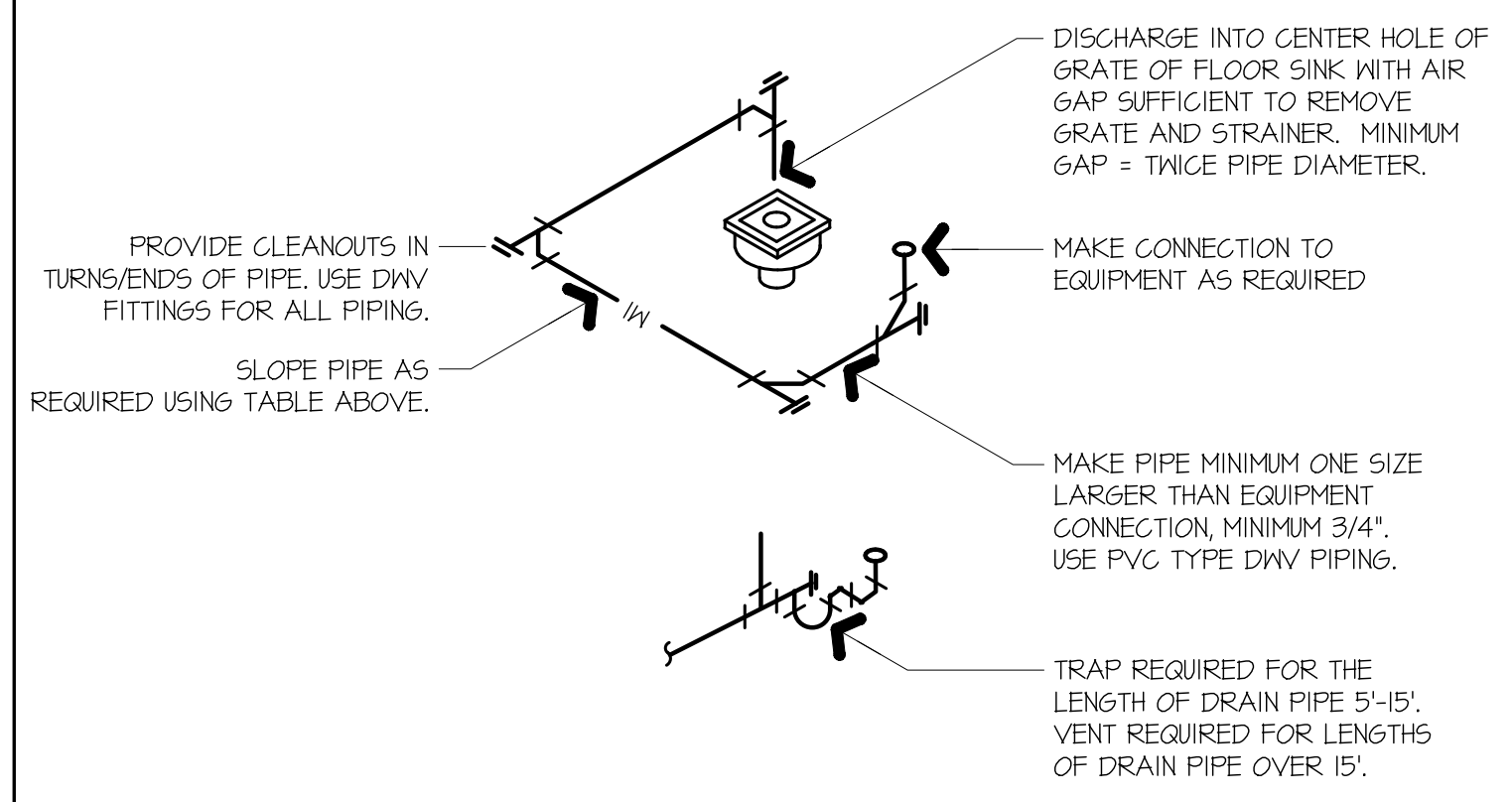
F1 NOT USED

F9 NOT USED



SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

ROUTE PIPE INCONSPICUOUSLY AND UNOBTUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.



A1 REAR COMBI OVEN ELEVATION
 1/8" = 1'-0"
 A1-P102, A1-P104

A5 PIPE INSULATION
 NOT TO SCALE

A9 PIPE HANGERS
 NOT TO SCALE

A13 INDIRECT DRAIN
 NOT TO SCALE

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 CITY, STATE



PROTOTYPE	FRYER ADDITION
DIVISION	DIVISION
VERSION	GEN 3
DATE	XX/XX/XXXX

REV	DATE	DESCRIPTION

SHEET TITLE:
 PLUMBING ELEVATIONS & DETAILS

SHEET NUMBER:
P502

PLUMBING EQUIPMENT LIST AND CONNECTION SCHEDULE

TAG #	DESCRIPTION	MANUFACTURER	MODEL	TRIM & ACCESSORIES	CONNECTIONS				FURNISHED BY	BACKFLOW		NOTES
					CW	HW	W	V		(PC FURNISHED)		
606	ICE CREAM SUPPLY OUTLET BOX	-	-	-	-	-	-	-	-	-	-	
609	UNDERCOUNTER ICE BIN	-	-	-	-	-	-	-	-	-	-	
613	DUMP SINK FAUCET DRAIN	-	-	-	-	-	-	-	-	-	-	
648	COMBI OVEN SUPPLY OUTLET BOX	CONVOTHERM	EASYTOUGH	DISCARD DRAIN BOX, PROVIDE 3/4" TO 1/2" ADAPTERS, SUPPLY CONNECTION BY PC	3/4" NSFN				1/4" TO F5			2,3
655	FRYER	FRYMASTER	FGE30U		3/4" NSFN							1,4

NOTES:

- 1) PROVIDE ALL ACCESSORIES, FITTINGS, ETC., REQUIRED FOR COMPLETE INSTALLATION.
- 2) EXISTING BACKFLOW PROTECTION MAINTAINED WITH RELOCATED EQUIPMENT.
- 3) INSULATE WATER AND DRAIN PIPING BELOW FIXTURE. PROVIDE WHITE FROWNAP PREMANUFACTURED INSULATION KITS BY MCGUIRE PRODUCTS.
- 4) WASTE TO BE MANUALLY DRAINED VIA SEPARATE SHORTENING DISPOSAL / OIL RECLAIM UNIT BY OWNER. NO WASTE SHALL BE DRAINED TO EXISTING BELOW GRADE PLUMBING.

GENERAL NOTES (APPLY TO ALL THE ABOVE):

- A) PLUMBING CONTRACTOR WILL PROVIDE ALL FIXTURES LISTED IN THE PLUMBING FIXTURE SCHEDULE INCLUDING ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT NOT LIMITED TO, DRAINS, TRAPS, STOPS, SUPPLIES, ADAPTERS, FITTINGS, ESCUTCHEONS, UNIONS, GAUGES, FLEX-CONNECTORS, ETC., WITH THE EXCEPTION OF FIXTURES WHICH ARE NOTED AS OWNER-FURNISHED, CONTRACTOR-INSTALLED IN RESPONSIBILITY MATRIX. CONTRACTOR STILL PROVIDES TRIM AND ACCESSORIES AS SCHEDULED. COORDINATE WITH QT REPRESENTATIVE. PROVIDE COMPLETE SUBMITTAL PACKAGE TO QT REPRESENTATIVE FOR APPROVAL.
- B) ALL DEVICE ROUGH-IN MOUNTING HEIGHTS SHALL BE VERIFIED WITH THE EQUIPMENT MANUALS PRIOR TO COMMENCING WORK.
- C) FURNISHED BY: QT=QUIKTRIP, PC=PLUMBING CONTRACTOR, MC=MECHANICAL CONTRACTOR, EC=ELECTRICAL CONTRACTOR.
- D) AFF=ABOVE FINISHED FLOOR, CW=COLD WATER, FW=FILTERED WATER, RI=ROUGH-IN, BV=BALL VALVE (FULL PORT), IW=INDIRECT WASTE, HD=HUB DRAIN, F5=FLOOR SINK.
- E) WHERE "FLEX" IS CALLED FOR, PROVIDE A SIX FOOT COILED LENGTH OF FOOD GRADE FLEXIBLE REINFORCED PLASTIC TUBING FROM THE ROUGH-IN TO THE EQUIPMENT, USING ADAPTERS AND HOSE CLAMPS AS REQUIRED.
- F) D=DEMO, R=REUSE/RELOCATE, F=UTURE.

	SANITARY WASTE
	GREASE WASTE (GW)
	COLD WATER (CW)
	HOT WATER SUPPLY (HWS)
	HOT WATER RETURN (HWR)
	FILTERED WATER / NON-SILOPHOS FILTERED WATER
	REVERSE OSMOSIS WATER
	MULTIPLY CHILLED WATER
	PLUMBING VENT (V)
	PIPE TURNING UP/DOWN PIPE
	BALL VALVE
	CIRCUIT SETTER TYPE BALANCING VALVE
	FIXTURE OR EQUIPMENT IDENTIFICATION
	PLAN NOTE
	INDIRECT WASTE
	VENT THRU ROOF
	CLEANOUT
	FLUSH FLOOR
	FLOOR DRAIN
	BALANCE VALVE
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING

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G1 PLUMBING EQUIPMENT LIST

PLUMBING SYSTEM SECTION 220000

PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A THE WORK INCLUDES A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BEVERAGE DISPENSING EQUIPMENT PROVIDED BY OTHERS (UNLESS OTHERWISE NOTED). ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

PLUMBING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

PLUMBING FIXTURES: PLUMBING FIXTURES SHALL BE AS SHOWN IN THE SCHEDULE ON THE DRAWINGS. ALL FIXTURES ARE TO BE NEW. ALL FIXTURES REQUIRING WATER SUPPLIES SUCH AS SINKS, LAVATORIES, ETC., SHALL BE PROVIDED WITH A FULL STOP BOX OUTLET BOX BY LSP PRODUCTS AND A COPPER FLEXIBLE SUPPLY RISER. ALL PLUMBING FIXTURES NOT SPECIFIED WITH, BUT REQUIRING TRAPS, SHALL BE PROVIDED WITH IT GAUGE TUBULAR BRASS TRAP, CHROME PLATED AND CHROME ESCUTCHEON. ALL FLOOR DRAINS CONNECTING TO THE SANITARY SYSTEM SHALL HAVE PVC TRAPS.

OWNER FURNISHED EQUIPMENT: PROVIDE ALL REQUIRED ROUGH-IN AND CONNECTIONS FOR OWNER FURNISHED EQUIPMENT IF/AS SHOWN ON PLANS.

SEWER AND WASTE PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE SPACE WITH CONNECTION TO THE DRAINAGE SYSTEMS ON-SITE. BOTH SANITARY DRAINAGE PIPING INTERIOR TO THE BUILDING ABOVE GRADE AND SANITARY DRAINAGE PIPING BELOW GRADE WITHIN AND BEYOND THE BUILDING SHALL BE SCHEDULE 40 SOLID-CORE POLYVINYL CHLORIDE (PVC) PIPE OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS. ALL 90° ELBOWS TO BE LONG SWEEP. THERE SHALL BE PUSH ON TYPE JOINTS FROM THE SANITARY LINE EXITING THE BUILDING TO THE SANITARY MAIN CONNECTION. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

VENTS: PROVIDE A COMPLETE VENT RISER SYSTEM MADE OF SCHEDULE 40 POLYVINYL CHLORIDE (PVC) OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: PROVIDE A COMPLETE SYSTEM OF SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS FOR ALL CONDENSATE AND INDIRECT PIPING REQUIREMENTS.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSURE FROM VIEW.

WATER DISTRIBUTION PIPING: COLD WATER PIPING SHALL BE 1/2" MIN. UPONOR PEX OR COPPER. HOT WATER PIPING SHALL BE 1/2" MIN. COPPER. IF COPPER IS USED, IT MUST BE TYPE K COPPER BELOW SLAB, TYPE L ABOVE SLAB, WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. ANNEALED COPPER FOR 1-1/4" OR SMALLER, DRAWN COPPER FOR 2" AND GREATER. PROVIDE MIN. 16" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP AND PDI LISTED WATER HAMMER ARRESTERS PER CODE REQUIREMENTS. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: INSULATE ALL HOT AND COLD WATER PIPING & ROOF DRAINAGE PIPING. PROVIDE 1/2" PREFORMED FIBERGLASS, AS-J-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-541. OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1/2" SELF-ADHESIVE ARMAFLEX UNICELLULAR FOAM PIPE INSULATION WITH PRE-FORMED FITTING COVERS - WITH K FACTOR OF 0.21 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60 DEGREES F.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO UPONOR PROPEX LF BRASS BALL VALVE (LARGE BORE), 1/2" PEX x 1/2" PEX. CHECKVALVES SHALL BE EQUAL TO NIBCO T-433.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC., ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED. WALL ACCESS PANEL: JOSAM 55650 SERIES 8"X8" SQUARE STAINLESS STEEL ACCESS FRAME WITH BEVELED EDGE, ANCHOR LUGS AND SMOOTH, SECURED COVER.

SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED ESCUTCHEON PLATES. EXPOSED TRAPS IN EXPOSED AREAS SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC). REMOVE ALL MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE. USE SUITABLE CLEANER AND JOINT GLUE COMPATIBLE WITH SCHEDULE 40 POLYVINYL CHLORIDE (PVC) DWV PIPING.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

CLEAN WATER PIPING PER LOCAL HEALTH DEPT. REQUIREMENTS. TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM, WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

G13 PLUMBING SYMBOLS LEGEND

1. SPECIFICATIONS: REFER TO PLUMBING SPECIFICATIONS FOR FURTHER INFORMATION AND REQUIREMENTS FOR CONTRACTOR.
2. QUIKTRIP EQUIPMENT CONTRACTOR: REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT ITEMS FURNISHED AND WORK PERFORMED BY QUIKTRIP EQUIPMENT CONTRACTOR. VERIFY ROUGH-IN AND CONNECTION REQUIREMENTS WITH OWNER REPRESENTATIVE.
3. HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS. OMIT ESCUTCHEONS IN FOOD SERVICE AREAS. SEAL PIPES NEATLY WITH GROUT AT WALL, FLOOR, OR CEILING PENETRATIONS. OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HD. WHEREVER POSSIBLE, INSTALL PIPING IN FOOD SERVICE AREAS CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
4. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO THE OWNER.
5. MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT; TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC., PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
6. VERIFY LOCATIONS: EXISTING PIPING SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATIONS ON JOB SITE.
7. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED.
8. TRAP PRIMERS: PROVIDE TRAP PRIMERS ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE PRECISION PLUMBING PRODUCTS OR APPROVED EQUIVALENT TRAP PRIMER VALVE, INSTALLED IN AN EXPOSED BUT UNOBJECTIONABLE LOCATION, OR ABOVE THE CEILING. PROVIDE A CONTINUOUS LENGTH OF 1/2" SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO TRAP. PROVIDE ELASTOMER INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. USE PRECISION PLUMBING PRODUCTS DISTRIBUTION UNITS TO CONNECT MORE THAN ONE FLOOR SINK TO ONE PRIMER.
9. ALL UNDERSLAB WATER PIPING SHALL BE TYPE "K" WATER ANNEALED COPPER TUBING OR PEX WITH INSULATION PER SPEC. NO JOINTS PERMITTED UNDER SLAB.
10. ALL INTERIOR CLEANOUTS TO BE CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED.
 - FINISHED FLOOR: JOSAM #55004-L-5Q CAST IRON, HUB OUTLET WITH GASKET, AND SQUARE SECURED NICKEL BRONZE SCORRIATED COVER.
 - WALL: JOSAM #55604-C04 STAINLESS STEEL ACCESS PLATE TYPE.
11. PLUMBING CONTRACTOR TO USE A COMPLETE SYSTEM OF PVC OR ABS DWV DRAIN, WASTE, AND VENT PIPING FOR ALL WASTE, INDIRECT DRAIN, VENT AND CONDENSATE PIPING.

QT

PROTOTYPE FRYER ADDITION
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 VERSION GEN 3
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REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: XXXX-XXXX

SHEET TITLE:
 PLUMBING SCHEDULES, SPECIFICATIONS, AND SYMBOLS

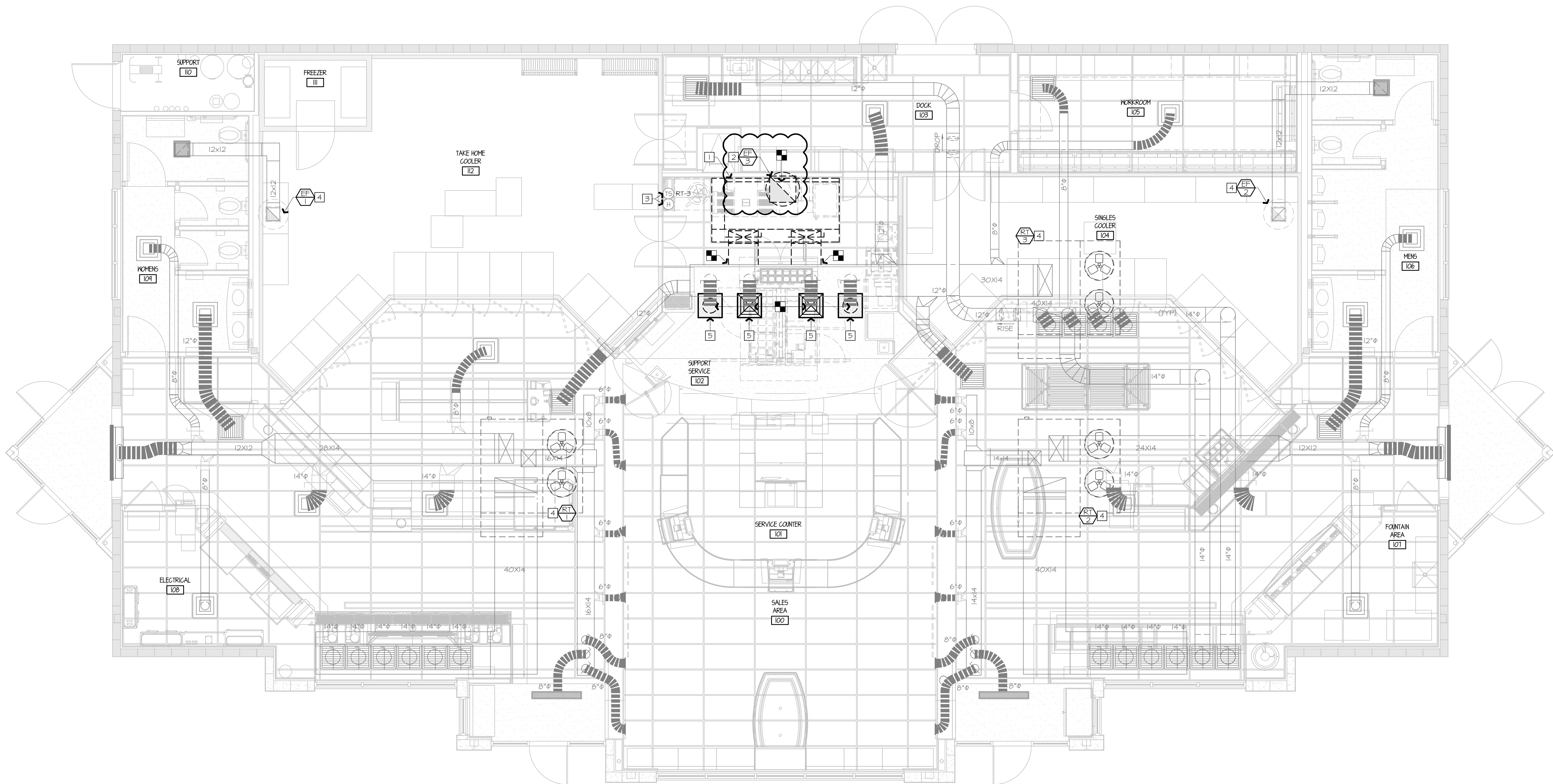
SHEET NUMBER:
P601

A1 PLUMBING SPECIFICATIONS

A13 GENERAL NOTES

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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SHEET TITLE:
MECHANICAL
DUCTWORK
CEILING PLAN - DEMO

SHEET NUMBER:
M101

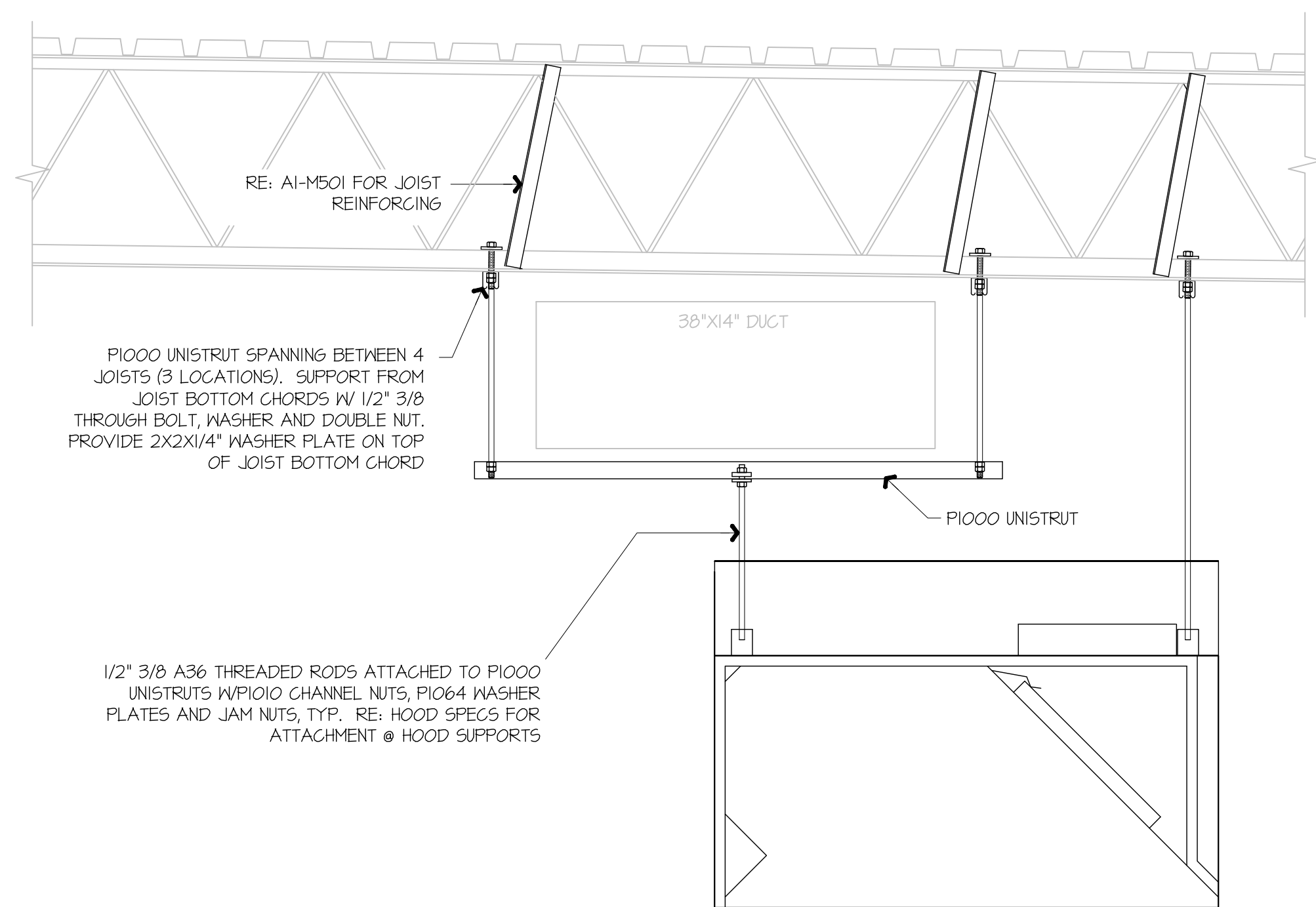
- 1 REMOVE EXISTING KITCHEN HOOD SYSTEM AND ALL ASSOCIATED GREASE DUCT BETWEEN HOOD AND EXISTING EXHAUST FAN ON ROOF. REMOVE HOOD SUPPLY PLENUM DUCT BACK TO RTU SUPPLY MAIN AND CAP AND PATCH AS REQUIRED. RE: M102.
- 2 REMOVE ROOF MOUNTED EXHAUST FAN AND ALL ASSOCIATED DUCT WORK.
- 3 EXISTING TEMPERATURE SENSOR AND HUMIDITY SENSOR SERVING KITCHEN RTU TO REMAIN, SHOWN FOR REFERENCE.
- 4 EXISTING ROOF EQUIPMENT TO REMAIN, SHOWN FOR REFERENCE.
- 5 REMOVE DIFFUSER/GRILLE AND MAINTAIN EXISTING DUCT WORK FOR NEW WORK.

A13 PLAN NOTES

A1 MECHANICAL DUCTWORK CEILING PLAN - DEMO

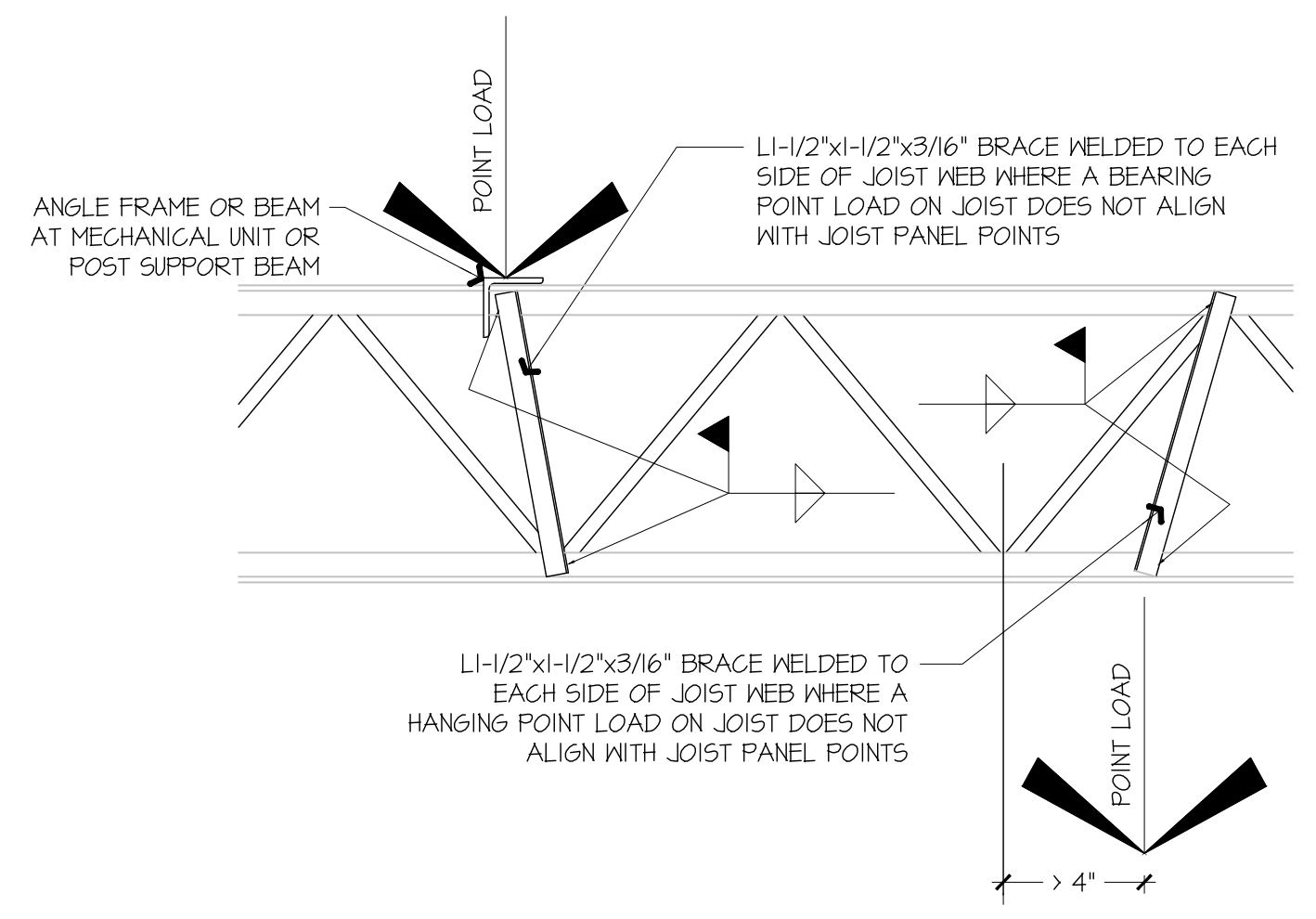


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



F1 KITCHEN EXHAUST HOOD SUPPORT DETAIL

NOT TO SCALE



A1 JOIST REINFORCING DETAIL

NOT TO SCALE

GENERAL NOTES:
 KITCHEN EXHAUST HOOD SHALL BE TYPE-I RATED FOR MEDIUM DUTY COOKING APPLIANCES THAT PRODUCE GREASE OR SMOKE AS A RESULT OF THE COOKING PROCESS. HOOD SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SYSTEM INTERLOCKED WITH EQUIPMENT SHUTDOWN CONTROLS. HOOD SHALL BE PROVIDED WITH UL 1046 GREASE FILTERS. HOOD SHALL BE LISTED IN ACCORDANCE WITH UL/ITC. HOOD SHALL BE LISTED AND LABELED FOR 0" CLEARANCE REQUIREMENTS TO COMBUSTIBLES.

HEAT AND MOISTURE LOADS FOR APPLIANCES THAT DO NOT PRODUCE GREASE OR SMOKE AS A RESULT OF THE COOKING PROCESS AND ARE NOT LOCATED UNDER THE HOOD, HAVE BEEN INCORPORATED INTO THE HVAC SYSTEM CAPACITY SERVING THE KITCHEN.

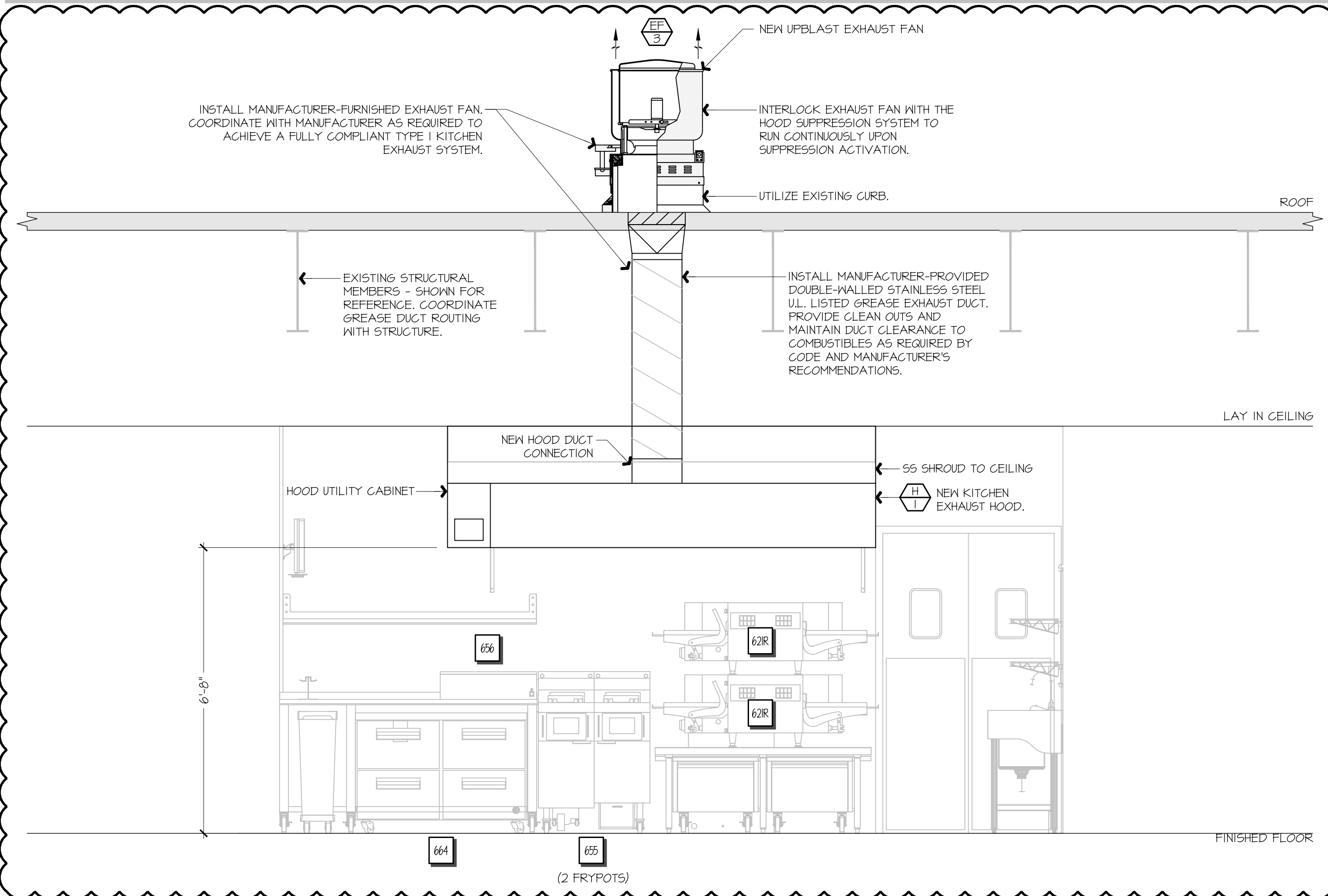
ALL OVENS NOT LOCATED UNDERNEATH A HOOD ARE UL/ITC LISTED FOR VENTLESS OPERATION.

SEQUENCE OF OPERATION:
 THE FOLLOWING KITCHEN EQUIPMENT SHALL BE INTERLOCKED WITH CURRENT TRANSFORMERS THAT AUTOMATICALLY ACTIVATE THE HOOD EXHAUST FAN UPON THE KITCHEN EQUIPMENT BEING ENERGIZED: [621] PIZZA OVENS, [648] COMBI OVENS, [647] STEAM DRAWER, [655] FRYER, [656] FRY HOLDING STATION.

AS HOOD EXHAUST FAN ENERGIZES, RTU'S SHALL MODULATE OUTSIDE AIR TO MAINTAIN BUILDING PRESSURIZATION. RE: M601.

HEAT SENSORS SHALL BE PROVIDED WITHIN HOOD CANOPY FOR TEMPERATURE AND HUMIDITY MONITORING. RE: MANUFACTURER DRAWINGS.

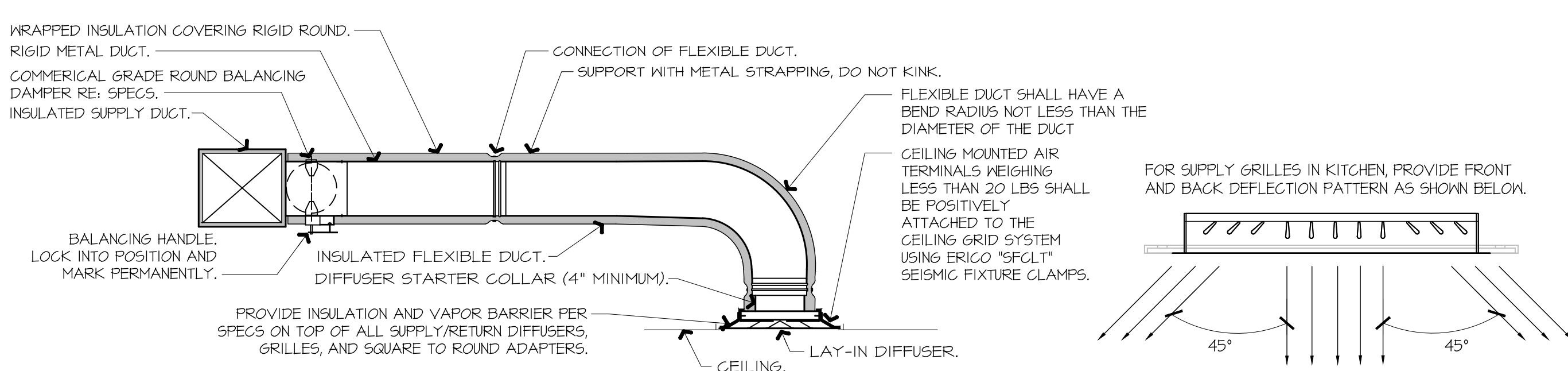
UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, ALL EQUIPMENT LOCATED UNDER THE HOOD SHALL BE SHUTDOWN VIA CONTACTORS LOCATED WITHIN THE HOOD UTILITY CABINET, AND RTU SERVING KITCHEN SPACE SHALL BE AUTOMATICALLY SHUTDOWN. RE: A13-E601.



F9 FSC REAR WALL ELEVATION - NEW

1/2" = 1'-0"

A1-M102



NOTES:

- PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAMBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAMBAND WITH AN ADDITIONAL DRAMBAND.
- PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
- PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
- BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE FIBER REINFORCED FOIL BACKED TAPE FOR INSULATION OVERLAP.

A9 DIFFUSER CONNECTION DETAIL

NOT TO SCALE

PRELIMINARY

SIGNATURE DATE: DATE

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QuikTrip No. GEN3
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PROTOTYPE	FRYER ADDITION
DIVISION	DIVISION
VERSION	GEN 3
DATE	XX-XX-XXXX

REV	DATE	DESCRIPTION

SHEET TITLE:

MECHANICAL SECTIONS & DETAILS

SHEET NUMBER:

M501

HOOD / EXHAUST FAN SCHEDULE									
	MANUFACTURER	MODEL	SIZE	CFM OFF/MAX	MISC.	LIGHTS	FIRE SYSTEM	WEIGHT	NOTES
H-1	CAPTIVEAIRE	6030ND-2-F	(9) 60"X30"	0 / 1950	12"Ø EXHAUST C.XN	(6) LED	YES	198 LBS	I-10
EF-3	CAPTIVEAIRE	DUBOHA	1/2 HP	0 / 1950	DIRECT-DRIVE	-	-	74 LBS	IJ2

NOTES:

- HOODS, FANS, AND ACCESSORIES SHALL BE MANUFACTURER-FURNISHED, CONTRACTOR-INSTALLED.
- HOOD SHALL BE 480 STAINLESS STEEL.
- HOOD SHALL BE FURNISHED WITH FAN INDICATOR AND LIGHTSWITCH MOUNTED ON FRONT PANEL.
- MANUFACTURER FURNISHED UL LISTED STAINLESS STEEL DUCT KIT AND ALL REQUIRED CONNECTION ACCESSORIES FOR FIELD-INSTALLATION FROM HOOD TO FAN.
- HOOD SHALL HAVE RIGHT AND LEFT QUARTER END PANELS, AND FRONT, LEFT, AND RIGHT STAINLESS STEEL FIELD WRAPPER.
- HOOD SHALL BE FURNISHED WITH UL 1046 LISTED GREASE FILTERS.
- HOOD SHALL BE FURNISHED WITH DUCT MOUNTED HEAT SENSORS AND AUTOMATIC FAN CONTROLS MOUNTED IN HOOD UTILITY CABINET.
- SYSTEM SHALL BE CAPABLE OF MODULATING FAN AS SCHEDULED, AND INTERLOCKED WITH BUILDING HVAC SYSTEM FOR BUILDING PRESSURIZATION.
- EQUIPMENT SHUT DOWN CONTACTORS ARE FACTORY-FURNISHED WITHIN HOOD UTILITY CABINET.
- HOOD SHALL BE LISTED AND LABELED FOR 0" CLEARANCE REQUIREMENTS TO COMBUSTIBLES.
- FAN SHALL BE FURNISHED WITH VENTED AND HINGED CURB, GREASE BOX, AND DISCONNECT.
- VARIABLE SPEED CONTROLLER PRE-MOUNTED IN FAN HOUSING. SPEED CONTROLLER SHALL BE MANUALLY ADJUSTED BY TEST AND BALANCE CONTRACTOR.

GRILLE, REGISTER, & DIFFUSER SCHEDULE							
	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DESCRIPTION	NOTES
RI	TITUS	35ORL	EXHAUST	8" X 8"		3/4" 35° BLADE TRANSFER GRILLE, ALL WHITE.	I,2
SI	TITUS	300FS	SUPPLY	22" X 22"		DOUBLE DEFLECTION GRILLE, ALL WHITE.	I,3

NOTES:

- PROVIDE TRIM RINGS FOR ALL DIFFUSERS OR GRILLES IN GYP. BOARD CEILINGS.
- PROVIDE PLASTER FRAME IN HARD CEILINGS.
- PROVIDE BORDER TYPE 1 WITH NO SCREEN HOLES.

GENERAL NOTES (APPLY TO ALL THE ABOVE):

- GRILLES, REGISTERS, AND DIFFUSERS SHALL BE CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED.
- MAXIMUM NG. OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.
- FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS SHOWN OTHERWISE.
- PROVIDE SQUARE-TO-ROUND ADAPTER ON ALL GRILLES AND DIFFUSERS AS REQUIRED PER THE DRAWINGS.
- PROVIDE NON-ASBESTOS THERMAL INSULATING BLANKETS WITH VAPOR BARRIER FOR ALL SUPPLY DIFFUSERS AND RETURN GRILLES.
- RE: THE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
- RE: DRAWINGS FOR FURTHER INSTALLATION AND APPLICATION DETAILS.

EXHAUST FAN CONTROL SETTINGS				RTU 1, 2, 3 O/A CONTROL SETTINGS			
CONDITION	EXHAUST FAN CFM	PERCENTAGE OF MAX EXHAUST	CONTROL VOLTAGE Vdc *	CONTROL VOLTAGE Vdc *	OUTSIDE AIR CFM	O/A DAMPER POSITION **	
HOOD OFF	0	0.0%	0	0	420	0 / (FAN# X SUPPLY AIRFLOW)	
HOOD ON	1950	100.0%	10	5	810	1950 / (FAN# X SUPPLY AIRFLOW)	

* CONTROL VOLTAGE SIGNAL RECEIVED FROM HOOD CONTROL PANEL ** O/A CFM / (SUPPLY FAN# X SUPPLY AIRFLOW)

AIR BALANCE & PRESSURIZATION SCHEDULE				
	SA CFM	HOOD ON RA CFM	HOOD OFF OA CFM	HOOD ON OA CFM
RT-1 OUTSIDE AIR	4200	3950	350	800
RT-2 OUTSIDE AIR	4200	3950	350	800
RT-3 OUTSIDE AIR	4200	3950	350	800
EF-1 WOMENS EXHAUST	0	0	-225	-225
EF-2 MENS EXHAUST	0	0	-525	-525
EF-3 KITCHEN EXHAUST HOOD	0	0	0	-1950
	12600	9840	300	300

NEW SUPPLY DIFFUSER WITH CFM AMOUNT, NEW RETURN OR EXHAUST GRILLE WITH TYPE AND CFM AMOUNT.

RELOCATED SUPPLY DIFFUSER WITH CFM AMOUNT, RELOCATED RETURN OR EXHAUST GRILLE WITH TYPE AND CFM AMOUNT.

EXISTING SUPPLY DIFFUSER WITH CFM AMOUNT, EXISTING RETURN GRILLE WITH CFM AMOUNT.

REMOVED SUPPLY DIFFUSER WITH CFM AMOUNT, REMOVED RETURN GRILLE WITH CFM AMOUNT.

RECTANGULAR DUCTWORK WIDTH INCHES X DEPTH INCHES

TAKE-OFF WITH GASKET AND DAMPER 45° OR 90° AS SHOWN ON PLAN FLEX/DUCT RUNOUT

ELEWON WITH TURNING VANES

ROOF-MOUNTED EXHAUST FAN

ROOFTOP UNIT (HIDDEN OUTLINE REPRESENTS SERVICE CLEARANCE)

TEMPERATURE SENSOR

HUMIDITY SENSOR

DUCT SMOKE DETECTOR

INTERIOR ELEVATION TAG

CONNECT TO EXISTING

DISCONNECT FROM EXISTING

HOOD SUPPRESSION PUSH STATION

G1 MECHANICAL SCHEDULES

G13 MECHANICAL SYMBOLS LEGEND

MECHANICAL SYSTEM SECTION 230000

THE WORK INCLUDES INSTALLATION OF THE HVAC SYSTEM AND PROVIDING NEW DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, CONTROLS, AND EQUIPMENT NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM. HVAC SYSTEM INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
SUPPLY AND RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT.
DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN.
ROOF CURBS AND FLASHING OF ROOF PENETRATIONS FOR EQUIPMENT NOTED.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION, SUCH AS ROOFTOP UNITS, DUCTWORK, HOODS, EXHAUST FANS, SUPPLY AND RETURN DIFFUSERS, ETC., SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION.

COMPLY WITH ALL LAWS APPLYING TO MECHANICAL INSTALLATIONS IN EFFECT. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY LOCAL CODES AND SMACNA.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. PROVIDE ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITES.

CONTRACTOR SHALL INSTALL ONE SET OF NEW FILTERS AT THE END OF CONSTRUCTION, WHEN QUIKTRIP TAKES OCCUPANCY OF THE BUILDING.

SHEET METAL DUCTWORK: SHEET METAL FABRICATED AND INSTALLED TO CONFORM TO THE 2005 EDITION OF HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION. SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK-FORMING QUALITY, ASTM A-525, UNLESS OTHERWISE NOTED. DUCT DIMENSIONS ON DRAWINGS ARE INTERNAL AIRWAY DIMENSIONS. DUCT REINFORCEMENT SHALL BE SUITABLE FOR 1" AND -1" INCH STATIC PRESSURE.

ALL UNISTRUT USED FOR SUPPORT SHALL BE PRIMED STEEL SHOP PAINTED. CONNECTIONS TO WALLS OR FLOORS SHALL BE AIRTIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIRTIGHT WITH UNITED SHEET METAL "DUCT SEALER" TO SMACNA CLASS 'B'. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 45°.

TRAPEZE DUCT HANGERS: MINIMUM 1"X2"X1/8 18 GAUGE CHANNELS WITH 1" X18 GAUGE STRAPS TO STRUCTURAL SUPPORT ABOVE.

DUCT WRAP/AS-J INSULATION (ON ALL RIGID ROUND AND RECTANGULAR SUPPLY AIR DUCTWORK): PROVIDE 2" THICK (MIN R-6) FIBERGLASS AS-J DUCT WRAP WITH VAPOR SEAL ON ALL RIGID ROUND DUCTWORK ABOVE THE CEILING. CONFORM TO SPEC ASTM C 1290.

RIGID ROUND GALVANIZED DUCT SHALL BE SPIRAL OR SNAP LOCK GALVANIZED SHEET METAL COMPLYING WITH SMACNA.

FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS I AIR DUCT (UL 181) WITH 1" THICK 1" PGF (MIN R-5) FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.G. PRESSURE AND 0 TO 250 DEGREE FAHRENHEIT. PROVIDE STAINLESS STEEL ADJUSTABLE CLAMPING DEVICES, SCREW OPERATED. USE TWIST-LOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. DO NOT EXCEED SIX (6) FEET IN LENGTH FOR ANY FLEX DUCT. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS. FLEXIBLE DUCTWORK SHALL BE SERIES 70 BY ATCO, OR EQUIVALENT.

ROUND BALANCING DAMPERS: FABRICATED OF SAME MATERIAL AS DUCT, TWO METAL GAUGES HEAVIER THAN DUCT. MOUNT ON 3/8" SQUARE ROD WITH SAA SLOT POSITION INDICATOR. PIVOT BEARING, LOCKING POSITION REGULATOR, YOUNG REGULATOR CO., SERIES 443. REGULATOR SHALL BE POSITIONED WITH SHEET METAL BRACKET BEYOND DUCT COVERING.

CEILING DIFFUSERS/RETURNS: PROVIDE SUPPLY DIFFUSERS AND DAMPER IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

AUTOMATIC TEMPERATURE CONTROL: ENTIRE BUILDING IS SERVED BY A BUILDING ENERGY MANAGEMENT SYSTEM REFERRED TO AS 'EMS'. SYSTEM WILL INCLUDE THERMOSTATIC AND HUMIDITY CONTROL FOR HVAC ROOFTOP UNITS.

HVAC TEST AND BALANCING AND CRITERIA:

CONTRACTOR SHALL FIRST VERIFY THAT THE SYSTEM MATCHES THE CONSTRUCTION DOCUMENTS FOR LOCATIONS OF ALL DIFFUSERS, GRILLES, ROOFTOP UNITS, EXHAUST FAN, THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, SMOKE DETECTORS, TEST UNITS, AND ANNUNCIATORS. MAKE VISUAL OBSERVATIONS OF INSTALLATION SUCH AS ROOFTOP UNITS INSTALLED LEVEL AND COMPLETE, CLEAN FILTERS, GOOD REFRIGERANT CHARGE, ADEQUATE CONDENSATE DRAINAGE, ETC. VERIFY THAT ALL DUCTS ARE CONNECTED (NONE HAVE COME LOOSE AND ARE BLOWING AIR INTO THE PLENUM), NO KINKED FLEX-DUCT, ALL DUCTS WELL INSULATED AND NO GAPS EXIST THAT COULD CREATE A SOURCE FOR CONDENSATION, PARTICULARLY ON TOP OF DIFFUSERS. INDICATE DIRECTION THAT STOREFRONT FACES. (PROVIDE A NORTH ARROW ON PLAN). ANY DISCREPANCIES SHALL BE MARKED ON A DRAWING TO BE PRESENTED TO THE OWNER'S REPRESENTATIVE ALONG WITH THE FINAL REPORT.

MINOR REPAIR WORK, SUCH AS LOOSE FLEX CONNECTIONS, REPLACEMENT BELTS, ETC., SHALL BE PERFORMED BY THE TEST AND BALANCE CONTRACTOR PRIOR TO AIR BALANCING. MAJOR REPAIR WORK SHALL BE REPORTED TO THE QUIKTRIP REPRESENTATIVE AND NEGOTIATED PRIOR TO WORK BEING DONE. INSTALL ALL NEW FILTERS.

ADJUST EACH PIECE OF HVAC EQUIPMENT AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. FOLLOW NEBS AND ASHRAE STANDARDS. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIR VOLUMES INDICATED OR PROPORTIONALLY PER THE DRAWING TO ACHIEVE A SLIGHTLY POSITIVE BUILDING PRESSURIZATION OF +0.05"WC. TEST AND VERIFY PROPER ECONOMIZER AND GRAVITY RELIEF VENT OPERATION. CHECK RESTROOM PRESSURIZATION AND VERIFY THAT AN ADEQUATE TRANSFER AIR PATH EXISTS. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE AND HUMIDITY WHERE APPLICABLE, AND OVERALL OPERATION. FINAL BALANCED POSITIONS SHALL BE MARKED ON EACH DAMPER WITH A PERMANENT MARKER.

AUTOMATIC TEMPERATURE & HUMIDITY CONTROL: EACH ROOFTOP UNIT SHALL BE CONTROLLED BY THE BUILDING ENERGY MANAGEMENT SYSTEM BY OTHERS. EMS LOCATED IN THE LOW-VOLTAGE CABINET, TEMPERATURE AND/OR HUMIDITY SENSORS IN THE SPACE. SET OUTSIDE AIR DAMPER TO MINIMUM POSITION DURING OCCUPIED MODE. ALL PROGRAMMING SHALL BE THROUGH THE EMS BY OTHERS. VERIFY THAT ROOFTOP UNITS EQUIPPED WITH DEHUMIDIFICATION (HOT GAS REHEAT) ARE WIRED, FUNCTIONAL, AND SET. ALL WIRING SHALL BE IN CONDUIT.

CONTRACTOR SHALL PRESENT A FINAL DRAWING AND CERTIFIED BALANCE REPORT TO THE QT REPRESENTATIVE THAT CONTAINS ALL ACTUAL DIFFUSER AND GRILLE LOCATIONS WITH AIR QUANTITIES SHOWN FOR EACH DEVICE, EXHAUST AND OUTSIDE AIR QUANTITIES, SUPPLY AIR TEMPERATURE, FAN RPM, MOTOR CURRENTS, MAIN DUCT STATIC PRESSURE, AND DUCT TEMPERATURES, INDOOR/OUTDOOR PRESSURE DIFFERENTIAL, AND ROOFTOP UNIT(S) MAKE AND MODEL NUMBER.

CONTRACTOR TO OBTAIN COPY OF 'QT TEST AND BALANCE REPORT FORM' FROM QT REP FOR REPORTING PURPOSES.

- REFER TO THE SPECIFICATIONS, DETAILS, AND SCHEDULES FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON THE PLAN.
- ALL TEMPERATURE CONTROL WIRING SHALL BE TAPPAN OR BELDEN CABLE BY THE EMS INSTALLER AND SHALL MEET NATIONAL ELECTRIC CODE REQUIREMENTS. SEE ROOFTOP UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS. CONCEAL ALL WIRING IN HALL CAVITIES OR ABOVE CEILING.
- MECHANICAL CONTRACTOR SHALL REMOVE AND REPLACE FILTERS FOR ALL EXISTING ROOFTOP UNITS AT THE END OF PROJECT CONSTRUCTION.
- CONTRACTOR SHALL FIELD REVIEW AND VERIFY EXISTING CONDITIONS AS APPLICABLE AND COORDINATE WITH OTHER TRADES.
- TRANSITION AS REQUIRED FROM BRANCH DUCT TO DIFFUSER NECK. COORDINATE BETWEEN PLANS AND SCHEDULES.
- DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.
- FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6' IN LENGTH.
- HOLD TOP OF DUCTWORK INSULATION TO UNDERSIDE OF STRUCTURE WHEREVER POSSIBLE.
- ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS INSTALLED AS INDICATED ON DRAWINGS. HANDLE SHALL BE BOTH ACCESSIBLE AND CAPABLE OF OPENING AND CLOSING FULLY. REFER TO DIFFUSER CONNECTION DETAIL.
- FINAL LOCATION OF TEMPERATURE CONTROLS SHALL BE FIELD-VERIFIED BY OWNER AT JOB SITE.
- MECHANICAL CONTRACTOR SHALL CLEAN ALL CONDENSERS AFTER CONSTRUCTION HAS BEEN COMPLETED.
- ALL DUCTWORK SHALL RECEIVE DUCT WRAP INSULATION PER SPECIFICATIONS. LINED DUCTWORK IS NOT ACCEPTABLE.

A1 MECHANICAL DUCTWORK SPECIFICATIONS

A13 GENERAL NOTES

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PROTOTYPE FRYER ADDITION

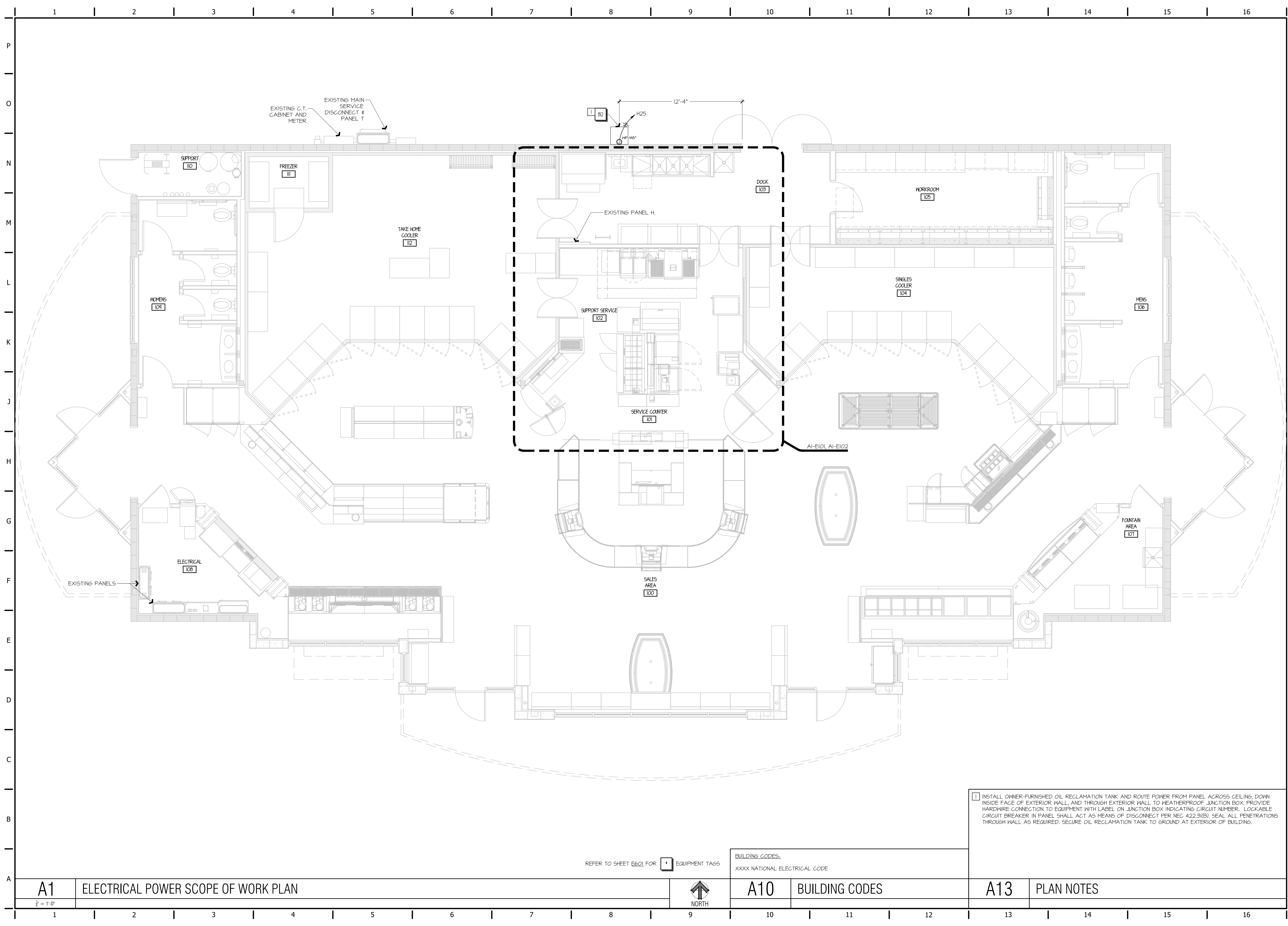
DIVISION	DIVISION
VERSION	GEN 3
DATE	XX-XX-XXXX

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: XX/XX/XXXX

SHEET TITLE:
MECHANICAL SCHEDULES, SPECIFICATIONS, AND SYMBOLS

SHEET NUMBER:
M601



PRELIMINARY

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REV	DATE	DESCRIPTION

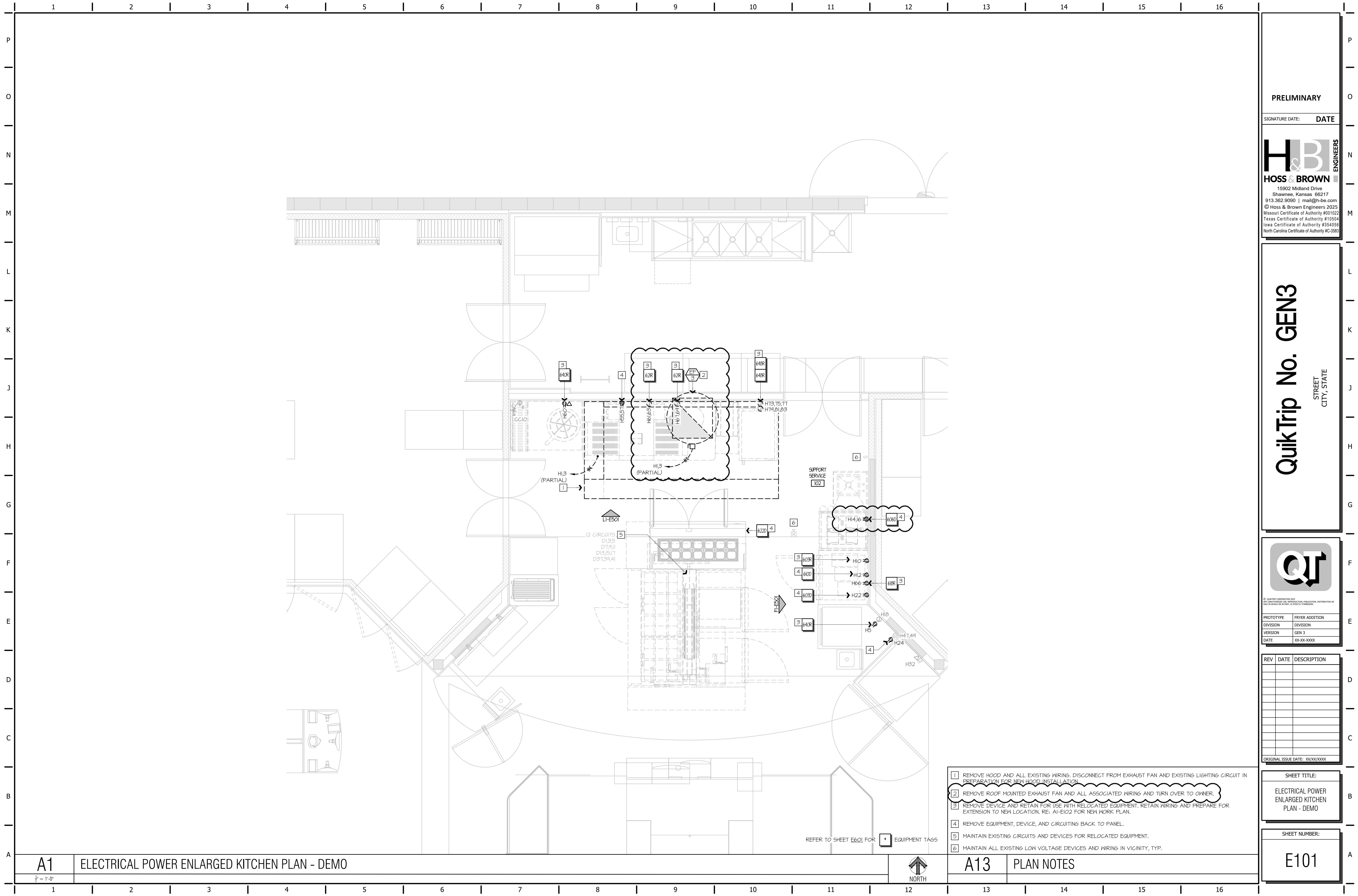
ORIGINAL ISSUE DATE: XX/XX/XXXX

SHEET TITLE:
 ELECTRICAL POWER SCOPE OF WORK PLAN

SHEET NUMBER:
E100

REFER TO SHEET E601 FOR EQUIPMENT TAGS

BUILDING CODES:
 XXXX NATIONAL ELECTRICAL CODE



A1 ELECTRICAL POWER ENLARGED KITCHEN PLAN - DEMO

1/8" = 1'-0"



- 1 REMOVE HOOD AND ALL EXISTING WIRING. DISCONNECT FROM EXHAUST FAN AND EXISTING LIGHTING CIRCUIT IN PREPARATION FOR NEW HOOD INSTALLATION.
- 2 REMOVE ROOF MOUNTED EXHAUST FAN AND ALL ASSOCIATED WIRING AND TURN OVER TO OWNER.
- 3 REMOVE DEVICE AND RETAIN FOR USE WITH RELOCATED EQUIPMENT. RETAIN WIRING AND PREPARE FOR EXTENSION TO NEW LOCATION. RE: A1-E102 FOR NEW WORK PLAN.
- 4 REMOVE EQUIPMENT, DEVICE, AND CIRCUITING BACK TO PANEL.
- 5 MAINTAIN EXISTING CIRCUITS AND DEVICES FOR RELOCATED EQUIPMENT.
- 6 MAINTAIN ALL EXISTING LOW VOLTAGE DEVICES AND WIRING IN VICINITY, TYP.

A13 PLAN NOTES

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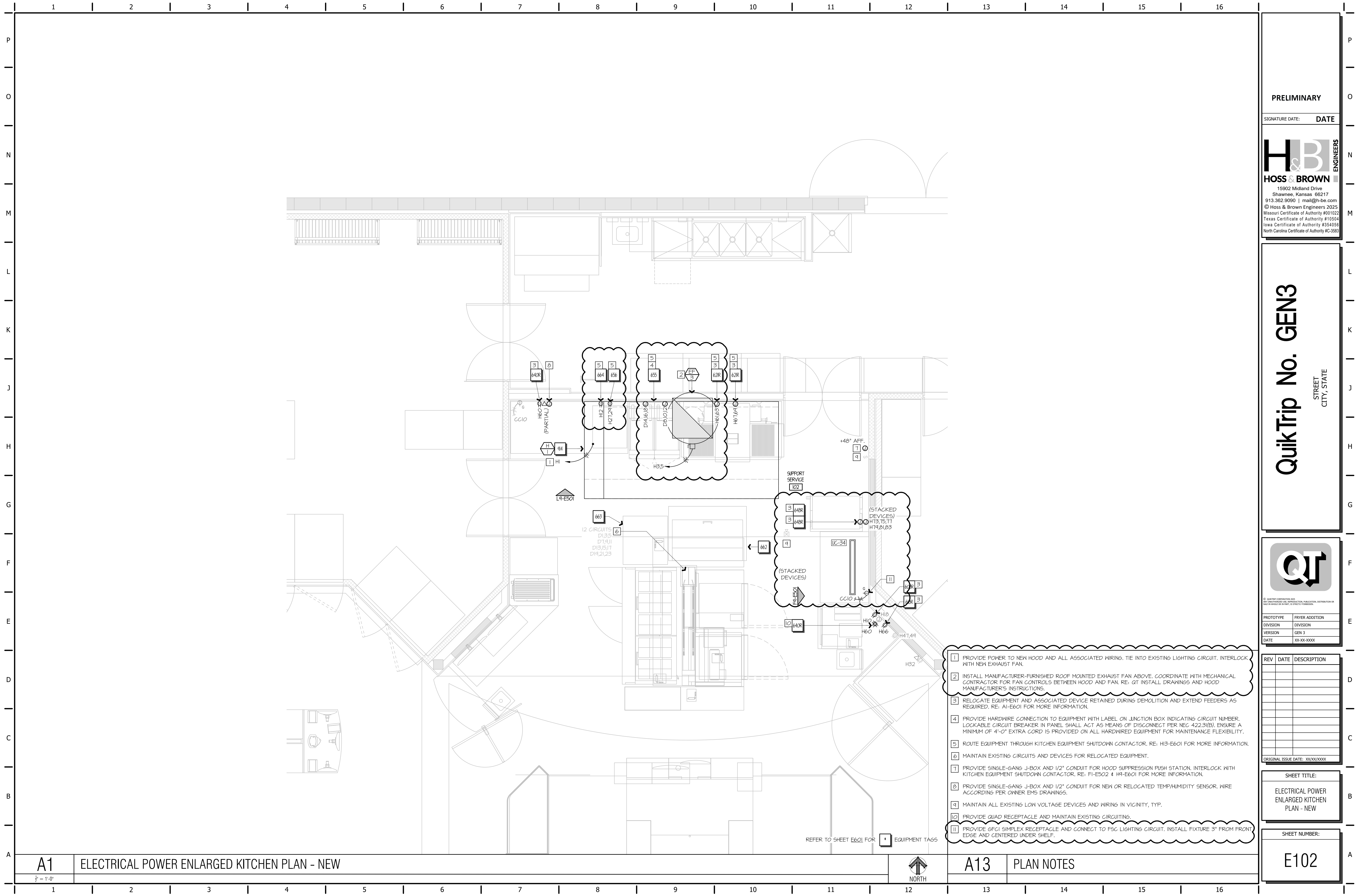


PROTOTYPE	FRYER ADDITION
DIVISION	DIVISION
VERSION	GEN 3
DATE	XX/XX/XXXX

REV	DATE	DESCRIPTION

SHEET TITLE:
ELECTRICAL POWER ENLARGED KITCHEN PLAN - DEMO

SHEET NUMBER:
E101



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PROTOTYPE	FRYER ADDITION
DIVISION	DIVISION
VERSION	GEN 3
DATE	XX-XX-XXXX

REV	DATE	DESCRIPTION

SHEET TITLE:
ELECTRICAL POWER ENLARGED KITCHEN PLAN - NEW

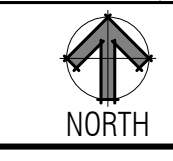
SHEET NUMBER:
E102

A1 ELECTRICAL POWER ENLARGED KITCHEN PLAN - NEW

A13 PLAN NOTES

- 1 PROVIDE POWER TO NEW HOOD AND ALL ASSOCIATED WIRING. TIE INTO EXISTING LIGHTING CIRCUIT. INTERLOCK WITH NEW EXHAUST FAN.
- 2 INSTALL MANUFACTURER-FURNISHED ROOF MOUNTED EXHAUST FAN ABOVE. COORDINATE WITH MECHANICAL CONTRACTOR FOR FAN CONTROLS BETWEEN HOOD AND FAN. RE: QT INSTALL DRAWINGS AND HOOD MANUFACTURER'S INSTRUCTIONS.
- 3 RELOCATE EQUIPMENT AND ASSOCIATED DEVICE RETAINED DURING DEMOLITION AND EXTEND FEEDERS AS REQUIRED. RE: AI-E601 FOR MORE INFORMATION.
- 4 PROVIDE HARDWIRE CONNECTION TO EQUIPMENT WITH LABEL ON JUNCTION BOX INDICATING CIRCUIT NUMBER. LOCKABLE CIRCUIT BREAKER IN PANEL SHALL ACT AS MEANS OF DISCONNECT PER NEC 422.3(B). ENSURE A MINIMUM OF 4'-0" EXTRA CORD IS PROVIDED ON ALL HARDWIRED EQUIPMENT FOR MAINTENANCE FLEXIBILITY.
- 5 ROUTE EQUIPMENT THROUGH KITCHEN EQUIPMENT SHUTDOWN CONTACTOR. RE: H3-E601 FOR MORE INFORMATION.
- 6 MAINTAIN EXISTING CIRCUITS AND DEVICES FOR RELOCATED EQUIPMENT.
- 7 PROVIDE SINGLE-GANG J-BOX AND 1/2" CONDUIT FOR HOOD SUPPRESSION PUSH STATION. INTERLOCK WITH KITCHEN EQUIPMENT SHUTDOWN CONTACTOR. RE: FI-E502 & H1-E601 FOR MORE INFORMATION.
- 8 PROVIDE SINGLE-GANG J-BOX AND 1/2" CONDUIT FOR NEW OR RELOCATED TEMP/HUMIDITY SENSOR. WIRE ACCORDING PER OWNER EMS DRAWINGS.
- 9 MAINTAIN ALL EXISTING LOW VOLTAGE DEVICES AND WIRING IN VICINITY, TYP.
- 10 PROVIDE QUAD RECEPTACLE AND MAINTAIN EXISTING CIRCUITING.
- 11 PROVIDE GFCI SIMPLEX RECEPTACLE AND CONNECT TO F5C LIGHTING CIRCUIT. INSTALL FIXTURE 3" FROM FRONT EDGE AND CENTERED UNDER SHELF.

REFER TO SHEET E601 FOR EQUIPMENT TAGS



1/8" = 1'-0"

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M1 NOT USED

LIGHT FIXTURE SCHEDULE

TYPE	IMAGE	SYMBOL	QUANTITY	MANUFACTURER	CATALOG NUMBER	LAMPS	MOUNTING	VOLTS	WATTS	REMARKS
UC-34			1	ELITE LIGHTING	EU-LED-34-1300L-35K-WH-PC5BI20	LED	SURFACE	120	14	

GENERAL NOTES (APPLY TO ALL THE ABOVE):

- A) ALL LIGHT FIXTURES ARE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
- B) ALL LAMPS TO BE PROVIDED BY ELECTRICAL CONTRACTOR, OSRAM/PENNSYLVANIA ONLY, PURCHASED THROUGH NATIONAL ACCOUNT REPRESENTATIVE.
- C) ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH 120 VOLT SOLID STATE ELECTRONIC BALLASTS.
- D) LIGHT FIXTURES IN COOLER SHALL REMAIN OFF DURING CONSTRUCTION UNTIL COOLERS ARE PERMANENTLY GOLD.
- E) ALL MOUNTING HEIGHTS AND FIXTURE PLACEMENT TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

H1 LIGHTING SCHEDULE

H13 NOT USED

ELECTRICAL EQUIPMENT LIST AND CONNECTION SCHEDULE

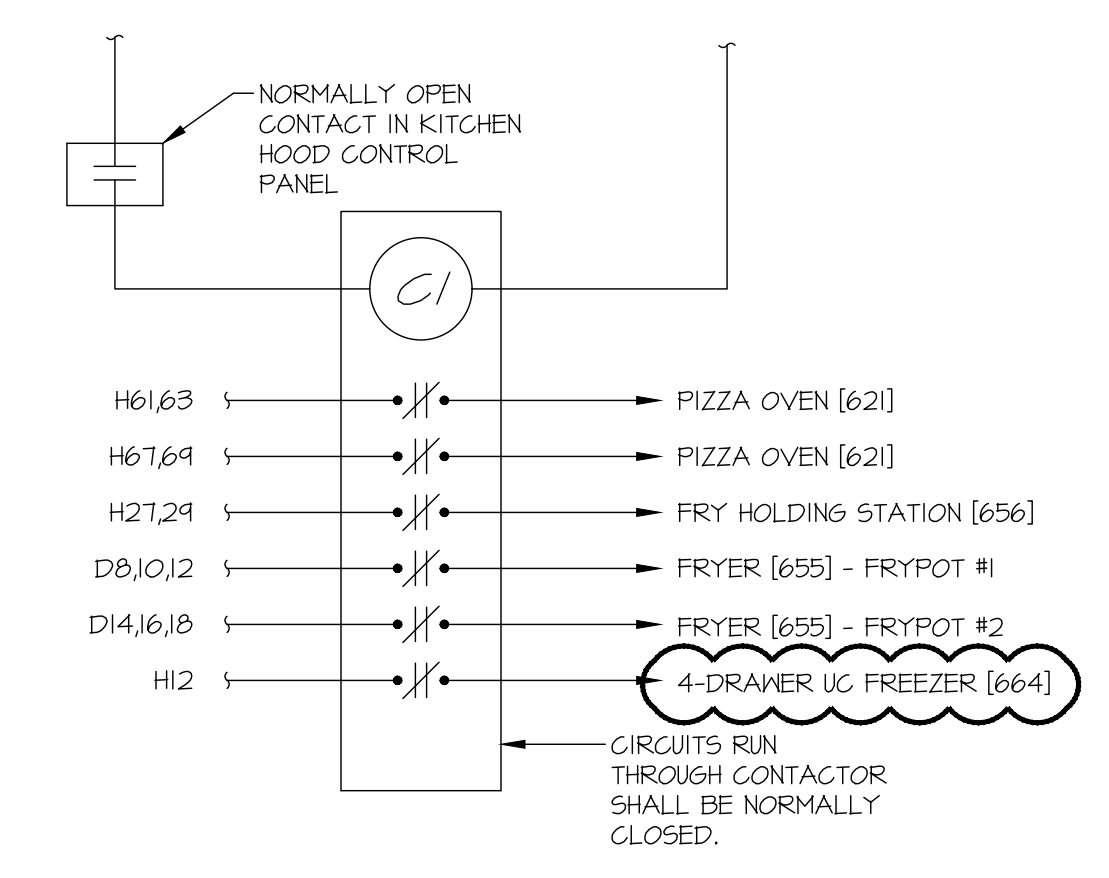
TAG #	DESCRIPTION	MAKE & MODEL	VOLTAGE / PHASE / WIRE	LOAD AMPS	TYPE OF CONNECTION	WIRE AND CONDUIT	MOUNTING HEIGHT (AFF)	FURNISHED BY	ITEM REMARKS
603	BLENDER	VITAMIX #36014	120/1/3W	15.0	NEMA 5-20R	3#12 IN 1/2" C	*	-	*NOTE 1
606	ICE CREAM MACHINE	-	-	-	-	-	-	-	-
610	UNDERCOUNTER REFRIGERATOR	-	-	-	-	-	-	-	-
618	LED SCREEN	-	120/1/3W	2.0	NEMA 5-20R	3#12 IN 1/2" C	*	-	*NOTE 1
621	PIZZA OVEN	OVENTION #5HUTTLE	208/1/3W	45.0	HARDWIRED	3#8 IN 3/4" C	*	-	*NOTE 1
622	60" PIZZA GOLD PREP TABLE	TRUE #155U-60-16	120/1/3W	7.8	NEMA 5-15R	3#12 IN 1/2" C	*	-	*NOTE 1
638	72" SUB COLD PREP TABLE	TRUE #TFP-72-30M-D-2	120/1/3W	5.1	NEMA 5-20R	3#12 IN 1/2" C	*	-	*NOTE 1
640	FRITTER	-	120/1/3W	1.0	NEMA 5-20R	3#12 IN 1/2" C	*	-	*NOTE 1
648	COMBI OVEN	CONOTHERM EASYTOUGH	208/3/4W	17.1	HARDWIRED	4#10 IN 1/2" C	*	-	*NOTE 1
655	FRYER	FRYMASTER 2F0E30U	208/3/4W	48.0	HARDWIRED	3#6 4 #10 6 IN 3/4" C	*	QT	*NOTE 1,2
656	FRY HOLDING STATION	MERCO #MCG212TNN	208/1/3W	19.8	NEMA 6-20R	3#12 IN 1/2" C	*	QT	*NOTE 1
662	48" PIZZA COLD PREP TABLE	TRUE TFP-48-18M-D-2	120/1/3W	2.4	NEMA 5-20R	3#12 IN 1/2" C	*	QT	*NOTE 1
663	2-DRAWER UNDERCOUNTER FREEZER	HOSHIZAKI UF21B-D2	120/1/3W	4.0	NEMA 5-15R	3#12 1/2" C	*	QT	*NOTE 1
664	4-DRAWER UNDERCOUNTER FREEZER	UF48B-LPD4	120/1/3W	4.0	NEMA 5-15P	3#12 IN 1/2" C	*	QT	*NOTE 1
612	WASTE OIL RECLAMATION TANK	FRONTLINE INTERNATIONAL 30736Q-0	120/1/3W	15.0	NEMA 5-20R	3#12 IN 1/2" C	*	QT	
414	H-1 EXHAUST HOOD	CAPTIVEAIRE 6030ND-2-F	120/1/3W	15.0	HARDWIRED	3#12 IN 1/2" C		QT	
415	EF-3 EXHAUST FAN	CAPTIVEAIRE DUB0HFA	208/1/3W	3.8	FACTORY	3#12 IN 1/2" C		QT	RE: MECHANICAL SHEETS

- NOTES:**
- 1) REFERENCE ELEVATIONS ON SHEET E501.
 - 2) PROVIDE DEDICATED POWER CONNECTION FOR EACH FRYPOT AS SHOWN ON PLANS.

GENERAL NOTES (APPLY TO ALL THE ABOVE):

- A) ALL ELECTRICAL DEVICES ARE PROVIDED BY ELECTRICAL CONTRACTOR. ROUGH-IN MOUNTING HEIGHTS ARE CENTER OF BOX UNLESS NOTED OTHERWISE AND SHALL BE VERIFIED WITH THE EQUIPMENT MANUALS PRIOR TO COMMENCING WORK.
- B) LABEL ALL RECEPTACLES WITH THE NAME OF THE EQUIPMENT THEY SERVE AND CIRCUIT NUMBERS.
- C) RECEPTACLES OR DISCONNECT SWITCHES LOCATED PER PLAN. MOUNT TO WALL OR TO BACK OF WEDGE CAVITY OR CASEWORK AS APPLICABLE.
- D) FURNISHED BY: QT=QUIKTRIP, PC=PLUMBING CONTRACTOR, MC=MECHANICAL CONTRACTOR, EC=ELECTRICAL CONTRACTOR.
- E) D = DEMO, R = REUSE / RELOCATE, F-FUTURE

A1 ELECTRICAL EQUIPMENT LIST



FOR EQUIPMENT UNDER HOOD, WIRE THROUGH FACTORY INSTALLED CONTACTORS IN THE HOOD CONTROL PANEL.

IF APPLICABLE, PROVIDE AN INTERCONNECT TO THE FIRE ALARM SYSTEM FROM A CONTACT IN THE FIRE SUPPRESSION CONTROL PANEL TO A FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE.

ANY KITCHEN EQUIPMENT LOCATED BELOW THE HOOD AND IS PROTECTED BY A CIRCUIT BREAKER LARGER THAN 20A WILL REQUIRE A DEDICATED CONTACTOR WITH CONTACT RATINGS EQUAL TO OR LARGER THAN THE CIRCUIT BREAKER PROTECTING THE EQUIPMENT. THE DEDICATED CONTACTOR SHALL BE WIRED IN PARALLEL TO THE 20A MULTI-POLE CONTACTOR. ANY DEDICATED CONTACTORS THAT CANNOT BE INSTALLED IN ELECTRICAL CABINET ON HOOD SHALL BE INSTALLED ABOVE CEILING ADJACENT TO HOOD IN AN ACCESSIBLE LOCATION.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, RELAYS, AND DEVICES AS SHOWN AND AS REQUIRED TO PROVIDE CONTROL INTERFACE BETWEEN HOOD FIRE SUPPRESSION SYSTEM TO CAUSE THE FOLLOWING TO OCCUR WHEN AGENT IS RELEASED:

- DE-ENERGIZE ALL ELECTRICAL EQUIPMENT LISTED ON THIS DETAIL.
- DE-ENERGIZE RTU SERVING THE KITCHEN.
- ENERGIZE AND RAMP EXHAUST FAN AIRFLOW TO HOOD MAX CFM SCHEDULED ON M601.

A13 HOOD EQUIPMENT SHUTDOWN CONTACTOR

PRELIMINARY

SIGNATURE DATE: DATE

H & B
HOSS & BROWN ENGINEERS

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Missouri Certificate of Authority #001022
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Iowa Certificate of Authority #354056
North Carolina Certificate of Authority #C-3583

QuikTrip No. GEN3
STREET
CITY, STATE

QT

PROTOTYPE: FRYER ADDITION
DIVISION: DIVISION
VERSION: GEN 3
DATE: XXX-XX-XXXX

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: XXX-XX-XXXX

SHEET TITLE:
ELECTRICAL SCHEDULES & DETAILS

SHEET NUMBER:
E601

EXISTING MAIN DISTRIBUTION PANEL T

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		PANEL C	225	3	8,007	1	A	2	22,658					
		PANEL D	225	3	19,639	1	A	8	16,333					
		PANEL DD	225	3	24,733	15	A	14	21,667					
		EMERGENCY POWER MAIN (WITH KEYPAD INTERLOCK)	800	3	22,838	17	G	18	19,562					
		PANEL E	225	3	28,751	31	A	32	5,448					
		RTU-2	60	3	5,448	31	A	38	11,104					

PHASE A:	20,881 WATTS	CONNECTED LOAD	450,285 WATTS	NEC FEEDER LOAD	341,405 WATTS
PHASE B:	15,423 WATTS				448 AMPS
PHASE C:	13,961 WATTS				

NOTES: EXISTING PANEL SHOWN FOR REFERENCE.

EXISTING SUB PANEL G

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		TVSS	20	2	0	1	A	2	3,000					
		WATER HEATER (50)	40	2	0	3	B	4	3,000					
		WATER HEATER (50)	40	2	0	5	A	6	3,000					
		PUMPER WASHER (800)	20	1	1,080	4	A	10	2,104					
		REG. RING PUMPS (2) + H2O SOFT (50)	20	1	1,440	11	A	18	1,440					
		MDP NEUTRAL	20	2	200	14	B	20	200					
		MDP NEUTRAL	20	2	200	21	A	22	200					
		MDP NEUTRAL	20	2	200	23	B	24	200					
		MDP NEUTRAL	20	2	200	25	A	26	200					
		MDP NEUTRAL	20	2	200	27	B	28	200					
		MDP NEUTRAL	20	2	200	29	A	30	200					
		MDP NEUTRAL	20	2	200	31	B	32	200					
		MDP NEUTRAL	20	2	200	33	A	34	200					
		MDP NEUTRAL	20	2	200	35	B	36	200					
		MDP NEUTRAL	20	2	200	37	A	38	200					
		MDP NEUTRAL	20	2	200	39	B	40	200					
		MDP NEUTRAL	20	2	200	41	A	42	200					

PHASE A:	10,844 WATTS	CONNECTED LOAD	2,438 WATTS	NEC FEEDER LOAD	17,555 WATTS
PHASE B:	13,364 WATTS				85 AMPS

NOTES: EXISTING PANEL SHOWN FOR REFERENCE.

EXISTING SUB PANEL BB

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		TVSS	20	2	0	1	A	2	0					
		EXHAUST FAN 1 - TOILETS	20	1	530	1	A	2	0					
		EXHAUST FAN 2 - TOILETS	20	1	530	3	B	4	0					
		ROOFTOP RECEPTACLES (208)	20	3	1,560	1	A	8	1,560					
		2-DOOR FREEZER (904, 400)	30	3	1,642	15	A	16	1,522					
		2-DOOR FREEZER (904, 400)	30	3	1,642	17	B	18	1,522					
		SINGLES COOLER COND. (90)	30	3	2,304	19	A	20	1,956					
		SINGLES COOLER COND. (90)	30	3	2,304	21	B	22	1,956					
		SINGLES COOLER COND. (90)	30	3	2,304	23	A	24	1,956					
		SINGLES COOLER COND. (90)	30	3	2,304	25	B	26	1,956					
		ICE MAKER (91, 105) CONDENSER (CRUSHED)	25	3	2,402	31	A	32	1,935					
		ICE MAKER (91, 105) CONDENSER (CRUSHED)	25	3	2,402	33	B	34	1,935					
		SPACE	20	2	2,402	35	C	36	2,402					
		SPACE	20	2	2,402	37	A	38	2,402					
		SPACE	20	2	2,402	39	B	40	2,402					
		SPACE	20	2	2,402	41	A	42	2,402					

PHASE A:	14,562 WATTS	CONNECTED LOAD	6,284 WATTS	NEC FEEDER LOAD	41,644 WATTS
PHASE B:	14,562 WATTS				116 AMPS
PHASE C:	14,562 WATTS				

NOTES: EXISTING PANEL SHOWN FOR REFERENCE.

EXISTING SUB PANEL H

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
L 15		KITCHEN HOOD (914)	20	1	1,800	1	A	2						
L 1		EX FAN 3 - HOOD (915)	15	2	945	3	B	4						
		SPARE	20	2	345	5	C	6						
		SPARE	20	2		7	A	8	120					
		SPARE	20	2		9	B	10	180					
		SPARE	20	2		11	A	12	480					
		SPARE	20	2		13	B	14	20					
		SPARE	20	2		15	A	16	20					
		SPARE	20	2		17	B	18	786					
		TVSS	20	3	0	19	A	20						
		SPARE	20	2		21	B	22						
		SPARE	20	2		23	A	24						
R 1		OIL RECLAMATION TANK (812)	20	1	180	25	A	26	1,260					
K 12,3,4		FRY HOLD STATION (656)	20	2	1,435	21	B	28						
		SPARE	20	2	1,435	24	C	30						
		SPARE	20	1		31	A	32	696					
		SPARE	20	1		33	B	34						
		SPARE	20	1		35	C	36						
		SPARE	20	1		37	A	38	1,800					
		END CAP FLOOR COOLER (218)	20	1	540	39	B	40	4,680					
		COUNTERTOP RECEPT	20	1	180	41	C	42	4,680					
		SPARE	20	1		43	A	44	2,825					
		SPARE	20	1		45	B	46	2,825					
		SPARE	20	2	2,825	47	C	48	2,825					
		SPARE	20	2	2,825	49	A	50	2,825					
		SPARE	20	1		51	B	52						
		SPARE	20	1		53	C	54						
		SPARE (PREV. FUTURE PANINI)	30	2		55	A	56						
		SPARE	30	2		57	B	58						
		SPARE	30	2		59	C	60	180					
		PIZZA OVEN (621)	50	2	4,680	61	A	62						
		SPARE	50	2	4,680	63	B	64	120					
		SPARE	50	2	4,680	65	C	66	360					
		SPARE	50	2	4,680	67	A	68						
		SPARE	50	2	4,680	69	B	70						
		SPARE	50	2	4,680	71	C	72						
		COMBI OVEN (648)	30	3	2,150	73	A	74						
		SPARE	30	3	2,150	75	B	76						
		COMBI OVEN (648)	30	3	2,150	77	C	78						
		SPARE	30	3	2,150	79	A	80						
		SPARE	30	3	2,150	81	B	82						
		SPARE	30	3	2,150	83	C	84						

PHASE A:	28,751 WATTS	CONNECTED LOAD	12,052 WATTS	NEC FEEDER LOAD	47,326 WATTS
PHASE B:	24,405 WATTS				181 AMPS
PHASE C:	18,816 WATTS				

NOTES: *THIS PANELBOARD AND ALL CIRCUITS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. EXISTING CIRCUITS ARE SHOWN FOR REFERENCE BUT HAVE NOT BEEN FIELD-VERIFIED FOR ACCURACY. CONTRACTOR SHALL FIELD-VERIFY AND ADAPT AS REQUIRED.
 1. CIRCUIT AFFECTED BY REMODEL, RELABEL CIRCUIT AS SHOWN - HIGHLIGHTED FOR REFERENCE.
 2. PROVIDE CIRCUIT BREAKER WITH HANDLE LOCK OFF.
 3. ROUTE CIRCUIT THROUGH HOOD SUPPRESSION SHUT DOWN CONTACTOR.
 4. INSTALL OWNER-FURNISHED CURRENT TRANSFORMER TO DETECT AMP DRAW FROM EITHER OF THESE OVENS TO ENABLE HOOD FAN WIRE TO EMERSON PANEL.
 5. MAINTAIN EXISTING EQUIPMENT'S CURRENT-TRANSFORMER FOR ENABLING HOOD FAN WIRE UPON DETECTING AMP DRAW.
 6. PROVIDE GFCI CIRCUIT BREAKER OR MAINTAIN EXISTING IF ALREADY GFCI.

EXISTING SUB PANEL A

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		TVSS	20	3	0	1	A	2	10,834					
		SPARE	20	3	0	3	B	4	13,364					
		SECURITY CABINET	20	2	540	5	C	6						
		LAMP SPRINKLER	20	3	900	7	A	8	180					
		SPARE	20	3	900	9	B	10						
		ALARM SYSTEM	20	3	900	11	A	12	180					
		MULTIPLEX (504) (LEFT)	20	3	900	13	B	14	2,460					
		MULTIPLEX (504) (RIGHT)	20	3	900	17	C	18	2,460					
		MULTIPLEX (504) (RIGHT)	20	3	1,638	19	A	20	2,460					
		MULTIPLEX (504) (RIGHT)	20	3	1,638	21	B	22	2,460					
		MULTIPLEX (504) (RIGHT)	20	3	1,638	23	C							

