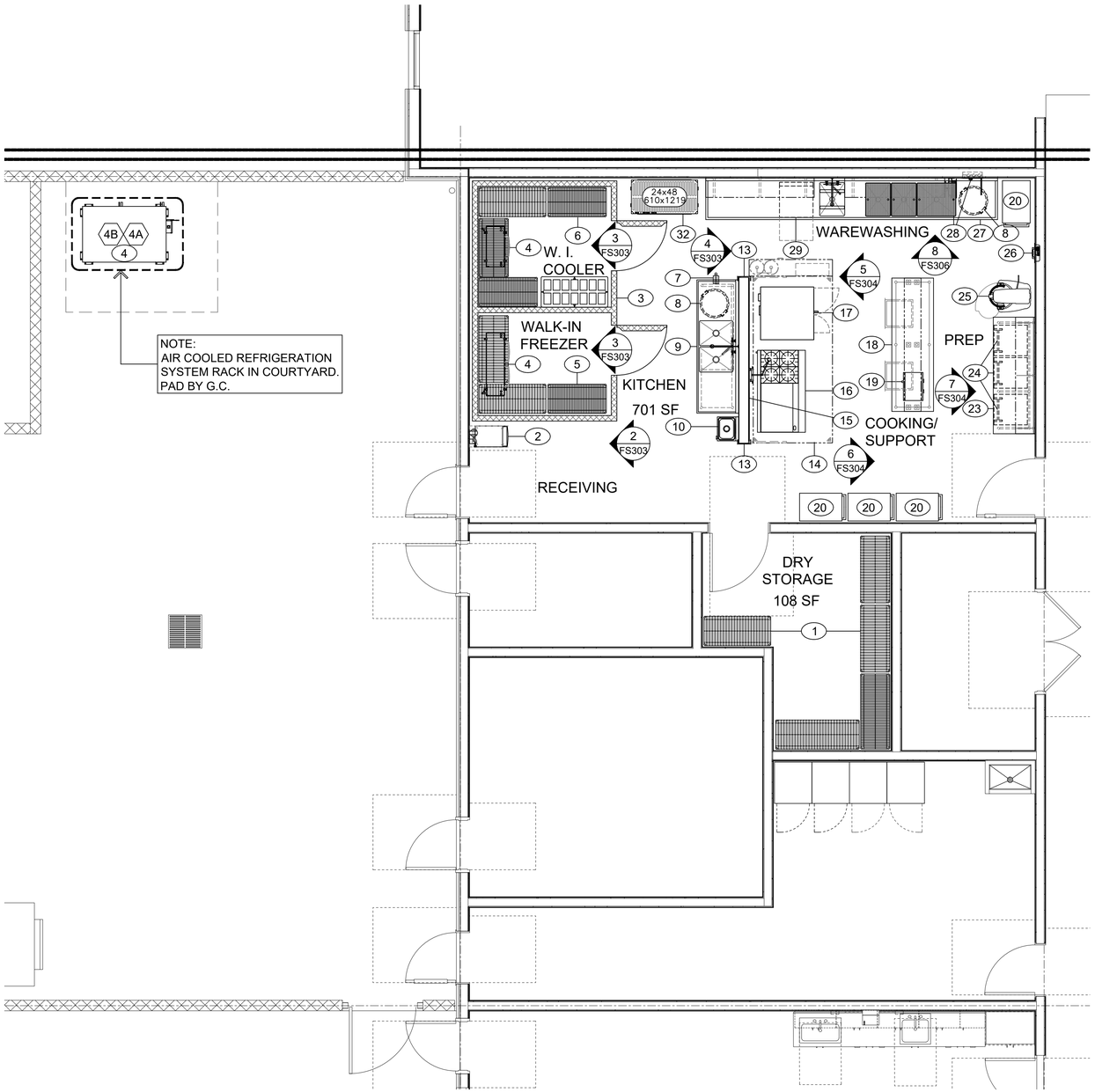
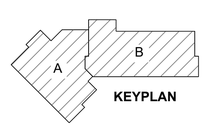


EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	QUAN.	REMARKS:
1	DRY STORAGE SHELVING	LOT	---
2	CUBE ICE MACHINE WITH BIN	1	---
3	WALK-IN COLD STORAGE ROOMS	2	---
4	REFRIGERATION SYSTEMS	2	---
5	WALK-IN FREEZER SHELVING	LOT	---
6	WALK-IN COOLER SHELVING	LOT	---
7	MANUAL CAN OPENER	1	---
8	MOBILE WASTE RECEPTACLES	2	---
9	VEGETABLE PREP SINK TABLE	1	---
10	HAND WASHING SINK	1	---
11	NOT USED	---	---
12	NOT USED	---	---
13	CHANNEL GUARDS (FULL WALL HEIGHT)	2	---
14	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
15	STAINLESS STEEL WALL FLASHING	LOT	---
16	OPEN BURNER / FLAT TOP RANGE	1	WITH FILL FAUCET
17	DOUBLE STACK CONVECTION OVENS	1	---
18	COOK'S SUPPORT ISLAND WORK TABLE	1	---
19	MICROWAVE OVEN	1	---
20	MEAL DELIVERY CARTS	4	---
21	NOT USED	---	---
22	NOT USED	---	---
23	BAKER'S SUPPORT TABLE	1	---
24	MOBILE INGREDIENT BINS	3	---
25	30-QUART MIXER	1	---
26	FOLD DOWN EYE WASH STATION	1	BY PLUMBING DIVISION
27	DISHTABLE WITH POT WASHING SINKS	1	PROVIDE SINK COVERS
28	HOSE REEL WITH RECESSED CONTROL CABINET	1	---
29	UNDERCOUNTER WAREWASHER WITH BOOSTER HEATER	1	---
30	NOT USED	---	---
31	NOT USED	---	---
32	MOBILE POT & PAN SHELVING	1	---

1 FLOOR PLAN - FOOD SERVICE EQUIPMENT
1/4" = 1'-0"

0' 2' 4' 8'



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SCALE OF 11 x 17 SHEETS IS HALF OF SCALE INDICATED

PIVOT ARCHITECTURE

HALLIDAY ASSOCIATES
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FOOD FACILITY CONSULTANTS
SPACE PLANNING • DESIGN

BID AND PERMIT SET

KLAMATH COMMUNITY COLLEGE
CHILDCARE LEARNING CENTER

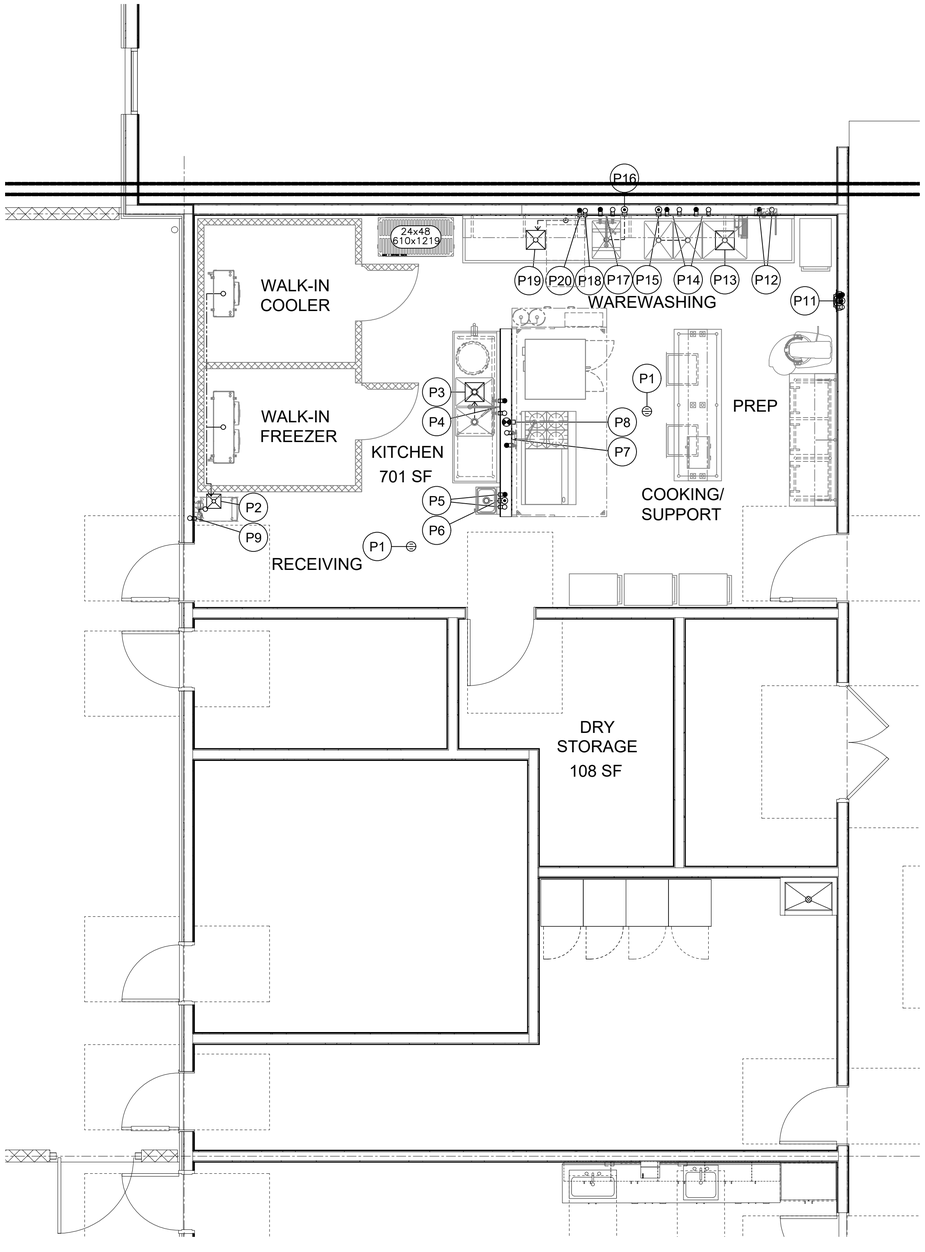
PROJECT #: 2331.00
KLAMATH COMMUNITY COLLEGE
7390 S. 6TH ST. KLAMATH FALLS, OR 97603

SHEET TITLE:
FLOOR PLAN-
FOOD SERVICE
EQUIPMENT

REVISIONS:
DESCRP. DATE

ISSUE DATE: 08/01/2025

FS101



PLUMBING SCHEDULE

ITEM NO.	P. NO.	SIZE	DESCRIPTION	LOCATION	HEIGHT	SERVICE TO :	REMARKS:
---	P1	---	FLOOR DRAIN	FLOOR	-1/2"	AREA DRAIN	---
4, 2	P2	8" x 8"	FLOOR SINK	FLOOR	0"	EVAPORATOR DRAINS AND ICE MACHINE	NO GRATE
9	P3	12" x 12"	FLOOR SINK	FLOOR	0"	(2) SINK DRAINS	NO GRATE
9	P4	1/2"	HOT & COLD	WALL	20"	SINK FAUCET	20 GPH HOT
10	P5	1/2"	HOT & COLD	WALL	20"	HAND WASHING SINK	10 GPH HOT
10	P6	1 1/2"	WASTE	WALL	22"	HAND WASHING SINK	---
16	P7	1/2"	HOT & COLD	WALL	48"	POT FILL FAUCET	20 GPH HOT
16	P8	1"	GAS	WALL	29"	OPEN BURNER / FLAT TOP RANGE	186M BTU TOTAL CONNECTION - QUICK DISCONNECT
2	P9	1/2"	COLD	WALL	60"	CUBE ICE MACHINE WITH BIN	EXTEND FILTERED WATER LINE TO ICE MACHINE
---	P10	---	NOT USED	---	---	---	---
26	P11	---	---	---	---	FOLD DOWN EYE WASH STATION	BY PLUMBING DIVISION
28	P12	1/2"	HOT & COLD	WALL	80"	HOSE REEL WITH RECESSED CONTROL CABINET	40 GPH HOT
27	P13	12" x 12"	FLOOR SINK	FLOOR	0"	SINK DRAIN	NO GRATE
27	P14	1/2"	HOT & COLD	WALL	20"	SINK FAUCETS	20 GPH HOT
27	P15	2"	WASTE	WALL	9"	(2) SINK DRAINS	---
27	P16	2"	WASTE	WALL	9"	SINK DRAIN	---
27	P17	1/2"	HOT & COLD	WALL	20"	PRE-RINSE FAUCET	50 GPH HOT
29	P18	1/2"	COLD	WALL	74"	WAREWASHER DRAIN WATER TEMPERING KIT	---
29	P19	12" x 12"	FLOOR SINK	FLOOR	0"	WAREWASHER WITH BOOSTER HEATER	NO GRATE
29	P20	3/4"	HOT @ 120°	WALL	8"	WAREWASHER WITH BOOSTER HEATER	17 GPH HOT

PLUMBING NOTES

1. THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWING PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
2. UNDER PLUMBING WORK OF DIVISION 22, MAKE ALL ROUGH-INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES. PROVIDE SHUT-OFF VALVES WITH PERMANENT NAME TAGS IDENTIFYING SUPPLY LINES TO EACH INDIVIDUAL PIECE OF EQUIPMENT. INCLUDE TRAPS, TAIL PIECES, AND LINE STRAINERS AS REQUIRED.
3. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL ALL FLOOR SINKS AND AREA DRAINS FLUSH WITH FINISHED FLOOR IF CODE ALLOWS.
4. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL GREASE TRAP OR INTERCEPTOR AS REQUIRED.
5. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL ALL EQUIPMENT WASTE LINES. USE COPPER TUBING. NO PVC PIPING IS ACCEPTABLE.
6. UNDER KITCHEN EQUIPMENT WORK OF DIVISION 11, FURNISH & INSTALL WALK-IN COLD STORAGE ROOM EVAPORATOR COPPER DRAIN LINES. TRAP AT OUTLET END.
7. UNDER KITCHEN EQUIPMENT WORK OF DIVISION 11, FURNISH AND INSTALL ALL INDIRECT WASTE LINES FROM EQUIPMENT LOCATED AT CUSTOM COUNTERS. USE COPPER TUBING. NO PVC PIPING IS ACCEPTABLE.
8. UNDER KITCHEN EQUIPMENT WORK OF DIVISION 11, PROVIDE FAUCETS AT EQUIPMENT. UNDER PLUMBING WORK OF DIVISION 22, INSTALL AND CONNECT FAUCETS.
9. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL CHROME PLATED VACUUM BREAKERS AND/OR BACK FLOW PREVENTION DEVICES ON SUPPLY LINES TO EQUIPMENT AS REQUIRED BY CODES.
10. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL WATER LINES PENETRATING COUNTER TOPS AND BACK SPLASHES.
11. UNDER PLUMBING WORK OF DIVISION 22, FURNISH PRESSURE REDUCING VALVE FOR ALL GAS AND WATER LINES. MAXIMUM WATER PRESSURE AT BOOSTER HEATER AND DISHWASHER SHALL BE 20 PSI.
12. UNDER KITCHEN EQUIPMENT WORK OF DIVISION 11, FURNISH GAS QUICK DISCONNECT ASSEMBLIES WITH CABLE RESTRAINTS FOR EACH GAS FIRED COOKING APPLIANCE.
13. UNDER PLUMBING WORK OF DIVISION 22, PROVIDE 120 DEGREE HOT WATER SUPPLY AT WAREWASHER/ BOOSTER HEATER AND HOSE REEL AS SHOWN. VERIFY REQUIRED TEMPERATURE FOR SUPPLY AT SINK FAUCETS WITH LOCAL AND NATIONAL CODES.
14. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL A SOLENOID VALVE ON PRIMARY GAS SUPPLY TO SHUT-OFF EQUIPMENT DURING FIRE SYSTEM ACTIVATION. SOLENOID SHALL BE ACCESSIBLE FOR SERVICING, TESTING, AND RESETTING IN THE EVENT OF SYSTEM ACTIVATION.
15. SEE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

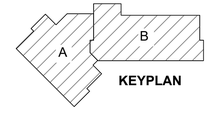
PLUMBING SYMBOL LEGEND

- COLD WATER
- HOT WATER
- WASTE
- GAS
- FLOOR DRAIN
- FLOOR SINK

1 FLOOR PLAN - FOOD SERVICE PLUMBING
1/4" = 1'-0"

N

0' 2' 4' 8'



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SPACE PLANNING ♦ DESIGN

BID AND PERMIT SET

KLAMATH COMMUNITY COLLEGE
CHILDCARE LEARNING CENTER

PROJECT #: 2331.00
KLAMATH COMMUNITY COLLEGE
7390 S. 6TH ST. KLAMATH FALLS, OR 97603

SHEET TITLE:
FLOOR PLAN- FOOD SERVICE PLUMBING

REVISIONS:

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FS102

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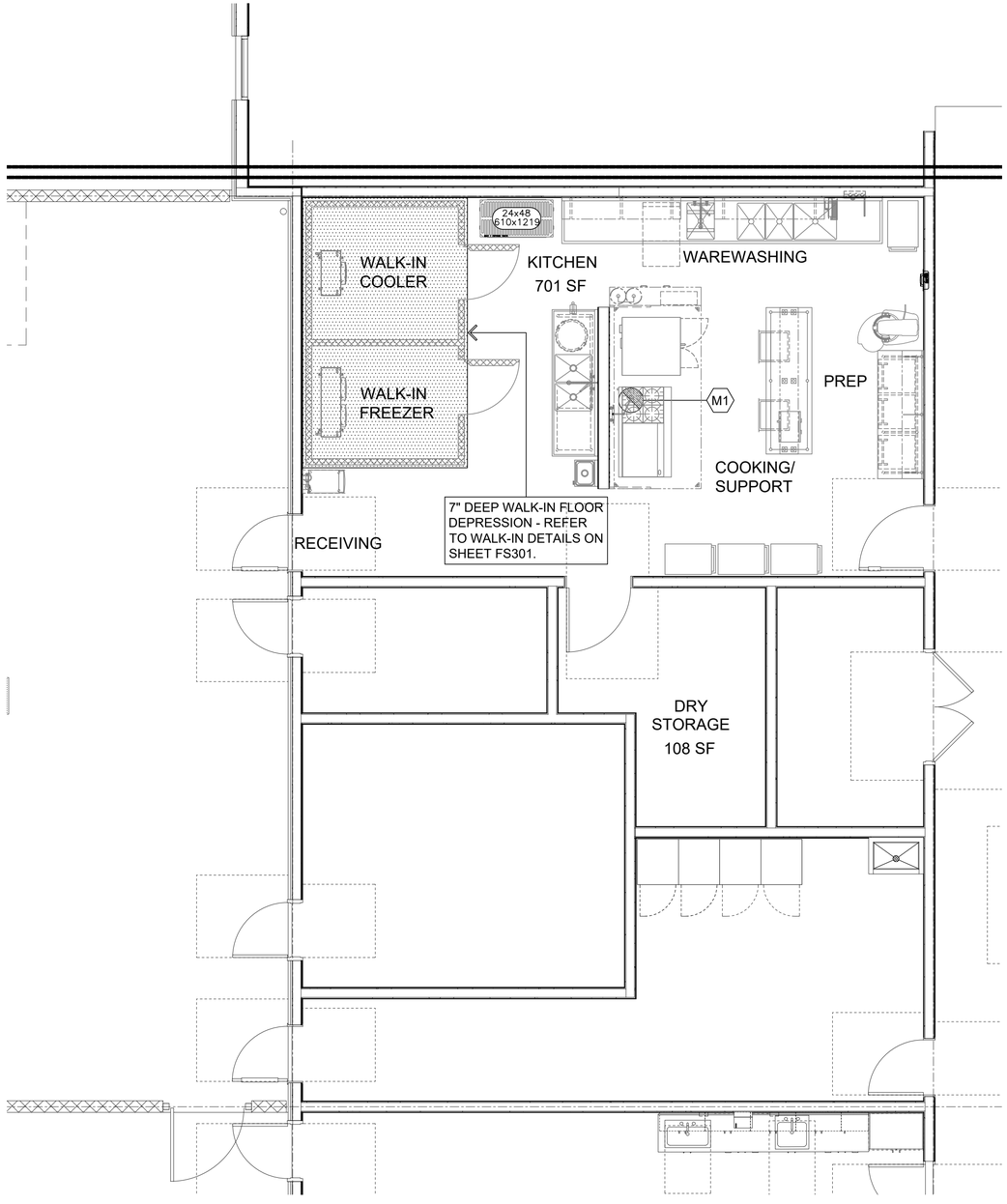


MECHANICAL NOTES

M1. ONE (1) 16" DIAMETER TYPE 1 EXHAUST DUCT CONNECTION AT CANOPY HOOD. 2,150 CFM WITH -0.672" STATIC PRESSURE AT DUCT COLLAR.

DEPRESS./MECHANICAL SYMBOL LEGEND

EXHAUST DUCT(S)

FLOOR DEPRESSION

GENERAL MECHANICAL NOTES

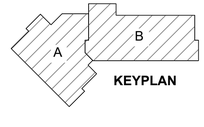
1. THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWING PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
2. CANOPY HOODS MUST BE UL LISTED AND LABELED FOR 0" CLEARANCE BY MANUFACTURER IN ACCORDANCE WITH UL 710.
3. REFER TO SHEETS FS2.1 THRU FS2.6 FOR TYPE 1 HOOD DETAILS.
4. SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

1 FLOOR PLAN - FOOD SERVICE MECHANICAL & FLOOR DEPRESSION

1/4" = 1'-0"

N

0' 2' 4' 8'



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PIVOT ARCHITECTURE

FCSI PROFESSIONAL MEMBER LAURA L. BOURLAND 700794 FACILITIES CONSULTANTS SOCIETY INTERNATIONAL

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7390 S. 6TH ST. KLAMATH FALLS, OR 97603

SHEET TITLE:
FLOOR PLAN- FOOD SERVICE MECHANICAL & FL'R. DEPRESSION

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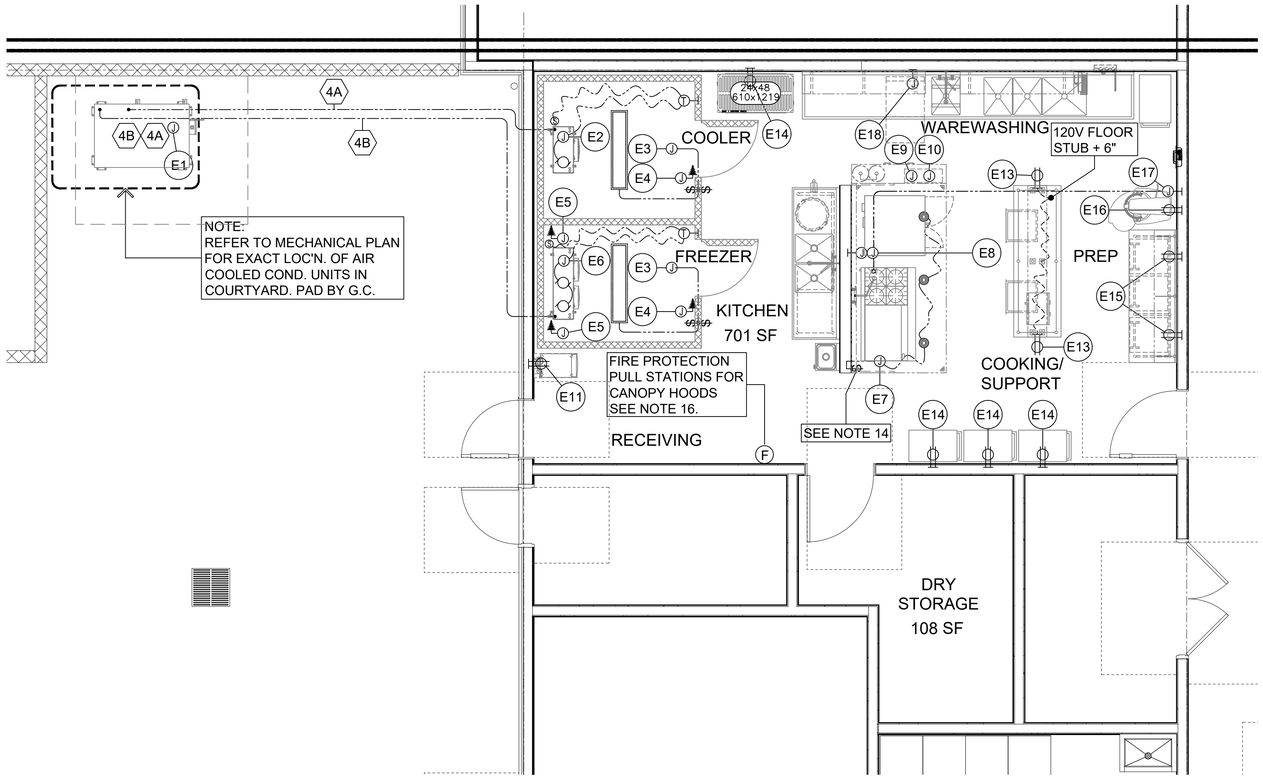


SYMBOLS

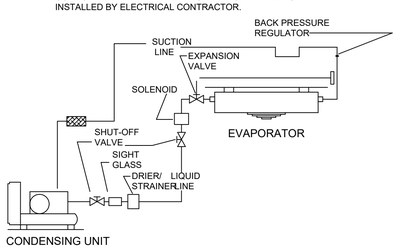
12" X 12" PULL BOX AT HEIGHT NOTED ON PLAN. MEASURED FROM FINISHED FLOOR NOT RAISED BASES. TO C OF PB. AND FLUSH WITH FIN. WALL. USE 2" O CONDUIT, DOWN, WITHIN WALL FROM ABOVE CEILING. ALL THE ABOVE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

REFRIGERATION LINE CONNECTION AT EVAP0RATOR BY KITCHEN EQUIPMENT CONTRACTOR

REFRIGERATION SYSTEM BY KITCHEN EQUIPMENT CONTRACTOR.

INSULATED REFRIGERATION LINES. RUN FROM CONDENSING UNITS AND ABOVE FINISHED CEILING BY KITCHEN EQUIPMENT CONTRACTOR

CONDUIT UNDER FLOOR SIZE AS NOTED ON PLAN FROM PB IN WALL CONDUIT SHALL HAVE 24" MINIMUM RADIUS BENDS. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.



REMOTE, NORMAL TEMP. REF'R. SCHEMATIC

NO SCALE

INCLUDE CRANKCASE HEATERS FOR ALL SYSTEMS EXPOSED TO FREEZING WEATHER.	ADD OIL SEPARATORS TO LOW TEMPERATURE SYSTEMS	ALL SYSTEMS DESIGNED FOR +90 AMBIENT

ELECTRICAL SYMBOL LEGEND

- DCO (DUPLEX CONVENIENCE OUTLET)
- J-BOX (JUNCTION BOX)
- THERMOSTAT
- SOLENOID
- MOTOR
- SWITCH(S)
- LIGHT
- FLOOR OR CEILING STUB (AS NOTED)

FIRE PROTECTION LEGEND

FIRE PROTECTION SYSTEM MANUAL PULL (F)

NOTE:
LOCATE MANUAL FIRE SUPPRESSION PULL STATION(S) PER CODES - DEVICES TO BE LOCATED A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET FROM THE KITCHEN EXHAUST SYSTEM IT SERVES. E.C. TO PROVIDE RECESSED OCTAGON BOX AND RUN EMPTY CONDUIT RECESSED IN BUILDING WALLS TO FIRE SUPPRESSION CONTROL HEAD. MINIMUM 12" RADIUS BENDS IN ANY CHANGE OF DIRECTION. SET PULL STATION BOX @ +48" A.F.F. TO CENTERLINE. TYPICAL ALL LOCATIONS

ELECTRICAL NOTES

1. THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWINGS PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
2. UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE ALL ROUGH-INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES.
3. HOOD LIGHTS ARE FURNISHED UNDER KITCHEN EQUIPMENT, DIVISION 11. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL SWITCHES AND FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING CONCEALED FROM SIGHT.
4. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING WIRING ACROSS CEILING AS REQUIRED BETWEEN HOODS AND HOOD FIRE CONTROL PANEL.
5. WALK-IN COLD STORAGE ROOMS, LIGHTS, AND CEILING MOUNT EVAPORATORS ARE FURNISHED AND INSTALLED UNDER KITCHEN EQUIPMENT, DIVISION 11. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING ABOVE CEILING CONCEALED FROM SIGHT.
6. ALL ELECTRICAL RECEPTACLES SHALL BE MOUNTED HORIZONTALLY ON FIXTURES AND WALLS.
7. ALL EVAPORATOR MOTOR CONNECTIONS SHALL BE MADE WITH CONDUIT TO A J-BOX. PLUG-IN TYPE CONNECTIONS WILL NOT BE ACCEPTED.
8. COLD STORAGE ROOM EVAPORATOR DRAIN LINE HEAT TAPE FOR ALL DRAIN LINES RUNNING THRU FREEZERS ARE TO BE FURNISHED AND INSTALLED UNDER KITCHEN EQUIPMENT, DIVISION 11.
9. REFRIGERATION LINES SHOWN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED TO FIT BUILDING CONDITIONS.
10. UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE ALL DISCONNECTS, INTERLOCKS, AND CONTACTORS REQUIRED BY LOCAL CODES.
11. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL SHUNT TRIP CIRCUIT BREAKERS TO SHUT OFF POWER SUPPLY TO ALL ELECTRICAL COOKING EQUIPMENT DURING FIRE SYSTEM ACTIVATION.
12. UNDER WORK OF KITCHEN EQUIPMENT, DIVISION 11, FURNISH AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL ELECTRICAL CONNECTIONS PENETRATING COUNTER TOPS FOR BELOW COUNTER PLUG-INS.
13. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING WIRING BETWEEN WAREWASHER CONTROL PANEL AND EXHAUST FAN FOR AUTO FAN ON/OFF DURING EQUIPMENT OPERATION. SET FAN TO CONTINUE TO RUN AN EXTRA 20 MINUTES AFTER WAREWASHER IS TURNED-OFF.
14. UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE POWER TO HOOD CONTROL CIRCUIT AND EXHAUST FAN ON ROOF-INTERLOCK WITH MAKE-UP AIR SUPPLY UNIT PER PER MECHANICAL ENG. PLANS. INTERCONNECT WALL SWITCH VIA CAT5 CABLE TO HOOD DCV PANEL TO CONTROL HOOD LIGHTS, FAN, AND GAS RESET (IF APPLICABLE - SWITCH FURNISHED BY HOOD MANUFACTURER TO BE INSTALLED @ 48" ABOVE FINISHED FLOOR.
15. REFRIGERATION SMART SYSTEM CONTROLLER, FURNISHED BY DIVISION 11, SHALL MONITOR WALK-IN EVAPORATORS & CONDENSING UNITS. UNDER ELECTRICAL WORK OF DIVISION 26 PROVIDE POWER FROM EVAPORATOR COILS USING 24V 18 GA. LOW VOLTAGE WIRING. FOR OPTIONAL MONITORING CONNECTIVITY CAT5/6e CABLE (ETHERNET) PROVIDE BY G.C. FOR INTERCONNECTIVITY TO BUILDING NETWORK SYSTEM.
16. UNDER KITCHEN WORK OF DIVISION 11 LOCATE MANUAL FIRE SUPPRESSION PULL STATION PER CODES. PROVIDE RECESSED OCTAGON BOX AND RUN EMPTY CONDUIT RECESSED IN BUILDING WALL (NO EXPOSED CONDUIT ACCEPTABLE) TO FIRE SUPPRESSION CONTROL HEAD. MINIMUM 12" RADIUS BENDS IN ANY CHANGE OF DIRECTION. SET PULL STATION BOX @ +48" A.F.F. TO CENTER LINE.
17. UNDER ELECTRICAL WORK OF DIVISION 26 RUN ALL EXPOSED CONDUIT IN STAINLESS STEEL SLEEVES.

ELECTRICAL SCHEDULE

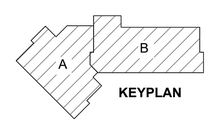
ITEM NO.	E.NO.	VOLTS	PH	DESCRIPTION	LOC'N.	HEIGHT	SERVICE TO :	RATING	REMARKS
4	E1	208	3	J-BOX	ROOF	---	WALK-IN REFRIGERATION RACK	23. 4 AMPS	MINIMUM REQ'S. SYSTEMS A & B. MOPD = 35 AMPS TOTAL
4	E2	120	1	J-BOX	CEILING	---	WALK-IN COOLER EVAPORATOR	0. 9 AMPS	SYSTEM A
3	E3	120	1	J-BOX	CEILING	---	WALK-IN LIGHT	80 W	---
3	E4	120	1	J-BOX	CEILING	---	WALK-IN DOOR HEATER	50 W	EACH DOOR
3	E5	120	1	J-BOX	CEILING	---	WALK-IN FREEZER DRAIN LINE HEATER	500 W	---
4	E6	208	1	J-BOX	CEILING	---	WALK-IN FREEZER EVAPORATOR	10. 1 AMPS	SYSTEM B - SMART DEFROST
14	E7	120	1	J-BOX	CEILING	---	(3) CANOPY HOOD LIGHTS & FAN CONTROLS	---	POWER FROM DCV (E9)
17	E8	208	1	J-BOX (STACKED)	WALL	9" 41"	DOUBLE STACK CONVECTION OVENS	10. 4 KW	EACH OVEN.
14	E9	120	1	J-BOX	WALL	48"	DCV HOOD CONTROL SYSTEM	15 AMPS	CONTROLS DCV, LIGHTS/FANS, AND FIRE PROTECTION SYSTEM
14	E10	120	1	J-BOX	CEILING	---	FIRE PROTECTION SYSTEM	---	POWER FROM DCV (E9)
2	E11	120	1	DCO	WALL	18"	CUBE ICE MACHINE WITH BIN	8 AMPS	FURNISHED WITH NEMA 5-15P
---	E12	---	--	NOT USED	---	---	---	---	---
---	E13	120	1	DCO	FIXTURE	34"	CONVENIENCE	1440 W	DEDICATED OUTLET. EXTEND FROM FLOOR STUB
---	E14	120	1	DCO	WALL	18"	CONVENIENCE	1440 W	DEDICATED OUTLET
---	E15	120	1	DCO	WALL	48"	CONVENIENCE	1440 W	DEDICATED CIRCUIT
25	E16	120	1	J-BOX	WALL	44"	30-QUART MIXER	9. 5 AMPS	FURNISHED WITH NEMA 5-15P
14	E17	SGL. GANG		J-BOX	WALL	48"	CANOPY HOOD ROOM SENSOR CONTROL	---	WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE
29	E18	208	1	J-BOX	WALL	10"	WAREWASHER WITH BOOSTER HEATER	25. 9 AMPS	MINIMUM CIRCUIT REQUIRED

1 FLOOR PLAN - FOOD SERVICE ELECTRICAL AND REFRIGERATION

1/4" = 1'-0"

N

0' 2' 4' 8'



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7390 S. 6TH ST. KLAMATH FALLS, OR 97603

SHEET TITLE:

FLOOR PLAN- FOOD SERVICE ELECTRICAL AND REFRIGERATION

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HOOD INFORMATION – JOB#7598576

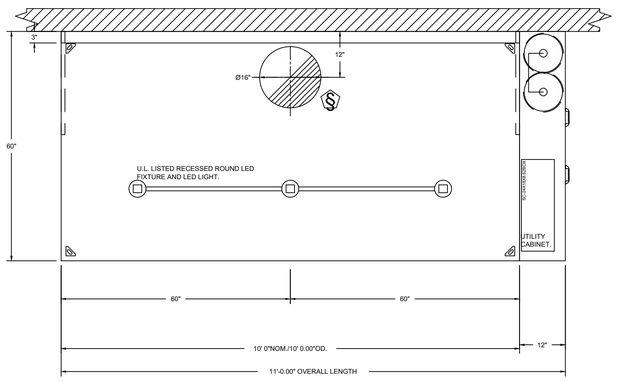
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	14	6030 ND-2	CAPTIVEAIRE	10' 0"	600 DEG	I	HEAVY	215	2150			4"	16"	2150	1540	-0.672"	304 SS 100%	ALONE	ALONE

HOOD INFORMATION

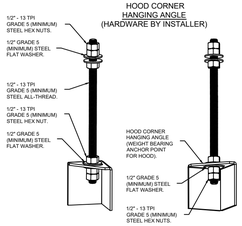
HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
												FIRE SYSTEM		ELECTRICAL	SWITCHES		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY		
1	14	CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x60"x30"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	949 LBS
2	Dish						0									NO	135 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	14	FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.

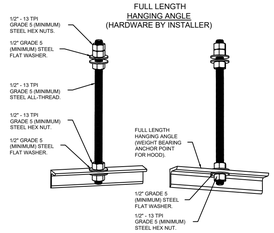


PLAN VIEW – HOOD #1 (14)
10' 0.00" LONG 6030ND–2



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

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SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

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

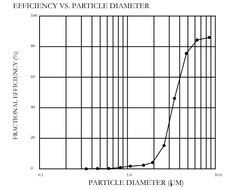
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

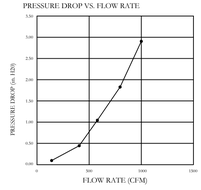
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



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

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	"CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	0"

- "0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
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Klamath Falls CC r1
KLAMATH FALLS, OR, 97603

DATE: 6/23/2025

DWG.#: 7598576

DRAWN BY: CJ - APP/85

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 1

PIVOT ARCHITECTURE
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FAX 360 – 834 – 5433
FOOD FACILITY CONSULTANTS
SPACE PLANNING ♦ DESIGN

BID AND PERMIT SET

KLAMATH COMMUNITY COLLEGE
CHILDCARE LEARNING CENTER

PROJECT #: 2331.00
KLAMATH COMMUNITY COLLEGE
7390 S. 6TH ST. KLAMATH FALLS, OR 97603

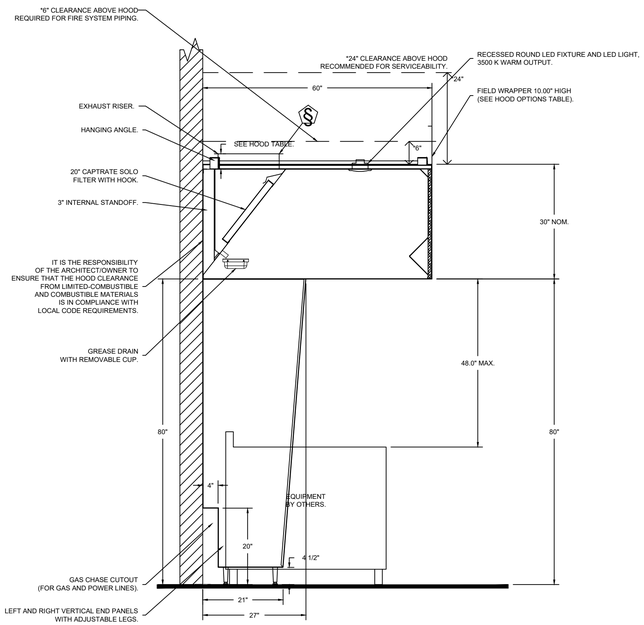
SHEET TITLE:
DETAILS - FOOD SERVICE CANOPY HOOD DETAILS

REVISIONS:
DESCRP. DATE

ISSUE DATE: 08/01/2025

FS201

1 DETAILS - FOOD SERVICE CANOPY HOOD DETAILS
NO SCALE



SECTION VIEW – MODEL 6030ND-2
HOOD – #1 (14)

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

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Klamath Falls CC r1
KLAMATH FALLS, OR, 97603

DATE: 6/23/2025

DWG.#: 7598576

DRAWN BY: CJ - APP/85

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

MASTER DRAWING

SHEET NO. 2

1 DETAILS - FOOD SERVICE CANOPY HOOD DETAILS
NO SCALE

PIVOT
ARCHITECTURE ■

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FS202

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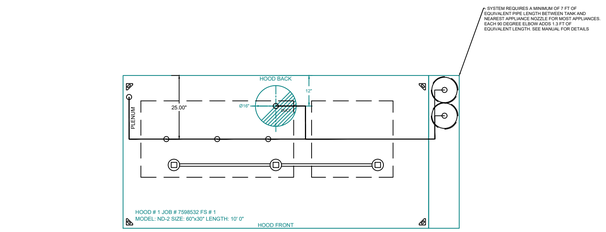
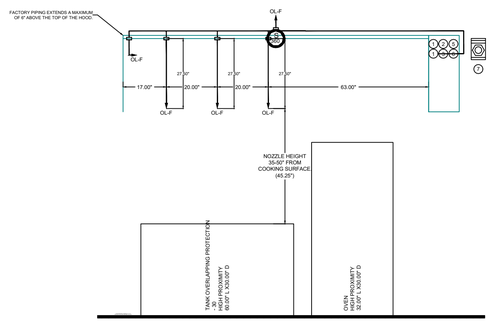
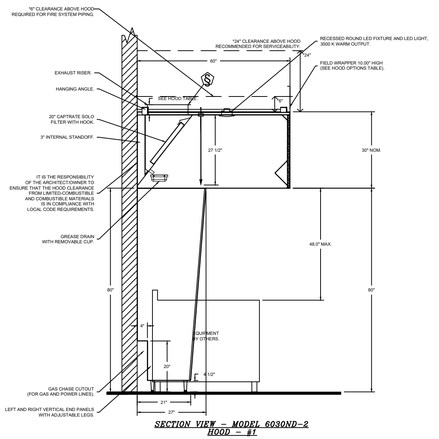
SCALE OF 11 x 17 SHEETS IS HALF OF SCALE INDICATED







SECTION VIEW – MODEL 6030ND-2 HOOD – #1

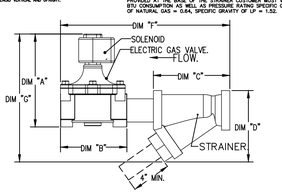
GAS VALVES AND STRAINERS

GAS VALVE SIZING						GAS VALVE DIMENSIONS							INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS@1	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,046 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4417K68	(SC)EGVA2

ELECTRIC GAS VALVES ONLY-SOLENOID ORIENTATION
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED IN ANY POSITION AT OR ABOVE HORIZONTAL. 2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT. 240VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 7598532
JOB NAME: KLAMATH FALLS CC.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 23. MAXIMUM FP: 40.
HOOD # 1 10' 0.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

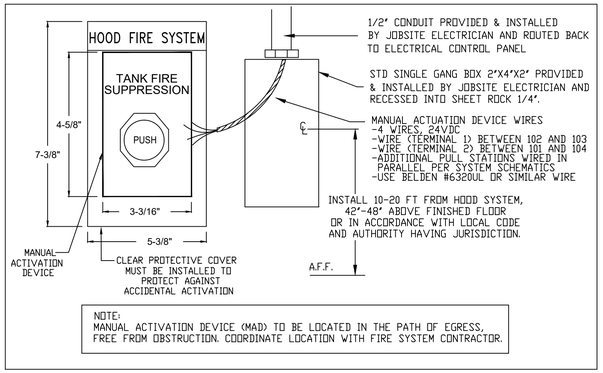
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

TANK MANUAL ACTIVATION DEVICE DETAIL



NOTE:
MANUAL ACTIVATION DEVICE (MAD) TO BE LOCATED IN THE PATH OF EGRESS, FREE FROM OBSTRUCTION. COORDINATE LOCATION WITH FIRE SYSTEM CONTRACTOR.

FIRE SYSTEM INFORMATION – JOB#7598576

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	KHFS-1	TANK FS	4.0/4.0	40	23	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

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

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
1	KHFS-1	0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 986944115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

1 DETAILS - FOOD SERVICE CANOPY HOOD DETAILS
NO SCALE

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SCALE OF 11 x 17 SHEETS IS HALF OF SCALE INDICATED

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3		
4		

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Klamath Falls CC r1
KLAMATH FALLS, OR, 97603

DATE: 6/23/2025
DWG.#: 7598576
DRAWN BY: CJ - APP/85
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO. 3

PIVOT ARCHITECTURE ■

LAURA L. BOURLAND
FCS 700794
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FOOD FACILITY CONSULTANTS
SPACE PLANNING ● DESIGN

BID AND PERMIT SET

KLAMATH COMMUNITY COLLEGE
CHILDCARE LEARNING CENTER

PROJECT #: 2331.00
KLAMATH COMMUNITY COLLEGE
7390 S. 6TH ST. KLAMATH FALLS, OR 97603

SHEET TITLE:
DETAILS - FOOD SERVICE CANOPY HOOD DETAILS

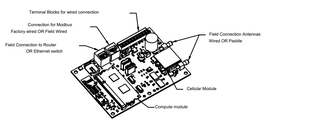
REVISIONS:
DESCRP. DATE

ISSUE DATE: 08/01/2025

FS203

ELECTRICAL PACKAGE – JOB#7598576

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1	KECP-1	DCV-1111	UTILITY CABINET RIGHT	SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS DCV	EXHAUST	3	1.500	208	4.4
							SUPPLY	3	2.000	208	6.1



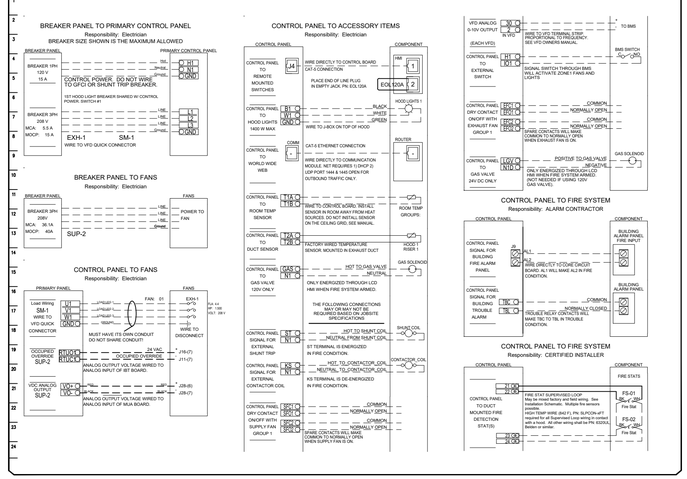
CASLink Monitor and Control

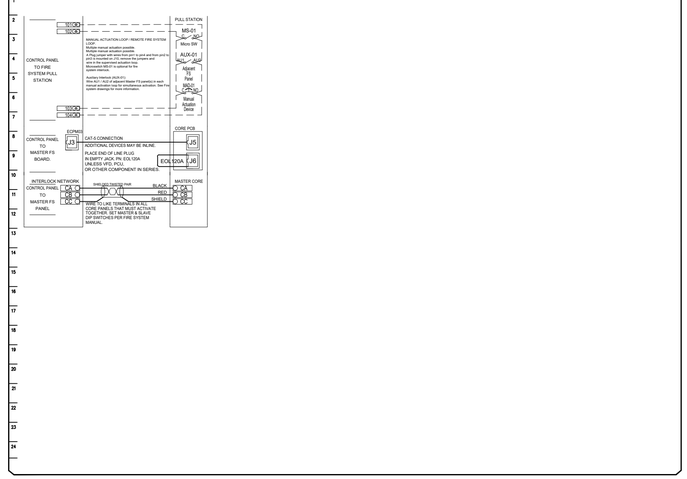
- *Hood control panel to support communications to cloud-based Building Management System.*
- *Hood Control Panel to allow cloud-based Building Management System to monitor the following CONTROL and MONITORING points list.*
- *Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.*

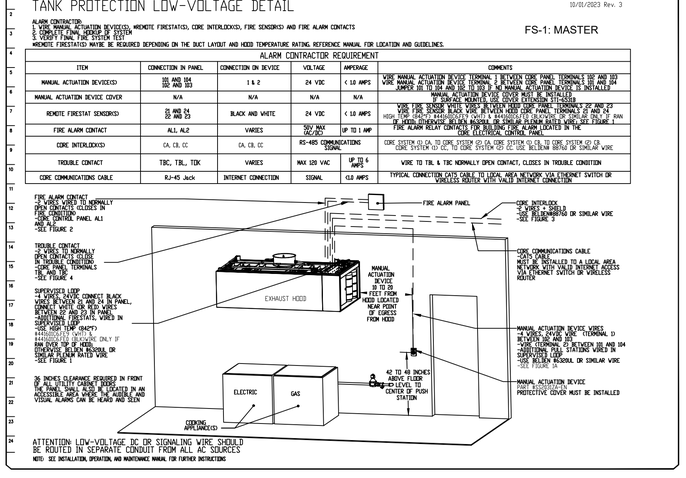
MONITORING AND CONTROL POINTS LIST

DCV Packages	Function.
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCC Faults	MONITOR
PCC Filter Clog Percentages	MONITOR
Fire Condition.	MONITOR
CORE Fire System.	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

DC Packages	Function.
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Condensate Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCC Faults	MONITOR
PCC Filter Clog Percentages	MONITOR
Fire Condition.	MONITOR
CORE Fire System.	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL







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DRAWN BY: CJ - APP/85

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SHEET NO. 4

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KLAMATH COMMUNITY COLLEGE
CHILDCARE LEARNING CENTER

PROJECT #: 2331.00
KLAMATH COMMUNITY COLLEGE
7390 S. 6TH ST. KLAMATH FALLS, OR 97603

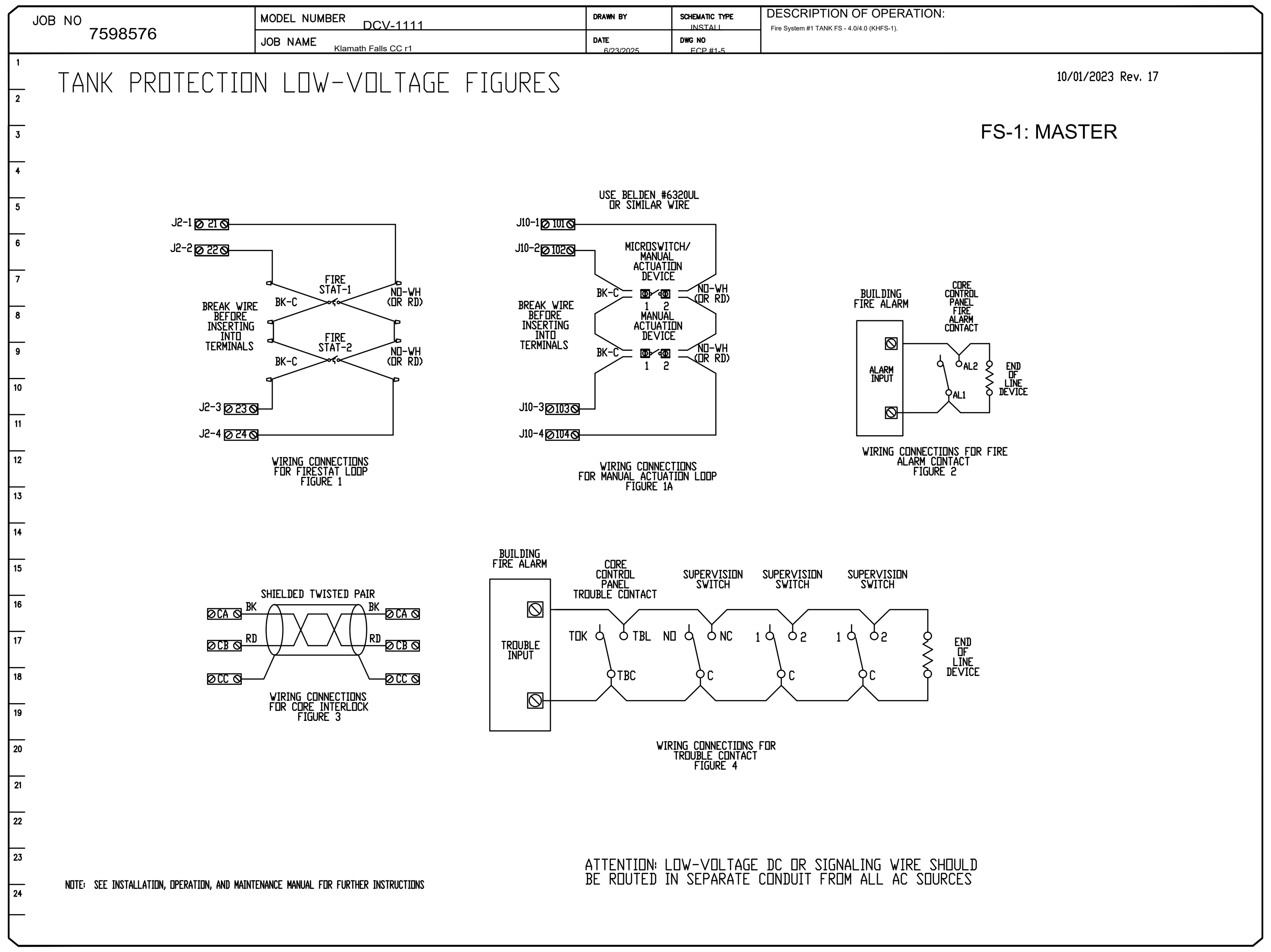
SHEET TITLE:
DETAILS - FOOD SERVICE CANOPY HOOD DETAILS

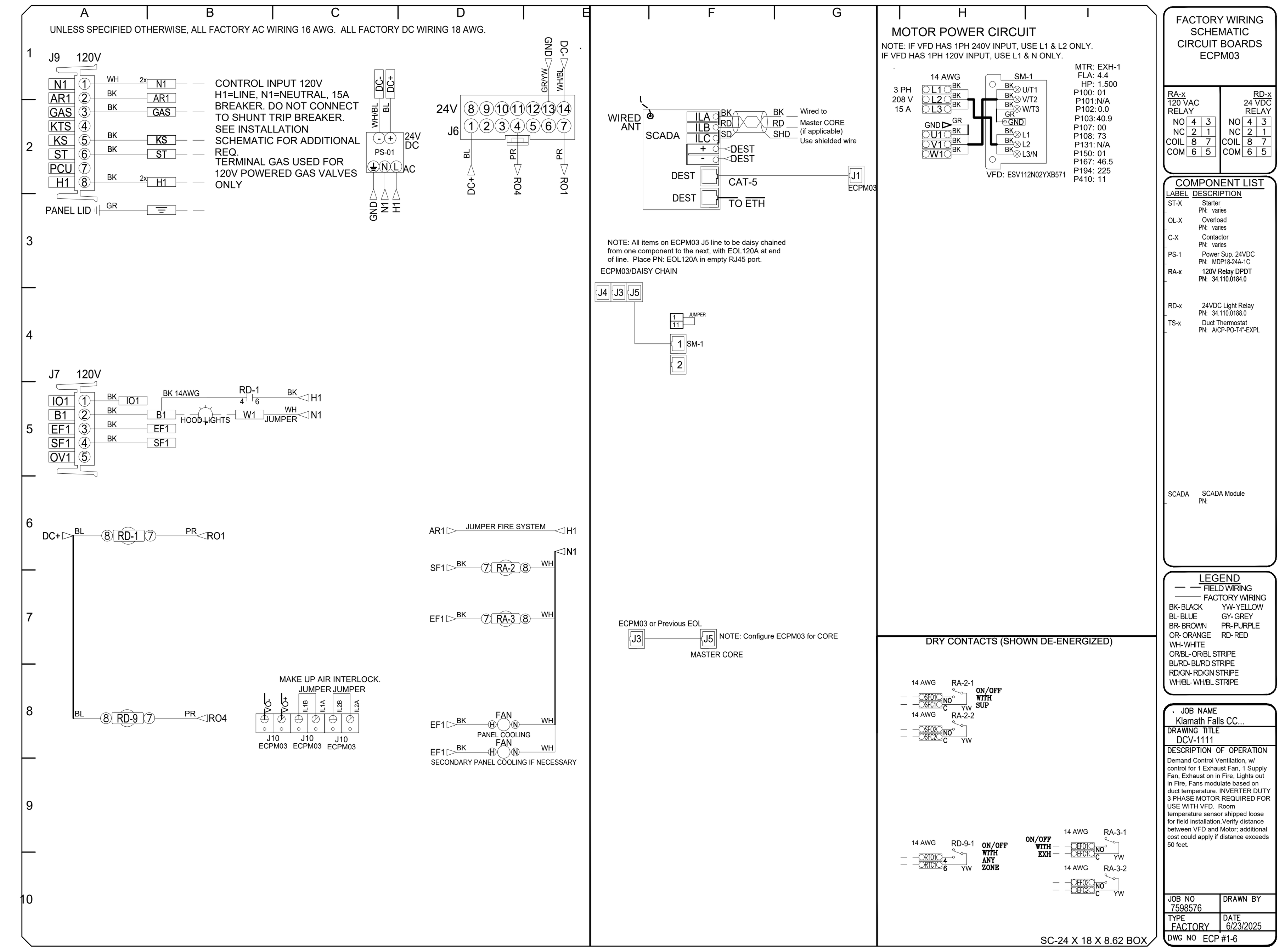
REVISIONS:

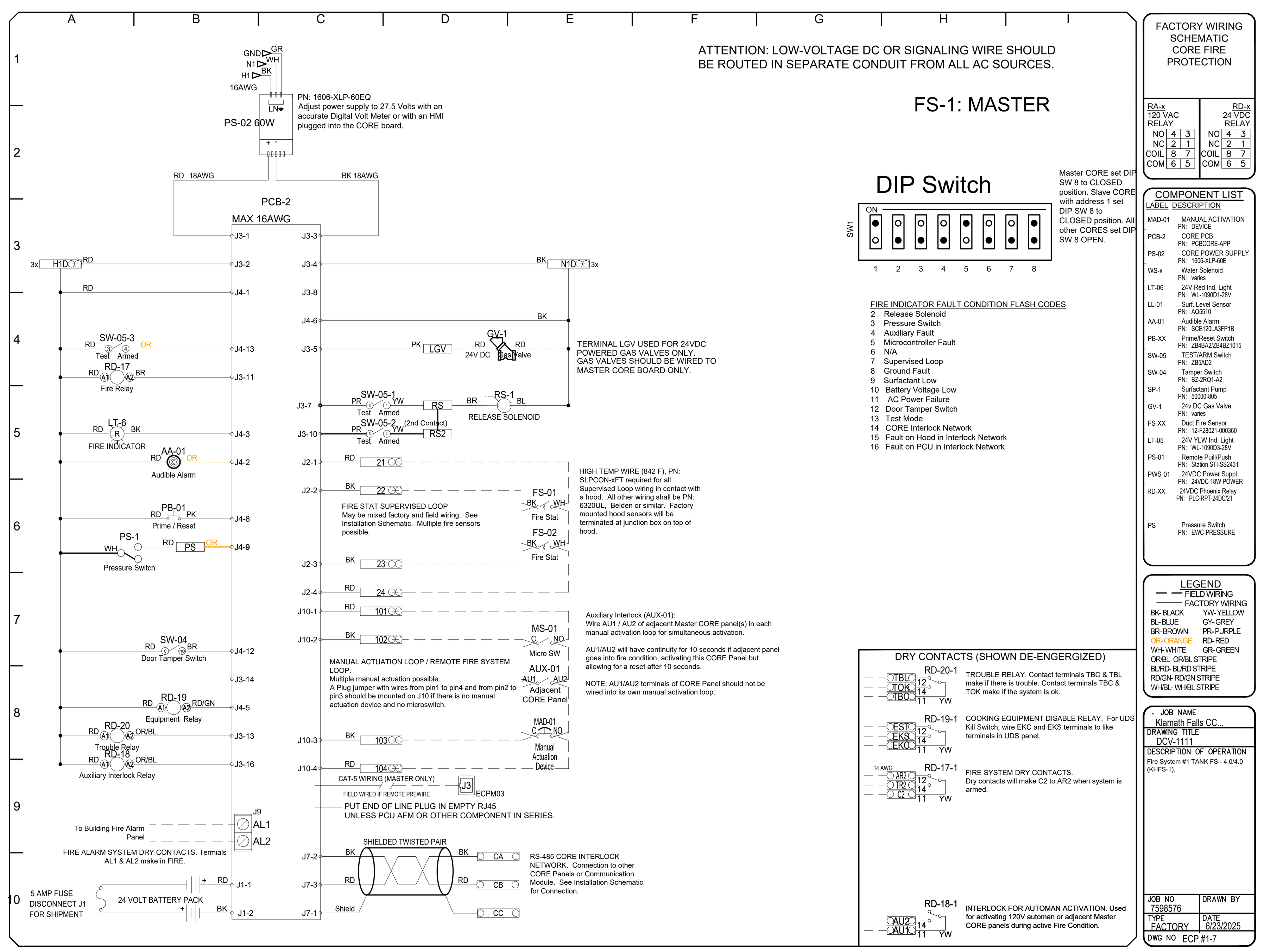
#	DESCRP.	DATE

ISSUE DATE: 08/01/2025

FS204







1 DETAILS - FOOD SERVICE CANOPY HOOD DETAILS

NO SCALE

REVISIONS

DESCRIPTION	DATE

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Klamath Falls CC r1

KLAMATH FALLS, OR, 97603

DATE: 6/23/2025

DWG.#: 7598576

DRAWN BY: CJ - APP/85

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

MASTER DRAWING

SHEET NO. 5

PIVOT ARCHITECTURE

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FOOD FACILITY CONSULTANTS
SPACE PLANNING • DESIGN

BID AND PERMIT SET

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SCALE OF 11 x 17 SHEETS IS HALF OF SCALE INDICATED

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).

- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.

- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.

- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.

- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.

- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.

- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.

- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.

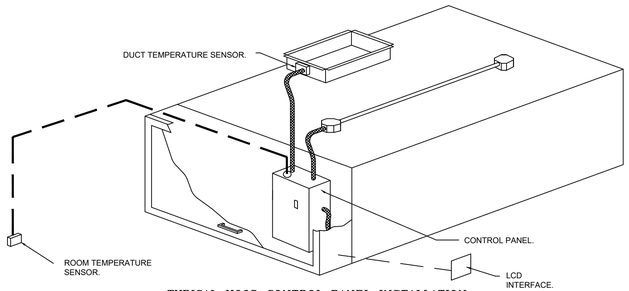
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.

- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.

- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.

- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).

- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).

- MANUAL:THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.

- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.

- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).

- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

1 DETAILS - FOOD SERVICE CANOPY HOOD DETAILS
NO SCALE

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1		
2		
3		
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Klamath Falls CC r1
KLAMATH FALLS, OR, 97603

DATE: 6/23/2025

DWG.#: 7598576

DRAWN BY: CJ - APP/85

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

MASTER DRAWING

SHEET NO. 6

PIVOT ARCHITECT

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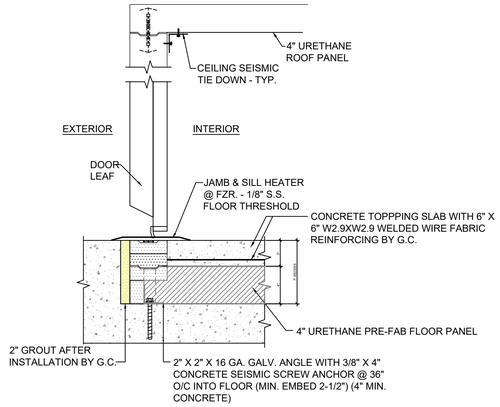
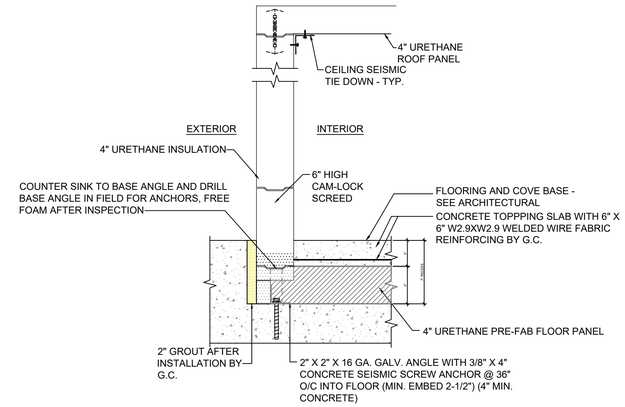


A DOOR/FLOOR SECTION
NO SCALE



B WALL/FLOOR SECTION
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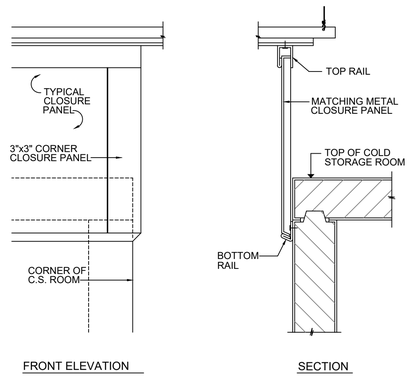
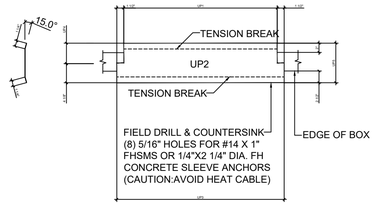


C CLOSURE PANEL DETAILS
NO SCALE

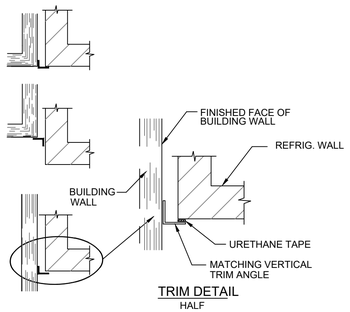
WALK-IN NOTES

1. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR FINISHED FLOOR MATERIAL AT INTERIOR AND EXTERIOR OF WALK-IN COLD STORAGE ROOMS.
2. WALL, CEILING, AND DOOR INSULATION SHALL BE AT LEAST R-25 FOR COOLERS AND R-32 FOR FREEZERS. FREEZER FLOOR INSULATION SHALL BE AT LEAST R-28. NOTE: SPECIFIED 4" INSULATED WALL PANELS ARE TO HAVE AN R-VALUE OF 8.06 PER INCH WITH A TOTAL MINIMUM 32.26 R VALUE.



NOTE: DUE TO CONSTRUCTION VARIABLES SEAL THRESHOLD/ JAMB W/SILICONE

D THRESHOLD DETAILS
NO SCALE



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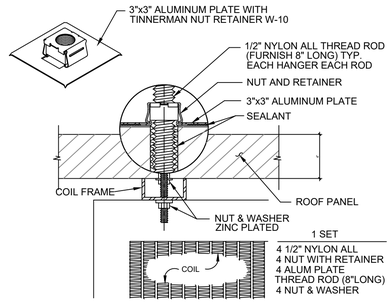
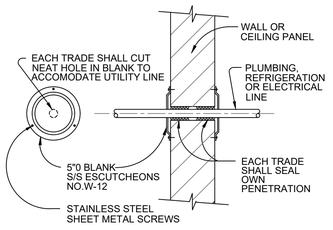


RODS WASHER NUTS & ALUMINUM PLATES WITH NUT RETAINER SHALL BE SIGNED OVER TO JOB SUPERINTENDENT. ACTUAL INSTALLATION OF PARTS SHALL BE RESPONSIBILITY OF THE MECHANICAL REFRIGERATION CONTRACTOR.

F NYLON ROD COIL HANGER DETAIL
NO SCALE



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1 DETAILS - FOOD SERVICE WALK-IN DETAILS
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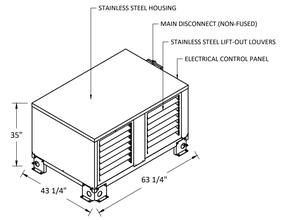
FS301

MODEL NO. ZS1-02Z-CT3-EST OUTDOOR AIR COOLED REFRIGERATION SYSTEM



NOTE:
- CRANKCASE HEATERS
- FAN CYCLING SWITCH
- HEADMASTER CONTROLS (MEDIUM TEMP)
- PHASE LOSS MONITOR

RACK WEIGHT: 500 LBS.

ENGINEERING SUMMARY

POWER SUPPLY: 208-230/60/3
CONNECTED LOAD: 20.4 AMPS

MOPD: 35 AMP
MINIMUM CIRCUIT AMPACITY: 23.4

SYSTEM	ITEM #	DESCRIPTION	FIXTURES TEMP °F EVAT.	FIXTURES TEMP °F SUCT.	REQ'D FIXTURE BTU/H	REFRIG.	CONDENSING UNIT COMPRESSOR MODEL NO.	RATING @ 60 HZ RLA	V	PH	BTU CAP @ AMB °F 95	TYPE	REC. CAP. (lbs)	CONDENSER	EVAPORATOR COILS ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ RLA	V	PH	HEATERS @ 60 HZ RLA	V	PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	CONTROLLER QTY.	ACCESSORIES TSTAT	SOL. VALVE	EXP. VLV.	CHECK VLV.	SIGHT-GLASS / MOIS.	REFRIGERANT LINE SIZES (IN) SUCT.	SUCT. RISER	LIQUID	LINE RUN (FT)	TYPE	TOTAL SYSTEM LOAD
A	-	W/I COOLER	35	25	6941	454A	YB07KAE	6.6	208	3	8750	Z	14.0	L1R	-	BEL0060	1	0.9	115	1				O.C.	ECOSMART	1	F	F	EF	L	L	5/8	5/8	3/8	100	M	6.6
B	-	W/I FREEZER	-10	-20	7291	454A	YF10KAE	13.8	208	3	12900	Z	26.0	L2R	-	BEL0100	1	1.0	208	1	9.1	208	1	ELEC	ECOSMART	1	F	F	EF	L	L	7/8	7/8	3/8	100	M	13.8

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

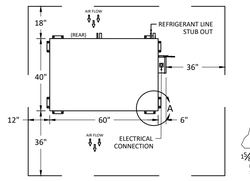
COMPRESSOR TYPE
Z SCROLL
H HERMETIC
S SEMI-HERMETIC
D DISCUS

DEFROST TYPE
O.C. OFF CYCLE
ELEC ELECTRIC

LINE TYPE
M MAIN - UP TO 100'
B BRANCH - UP TO 50'
T TRUNK - UP TO 200'

EVAPORATOR ACCESSORIES
EF EEV FACTORY EQUIPPED ON EVAP
TF TXV FACTORY EQUIPPED ON EVAP
F FACTORY EQUIPPED ON EVAP
O PROVIDED BY OTHERS
L LOOSE (FIELD INSTALLATION)

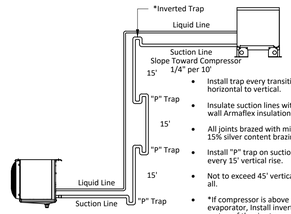
PLANVIEW/ CLEARANCE REQUIREMENTS



NOTE: MINIMUM CLEARANCE REQUIRED FOR PROPER OPERATION

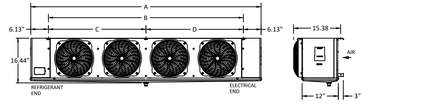
NOTE: ROOF CURB OR GROUND PAD CAN BE SAME SIZE AS OUTDOOR UNIT

SUCTION LINE VERTICAL RISE DETAIL



- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

EVAPORATOR DETAILS - MODEL BEL



AIR DEFROST Size	DIMENSIONS A	B	C	D	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps 115V	208V
	Inches	Inches	Inches	Inches							
060	29-1/2	17-1/4	-	-	1/2 OD	5/8 OD	1/4 MPT	36	1	0.9	0.5

ELECTRIC DEFROST	DIMENSIONS A	B	C	D	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/1
	Inches	Inches	Inches	Inches									
100	45-1/2	33-1/4	-	-	1/2 OD	7/8 OD	3/4 MPT	59	2	1.0	9.1	5.7	4.6

EACH EVAPORATOR COIL:
- EQUIPPED WITH TWO LEAK SENSORS, PRE-MOUNTED AND PRE-WIRED
- SUPPLIED WITH A LIQUID LINE SHUT-OFF VALVE AND SUCTION LINE CHECK VALVE, SHIPPED LOOSE FOR FIELD INSTALL OUTSIDE OF COMPARTMENTS AND NO MORE THAN 10' FROM EVAPORATOR COIL.

ZS SERIES ENGINEERING SPECIFICATIONS

Multi compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "ZS", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75168. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System
The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact powder coated steel frame. The entire housing shall be brushed stainless steel. The unit shall include an air-cooled aluminum fin copper tube condenser designed to operate at 15 degrees TD. The exterior housing shall feature stainless steel one piece louvers. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. The condenser intake surface shall be protected with stainless steel expanded metal guard to protect against vandalism and hail damage.

Each unit shall be equipped with a ball-bearing fan motor, suction filter, sight glass, liquid filter/drier, liquid line inlet and outlet valve, defrost cycle and high pressure super-hose connections. Each unit shall be equipped with fan cycling controls and/or head pressure regulator where required for low ambient conditions.

Condensing unit shall contain scroll, hermetic, semi-hermetic, and/or discus type compressor(s) assembled to operate with the refrigerant specified for both medium and low temperature applications.

2. Evaporator Coils
A. Evaporator coils shall be direct expansion type fabricated of copper tubes with aluminum fins.
B. All evaporator coils shall be provided with solenoid valve, thermostatic or electronic expansion valve and thermostat.

3. Pre-Piping
All refrigerant lines shall be extended to outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps.

All joints must be brazed, not soldered.

All piping and controls shall be factory pressure-tested with dry nitrogen.

4. Control Panel
The package shall have a factory-mounted and pre-wired control panel, with main disconnect (non fused) where required, circuit breakers, contactors wired for single point power connection.

General Information
Contractors shall verify all dimensions onsite and coordinate with other trades.

General contractor shall prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor
All copper tubing to be refrigerant grade. A.C.R. or type "L".

Brazing should be used for all refrigerant piping. Silver solder or soft solder is not acceptable.

All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi.

The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation.

Contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor. Seal all penetrations through the walk-in units with foam.

Electrical Contractor
Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram.

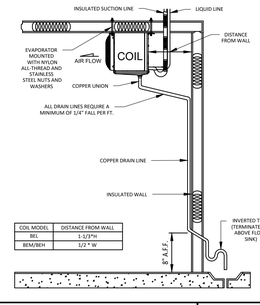
Electrical contractor to connect drain-line heater in the freezer.

All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Seal all penetrations through the walk-in units with foam.

Plumbing Contractor
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air.

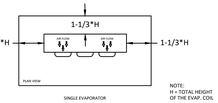
All plumbing installation shall be in accordance with local codes.

EVAPORATOR MOUNTING DETAIL (TYPICAL)



COIL MODEL	DISTANCE FROM WALL
BEL	1-1/3"H
BEM/BEH	1/2" W

EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - BEL)



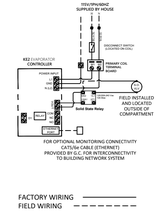
SINGLE EVAPORATOR

NOTE:
H = TOTAL HEIGHT OF THE EVAP. COIL

WIRING DIAGRAM - ECOSMART - AKEA1AE DEMAND DEFROST FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

SYS	DESCRIPTION	VOLTAGE
A	W/I COOLER	115/1

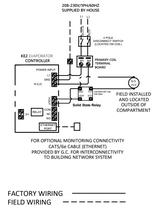


FACTORY WIRING
FIELD WIRING

WIRING DIAGRAM - ECOSMART - AKEB1EE DEMAND DEFROST FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

SYS	DESCRIPTION	VOLTAGE
B	W/I FREEZER	208/1



FACTORY WIRING
FIELD WIRING

APPROVAL STATUS

THIS DRAWING REPRESENTS OUR UNDERSTANDING OF THE SPECIFICATIONS. PLEASE REVIEW IT CAREFULLY FOR ACCURACY. CLEARLY AND IN DETAIL NOTE CHANGES REQUIRED.

MARK APPROPRIATE BOX, SIGN, AND DATE BELOW.

☐ APPROVED FOR FABRICATION NO CHANGES
☐ APPROVED FOR FABRICATION WITH CHANGES NOTED
☐ REVISE AND RE-SUBMIT DRAWING

BY: _____ DATE: _____

NOTICE

THIS DRAWING BEING AN INSTRUMENT OF SERVICE IS AND WILL REMAIN PROPERTY OF REFRIGERATION DESIGN TECHNOLOGIES AND CANNOT BE USED WITHOUT WRITTEN AUTHORIZATION.

No.	Revision/Issue	Date
0	ORIGINAL ISSUE	06-23-25

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Consultant:
Halliday Associates
Camas, WA

Dealer
-
-

Klamath Falls CC
Klamath Falls, OR

Project No: 32061
Designed By: L. Aguirre
Drawn By: L. Aguirre

Sheet 1.1 of sheets

1 DETAILS - FOOD SERVICE REFRIGERATION DETAILS
NO SCALE

PIVOT ARCHITECTURE
LAURA L. BOURLAND — PROFESSIONAL MEMBER — FCSI — FACILITIES CONSULTANTS SOCIETY INTERNATIONAL — 700794
HALLIDAY ASSOCIATES
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FOOD FACILITY CONSULTANTS
SPACE PLANNING ● DESIGN

BID AND PERMIT SET

KLAMATH COMMUNITY COLLEGE
CHILDCARE LEARNING CENTER

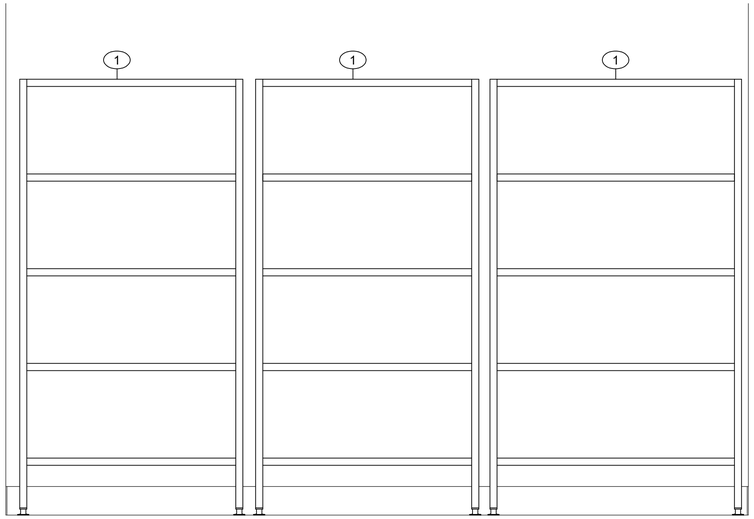
PROJECT #: 2331.00
KLAMATH COMMUNITY COLLEGE
7390 S. 6TH ST. KLAMATH FALLS, OR 97603

SHEET TITLE:
DETAILS - FOOD SERVICE REFRIGERATION DETAILS

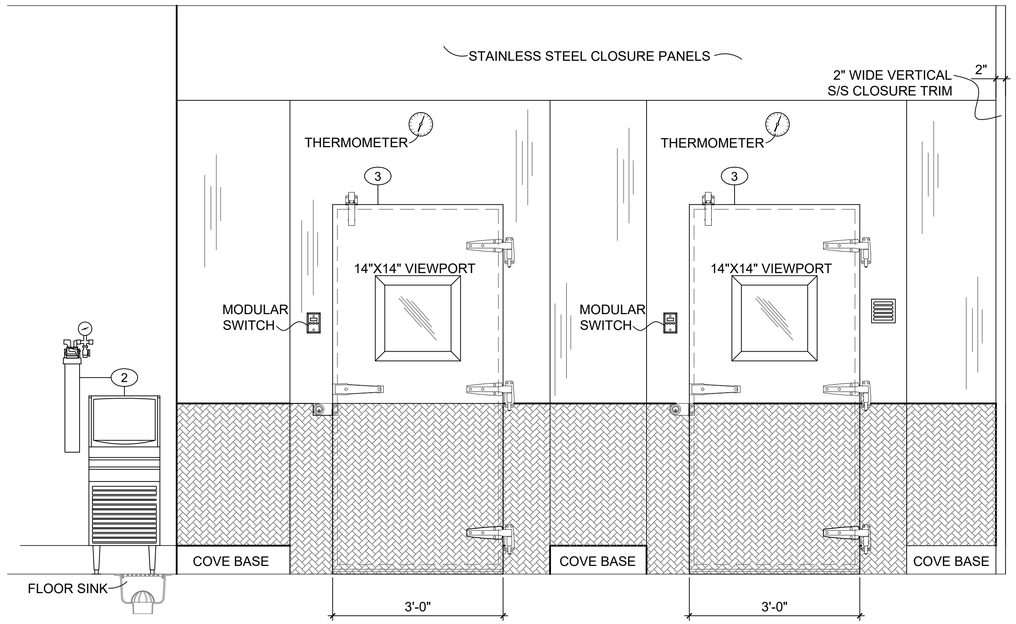
REVISIONS:
DESCRP. DATE

ISSUE DATE: 08/01/2025

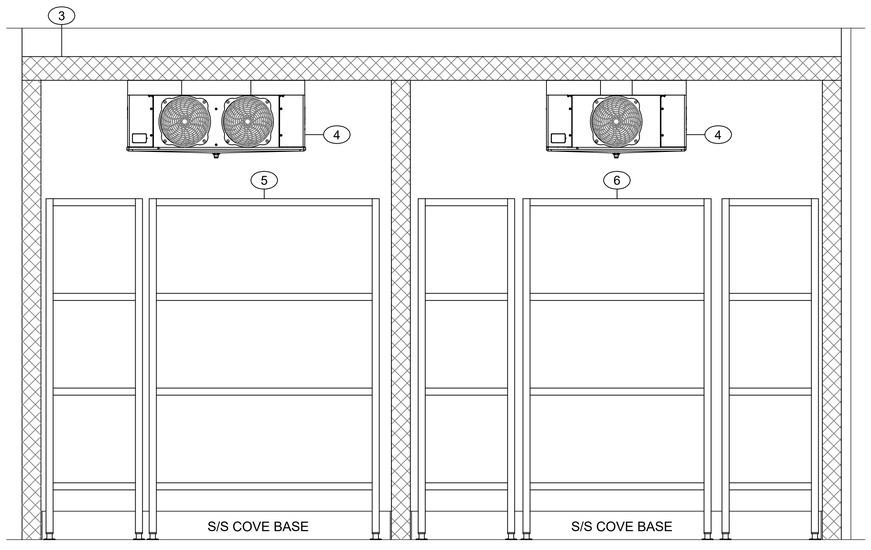
FS302



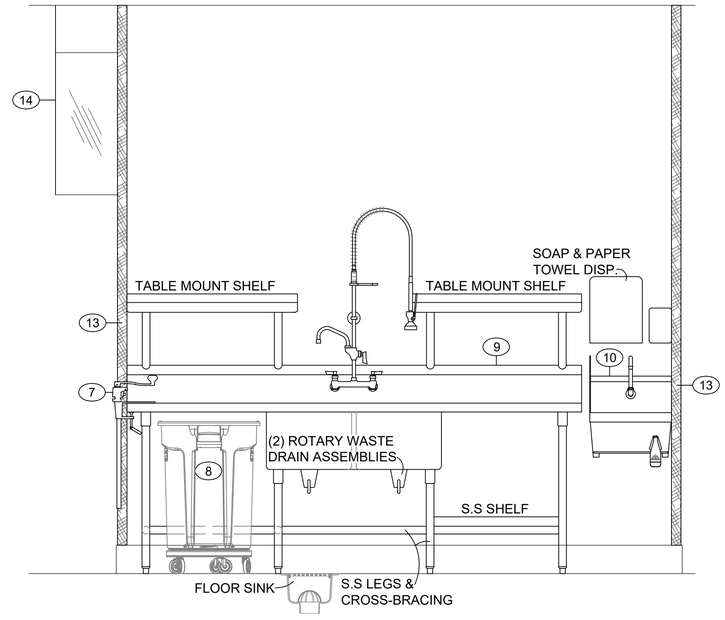
1 ELEVATION DRY STORAGE SHELVING
3/4"=1'-0"



2 ELEVATION WALK-IN COOLER/FREEZER BANK - (EXTERIOR)
3/4"=1'-0"



3 ELEVATION WALK-IN COOLER/FREEZER BANK - (INTERIOR)
3/4"=1'-0"



4 ELEVATION VEGETABLE PREP SINK TABLE & HAND SINK
3/4"=1'-0"

1 DETAILS - FOOD SERVICE ELEVATION AND FABRICATION DETAILS
AS NOTED

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SCALE OF 11 x 17 SHEETS IS HALF OF SCALE INDICATED

PIVOT ARCHITECTURE
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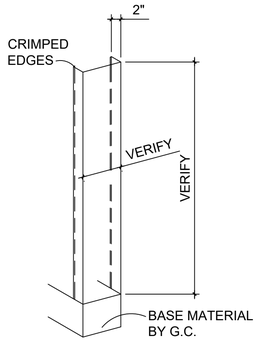
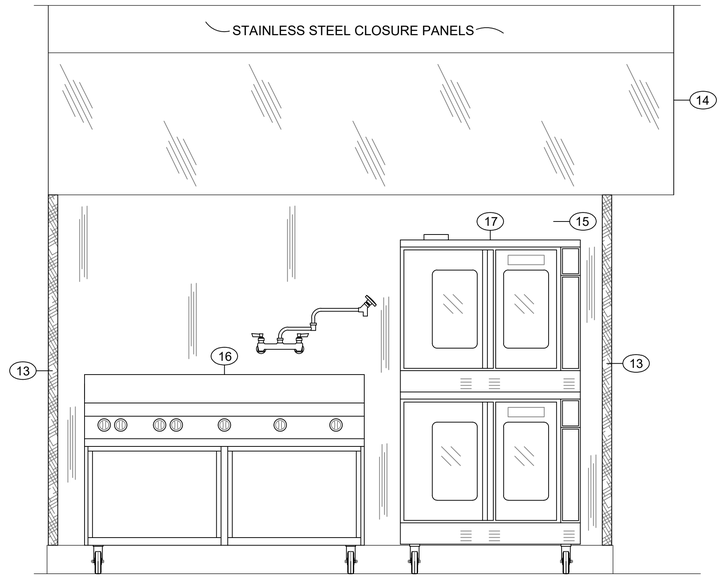
FS303

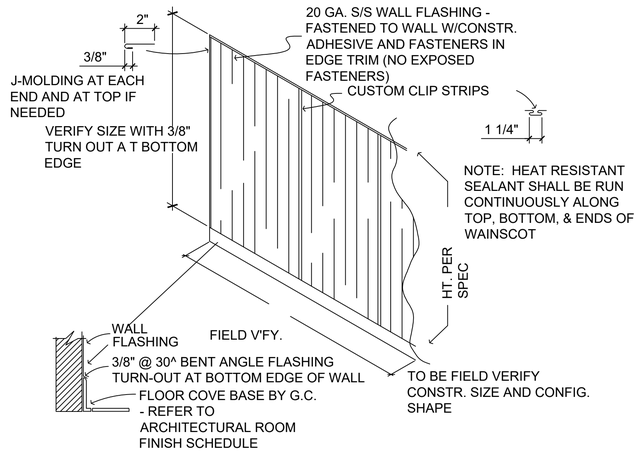


CHANNEL

NOTE: AT ISLAND COOKING WALL THE CHANNEL GUARDS SHALL BE FULL HEIGHT OF WALL

NOTE: SEE SHEET FS101 FOR LOCATIONS AND QUANTITIES OF THESE ITEMS

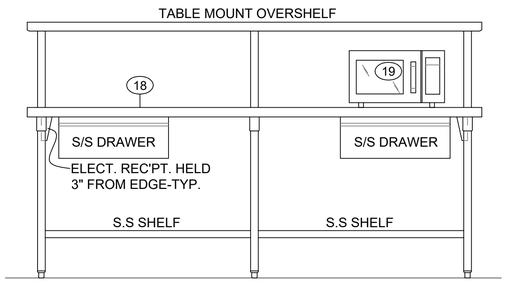


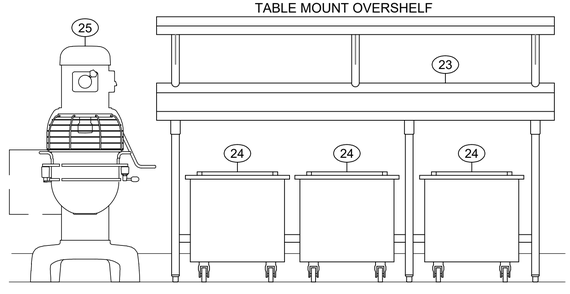


A ISOMETRIC CHANNEL GUARDS
3/4"=1'-0"

5 ELEVATION COOKING LINE
3/4"=1'-0"

B ELEVATION ITEM # S/S/ WALL FLASHING
N. T. S.





6 ELEVATION COOK'S ISLAND WORK TABLE
3/4"=1'-0"

7 ELEVATION BAKER'S SUPPORT TABLE
3/4"=1'-0"

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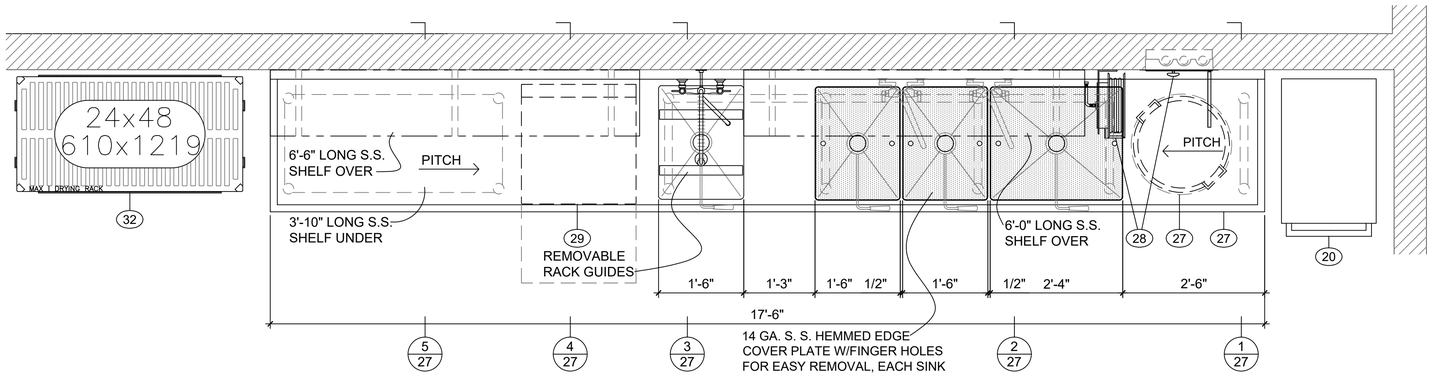
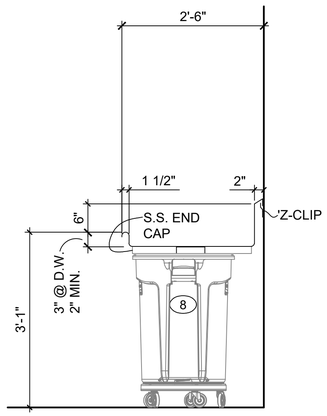
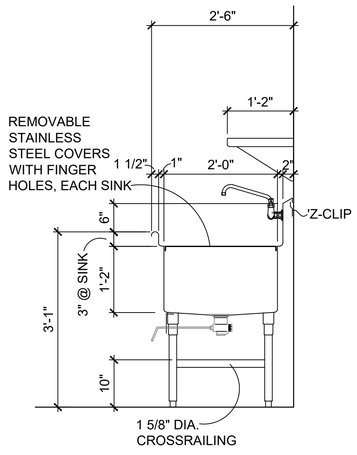
FS304



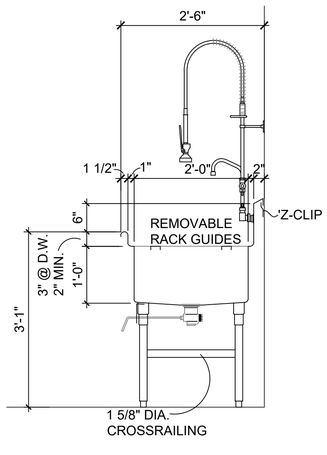
A PLAN VIEW WAREWASHING AREA
3/4"=1'-0"



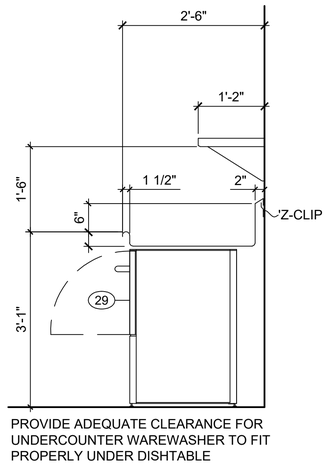
1/27 SECTION
3/4"=1'-0"



2/27 SECTION
3/4"=1'-0"

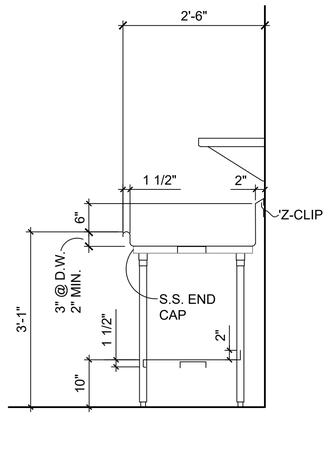


3/27 SECTION
3/4"=1'-0"



PROVIDE ADEQUATE CLEARANCE FOR
UNDERCOUNTER WAREWASHER TO FIT
PROPERLY UNDER DISHTABLE

4/27 SECTION
3/4"=1'-0"



5/27 SECTION
3/4"=1'-0"

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PIVOT ARCHITECTURE

FOOD SERVICE CONSULTANTS SOCIETY INTERNATIONAL PROFESSIONAL MEMBER LAURA L. BOURLAND FCSI 700794

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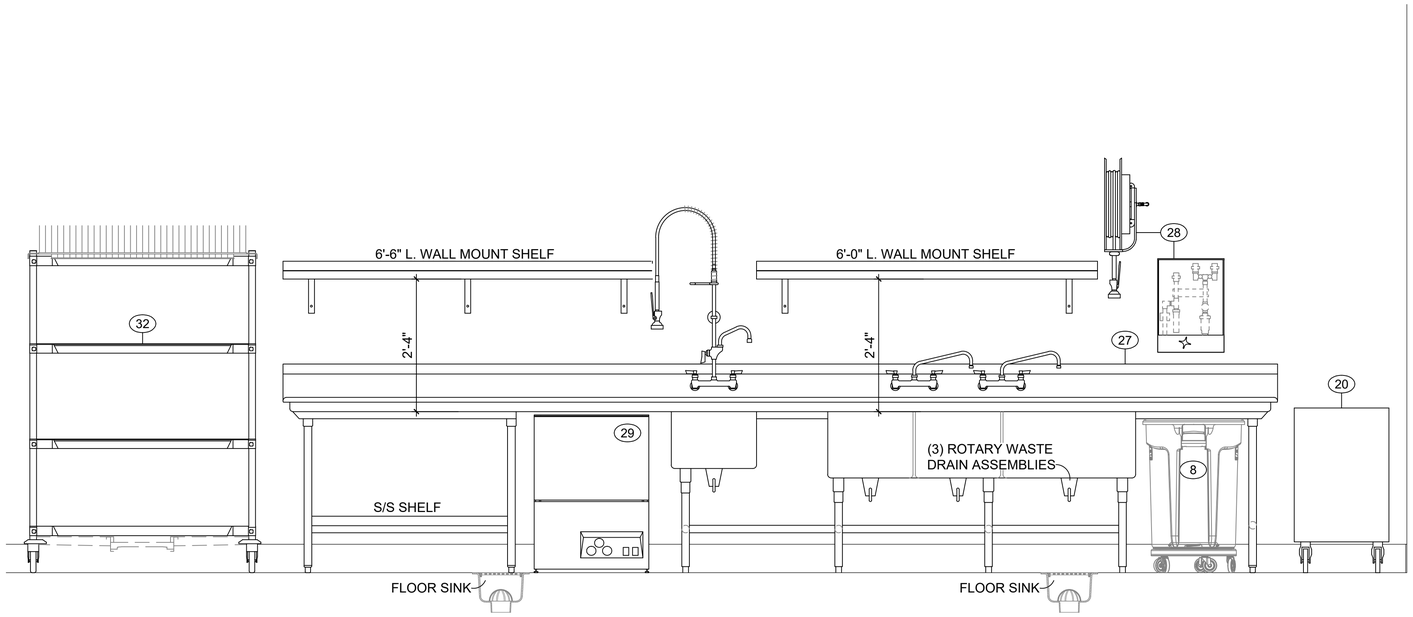
FS305



8 ELEVATION POTWASHING SINK TABLE AND UNDERCOUNTER WAREWASHER
3/4"=1'-0"

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FS306