



**Food Service
Consultants**
JRA FOOD SERVICE CONSULTANTS, LLC
401 HALL STREET SW - SUITE 183H
GRAND RAPIDS, MI 49503
PH: (616) 454-4433

ARCHITECT:
BERGMANN ASSOCIATES
560 5th NW
SUITE 305
GRAND RAPIDS, MI 49504

PROJECT:
ORCHARD VIEW MIDDLE SCHOOL
35 SOUTH SHERIDAN DRIVE
MUSKEGON, MICHIGAN, 49442

SHEET TITLE:
FOOD SERVICE
PLUMBING
FLOOR PLAN
SCALE 1/4" = 1'-0"

DATE CODE	PROJECT PHASE	BY
01/31/23 OVMSSP	BIDS	CM

THIS DRAWING IS THE PROPERTY OF JRA FOOD SERVICE CONSULTANTS, LLC AND IS NOT TO BE REPRODUCED, OR REUSED WITHOUT WRITTEN PERMISSION COPYRIGHT 2023

SHEET NUMBER:

FSE-5

EQUIPMENT SCHEDULE											
Item	EQUIPMENT DESCRIPTION	CW (in)	HW (in)	AFF (in)	DIRECT DRAIN (in)	AFF (in)	INDIRECT AIR GAP	GAS (in)	AFF (in)	MBTUH	REMARKS
101A	FREEZER COIL						FFD				FSEC PIPE COIL TO FFD
102A	COOLER COIL						FFD				FSEC PIPE COIL TO FFD
401	DROP-IN HOT WELLS		0.5	5			FFD				
403	DROP-IN COLD WELL						FFD				
404	DROP-IN HOT/COLD WELLS						FFD				
412	DROP-IN COLD WELL						FFD				
502	HAND SINK W/ SIDE SPLASHES	0.5	0.5	18	1.5	16					SOAP & TOWEL DISPENSER - BY OWNER
602	HAND SINK W/ SIDE SPLASHES	0.5	0.5	18	1.5	16					SOAP & TOWEL DISPENSER - BY OWNER

NOTE:

- FSEC SHALL VERIFY ROUGH-IN REQUIREMENTS FOR FUTURE, PURVEYOR SUPPLIED, OWNERS RELOCATED EQUIPMENT, OWNER SUPPLIED EQUIPMENT, ETC.
- TRADES TO REUSE EXISTING ROUGHINS WHERE APPLICABLE.
- TRADES SHALL DISCONNECT, REMOVE, STORE & RECONNECT ANY EXISTING EQUIPMENT AS REQUIRED FOR CONSTRUCTION PURPOSES.
- EQUIPMENT NOT BEING REUSED TO BE DISCONNECTED BY TRADES AND STORED OR DISCARDED BY THE FSEC AS DIRECTED BY OWNER.
- EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED BY THE TRADES AND RELOCATED BY THE FSEC AS PER PLANS AND SPECIFICATIONS.

TRADE & FSEC NOTES:

- KITCHEN EQUIPMENT SHALL BE DELIVERED AND ERECTED BY F.S.E.C.
- DO NOT ROUGH-IN FROM THIS DRAWING. REFER TO F.S.E.C. DIMENSIONED ROUGH-IN DRAWINGS AND SHOP DRAWINGS FOR ACTUAL REQUIREMENTS.
- TRADES SHALL MAKE ALL FINAL CONNECTIONS BETWEEN EQUIPMENT AND ROUGH-IN POINT, AND FURNISH ALL WIRING, SWITCHES, CONTROLS, SERVICE VALVES, PIPING, ETC AS REQUIRED. FSEC SHALL FURNISH DRAIN WATER TEMPERING KIT(S). TRADES SHALL INSTALL.
- FSEC SHALL FURNISH AND TRADES SHALL INSTALL ALL ACCESSORIES (FAUCETS, SWITCHES, CORDS, VALVES, GAS HOSES, ETC.).
- SLOPES TO FDS SHOULD BE HELD TO A MINIMUM DIMENSION.
- ALL "ROUGH-INS" SHOULD BE "UP-WITHIN" AND THEN "OUT-OF" WALLS WHERE POSSIBLE TO KEEP FLOORS AS CLEAN AS POSSIBLE. ROUGH-INS ARE SHOWN AT TERMINATION POINT TO ALLOW WIRING/PIPING TO FIXTURE BY TRADES.
- TRADES TO PROVIDE CHASES/REWORK OF WALLS, FLOORS, CEILINGS FOR UTILITIES, FLOOR GRATES, WALKING, DUCTS, ETC.
- F.S.E.C. SHALL PROVIDE ACCESS HOLES IN EQUIPMENT FOR UTILITIES, PIPING, POS, BEVERAGE LINES, ETC.
- TRADES SHALL PROVIDE VENTILATION STRUCTURAL SUPPORT, CEILING WORK, ROOF PENETRATIONS AND FIRE PROOFING AS REQUIRED.
- EXHAUST HOOD SHALL BE USED FOR VENTILATION OF COOKING EQUIPMENT ONLY. TRADES SHALL PROVIDE ROOM VENTILATION (A/C RECOMMENDED) AS REQUIRED.
- TRADES SHALL PROVIDE ADEQUATE VENTILATION FOR REFRIGERATION COMPRESSORS, WHETHER AIR OR WATER COOLED.
- TRADES SHALL REVIEW ALL ROUGHINS AND SHOP DRAWINGS FROM F.S.E.C. AND ADVISE PRIOR TO ROUGHING IN IF ANY CHANGES ARE REQUIRED.
- FSEC SHALL COORDINATE ROUGHIN REQUIREMENTS FOR OWNER SUPPLIED, RELOCATED, OR EXISTING EQUIPMENT WITH ALL TRADES.
- TRADES TO REUSE EXISTING ROUGHINS IF APPLICABLE.
- EQUIPMENT NOT BEING REUSED TO BE DISCONNECTED FROM UTILITIES BY THE TRADES.
- EQUIPMENT NOT BEING RE-USED SHALL BE DISCARDED BY THE FSEC.
- IF OWNER REQUESTS EXISTING EQUIPMENT BE SALVAGED THE FSEC SHALL TURN OVER TO OWNER.
- EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED FROM UTILITIES BY THE TRADES.
- EQUIPMENT DESIGNATED AS RELOCATED SHALL BE REMOVED FROM SITE, CLEANED, MADE READY FOR HEALTH DEPARTMENT AND RETURNED TO THE SITE BY THE FSEC.
- EQUIPMENT DESIGNATED AS RELOCATED SHALL BE RE-CONNECTED BY THE TRADES.
- TRADES & FSEC TO VERIFY VENTILATION DATA WITH HOOD MFG. SHOP DRAWINGS.

MECHANICAL / ELECTRICAL NOTES

⊕	120 V - 20 AMP DUPLEX RECEPTACLE - GFCI VERTICALLY MOUNTED
⊕	120 V - 20 AMP SIMPLEX OUTLET - GFCI VERTICALLY MOUNTED
⊕	120 VOLT - 30 AMP QUAD OUTLET
SR	SPECIAL RECEPTACLE - 120VOLT
SR	SPECIAL RECEPTACLE - 208/240 VOLT
W.T.	W.T. FLUSH FLOOR POWER/COMMUNICATIONS RECEPTACLE
DATA	DATA CONNECTION
⊕	WATERTIGHT FLUSH FLOOR DUPLEX - 20 AMP - GFCI
JB	JUNCTION BOX
LT	LIGHT FIXTURE
A	AMPS
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION BY TRADES
DFA	DROP FROM ABOVE
GP	GENERAL PURPOSE
HP	HORSEPOWER
IW	INDIRECT/AIR GAPPED WASTE TO FL DR OR FL SK
KW	KILOWATT
PH	PHASE
UN	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
V	VOLTS
•	HW HOT WATER - 25 PSI - 115 DEGREES
•	CW COLD WATER - 25 PSI
⊗	NATURAL GAS - 7" W.C. OR LP GAS - 1 1/2" W.C. - VIF
W	WASTE DRAIN - DIRECT CONNECTION
FD	FLOOR DRAIN - 3" MINIMUM DRAIN - MINIMUM PITCH
FFD	FUNNEL FLOOR DRAIN FOR IW - 3" MINIMUM DRAIN
FL SK	FLOOR SINK FOR IW - 12" SQ. - HALF GRATE - 3" MIN.
EVC	EXHAUST VENT CONNECTION
MUA	MAKE UP AIR DUCT CONNECTION
CFM	CUBIC FEET MINUTE
SP	STATIC PRESSURE
BC	BEVERAGE CONDUIT WITH 18" SWEEP ENDS BY TRADES - VIF
TFT	TEMPERED FLOOR TROUGH
NKREC	NOT IN KITCHEN EQUIPMENT CONTRACT

