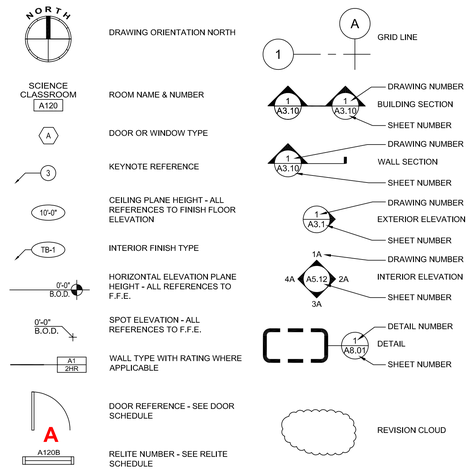
SOUTHRIDGE HIGH SCHOOL FREEZER REPLACEMENT

Beaverton School District

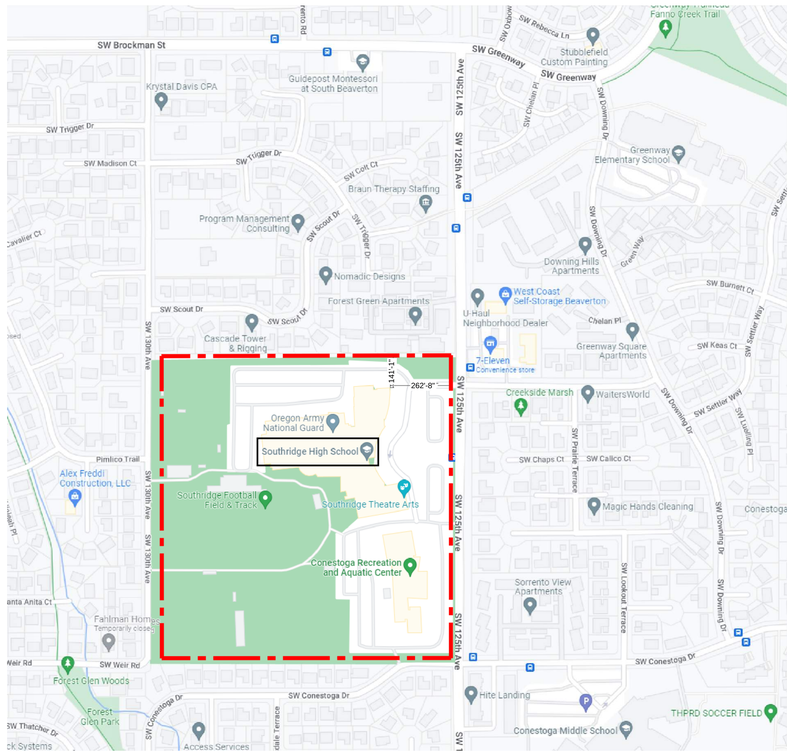
16550 SW Merlo Road Beaverton, Oregon 97003

CONTENTS

ARCHITECTURAL SYMBOLS



VICINITY MAP



ARCHITECTURAL ABBREVIATIONS

∠	ANGLE	FDN	FOUNDATION	O.D.	OVERFLOW DRAIN
&	AND	FE	FIRE EXTINGUISHER	OD	OUTSIDE DIAMETER
AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	OH	OVERHEAD
ACT	ACOUSTICAL CEILING TILE	FF	FINISH FLOOR	OPNG	OPENING
ADD	ADDENDUM	FFE	FINISH FLOOR ELEVATION	OPP	OPPOSITE
A.F.F.	ABOVE FINISH FLOOR	FIN	FINISH	OS	OUTSIDE
AHJ	AUTHORITY HAVING JURISDICTION	FL	FLOOR	PIP	POURED IN PLACE
ALS	AREA LIGHT STANDARD	FO	FACE OF	PL	PROPERTY LINE
ALUM	ALUMINUM	FOC	FACE OF CONCRETE	PLAS	PLASTER
ANOD	ANODIZED	FOF	FACE OF FINISH	PLYWD	PLYWOOD
BC	BOTTOM OF CURB	FOM	FACE OF MASONRY	PSF	PER SQUARE FOOT
BD	BOARD	FOS	FACE OF STUD	P.T.	PRESSURE TREATED
BLDG	BUILDING	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PVMT	PAVEMENT
BLKG	BLOCKING				RADIUS
B.M.	BENCH MARK	FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	R.D.	ROOF DRAIN
BM	BEAM			REF	REFERENCE
BOT	BOTTOM	FRT	FIRE RETARDANT TREATED	REFR	REFRIGERATOR
BTU	BRITISH THERMAL UNIT	FTG	FOOTING	REQ'D	REQUIRED
BTWN	BETWEEN	FURR	FURRING	REV	REVISE OR REVISION
C OR C	CHANNEL	GA	GAUGE	RM	ROOM
CB	CATCH BASIN	GALV	GALVANIZED	R.O.	ROUGH OPENING
CCTV	CLOSED CIRCUIT TV	GB	GRAB BAR	RCP	REFLECTED CEILING PLAN
CG	CORNER GUARD	GC	GENERAL CONTRACTOR	SC	SOLID CORE
CLG	CEILING	GL	GLASS	SECT	SECTION
CLR	CLEAR	GND	GROUND	SF	SQUARE FOOT
CJ	CONTROL JOINT	GVP	GYPSUM VENEER PLASTER	SHTG	SHEATHING
CMU	CONCRETE MASONRY UNIT	GWB	GYPSUM WALL BOARD	SHWR	SHOWER
CONT	CONTINUOUS	HB	HOSE BIB	SHT	SHEET
CORR	CORRIDOR	HC	HANDICAP	SIM	SIMILAR
CS.J	CONSTRUCTION JOINT	HDWR	HARDWARE	SJ	SEISMIC JOINT
CSMT	CASEMENT	HM	HOLLOW METAL	SM	SHEET METAL
CT	CERAMIC TILE	HW	HOT WATER	SPEC	SPECIFICATION
CTR	CENTER	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SQ	SQUARE
℄	CENTERLINE			SS	STAINLESS STEEL
DBL	DOUBLE	INSUL	INSULATION	STD	STANDARD
DTL	DETAIL	INT	INTERIOR	STL	STEEL
DF	DRINKING FOUNTAIN	JAN	JANITOR	STOR	STORAGE
DIA	DIAMETER	JT	JOINT	STRUCT	STRUCTURAL
DIAG	DIAGONAL	JST	JOIST	SUSP	SUSPENDED
DIM	DIMENSION	L	LENGTH	T	TEMPERED GLAZING
DISP	DISPENSER	LAV	LAVATORY	TC	TOP OF CURB
DN	DOWN	LB	LAG BOLT	TEL	TELEPHONE
DP	DAMPROOFING	LKR	LOCKER	T&G	TONGUE AND GROOVE
DR	DOOR	LS	LANDSCAPING	THK	THICK
DS	DOWN SPOUT	LVR	LOUVER	TJ	TOOL JOINT
DWG	DRAWING	MATL	MATERIAL	TP	TOP OF PAVEMENT
EA	EACH	MAX	MAXIMUM	TS	TUBE STEEL
EF	EXHAUST FAN	MECH	MECHANICAL	TYP	TYPICAL
EJ	EXPANSION JOINT	MED	MEDIUM	TOD	TOP OF (MATERIAL)
EL	ELEVATION	MEZZ	MEZZANINE	UNFIN	UNFINISHED
ELEC	ELECTRICAL	MFR	MANUFACTURER	UNO	UNLESS NOTED OTHERWISE
E.O.S.	EDGE OF SLAB	MH	MANHOLE	VB	VAPOR BARRIER
ENGR	ENGINEER	MIN	MINIMUM	VERT	VERTICAL
EP	ELECTRICAL PANEL	MIR	MIRROR	VEST	VESTIBULE
EQ	EQUAL	MISC	MISCELLANEOUS	VFY	VERIFY
EQUIP	EQUIPMENT	MTD	MOUNTED	W/	WITH
ES	EACH SIDE	MTL	METAL	WC	WATER CLOSET
EW	EACH WAY	NA	NOT APPLICABLE	WD	WOOD
EXST	EXISTING	NIC	NOT IN CONTRACT	WF	WIDE FLANGE
(E)	EXISTING	NOM	NOMINAL	WG	WIRE GLASS
EXP	EXPANSION	NS	NELSON STUD	WH	WATER HEATER
EXT	EXTERIOR	NTS	NOT TO SCALE	W/O	WITHOUT
FA	FIRE ALARM	OA	OVERALL	WP	WATERPROOFING
FBO	FURNISHED BY OTHERS	OC	ON CENTER	WRB	WATER RESISTIVE BARRIER
FD	FLOOR DRAIN			WT	WEIGHT

SCHOOL ADDRESS

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9625 SW 125th Ave. , Beaverton, OR 97008
Phone: (503) 356-2890
AHJ: City of Beaverton
Tax Lot #: 1S128DD00300

DEFERRED SUBMITTALS

FREEZER/COOLER SHOP DRAWINGS

ALTERNATES

ALTERNATE #1 - RELOCATED POWER FOR HEATED CABINET

BEAVERTON SCHOOL DISTRICT

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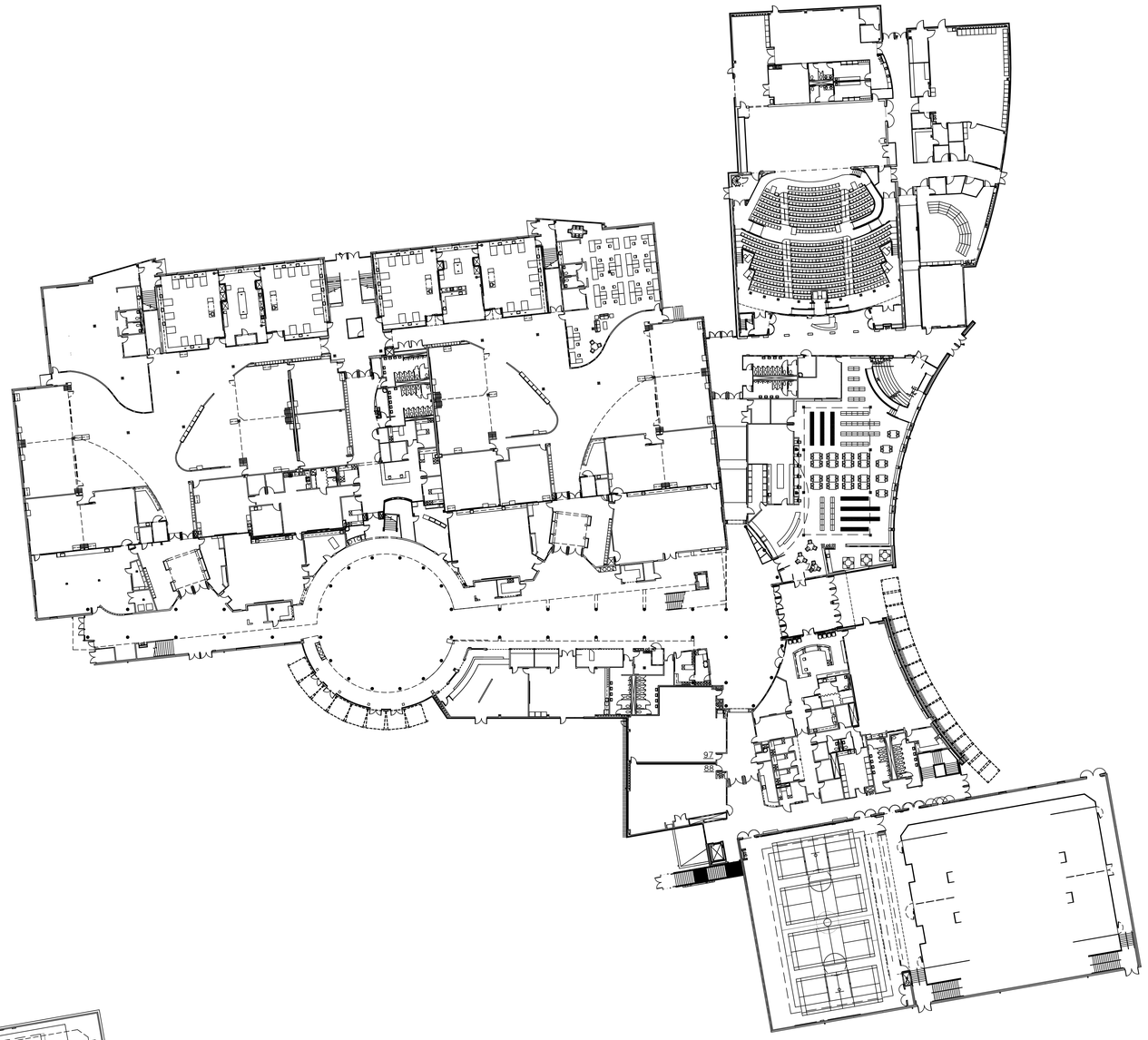
IBI

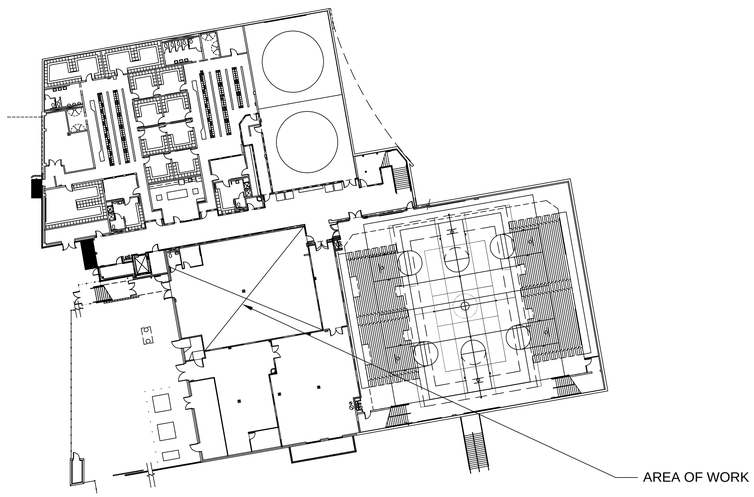
SOUTHRIDGE HIGH SCHOOL FREEZER REPLACEMENT | Project # 139249 | June 6, 2022 | BID DOCUMENTS

BID DOCUMENTS



1 OVERALL MAIN FLOOR PLAN
Scale: 1" = 30'-0"

North



2 OVERALL LOWER FLOOR PLAN
Scale: 1" = 30'-0"

North

CLIENT
Beaverton School District
BEAVERTON SCHOOL DISTRICT
16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

CONSULTANTS

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PROJECT
SOUTHRIDGE HS
FREEZER REPLACEMENT
9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO:
139249

DRAWN BY:	CHECKED BY:
SW	**JF**
PROJECT MGR:	APPROVED BY:
SW	**JF**

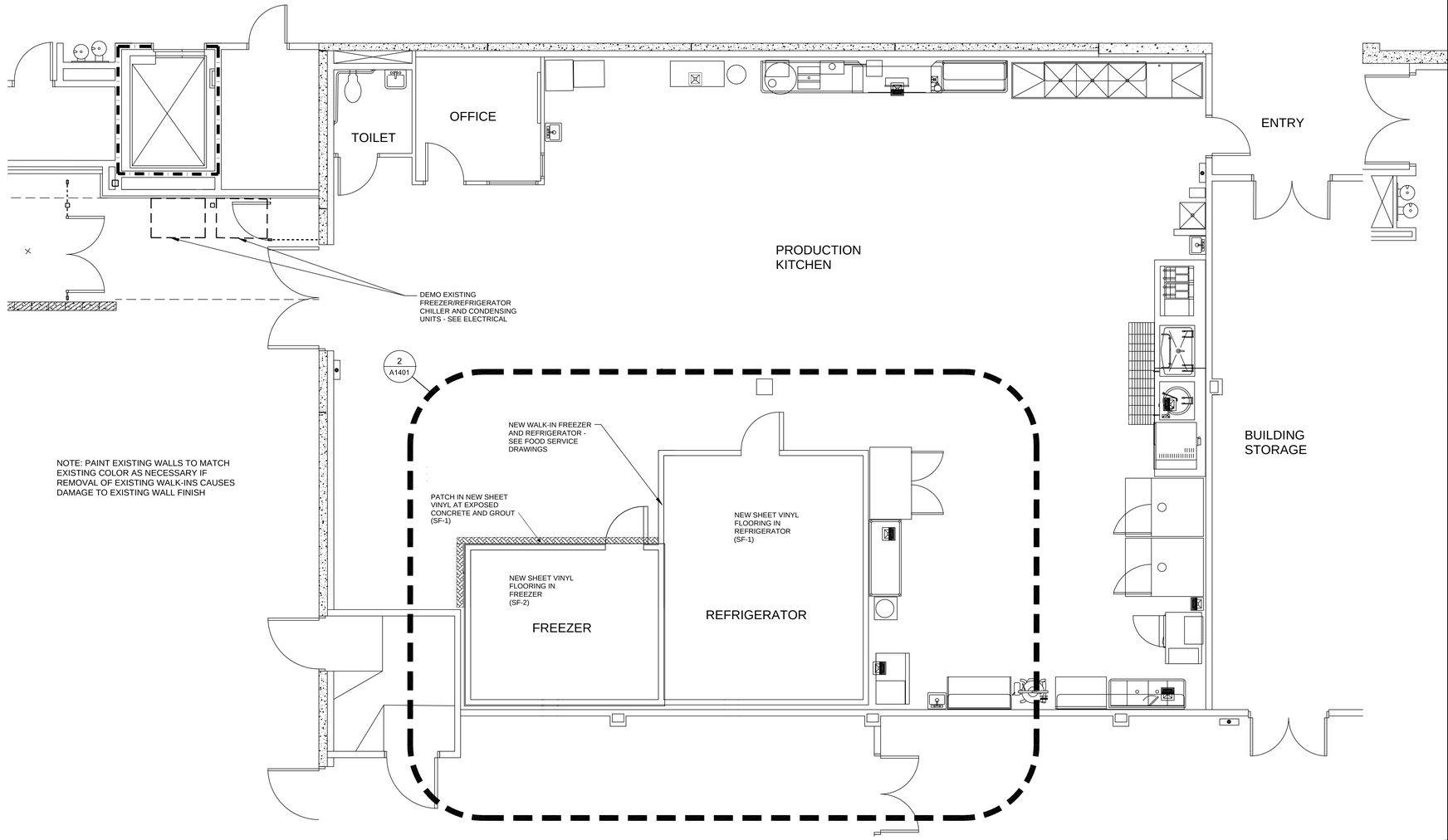
SHEET TITLE
OVERALL FLOOR PLANS

SHEET NUMBER
A1201

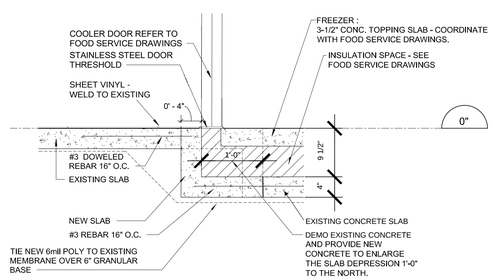
ISSUE

BIM 360\XXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

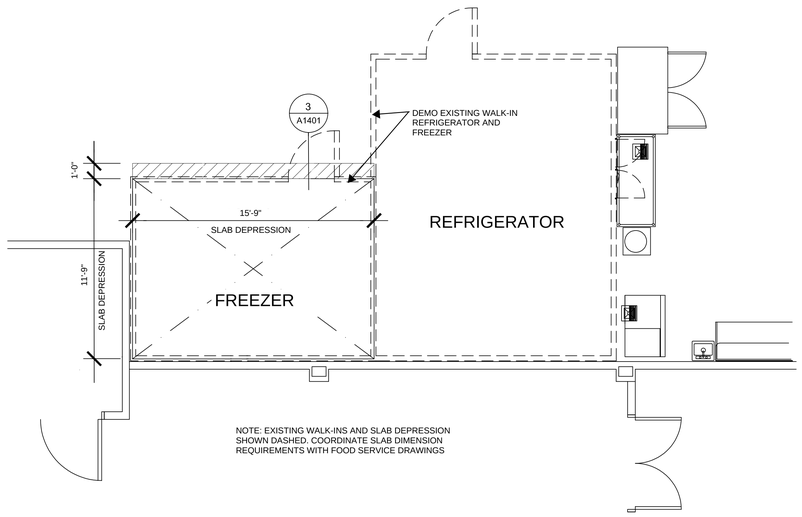
SCALE CHECK
10mm
1 in



1 A1401 ENLARGED FLOOR PLAN - PRODUCTION KITCHEN
Scale: 1/4" = 1'-0"



3 A1401 RECESSED SLAB TO EXISTING
Scale: 1" = 1'-0"



2 A1401 ENLARGED FLOOR PLAN - DEMOLITION PLAN
Scale: 1/4" = 1'-0"

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PROJECT NO: 139249	
DRAWN BY: XX	CHECKED BY: XX
PROJECT MGR: XX	APPROVED BY: XX

SHEET TITLE
ENLARGED FLOOR PLAN AND DETAILS

SHEET NUMBER
A1401

ISSUE

BIM 360/XXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

SCALE CHECK 1 in

2022-XX-XX X:XX:XX XX

GENERAL NOTES

1 THESE PLANS ARE A GENERAL ARRANGEMENT OF EQUIPMENT FOR THE CONVENIENCE OF CONTRACTORS AND IS MADE FROM AVAILABLE INFORMATION. WEBB FOODSERVICE DESIGN ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE MEASUREMENTS. FABRICATORS, CONTRACTORS, AND OTHERS UTILIZING THESE PLANS IN CONNECTION WITH THIS JOB ARE RESPONSIBLE FOR SECURING THEIR OWN MEASUREMENTS FOR PREPARATION OF SUBMITTALS AND CONSTRUCTION. PLUMBING AND ELECTRICAL INFORMATION INDICATED ON THESE PLANS ARE GENERALLY FOR FOOD SERVICE EQUIPMENT AND ARE INTENDED AS REFERENCE ONLY. WEBB FOODSERVICE DESIGN IS NOT RESPONSIBLE FOR THE ENGINEERING THEREOF OR FOR ANY PLUMBING OR ELECTRICAL FITTINGS, WORK, AND/OR CONNECTIONS UNLESS SPECIFICALLY PROVIDED FOR IN THE SPECIFICATIONS. WEBB FOODSERVICE DESIGN ASSUMES NO RESPONSIBILITY FOR THE WORK DONE BY THE CONTRACTORS NOR FOR ANY CHANGES MADE NECESSARY BY THE LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY THE SUBSTITUTION OR CHANGES MADE NECESSARY IN EQUIPMENT SHOWN ON THIS PLAN. THE PLANS AND DESIGNS CONTAINED HEREIN ARE THE PROPERTY OF WEBB FOODSERVICE DESIGN AND MAY NOT BE REPORDUCED OR USED BY ANYONE, EITHER ALL OR IN PART, WITHOUT FIRST SECURING THE WRITTEN PERMISSION OF WEBB FOODSERVICE DESIGN.

2 CONTRACTORS ARE TO MAKE ALLOWANCE FOR ELBOWS, TRAPS, ETC. AND ARE TO MAKE FINAL CONNECTIONS ON THE JOB, SUPPLYING ALL NECESSARY VALVES, TRAPS, STEAM TRAPS, FAUCETS, STARTING SWITCHES FOR MOTORS, ETC. EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE IN THE WRITTEN SPECIFICATIONS.

3 ANY DISCREPANCIES BETWEEN PLANS, BUILDING, AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION, FABRICATION, OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY.

4 IT SHALL BE THE RESPONSIBILITY OF THE OWNER, ARCHITECT, ENGINEERS, AND/OR GENERAL CONTRACTOR TO INSURE THAT THE FOOD SERVICE EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUMS AND CHANGES TO THE BUILDING PLANS, PRIOR TO, OR DURING CONSTRUCTION WHEREAS, ADDENDUMS AND/OR CHANGES AFFECT ANY AREAS PERTINENT TO THE FOOD AND BEVERAGE PORTION OF THE PROJECT.

5 IF THERE ARE ANY AMBIGUITIES, DISCREPANCIES, OR IRREGULARITIES, VERIFY WITH ARCHITECTURAL TEAM PRIOR TO COMMENCING WORK.

6 ALL WORK IS TO BE COMPLETED IN CRAFTSMAN LIKE MANNER AND CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES.

7 REFER TO ARCHITECTURAL PLANS FOR ADA CLEARANCE REQUIREMENTS FOR ALL SPACES, DOOR STRIKES, EXITS, AND AISLE WAYS AS THEY PERTAIN TO CODE ENFORCEMENT AND INTERPRETATION.

8 CONTRACTORS SHALL SUBMIT ALL SHOP DRAWINGS, FINISHES, STAINS, AND COLORS TO THE ARCHITECTURAL TEAM FOR APPROVAL PRIOR TO FABRICATION.

9 SEE ENGINEERING DOCUMENTS FOR TITLE 24 ENGINEERING CALCULATIONS FOR BUILDING PERMIT REQUIREMENTS.

10 CONTRACTOR TO VERIFY ALL EQUIPMENT CLEARANCES THRU BUILDING DOORS, HALLWAYS, OR ENTRY POINTS. NOT ALL EQUIPMENT WILL FIT THRU STANDARD DOOR OPENINGS.

11 ALL DRAWINGS BY WEBB FOODSERVICE DESIGN ARE FOOD SERVICE EQUIPMENT CONTRACT DOCUMENTS ONLY TO BE USED BY CONSULTANTS/ARCHITECTS AND FOR BIDDING, NOT FOR CONSTRUCTION.

12 VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO PROCEEDING WITH WORK.

13 PARTITIONS ARE DIMENSIONED FROM FINISHED SURFACE, UNLESS OTHERWISE NOTED.

14 ALL HORIZONTAL DIMENSIONS ARE FROM FINISHED FACE OF WALL TO FINISHED FACE OF WALL OR CENTERLINE OF COLUMN.

15 ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO WALL OR WALL OPENING.

16 PROVIDE SMOOTH AND LEVEL FLOORS BELOW ALL KITCHEN EQUIPMENT UNLESS THESE DRAWINGS SHOW OTHERWISE.

17 GENERAL CONTRACTOR TO PROVIDE AND INSTALL BLOCKING IN WALLS FOR MOUNTING WALL SHELVES, POT RACKS, DISPLAY CASES, HOSE REELS, ETC., AS SHOWN ON PLANS.

18 WHERE REQUIRED, SPRINKLER HEADS IN WALK-IN FREEZER WILL BE PROVIDED BY AND PROTECTED AGAINST FREEZING BY GENERAL CONTRACTOR.

19 LEVEL PLATFORMS CONSTRUCTED PER CODE AND LOCATED ON ROOF ARE REQUIRED FOR COMPRESSOR RACKS. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS AND DETAILS. GENERAL CONTRACTOR TO PROVIDE ACCESS FOR DELIVERY AND INSTALLATION OF EACH COMPRESSOR RACK.

20 SEE STRUCTURAL ENGINEER AND/OR ARCHITECTURAL PLANS FOR STRUCTURAL SUPPORT REQUIREMENTS OF ROOF SUPPORTING ALL FOOD SERVICE EQUIPMENT SUCH AS COMPRESSOR RACKS, EXHAUST AND MAKE-UP AIR SYSTEMS, AIR CONDITIONING, ETC., PRIOR TO BEGINNING CONSTRUCTION.

21 ROOF JACKS AND PENETRATIONS THROUGH ROOF ARE REQUIRED FOR REFRIGERATION LINES. SEE ARCHITECTURAL PLANS FOR DETAILS. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR)

22 ARCHITECT AND/OR MECHANICAL ENGINEER TO PROVIDE ADEQUATE VENTILATION AND COOLING FOR SPACES CONTAINING SELF-CONTAINED REFRIGERATION AND OTHER FOOD SERVICE EQUIPMENT EMITTING HEAT.

23 INTENDED ENVIRONMENT FOR REFRIGERATED GLASS FRONT & OPEN FRONT DISPLAY CASE, INCLUDING GLASS DOORS ON WALK-IN REFRIGERTORS AND FREEZERS IS 75ºF/55% RELATIVE HUMIDITY. VERIFY WITH MECHANICAL DRAWINGS.

24 FOOD SERVICE FACILITIES REQUIRE A DESIGNATED HOT WATER SUPPLY FOR FOODHANDLING AREAS, WAREWASHING AREAS, JANITOR SINKS AND EMPLOYEE RESTROOMS. REFER TO MECHANICAL AND/OR PLUMBING DRAWINGS.

25 HOT WATER SUPPLY TO POT AND PREPARATION SINKS SHALL BE 120 DEGREES MINIMUM. HOT WATER SUPPLY TO ALL DISH MACHINES SHALL BE 120 DEGREES MINIMUM.

26 ALL MATERIALS FOR FLOORS, WALLS, AND CEILINGS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

27 GENERAL CONTRACTOR SHALL ENSURE THAT ALL HARDWOOD PLYWOOD (HWPW), PARTICLE BOARD (PB), AND MEDIUM DENSITY FIBERBOARD (MDF) USED TO MAKE FINISHED GOODS, SUCH AS FURNITURE, CABINETS, COUNTERTOPS, SHELVING, FLOORING, MOLDING, ETC., SHALL COMPLY WITH THE CALIFORNIA AIR RESOURCES BOARD (CARB) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS IN COMPOSITE WOOD PRODUCTS. THE ATCM APPLIES TO PANEL MANUFACTURERS, THIRD PARTY CERTIFIERS, DISTRIBUTORS, IMPORTERS, FABRICATORS, AND RETAILERS OF HWPW, PB, MDF, AND FINISHED GOODS CONTAINING THESE PRODUCTS (INCLUDING LAMINATED PRODUCTS), SOLD OR DELIVERED TO CALIFORNIA, AND APPLIES TO DOMESTIC AND IMPORTED PRODUCTS.

28 COUNTERS ARE TO BE FABRICATED PROPERLY TO SUPPORT THE SPECIFIED COUNTER TOP MATERIAL IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES.

29 ALL "DROP-IN" EQUIPMENT AND OTHER EQUIPMENT "ATTACHED TO", "SET ON", OR "BUILT-IN" TO THE COUNTERTOP MATERIAL IS TO BE INSTALLED IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES AND TECHNICAL BULLETINS FOR THE INSTALLATION OF COMMERCIAL FOOD SERVICE EQUIPMENT.

ENVIRONMENTAL NOTES

1 ALL FOOD-RELATED AND UTENSIL RELATED EQUIPMENT SHALL BEAR THE ANSI/NSF EMBLEM AND/OR BE MANUFACTURED OR FABRICATED IN ACCORDANCE WITH APPROPRIATE ANSI/NSF STANDARD. SPECIFICALLY STANDARD 2 AND FOR ALL REFRIGERATED EQUIPMENT STANDARD 7.

2 FLOORS IN FOOD PREPARATION, FOOD STORAGE, WAREWASHING, JANITORIAL, HANDWASHING AND TOILET AREAS SHALL BE SMOOTH AND IMPERVIOUS TO WATER, GREASE, AND ACID AND OF EASILY CLEANABLE CONSTRUCTION WITH 6" CONTINUOUS SELF-COVED BASE WITH 3/8" RADIUS. WHERE EQUIPMENT IS INSTALLED ON A CURB, SELF-COVED BASE IS TO EXTEND 4".

3 AT EXTERIOR TRASH HOLDING AREAS, A CONCRETE SLAB MUST BE PROVIDED FOR TRASH , GARBAGE AND GREASE CONTAINERS. IF WALLS ENCLOSE THE AREA, THE INTERIOR WALL SURFACES ARE TO BE SMOOTH, SEALED AND WASHABLE (E.G. PLASTERED SMOOTH AND PAINTED, ETC.)

4 ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTERS OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTER TOP EQUIPMENT SHALL BE MOUNTED ON 4" SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVEABLE.

5 ALL REFRIGERATION EQUIPMENT SHALL HAVE A THERMOMETER WHICH IS EASILY READABLE AND IN PROPER WORKING CONDITION.

6 WALLS IN FOOD PREPARATION AREAS AND DISHWASHING AREAS SHALL BE SMOOTH AND NON-ABSORBENT WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS ENAMEL.

7 CEILINGS IN KITCHEN PREPARATION AREAS SHALL BE SMOOTH AND NON-ASBORBENT WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS FINISH.

8 LAVATORY (HANDWASHING) SINKS SHALL BE PROVIDED IN THE FOOD PREPARATION, FOOD SERVING AND WAREWASHING AREAS. SOAP AND SANITARY TOWELS SHALL BE PROVIDED IN SINGLE SERVICE, PERMANENTLY INSTALLED DISPENSERS AT THE LAVATORY SINKS. ALL HANDWASHING SINKS SHALL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET. PRE-MIXING FAUCETS MUST BE CAPABLE OF SUPPLYING WATER TEMPERED TO 100 F TO 108 F AND BE SELF CLOSING OR METERED TO PROVIDE TO PROVIDE AT LEAST 15 SECOND OF WATER WITHOUT REACTIVATION.

9 TOILET FACILITIES SHALL BE PROVIDED WITHIN EACH FOOD ESTABLISHMENT CONVENIENT FOR THE EMPLOYEES.

10 ALL TOILET ROOMS, JANITOR CLOSETS WITH JANITOR SINKS, INDOOR TRASH ROOMS AND DRESSING/CHANGE ROOMS SHALL BE PROVIDED WITH MECHANICAL VENTILATION, LIGHTS AND SWITCHES CONSISTENT WITH MECHANICAL CODE REQUIREMENTS.

11 ALL DELIVERY DOORS LEADING TO THE OUTSIDE SHALL OPEN OUTWARD, BE SELF-CLOSING, AND SHALL BE PROVIDED WITH AN OVERHEAD AIR CURTAIN. AIR CURTAIN SHALL BE TYPE NH2 NSF CERTIFIED RECEIVING DOOR MODELS.

12 ALL EXTERIOR DOORS SHALL OPEN OUTWARD AND BE SELF-CLOSING AND TIGHT-FITTING. BI-FOLD, FRENCH, ACCORDIAON STYLE AND ROLL-UP DOORS CANNOT OPEN INTO FOOD PREPARATION, UNPACKAGED FOOD SERVICE OR WAREWASHING AREA.

13 TOILET ROOM DOORS ARE TO BE SELF-CLOSING AND TIGHT-FITTING.

14 ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUIT, PLUBMING LINES, ETC. SHALL BE INSTALLED A MINIMUM OF 6" ABOVE THE FLOOR AND ¾" FROM THE WALLS USING EASILY CLEANABLE STANDOFF BRACKETS.

15 UTENSIL SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF 18" X 18" X 12" DEEP WITH A MINIMUM 18" DRAINBOARD AT EACH END AND 10" BACKSPLASH. IF THE END IS AGAINST A WALL, THE END MUST HAVE A 10" INTEGRAL SPLASH TO MATCH BACKSPLASH. THE SINK TUB MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED AND THE DRAINBOARD MUST BE EQUAL OR GREATER IN LENGTH THAN THE SINK TUB.

16 PREP SINK COMPARTMENTS MUST BE AT LEAST 18" X 18" X 12" DEEP WITH A MINIMUM DRAINBOARD OF 18".

17 FAUCETS SHALL HAVE SPOUTS CAPABLE OF REACHING EACH SINK COMPARTMENT.

18 APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS SUPPLIED.

19 IN EVERY ROOM AND AREA IN WHICH ANY FOOD IS PREPARED, MANUFACTUERED, PROCESSED, OR PREPACKAGED OR IN WHICH EQUIPMENT OR UTENSILS ARE CLEANED, SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING SHALL BE PROVIDED TO PRODUCE LIGHT INTENSITY, WHILE THE AREA IS IN USE:

A) AT LEAST 10-FOOT CANDLES FOR THE FOLLOWING:
   1) AT A DISTANCE OF 30 INCHES ABOVE THE FLOOR, IN WALK-IN REFRIGERATION UNITS AND DRY FOOD STORAGE UNITS.
   2) AT A WORKING SURFACE ON WHICH ALCOHOLIC BEVERAGES ARE PREPARED OR WHERE UTENSILS USED IN THE PREPARATION OR SERVICE OF ALCOHOLIC BEVERAGES ARE CLEANED.
   3) INSIDE EQUIPMENT SUCH AS REACH-IN OR UNDER THE COUNTER REFRIGERATORS.

B) AT LEAST 20-FOOT CANDLES FOR THE FOLLOWING:
   1) AT A SURFACE WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE OR WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION.
   2) IN SERVER STATIONS WHERE FOOD IS PREPARED.
   3) AT A DISTANCE OF 30 INCHES ABOVE THE FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE AND IN TOILET ROOMS.
   4) IN ALL AREAS AND ROOMS DURING PERIODS OF CLEANING.

C) AT LEAST 50-FOOT CANDLES AT A SURFACE WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR.

D) LIGHT FIXTURES SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHEILDS AND SHALL BE READILY CLEANABLE

20 COMPLY WITH CAMPUS STANDARDS TO LIMIT WASTE AND DIVERT IT FROM LANDFILL. MAXIMIZE RECYCLING/RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE.

ABBREVIATIONS

"T"	TEE
(N)	NEW
*	SEE REMARKS COLUMN
A	AMPS
A.F.F.	ABOVE FINISH FLOOR
A.G.A.	AMERICAN GAS ASSOCIATION
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
C	CONVENIENCE OUTLET
C.M.U.	CONCRETE MASONRY UNITS
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CLG.	CEILING
CLR	CLEAR
CO	CONVENIENCE OUTLET
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CW	COLD WATER
D	DIRECT CONNECTION
DCO	DUPLEX CONVENIENCE OUTLET
DET	DETAIL
DFA	DOWN FROM ABOVE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DW	DIRECT WASTE
DWG	DRAWINGS
EA.	EACH
EH	EXHAUST
ELEC	ELECTRICAL
F	FREEZER
FD	FLOOR DRAIN
FIN	FINISH
FLR	FLOOR
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FOOT
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GPH	GALLONS PER HOURS
GYP. BD.	GYPSUM BOARD
HP	HORSEPOWER
HR	HOUR
HTR	HEATER
HW	HOT WATER
I.D.	INSIDE DIAMETER
IN	INCH
INS	INSIDE INSULATION
INT	INTERIOR
IW	INDIRECT WASTE
JAN	JANITOR
KIT	KITCHEN
KW	KILOWATT
L	LENGTH
LOT	LOT
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MET	METAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOB	MOBILE
MTD	MOUNTED
N.I.C.	NOT IN CONTRACT
NIFSEC	NOT IN FOOD SERVICE EQUIPMENT CONTRACT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P.S.I.	POUNDS PER SQUARE INCH
PLY	PLYWOOD
POB	PART OF BUILDING
POF	PART OF FIXTURE
POL	POLISH, POLISHED
POT	PORTABLE
PR	PAIR
PT	PAINT
QTY	QUANTITY
R	REFRIGERATOR
REQ	REQUIRED
REQ'S	REQUIREMENTS
RM	ROOM
S/S	STAINLESS STEEL
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SOV	SHUT-OFF VALVE
SQ	SQUARE
STD	STANDARD
STRUCT	STRUCTURAL
THK	THICK
TYP	TYPICAL
W	WIDE, WIDTH, WASTE
W/	WITH
WD	WOOD

SYMBOLS

1 / FS-701 — ELEVATION REFERENCE

1 / FS-701 2 / 3 — MULTIPLE ELEVATION REFERENCE

/ FS-801 — DETAIL REFERENCE

1 / FS-801 — SECTION REFERENCE

/ FS-801 — ENLARGED PLAN/ DETAIL REFERENCE

P-1 — SPECIFICATION REFERENCE
SEE TYPICAL SPECIFICATION SYMBOL
(ON INTERIOR DRAWINGS)

X — ITEM NUMBER

N — NORTH ARROW

— REVISION DELTA

+8'-0" / 0" — ELEVATION HEIGHT REFERENCE

SHEET INDEX

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True North / Project North

CLIENT
Beaverton School District
BEAVERTON SCHOOL DISTRICT
16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

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PROJECT
SOUTHRIDGE HS
FREEZER REPLACEMENT
9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO: XXXXXX	
DRAWN BY: XX	CHECKED BY: XX
PROJECT MGR: XX	APPROVED BY: XX

SHEET TITLE
FOODSERVICE
SYMBOLS, NOTES &
INDEX

SHEET NUMBER
FS-100

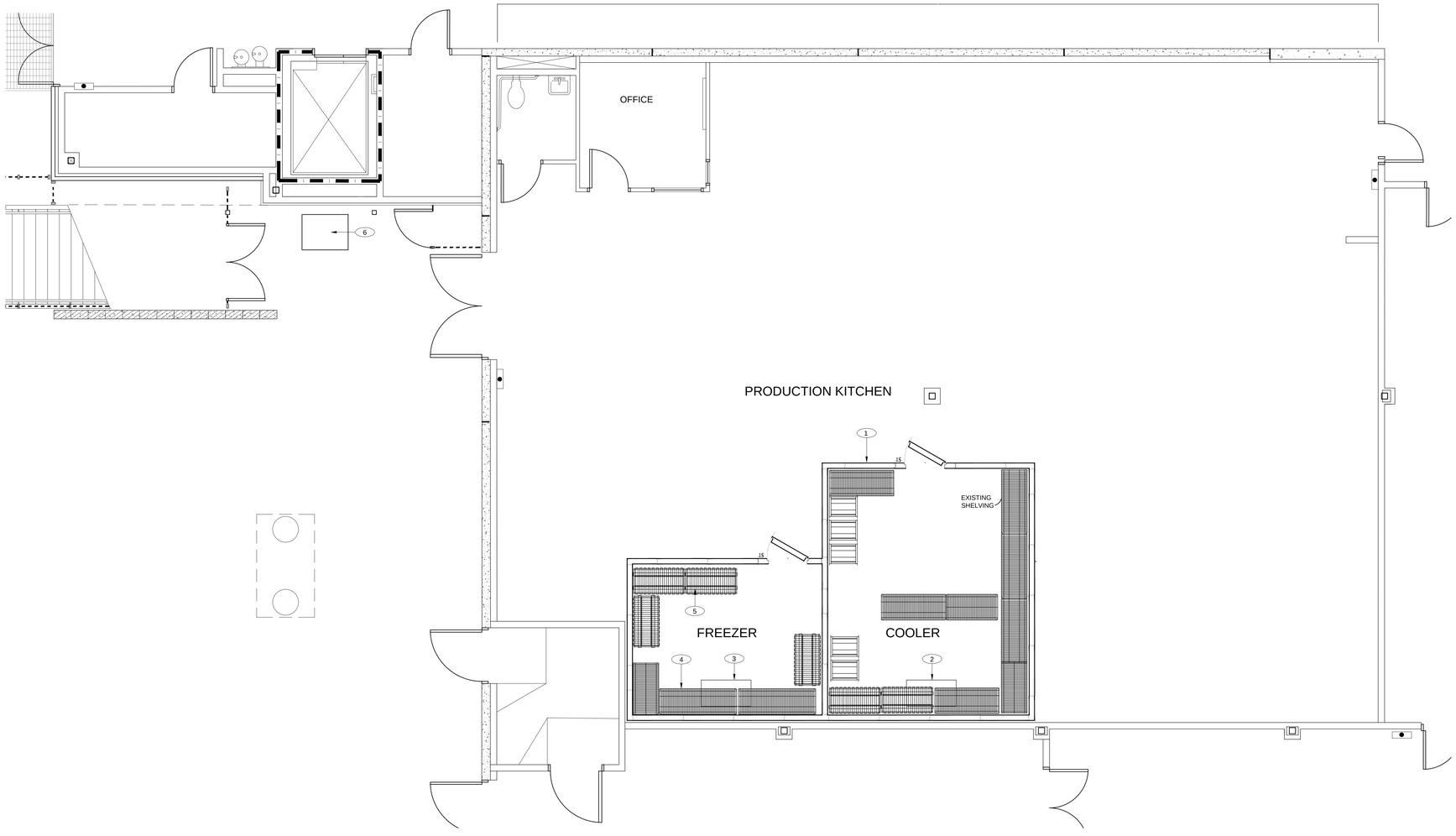
ISSUE

BIM 360:/XXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

SCALE CHECK
1" = 1'-0"

2022.XX.XX X:XX:XX XX

EQUIPMENT SCHEDULE					PLUMBING		ELECTRICAL							
ITEM #	QTY.	DESCRIPTION	MANUFACTURER	MODEL #	I.W.	PLUMBING REMARKS	VOLTS	K.W.	AMPS	H.P.	PHASE	ELEC. CONN.	ELECTRICAL REMARKS	GENERAL REMARKS
1	1	WALK-IN COOLER/FREEZER (REMOTE)	IMPERIAL BROWN	CUSTOM			120		10.0		1	D	WIRE THRU LIGHTS, SWITCH AND FREEZER DRAIN LINE HEATER	
2	1	EVAPORATOR COIL (COOLER)	RDT	BEL0155	F.S.	DRAIN TO EXISTING FLOOR SINK	*		*		*	D	SEE SHT. X FOR ELEC. REQMTS.	SEE SHT. X FOR ADDITIONAL INFO
3	1	EVAPORATOR COIL (FREEZER)	RDT	BEL0130	F.S.	DRAIN TO EXISTING FLOOR SINK	*		*		*	D	SEE SHT. X FOR ELEC. REQMTS.	SEE SHT. X FOR ADDITIONAL INFO
4	3	FREEZER SHELVING	CAMBRO	CAMSHELVING										
5	4	DUNNAGE RACK	METRO	HP55C										
6	1	REMOTE REFRIGERATION RACK (OUTDOOR, AIR-COOLED)	RDT	ZS2-02Z-CT3-AST			208-230		28.8		3	D	SEE SHT. X FOR ELEC. REQMTS.	SEE SHT. X FOR ADDITIONAL INFO



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

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Beaverton School District

BEAVERTON SCHOOL DISTRICT

16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

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SEAL

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PROJECT

SOUTHRIDGE HS
FREEZER REPLACEMENT

9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO: XXXXXX	
DRAWN BY: **XX**	CHECKED BY: **XX**
PROJECT MGR: **XX**	APPROVED BY: **XX**

SHEET TITLE

FOODSERVICE
EQUIPMENT PLAN

SHEET NUMBER

FS-101

ISSUE

BIM 360:/XXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

SCALE CHECK
1in

2022-XX-XX XX:XX:XX XX

REFRIGERATION NOTES

1 REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION LINES WHERE REQUIRED BY CODE.

2 REFRIGERATION CONTRACTOR SHALL VERIFY LOCATION OF ALL REMOTE REFRIGERATION SYSTEM COMPONENTS, INCLUDING EVAPORATOR COILS, REFRIGERATION RACK, COMPRESSORS, CONDENSORS, ETC.

3 REFRIGERATION CONTRACTOR SHALL VERIFY LOCATION OF PITCH POCKET FOR REFRIGERATION LINE PENETRATION THRU ROOF WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO INSTALL PITCH POCKETS, CURB, CAP AND FLASHING.

4 GENERAL CONTRACTOR TO PROVIDE A WATERPROOF SEAL OF ALL PENETRATIONS THROUGH THE ROOF AFTER REFRIGERATION LINES HAVE BEEN RUN.

5 REFRIGERATION CONTRACTOR TO SEAL ENDS OF CONDUIT AFTER ALL REFRIGERATION LINES HAVE BEEN RUN.

6 CLEARANCE IS REQUIRED AROUND THE PERMITER OF ROOF MOUNTED REFRIGERATION EQUIPMENT FOR SYSTEM MAINTENANCE. REFER TO MANUFACTURER'S MINIMUM SPACE REQUIREMENTS.

7 PROPER VENTILATION IS REQUIRED FOR REFRIGERATION EQUIPMENT/RACK. SEE REFRIGERATION SYSTEM DRAWINGS FOR REQUIREMENTS AND MANUFACTURERS DATA OR INSTALLATION REQUIREMENTS

8 REFRIGERATION RACK SYSTEM MANUFACTURER TO PROVIDE AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS (FUSED DISCONNECT, TIME CLOCKS, MAGNETIC STARTERS, DRAIN LINE HEATERS, ETC.) AND FACTORY WIRED (CONDUIT AND CABLE) FOR ALL CONTROLS WITHIN THE REFRIGERATION SYSTEM (PER DIVISION 16) TO A SINGLE POINT OF SERVICE FOR POWER CONNECTIONS. REFRIGERATION RACK SHALL BE UL LISTED. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT AND WIRING BETWEEN REFRIGERATION RACK AND REMOTELY LOCATED SYSTEM COMPONENTS.

9 ALL SYSTEMS AND COMPONENTS SHALL BE LABELED. PROVIDE A COPY OF THE REFRIGERATION PLAN IN AN EASILY ACCESSIBLE WEATHER PROTECTED AREA.

REFRIG. SYMBOLS

A,B,C... IDENTIFIES REFRIGERATION SYSTEM AS SHOWN ON SHEET FS-502

12"X12" PULLBOX W/ 1 CONDUIT

12"X12" PULLBOX W/ 2 CONDUITS

12"X12" PULLBOX W/ 3 CONDUITS

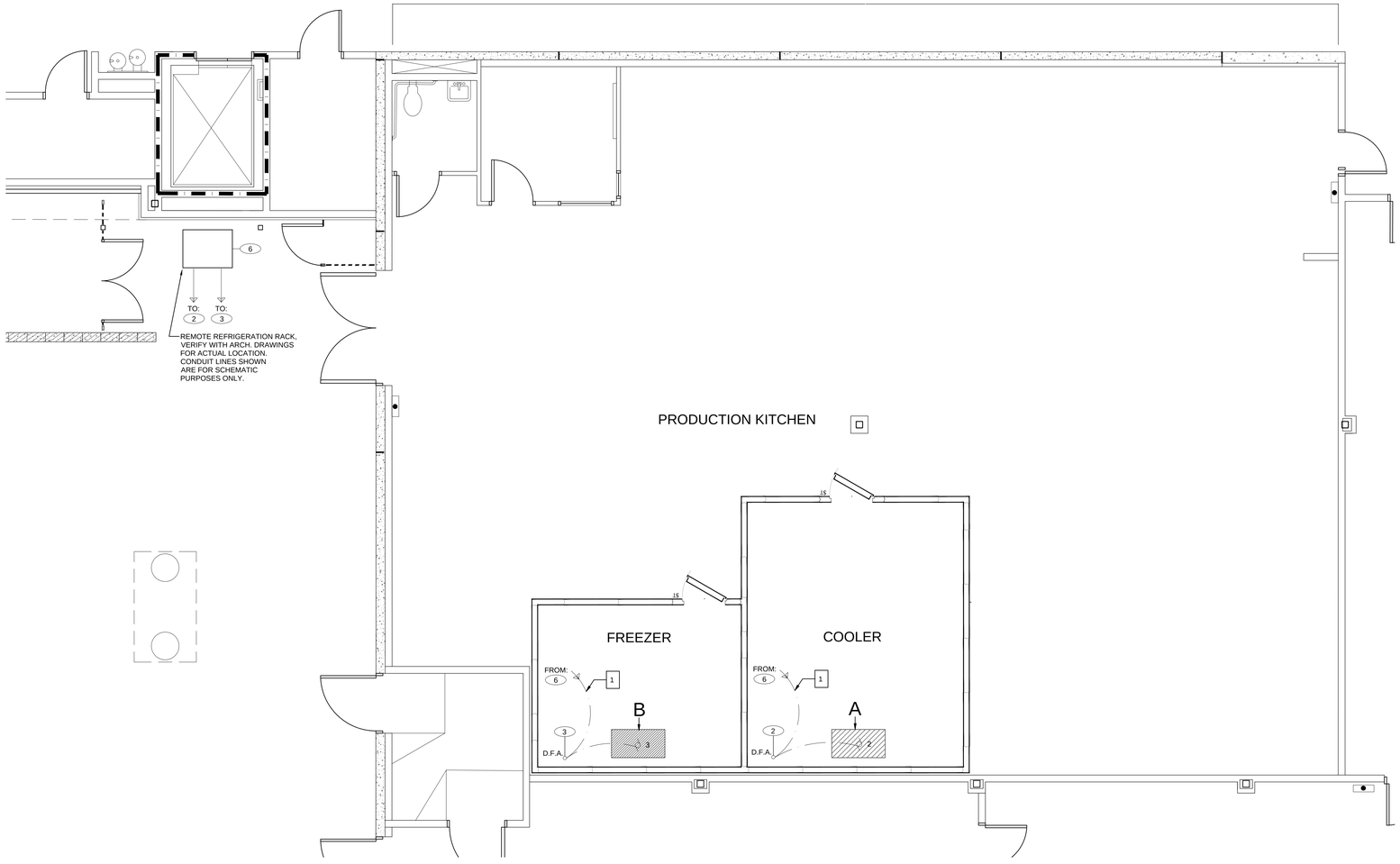
1 OVERHEAD REFRIGERATION LINE RUN THROUGH ACCESSIBLE CEILING.

INDICATES REFRIGERATED EQUIPMENT CONNECTED TO REFRIGERATION RACK

INDICATES FREEZER EQUIPMENT CONNECTED TO REFRIGERATION RACK

NOTE: CONDUIT LINE RUNS SHOWN ARE FOR SCHEMATIC PURPOSES ONLY. ACTUAL RUNS TO BE DETERMINED BY FIELD CONDITIONS.

*PROVIDE PULL BOX EVERY 50 FEET



1 REFRIGERATION CONDUIT PLAN
1/4" = 1'-0"

True North

Project North

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BEAVERTON SCHOOL DISTRICT
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ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

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PROJECT
SOUTHRIDGE HS
FREEZER REPLACEMENT
9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO: XXXXXX	
DRAWN BY: **XX**	CHECKED BY: **XX**
PROJECT MGR: **XX**	APPROVED BY: **XX**

SHEET TITLE
REFRIGERATION CONDUIT PLAN

SHEET NUMBER
FS-501

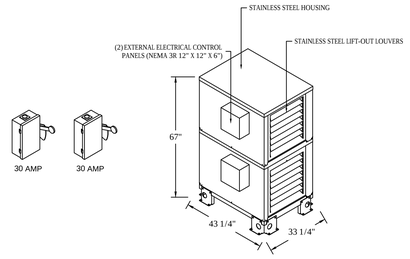
ISSUE

BIM 360:/XXXXXX BSD SOUTHRIDGE HS FREEZER REPLACEMENT

SCALE CHECK
1in

2022-XX-XX XX:XX:XX XX

MODEL NO. ZS2-02Z-CT3-AST
OUTDOOR AIR COOLED REFRIGERATION SYSTEM



NOTE:
- CRANKCASE HEATERS
- FAN CYCLING SWITCH (LOW TEMP)
- HEADMASTER CONTROLS (MEDIUM TEMP)
- (2) 30A NON-FUSED DISCONNECTS SHIPPED LOOSE

RACK WEIGHT: 575 LBS.

ENGINEERING SUMMARY

POWER SUPPLY: 208-230/60/3

CONDENSING UNIT ITEM #	SYSTEM	FIXTURES ITEM #	FIXTURES DESCRIPTION	FIXTURES TEMP °F FIXT.	FIXTURES TEMP °F SUCT.	FIXTURES REQ'D FIXTURE BTU/H	FIXTURES REFRIG. R-	CONDENSING UNIT COMPRESSOR MODEL NO.	H.P.	RATING @ 60 HZ RLA	RATING @ 60 HZ V	RATING @ 60 HZ PH	BTU CAP @ AMB °F 95	TYPE	REC. CAP. (lbs)	CONDENSER	EVAPORATOR COILS ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ RLA	FAN MOTORS @ 60 HZ V	FAN MOTORS @ 60 HZ PH	HEATERS @ 60 HZ RLA	HEATERS @ 60 HZ V	HEATERS @ 60 HZ PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	CONTROLLER QTY	ACCESSORIES TSTAT	ACCESSORIES SOL. VALVE	ACCESSORIES EXP. V.V.	REFRIGERANT LINE SIZES (IN) SUCT.	REFRIGERANT LINE SIZES (IN) SUCT. LINE RISER	REFRIGERANT LINE SIZES (IN) LIQUID	LINE RUN (FT)	TYPE	TOTAL SYSTEM LOAD	MCA	MOPD
-	A	-	WALK-IN COOLER	35	25	16287	448A	ZB15KCE	2.0	9.9	208	3	18050	Z	20.9	L2R	-	BEL0155	1	2.7	115	1				O.C.	ECOSMART	1	F	F	EF	7/8	7/8	3/8	100	M	9.9	12.4	20A
	B	-	WALK-IN FREEZER	-10	-20	13755	448A	ZF15K4E	5.0	18.9	208	3	15600	Z	5.8	L3R	-	BEL0130	1	1.5	208	1	13.7	208	1	ELEC	ECOSMART	1	F	F	EF	1-1/8	1-1/8	3/8	100	100	18.9	23.6	30A

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

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.

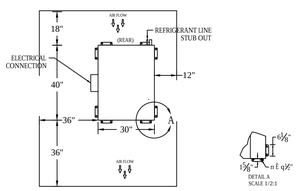
COMPRESSOR TYPE
Z SCROLL
H HERMETIC
S SEMI-HERMETIC
D DISCUS

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)

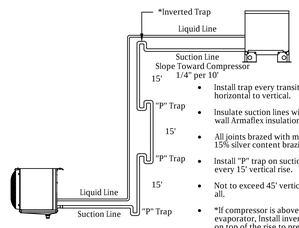
PLANVIEW/ CLEARANCE REQUIREMENTS



NOTE: MINIMUM CLEARANCE REQUIRED FOR PROPER OPERATION

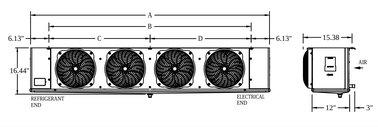
NOTE: ROOF CURB OR GROUND PAD CAN BE SAME SIZE AS OUTDOOR UNIT

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							
155	61-1/2	49-1/4	-	-	1/2 OD	7/8 OD	3/4 MPT	67	3	2.7	1.5

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 208-230/60/3	208-230/60/1	460/60/1
	Inches	Inches	Inches	Inches									
130	61-1/2	49-1/4	-	-	1/2 OD	7/8 OD	3/4 MPT	71	3	1.5	13.7	8.5	6.8

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.

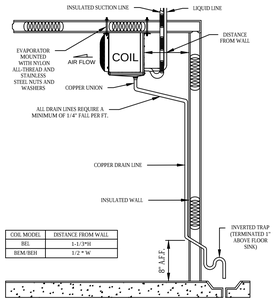
Electrical contractor to connect drain-line heater in the freezer.

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.

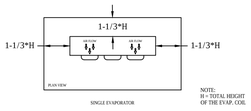
All plumbing installation shall be in accordance with local codes.

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)



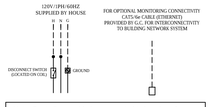
SINGLE EVAPORATOR

NOTE:
H = TOTAL HEIGHT OF THE EVAP. COIL

WIRING DIAGRAM - ECO-SMART - AKOA1AE DEMAND DEFROST CONTROLLER FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

ITEM	DESCRIPTION	VOLTAGE
A	WALK-IN COOLER	115/1



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

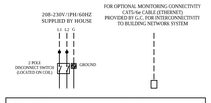
PRIMARY COIL
(3) 115V 12AWG MIN. TO PROVIDE HOUSE POWER TO THE COIL (HOT, NEUTRAL, GROUND)

FACTORY WIRING ————————
FIELD WIRING – – – – – – – –

WIRING DIAGRAM - ECO-SMART - AKOB1EE DEMAND DEFROST CONTROLLER FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

ITEM	DESCRIPTION	VOLTAGE
B	WALK-IN FREEZER	230/1



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

PRIMARY COIL
(3) 208V 12AWG SIZE ACCORDING TO HEATER LOAD AND LOCAL CODE) TO PROVIDE HOUSE POWER TO THE COIL (L1, L2 AND GROUND)

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

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No.	Revision/Issue	Date
0	ORIGINAL ISSUE	05-11-12

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Webb Foodservice Design
Portland, OR

Dealer
-
-

Southridge High School
Beaverton, OR

Project No: 27454
Designed By: J. Beam
Drawn By: J. Beam
Sheet 1.1 of sheets

CLIENT
Beaverton School District
BEAVERTON SCHOOL DISTRICT
16550 SW Merlo Rd. OR 97003

IBI Group Architects (USA) Inc.
is a member of the IBI Group of companies

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

CONSULTANTS

webb.
1630 S. Lewis St. Anaheim, CA 92805
P 714.938.1880 www.webbfsd.com

SEAL

IBI GROUP
907 SW Harvey Milk Street
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PROJECT
SOUTHRIDGE HS
FREEZER REPLACEMENT
9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO: XXXXXX
DRAWN BY: XX
CHECKED BY: XX
PROJECT MGR: XX
APPROVED BY: XX

SHEET TITLE
REFRIGERATION DETAILS

SHEET NUMBER FS-502
ISSUE

True North
Project North

SCALE CHECK 1" = 1'-0"

BIM 360/XXXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

2022-XX-XX XX:XX:XX XX

SPECIFICATIONS
Indoor combo (no floors)
Vinyl foam NSF gasket (1/16" joint thickness), Cam-lock layout #4

SPECIAL INSTRUCTIONS
No Wood Construction
UL Label required on every panel
Standard crating

WALL PANELS
Construction: 5" high density urethane
Exterior Finish: .040 stucco white aluminum / 20 ga. smooth galvanized
Interior Finish: .040 stucco white aluminum
Ceiling connections: Camlock
Floor connections: Angle screed

CEILING PANELS
Construction: 5" high density urethane
Exterior Finish: 20 ga. smooth galvanized
Interior Finish: .040 stucco white aluminum
Ceiling Caps: Factory mounted
Live Load: 10 psf

DOORS
[A]: 36" x 84" flush model G3 self-closing freezer door
*** NO WOOD BACKING ***
*** ELECTRICAL COMPONENTS PRE-WIRED ***
*** LEAF WILL NOT BE RAISED UNLESS SPECIFIED OTHERWISE ***
Brand: Imperial Brown
Frame: 5" high density urethane, 4-sided (9 1/2" high sill)
w/ .040 stucco white aluminum both sides
w/ 24 ga. stainless steel 430 (magnetic) liners
w/ 4-sided heat cable in frame [FL-4-110W]
(26'-5" x 5 ohms/ft (132 total) @ 4.2 W/ft + Pepi - 120V, 1A)
Leaf: 5" thick, 3-side lap, standard height
w/ .040 stucco white aluminum both sides
w/ Magnetic gasket
(3) Kason #1245 reversible cam-rise hinge
(1) Kason #1229 handle only
(1) Kason 'PUSH' pad
(1) Dorma #8616 FHP 689 door closer
(1) Kason #944 deadbolt w/ re-keyable core upgrade
(1) Modularm 75LC multi-monitor temperature alarm w/IP-1 illum. push button and flush door ajar sensor
(2) Terminal J-Box @ int.
(1) Kason 1832 heated air vent (23W, 120V, .2A)
(1) 14" x 14" heated view window (50W, 120V, 0.42A)
(1) 12 ga. stainless steel 304 #2B threshold
36" high AFF .125 aluminum diamond tread kickplates (leaf, ext. & int.)

[B]: 36" x 84" flush model G3 self-closing cooler door
*** NO WOOD BACKING ***
*** ELECTRICAL COMPONENTS PRE-WIRED ***
*** LEAF WILL NOT BE RAISED UNLESS SPECIFIED OTHERWISE ***
Brand: Imperial Brown
Frame: 5" high density urethane, 3-sided
w/ .040 stucco white aluminum both sides
w/ 24 ga. stainless steel 430 (magnetic) liners
Leaf: 5" thick, 3-side lap, standard height
w/ .040 stucco white aluminum both sides
w/ Magnetic gasket
(3) Kason #1245 reversible cam-rise hinge
(1) Kason #1229 handle only
(1) Kason 'PUSH' pad
(1) Dorma #8616 FHP 689 door closer
(1) Kason #944 deadbolt w/ re-keyable core upgrade
(1) Modularm 75LC multi-monitor temperature alarm w/IP-1 illum. push button and flush door ajar sensor
(2) Terminal J-Box @ int.
(1) 14" x 14" heated view window (50W, 120V, 0.42A)
36" high AFF .125 aluminum diamond tread kickplates (leaf, ext. & int.)

PARTS
(6) ea. 4' LED light fixture w/ (2) LED lamps for cooler or freezer application (Keil -36W, 120V, 0.3A) - (Fixture ships loose for field installation.)
(7) ea. IB cove base - 6" x 96" x .080 smooth aluminum
(1) Set Pit Material - Pit size = 151" x 187" x 9 1/2" deep
Insulation thickness = 6"
Includes Dow 24" x 96" x 2" stock board urethane, 6 mil. Visqueen vapor barrier, 15# building felt and asphalt emulsion
(2) ea. (2" x 4") x 96" x .040 stucco white aluminum outside corner vertical closure
(2) ea. (2" x 4") x 48" x .040 stucco white aluminum outside corner vertical closure
(7) ea. (2" x 2") x 96" x .080 smooth aluminum (w/ Simpson Titen screws) Interior seismic tie-down @ floor level
(9) ea. (6" x 1 1/2") x 96" x .080 smooth aluminum (w/ Simpson Titen screws) Combination interior cove base/seismic tie-down @ floor level
(17) ea. (2" x 2") x 96" x .040 stucco white aluminum Interior seismic tie-down @ ceiling level

NOTES
Oregon Seal
Meets 2009 Federal Energy Independence and Security Act Requirements.

STANDARD NOTES
To prevent condensation, a minimum 2" from the walk-in exterior surface is required. High humidity conditions may require force ventilation in addition to clearance.

Installation site floor must be true and level within 3/16" per 10' or additional costs may be incurred.

R-Plus Doors sliding and vertical lift doors shall not be considered means of egress. Check code egress requirements for your application.

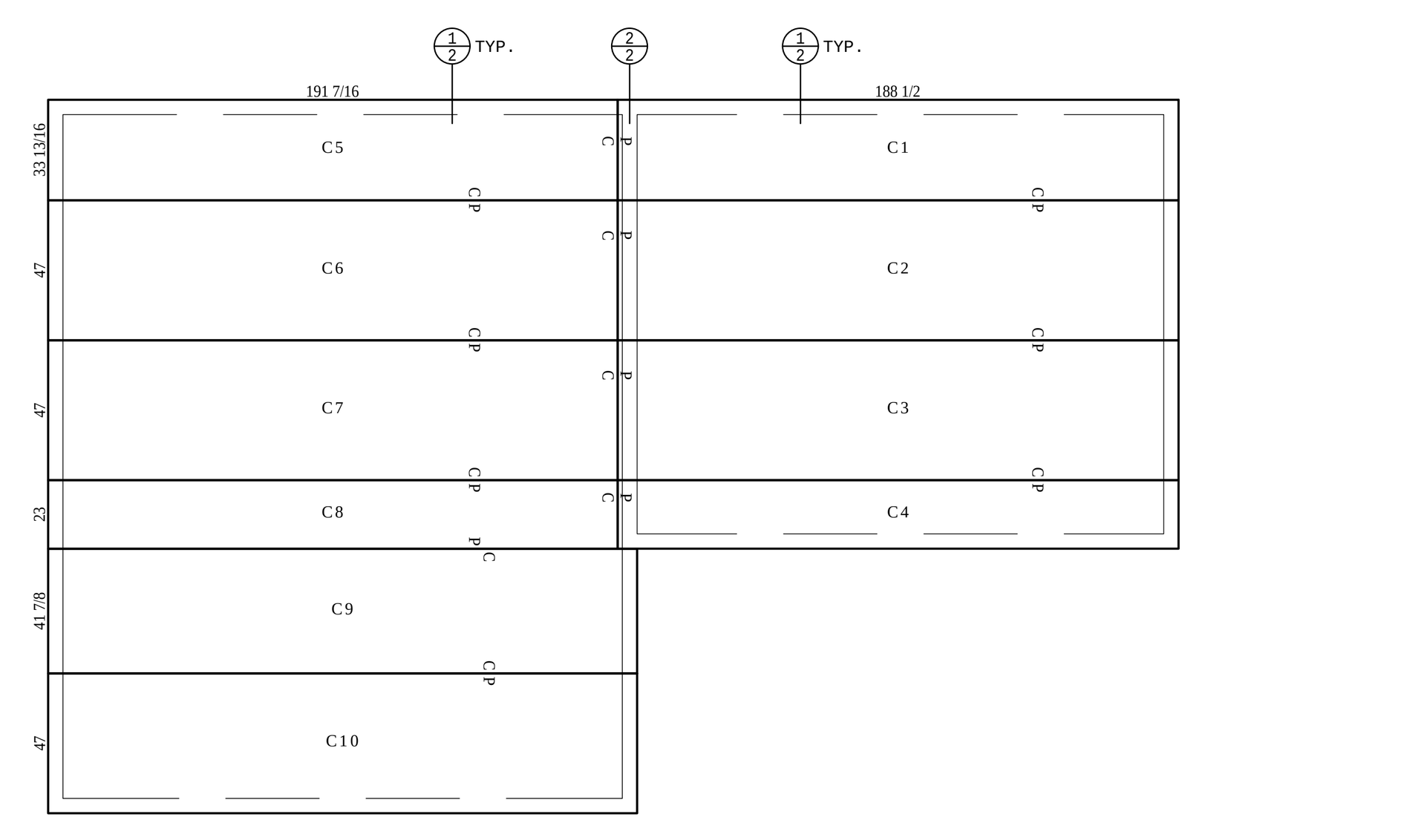
INSULATED PIT
Insulated pit plan is provided to locate thermal break and door notch locations and size. Pit depth, concrete floor above and below insulation, design, reinforcement, thickness & construction of concrete should be designed by a Qualified Professional Engineer familiar with cold storage design, the site conditions and end users application. See project contract documents. All concrete and excavation work & design is by others.

RECESSED PIT
Recess plan is provided to set min. size to allow panel installation. Recess depth, concrete floor above and below insulation, design, reinforcement, thickness & construction of concrete should be designed by a Qualified Professional Engineer familiar with cold storage design, the site conditions and end users application. See project contract documents. All concrete and excavation work & design is by others.

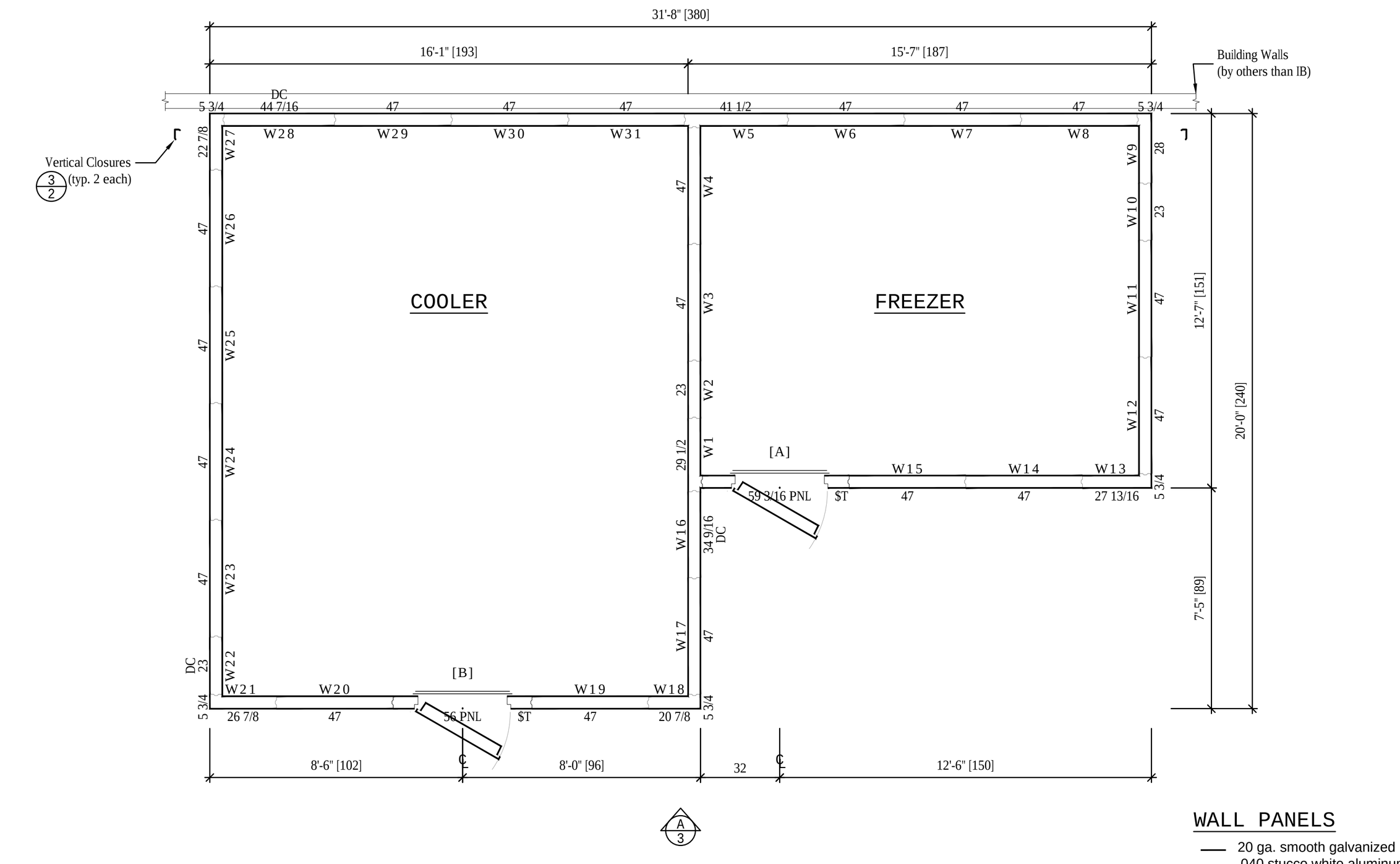
ELECTRICAL
Field electrician to verify maximum acceptable load for light switches.If load is too high, then relay type controls should be used.
After wiring devices, ALL conduits must be sealed to stop moisture transfer through electrical raceways.
Failure to seal device per NEC codes WILL VOID WARRANTY.

ENGINEERING
Foundation, special inspection, footings, anchor bolt embedment, edge distances and all reinforcing are to be designed by a qualified professional engineer based on concrete strength and specific soil condition at the building site.
Foundation and freezer pit to be designed for loads designated on plan and/or in engineering calculations.
All foundation dimensions to be field verified.
All mechanical unit anchorage and support to be designed by others.
All connectors or elements in contact with aluminum to be stainless steel (STL/STL).
If walk-in ceiling is suspended, existing roof structure to be designed by others for loads induced from new walk-ins where shown on plans and/or in engineering calculations.
Walk-in is designed for code applied loads.
Design does not include static pressure review.
Components of all doors, windows, and openings to be designed for loads induced by wind, design by others.
All loads are service loads.
Special Inspection is required per IBC 1704 and 1707 for post installed anchor bolts (for California, follow CBC 1704 and 1707).

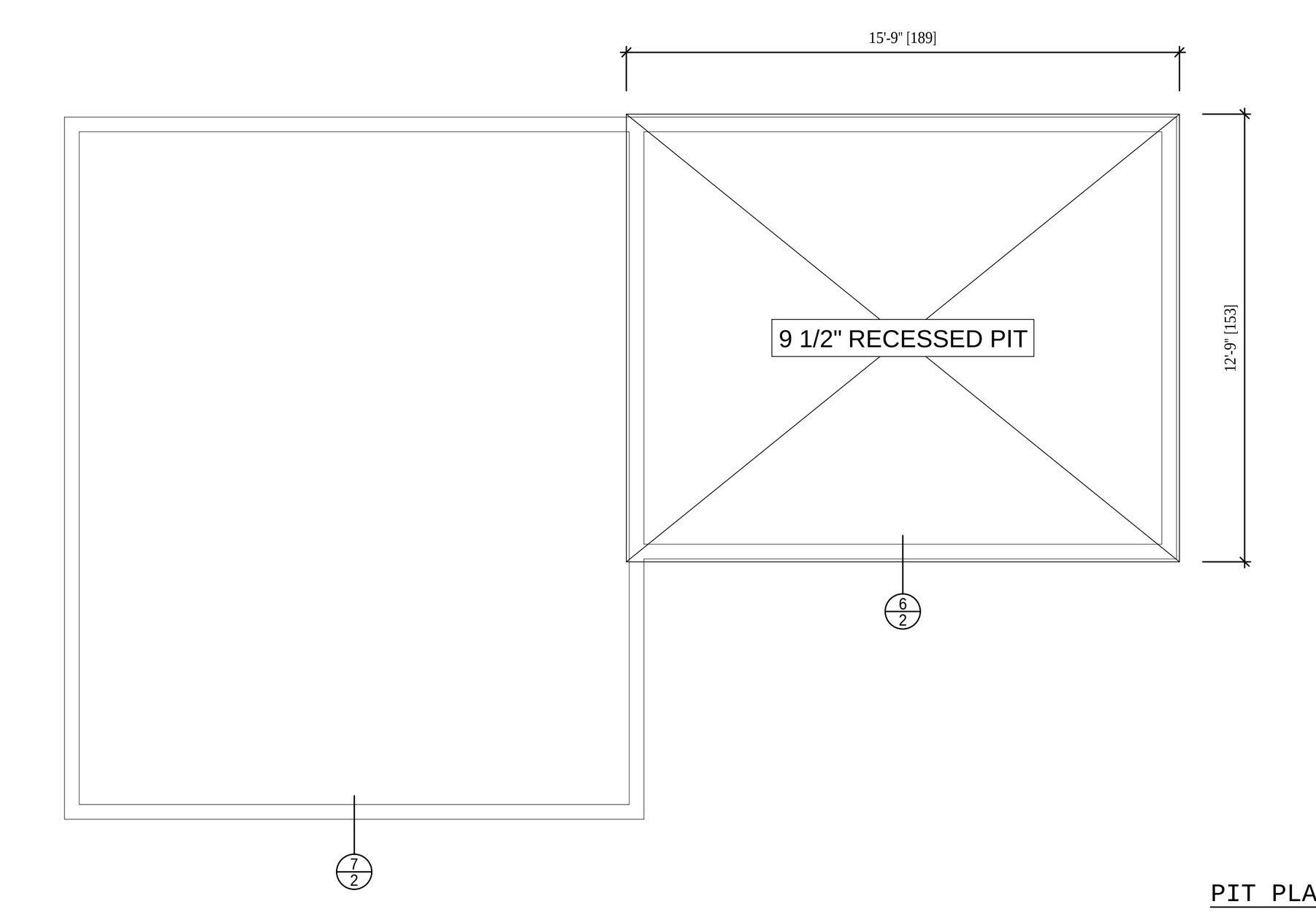
REVISIONS
01 05/27/2022 Remove ceiling closures and strip curtains, update door hardware.



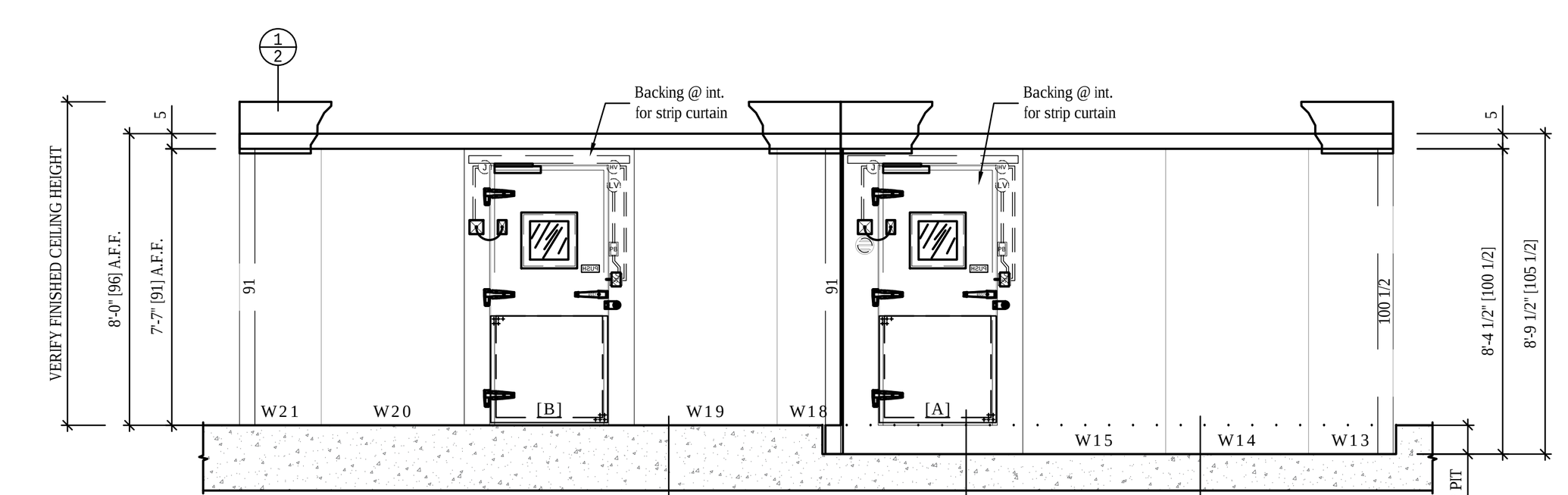
CEILING PANELS



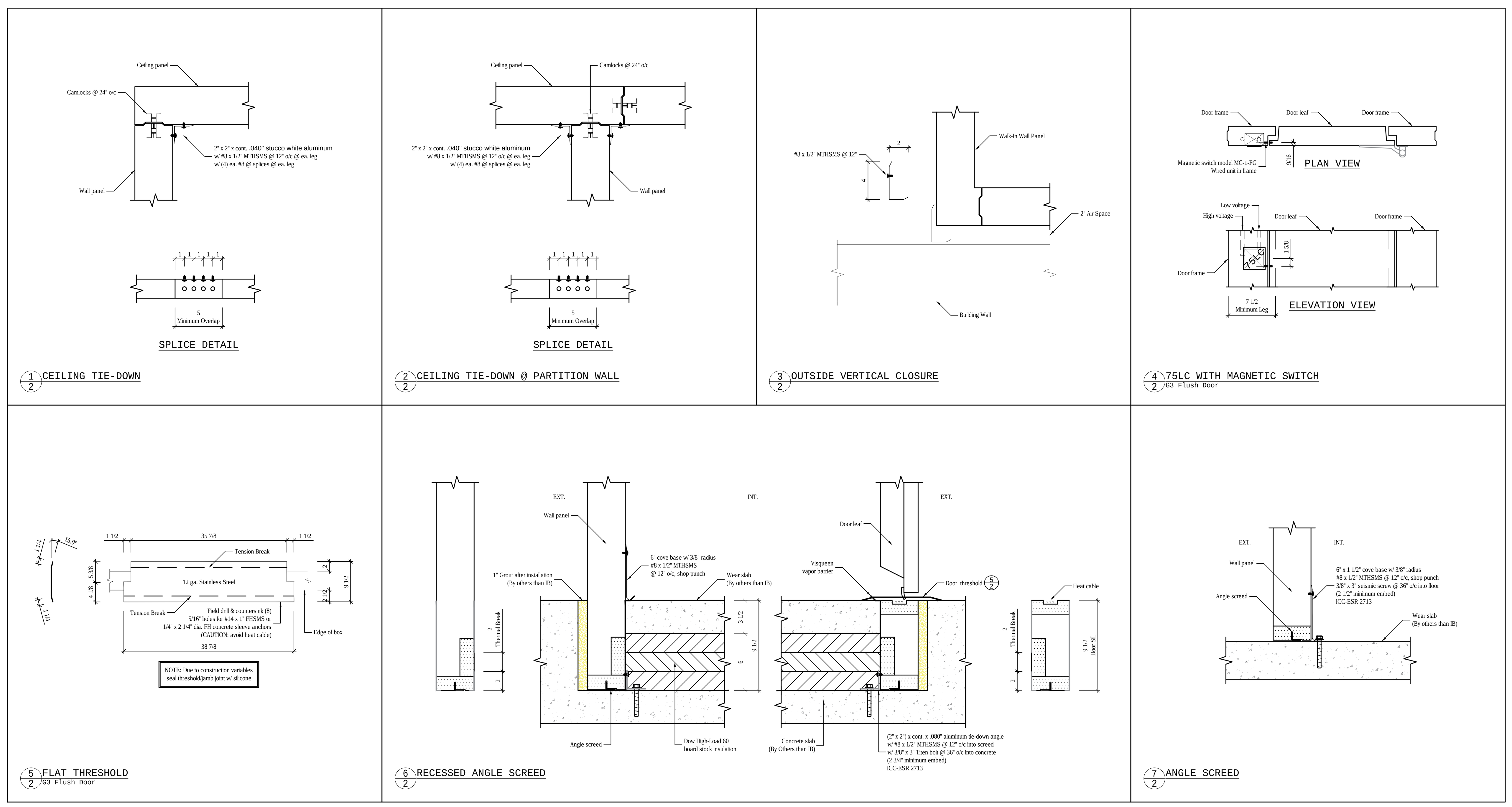
WALL PANELS
20 ga. smooth galvanized
.040 stucco white aluminum



PIT PLAN



ELEVATION



NSF LABEL
COMPONENT
N.S.F. LISTED (STD #7)
N.S.F. GASKET @ ALL PANEL JOINTS

THE MINIMUM BTU'S SHOWN ARE BASED ON NSF STANDARD #7, SECTION 5, PARAGRAPH 5.36.7, REQUIREMENTS (REF. TABLE 1). THESE NUMBERS ARE NOT INTENDED TO BE USED FOR SIZING OF REFRIGERATION UNITS FOR THIS WALK-IN. THE MANUFACTURER RECOMMENDS CONSULTING WITH A QUALIFIED ENGINEER OR REFRIGERATION CONTRACTOR.

CONSTRUCTION LEGEND:
5" high density urethane

22-IB-74722-01
NOT FOR CONSTRUCTION
PRELIMINARY

IMPERIAL BROWN
198 SE 233rd Ave.
Gresham, OR 97030
Phone: 503-665-5539
Fax: 503-665-2929
www.imperial-brown.com

DO NOT SCALE THIS DRAWING
SCALE: 3/16" = 1'-0"
DATE DRAWN: 5/9/2022
DATE PRINTED: 5/27/2022
BY: Kyle Lewis
DRAWING: 22-IB-74722-01
BOX: 1 OF 1
SHEET: 1 OF 1

True North
Project North

CLIENT
Beaverton School District
16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

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SOUTHRIDGE HS
FREEZER REPLACEMENT
9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO: XXXXXX
DRAWN BY: XX | CHECKED BY: XX
PROJECT MGR: XX | APPROVED BY: XX

SHEET TITLE
WALK-IN DETAILS

SHEET NUMBER
FS-503
ISSUE

BIM 360://XXXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

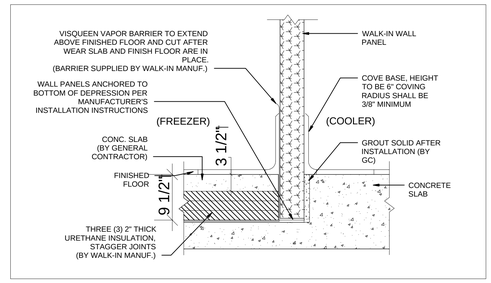
SCALE CHECK 1 in 10mm

BUILDING WORKS NOTES

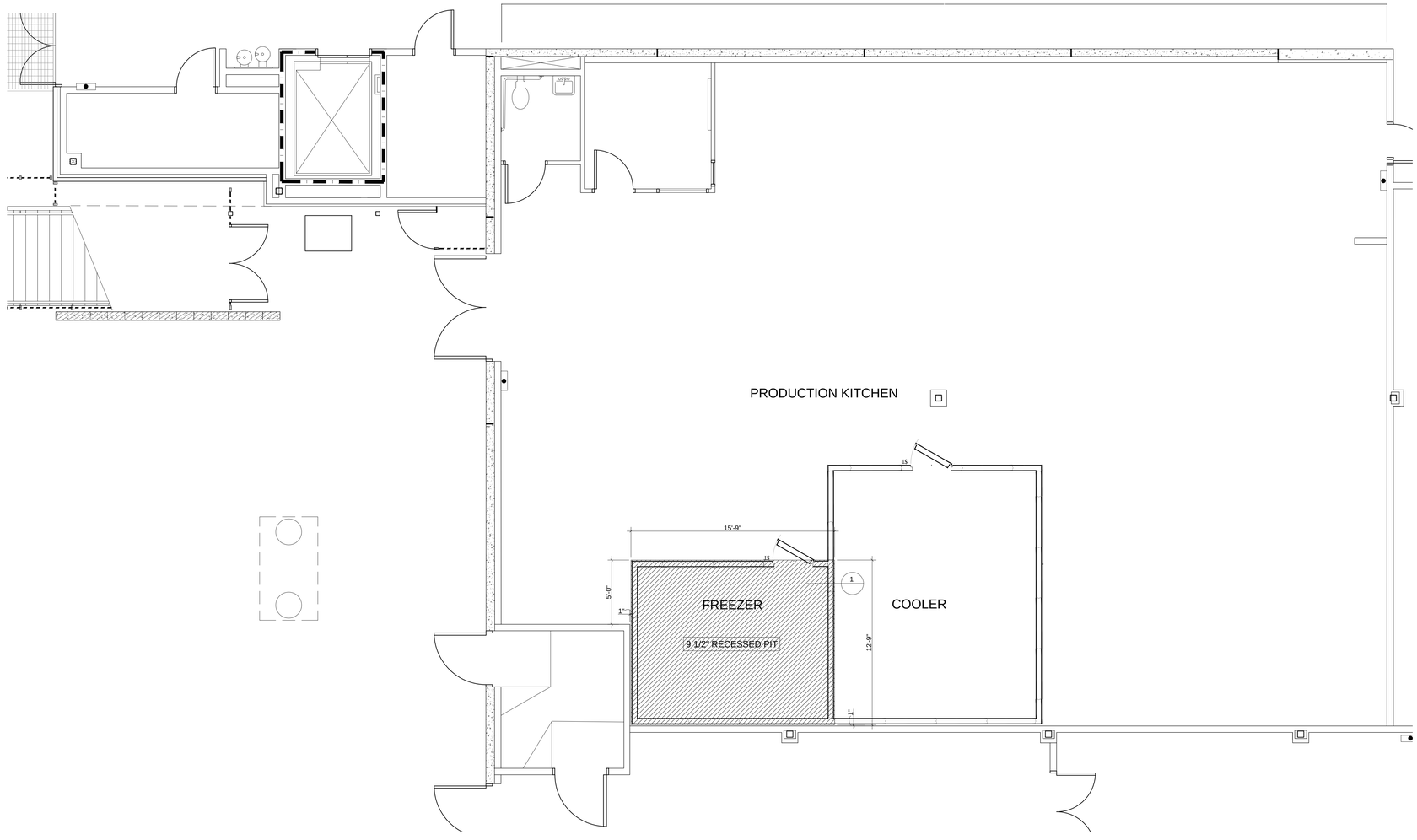
1. ALL WORK SHOWN ON BUILDING WORKS PLAN TO BE BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

BLDG. WORKS LEGEND

INDICATES FREEZER DEPRESSION



1 FREEZER DEPRESSION DETAIL - FREEZER TO COOLER
NOT TO SCALE



1 BUILDING WORKS PLAN
1/4" = 1'-0"

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Project North

CLIENT
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BEAVERTON SCHOOL DISTRICT
16550 SW Merlo Rd. OR 97003

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SEAL

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PROJECT
SOUTHRIDGE HS
FREEZER REPLACEMENT
9625 SW 125TH AVENUE
BEAVERTON, OR 97008

PROJECT NO: XXXXXX	
DRAWN BY: **XX**	CHECKED BY: **XX**
PROJECT MGR: **XX**	APPROVED BY: **XX**

SHEET TITLE
BUILDING WORKS PLAN

SHEET NUMBER
FS-504

ISSUE

BIM 360:/XXXXXX - BSD SOUTHRIDGE HS FREEZER REPLACEMENT

SCALE CHECK
1in

2022-XX-XX XX:XX:XX XX

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
&	AND
@	AT
BFF	BELOW FINISHED FLOOR
BF	BLIND FLANGE
BLDG	BUILDING
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
(X)	DEMOLISH
DN	DOWN
D	DRAIN
DWV	DRAINAGE, WASTE AND VENT
ELECT	ELECTRICAL
ESV	ELECTRONIC SOLENOID VALVE
(E)	EXISTING
FT	FEET
FPS	FEET PER SECOND
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK, FLOW SWITCH
'	FOOT, FEET
(F)	FUTURE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HZ	HERTZ
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
KW	KILOWATT
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
QTY	QUANTITY
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SJ	SEISMIC JOINT
SHT	SHEET
SF	SQUARE FEET
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
V	VACUUM, VENT, VOLT
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN
WC	WATER COLUMN, WATER CLOSET
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- CONTINUATION
- XX-X LOCATION — EQUIPMENT IDENTIFICATION
- EXTENT OF DEMOLITION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- X — KEYED NOTE
- PIPE BELOW GRADE
- POINT OF CONNECTION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

Piping Fittings

- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- FCO — FLOOR CLEANOUT
- FS — FLOOR SINK
- PIPE DROP
- PIPE RISE
- TEE DOWN ON PIPE
- TEE UP ON PIPE

Piping Systems

- COLD WATER PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- GW — GREASE WASTE ABOVE GRADE OR FINISHED FLOOR
- GW — GREASE WASTE BELOW GRADE OR FINISHED FLOOR
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR

GENERAL PLUMBING NOTES

A. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT STATE, COUNTY AND NATIONAL CODES AND STANDARDS ADOPTED BY THE LOCAL JURISDICTIONS INCLUDING APPLICABLE AMENDMENTS.

B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO THE OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF THE CONDITION IN CONFLICT WITH THE PLANS.

C. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTIONS LOCATION AND DRAIN LOCATIONS WITH FREEZER / COOLER MANUFACTURER.

D. INSTALL ALL CONDENSATE PIPING AT A MINIMUM SLOPE OF 1/4" PER FOOT.

SHEET INDEX

CLIENT

Beaverton School District

BEAVERTON SCHOOL DISTRICT

16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

CONSULTANTS

INTERFACE ENGINEERING

PROJECT 2022-0525

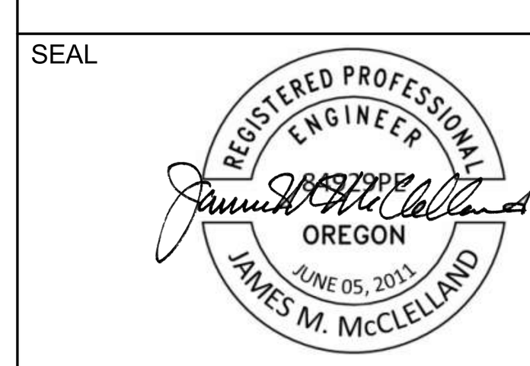
CONTACT TODD KOLIBABA

100 SW Main Street, Suite 1600
Portland, OR 97204

TEL 503.382.2266

www.interfaceengineering.com

SEAL



EXPIRES: 12/31/22

SELECT CONSULTANT TYPE

IBI

IBI GROUP
907 SW Harvey Milk Street
Portland, OR 97205, USA
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PROJECT

BSD Southridge HS Freezer Replacement

16550 SW Merlo Rd. OR 97003

PROJECT NO:
Project Number

DRAWN BY:	CHECKED BY:
TK	**JMM**
PROJECT MGR:	APPROVED BY:
TK	**JMM**

SHEET TITLE

SYMBOL LIST AND GENERAL NOTES - PLUMBING

SHEET NUMBER P0.1

ISSUE 1

SCALE CHECK 1 in 10mm

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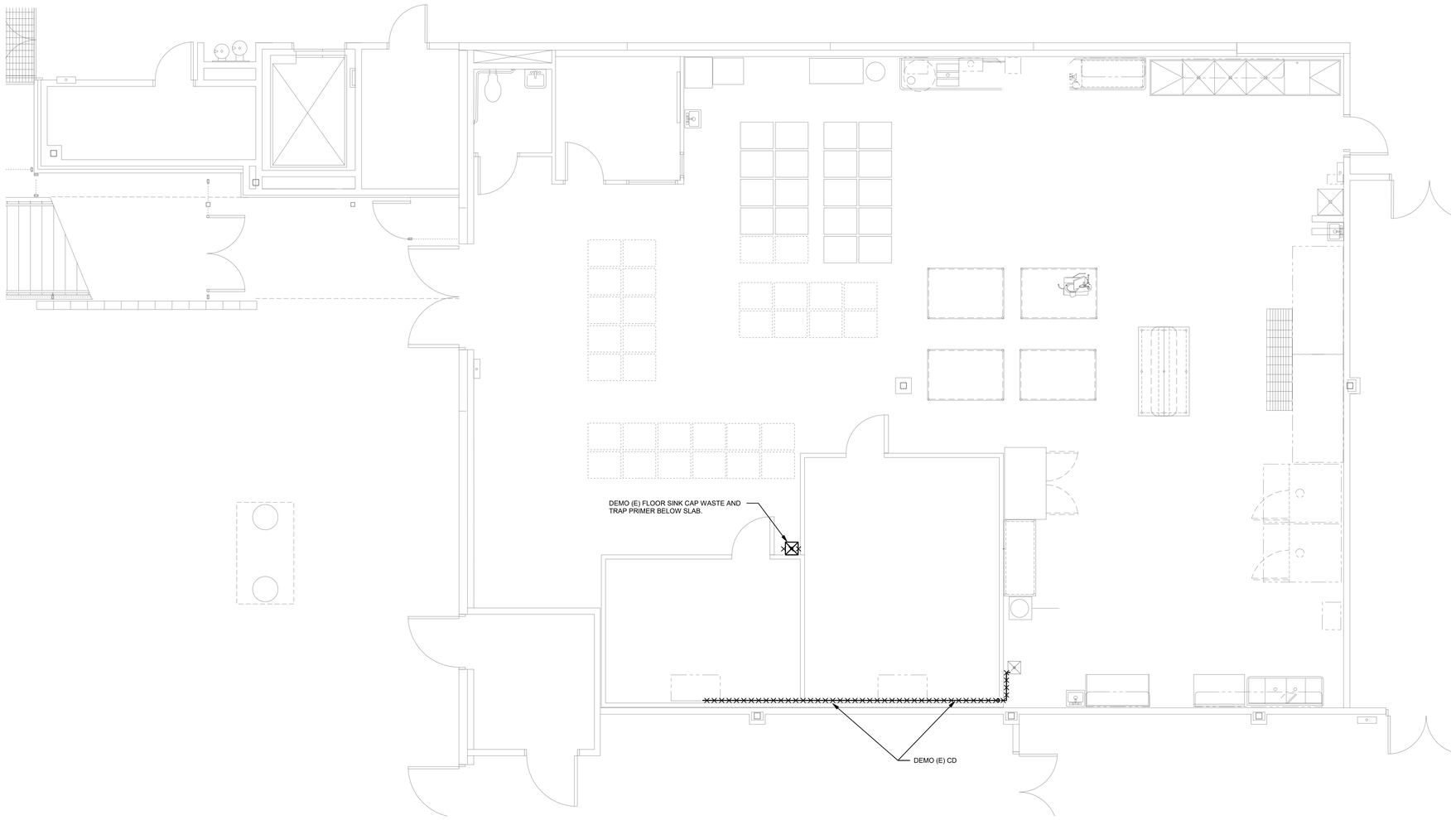

1 DEMO FLOOR PLAN - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

CLIENT

Beaverton School District

BEAVERTON SCHOOL DISTRICT

16550 SW Merlo Rd. OR 97003

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100 SW Main Street, Suite 1600
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SEAL

REGISTERED PROFESSIONAL ENGINEER
OREGON
JUNE 05, 2003
JAMES M. McCLELLAND

EXPIRES: 12/31/22

SELECT CONSULTANT TYPE

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TK	**JMM**
PROJECT MGR:	APPROVED BY:
TK	**JMM**

SHEET TITLE

DEMO FLOOR PLAN - PLUMBING

SHEET NUMBER

PD2.1

ISSUE

1

True North Project North

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Date

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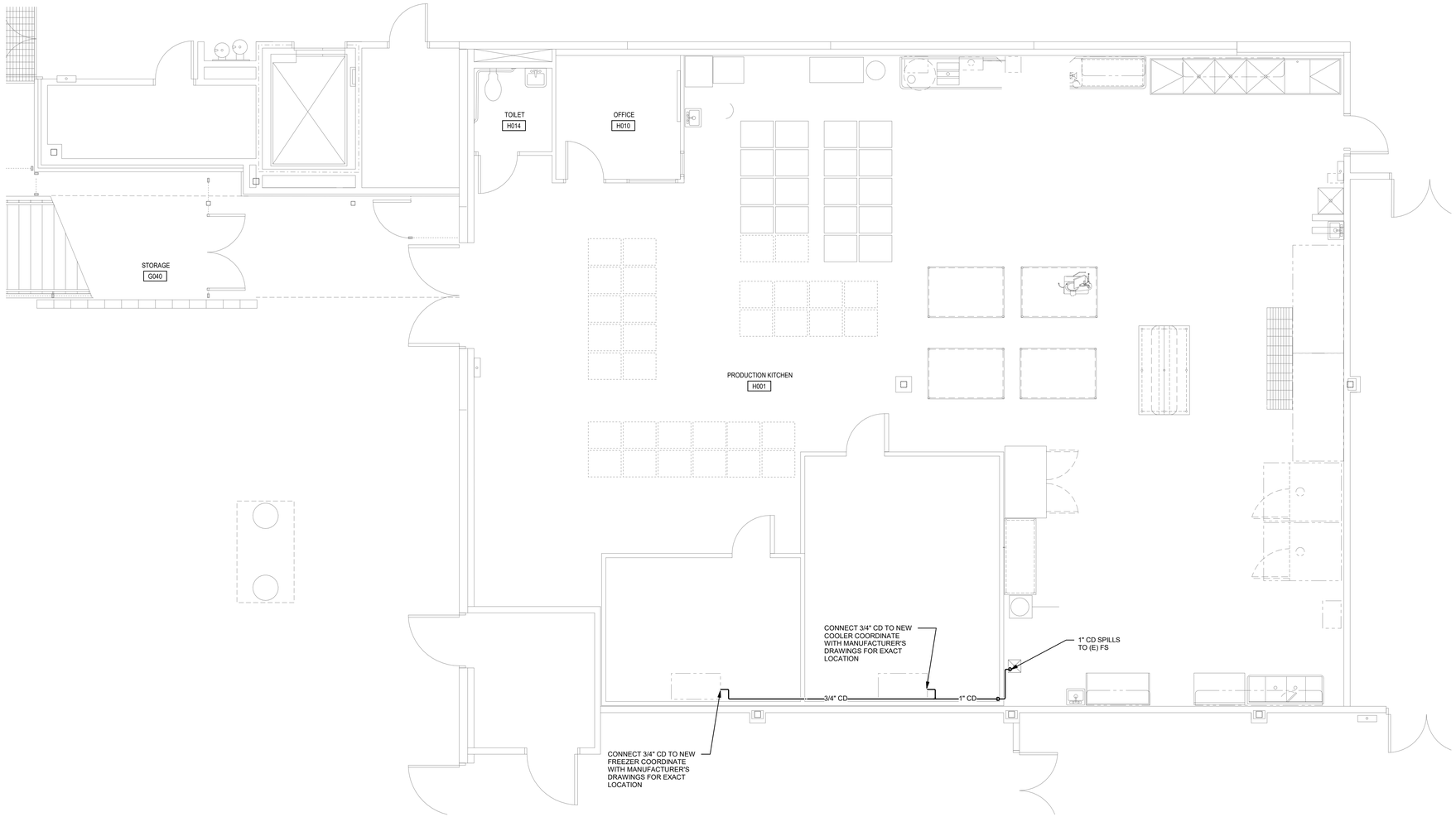

1 FLOOR PLAN - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

6/3/2022 12:05:32 PM

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PROJECT 2022-0525

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SEAL

REGISTERED PROFESSIONAL ENGINEER
OREGON
JUNE 05, 2013
JAMES M. McCLELLAND

EXPIRES: 12/31/22

SELECT CONSULTANT TYPE

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PROJECT

BSD Southridge HS Freezer Replacement

16550 SW Merlo Rd. OR 97003

PROJECT NO: Project Number	
DRAWN BY: TK	CHECKED BY: JMM
PROJECT MGR: TK	APPROVED BY: JMM

SHEET TITLE

FLOOR PLAN - PLUMBING

SHEET NUMBER P2.1

ISSUE 1

True North Project North

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ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARF	ABOVE RAISED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AV	AUDIO VISUAL
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
CB	CIRCUIT BREAKER
C	CONDUIT, CLOSE, CONTROL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
ESD	ELECTROSTATIC DISCHARGE
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FMS	FACILITY MANAGEMENT SYSTEMS
FF	FINISH FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GE	GROUNDING EQUALIZER
HH	HANDHOLE
HT	HEIGHT
HC	HORIZONTAL CROSS CONNECT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MHz	MEGAHERTZ
mA	MILLIAMPERES
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
M	MOTOR
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
MDU	MULTI-DWELLING UNIT
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OSP	OUTSIDE PLANT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
REF	REFERENCE
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SIM	SIMILAR
SPKR	SPEAKER
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TP	TRANSITION POINT
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
VRFY	VERIFY
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
WG	WIRE GUARD
W	WIRE, WHITE
W/	WITH
W/O	WITHOUT
WAO	WORK AREA OUTLET

Connections / Equipment

- VFD — COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH
- M — COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- F — HEAVY DUTY FUSED DISCONNECT SWITCH
- M — MOTOR CONNECTION
- N — NON-FUSED DISCONNECT SWITCH
- J — CEILING MOUNTED JUNCTION BOX
- J — FLOOR MOUNTED JUNCTION BOX
- J — WALL-MOUNTED JUNCTION BOX

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- 1 — KEYED NOTE
- A / XXX — SECTION NUMBER AND SHEET LOCATION
- —X—X— DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- EMERGENCY LUMINAIRE WITH BATTERY PACK
- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED 2' X 4' LUMINAIRE
- WALL MOUNTED LUMINAIRE

Miscellaneous

- #10 #12 B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- DRY TYPE TRANSFORMER
- FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
- FLUSH WALL MOUNTED BRANCH PANEL
- GB — GROUND BAR
- GROUNDING POINT
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- PP — POWER UTILITY POLE
- SUBGRADE VAULT CATV
- SUBGRADE VAULT POWER
- SUBGRADE VAULT TELEPHONE
- SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
- TP — TELEPHONE UTILITY POLE
- UTILITY TRANSFORMER PAD/VAULT

Raceways

- EXISTING CONDUIT CONCEALED IN WALL OR CEILING SPACE
- EXISTING CONDUIT ROUTED BELOW FLOOR / GRADE
- —OP— OVERHEAD PRIMARY SERVICE
- —OT— OVERHEAD TELEPHONE SERVICE
- —C— UNDERGROUND CABLE TELEVISION SERVICE
- —P— UNDERGROUND PRIMARY SERVICE
- —S— UNDERGROUND SECONDARY SERVICE
- —T— UNDERGROUND TELEPHONE SERVICE
- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  C = FLUSH CEILING MOUNTED
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- EQUIPMENT ELECTRICAL CONNECTION
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- PENDANT RECEPTACLE WITH CORD GRIPS. VERIFY PENDANT LENGTH. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  W = WEATHERPROOF SWITCH

GENERAL ELECTRICAL NOTES

A. CONSULT ALL DRAWINGS AND SPECIFICATIONS IN THIS PROJECT AND BECOME FAMILIAR WITH ALL EQUIPMENT TO BE INSTALLED. COORDINATE ALL ASPECTS OF THE CONTRUCTION WITH THE OTHER TRADES ON THE JOB TO ENSURE THAT ALL WORK AND MATERIALS REQUIRED PROVIDE A COMPLETE AND OPERATIONAL FACILITY ARE INCLUDED IN THE BID.

SHEET INDEX

CLIENT
Beaverton School District
BEAVERTON SCHOOL DISTRICT
16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

CONSULTANTS

INTERFACE ENGINEERING
PROJECT 2022-0525
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100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

SEAL

REGISTERED PROFESSIONAL ENGINEER
72777PE
OREGON
JUNE 02, 2010
MARK K. O'LEARY

EXPIRES: 12/31/22

SELECT CONSULTANT TYPE

IBI
IBI GROUP
907 SW Harvey Milk Street
Portland, OR 97205, USA
tel 503 226 6950 fax 503 273 9192
ibigroup-edpnw.com

PROJECT
BSD Southridge HS Freezer Replacement
16550 SW Merlo Rd. OR 97003

PROJECT NO: Project Number

DRAWN BY:	CHECKED BY:
KCL	MKO
PROJECT MGR:	APPROVED BY:
KCL	MKO

SHEET TITLE
SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

SHEET NUMBER	ISSUE
E0.1	1

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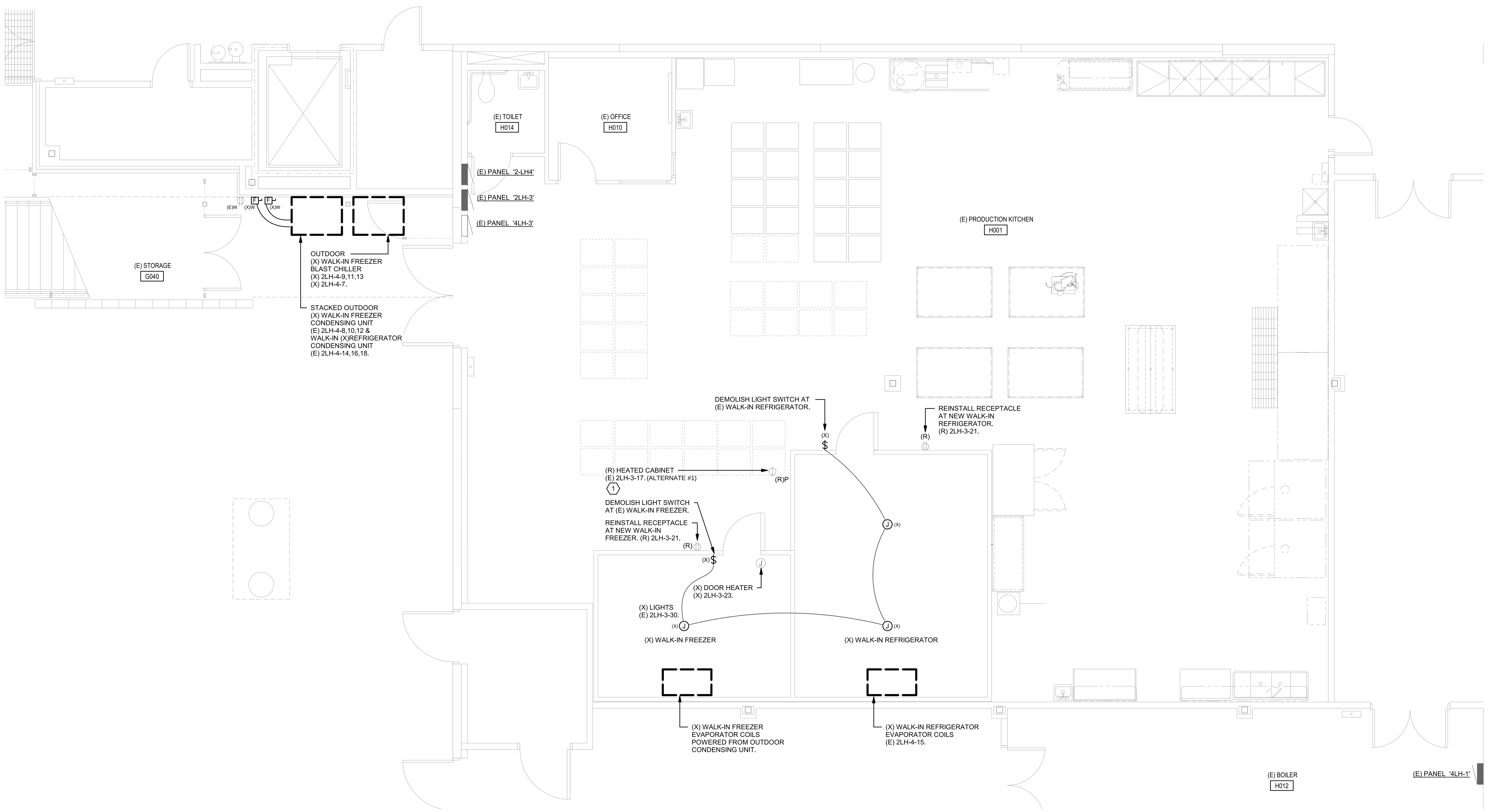
15mm

SCALE: 1:40 CK

6/3/2022 2:41:49 PM

SHEET KEYNOTES

1. BID ALTERNATE TO RELOCATE PENDANT RECEPTACLE FOR HEATED CABINET. (ALTERNATE #1)



1 DEMO FLOOR PLAN - ELECTRICAL

0' 2' 4' 8'
1/4" = 1'-0"

True North Project North

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PROJECT MGR: KCL	APPROVED BY: MKO

SHEET TITLE
DEMO FLOOR PLAN - ELECTRICAL

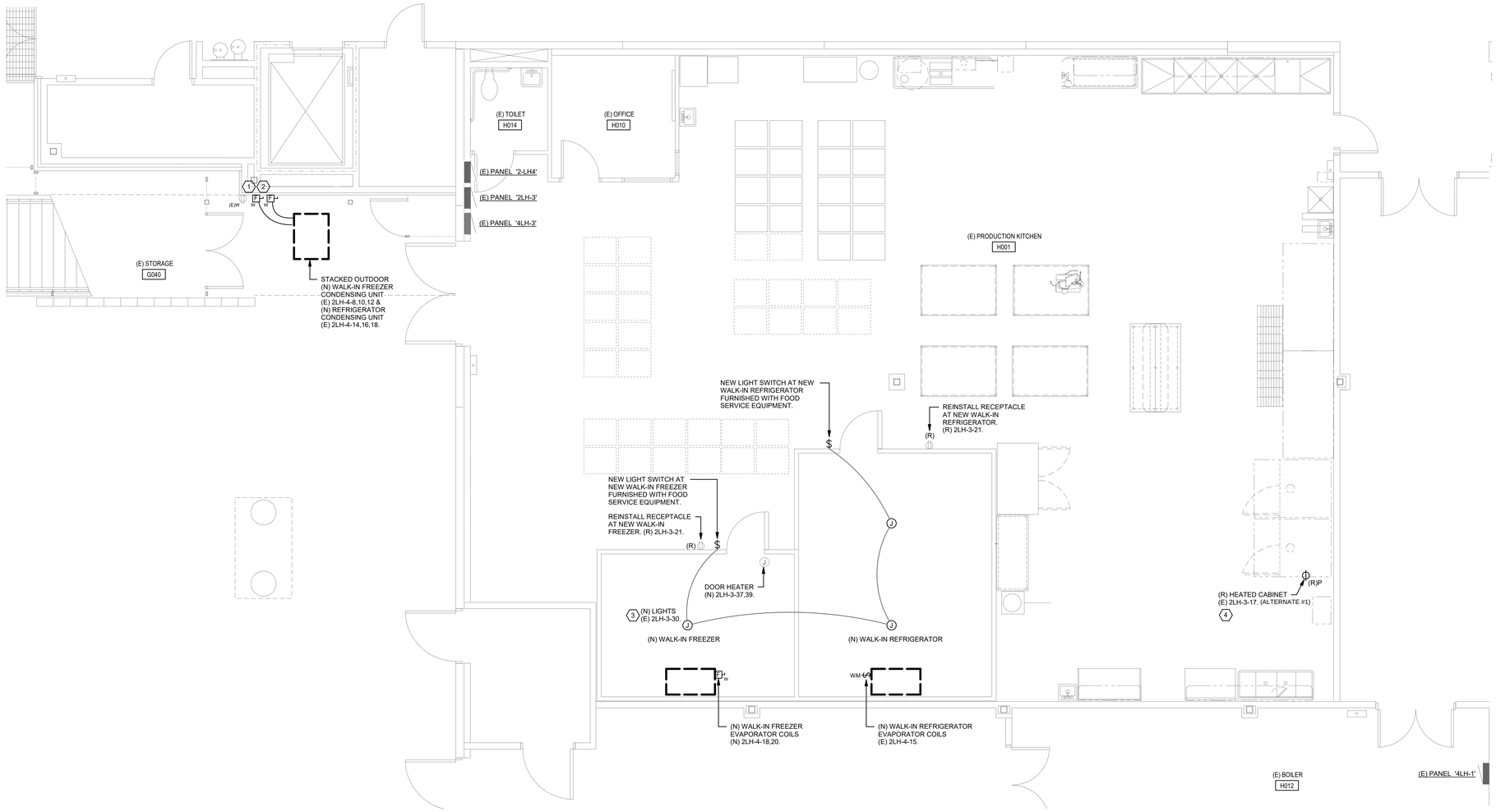
SHEET NUMBER	ISSUE
ED2.1	1

GENERAL ELECTRICAL NOTES

A. ROUTE ALL RACEWAY SERVING NEW WALK-IN FREEZER AND COOLER ALONG OUTSIDE OF UNITS AND STUB-IN ONLY AT EQUIPMENT CONNECTION LOCATIONS. SEAL ALL PENETRATIONS PER MANUFACTURER REQUIREMENTS.

SHEET KEYNOTES

1. UTILIZE EXISTING WIRING AND RACEWAY SERVING WALK-IN FREEZER CONDENSING UNIT FROM CIRCUIT 2LH-4-8,10,12 TO SERVE NEW CONDENSING UNIT.
2. UTILIZE EXISTING WIRING AND RACEWAY SERVING WALK-IN REFRIGERATOR CONDENSING UNIT FROM CIRCUIT 2LH-4-14,16,18 TO SERVE NEW CONDENSING UNIT.
3. UTILIZE EXISTING WIRING AND RACEWAY SERVING WALK-IN FREEZER / WALK-IN REFRIGERATOR LIGHTING FROM CIRCUIT 2LH-3-30 TO SERVE NEW LIGHTING.
4. BID ALTERNATE TO RELOCATE PENDANT RECEPTACLE FOR HEATED CABINET. (ALTERNATE #1)



1 FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"

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PROJECT MGR: KCL	APPROVED BY: MKO

SHEET TITLE
FLOOR PLAN - ELECTRICAL

SHEET NUMBER	ISSUE
E2.1	1

True North Project North

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2022-0525

(E/X) Panel '2LH-3'

120/208V, 3 Ph., 4 W.; 250A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) BOOSTER, HEATER			20/1		A		20/2			(E) ICE STATION	2
3	(E) STEAM KETTLE			20/3		B		-			---	4
5	---			-		C		20/2			(E) ICE STATION	6
7	---			-		A		-			---	8
9	(E) COMBI CONV. OVENS			20/3		B		15/3			(E) MIXER	10
11	---			-		C		-			---	12
13	---			-		A		-			---	14
15	(E) HEATED CABINETS			20/1		B		20/1			(E) SLICER	16
17	(E) HEATED CABINETS			20/1		C		20/1			(E) HEATED CABINETS	18
19	(E) HEATED CABINETS			20/1		A		20/1			(E) HEATED CABINETS	20
21	(E) RECP - PROD. KITCHEN			20/1		B		20/1			(E) HEATED CABINETS	22
23	**(X) WALK-IN DOOR HEATER**			20/1		C		20/1			(E) HEATED CABINETS	24
25	(E) RECP - PROD. KITCHEN			20/1		A		20/1			(E) HEATED CABINETS	26
27	(E) RECP - PROD. KITCHEN			20/1		B		20/1			(E) HEATED CABINETS	28
29	(E) LTS - HOOD LIGHTS			20/1		C		20/1			**(X) LTS - WALK-IN FREEZER/FRIDGE**	30
31	(E) RECP - FIRE SUPPRESSION			20/1		A		20/1			(E) WASHER	32
33	(E) RACK OVENS			20/1		B		20/1			(E) SPARE	34
35	(E) RACK OVENS			20/1		C		30/2			(E) DRYER	36
37	**(X) BUSSED SPACE**					A		-			---	38
39	**(X) BUSSED SPACE**					B					(E) BUSSED SPACE	40
41	(E) BUSSED SPACE					C					(E) BUSSED SPACE	42

Total Connected Load:	Ph. A	0	VA	0	Amps	Panel Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. B	0	VA	0	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	0	VA	0	Amps	**Total Demand Load:**	0.0 **KVA** 0.0 **Amps**

2022-0525

(E/N) Panel '2LH-3'

120/208V, 3 Ph., 4 W.; 250A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) BOOSTER, HEATER			20/1		A		20/2			(E) ICE STATION	2
3	(E) STEAM KETTLE			20/3		B		-			---	4
5	---			-		C		20/2			(E) ICE STATION	6
7	---			-		A		-			---	8
9	(E) COMBI CONV. OVENS			20/3		B		15/3			(E) MIXER	10
11	---			-		C		-			---	12
13	---			-		A		-			---	14
15	(E) HEATED CABINETS			20/1		B		20/1			(E) SLICER	16
17	(E) HEATED CABINETS			20/1		C		20/1			(E) HEATED CABINETS	18
19	(E) HEATED CABINETS			20/1		A		20/1			(E) HEATED CABINETS	20
21	(E) RECP - PROD. KITCHEN			20/1		B		20/1			(E) HEATED CABINETS	22
23	**(N) SPARE**			20/1		C		20/1			(E) HEATED CABINETS	24
25	(E) RECP - PROD. KITCHEN			20/1		A		20/1			(E) HEATED CABINETS	26
27	(E) RECP - PROD. KITCHEN			20/1		B		20/1			(E) HEATED CABINETS	28
29	(E) LTS - HOOD LIGHTS			20/1		C		20/1	300	L	**(N) LTS - WALK-IN FREEZER/FRIDGE**	30
31	(E) RECP - FIRE SUPPRESSION			20/1		A		20/1			(E) WASHER	32
33	(E) RACK OVENS			20/1		B		20/1			(E) SPARE	34
35	(E) RACK OVENS			20/1		C		30/2			(E) DRYER	36
37	**(N) WALK-IN FREEZER DOOR HTR**	**1,425**	**H**	**20/2**	1	A		-			---	38
39	---	**1,425**	**H**	-		B					(E) BUSSED SPACE	40
41	(E) BUSSED SPACE					C					(E) BUSSED SPACE	42

Total Connected Load:	Ph. A	1,425	VA	12	Amps	Panel Connected Load:	3.2 KVA 8.7 Amps
Total Connected Load:	Ph. B	1,425	VA	12	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	300	VA	2	Amps	**Total Demand Load:**	3.2 **KVA** 9.0 **Amps**

Notes:
1. NEW BREAKERS TO MATCH EXISTING MANUFACTURER AND AIC RATING.

Accessories:

2022-0525

(E/X) Panel '2LH-4'

120/208V, 3 Ph., 4 W.; 250A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) CIRC. PUMP			20/1		A		**40/3**			**(X) REFRIGERATOR COMP/COND**	2
3	(E) RECEPTACLES			20/1		B		-			---	4
5	(E) REC-SHOP			20/1		C		-			---	6
7	**(X) BLAST CHILLER**			20/1		A		**40/3**			**(X) FREEZER COMP/COND**	8
9	**(X) BLAST CHILLER REMOTE**			20/3		B		-			---	10
11	---			-		C		-			---	12
13	---			-		A		30/2			(E) PROOFER	14
15	**(X) WALK-IN COIL FANS**			20/1		B		-			---	16
17	(E) SP-1			20/1		C					(E) BUSSED SPACE	18
19	(E) EWC-1, (E) EF-15, (E) CUH-GL-1			20/1		A					(E) BUSSED SPACE	20
21	(E) EF-28			20/1		B					(E) BUSSED SPACE	22
23	(E) EF-32 (BOOSTER FAN)			20/1		C					(E) BUSSED SPACE	24
25	(E) EF-34			20/1		A					(E) BUSSED SPACE	26
27	(E) EF-33			20/1		B					(E) BUSSED SPACE	28
29	(E) EF-23			20/1		C					(E) BUSSED SPACE	30
31	(E) RECEPTACLE - POS			20/1		A					(E) BUSSED SPACE	32
33	(E) IN-USE CIRCUIT			20/1		B					(E) BUSSED SPACE	34
35	(E) BUSSED SPACE					C					(E) BUSSED SPACE	36
37	(E) BUSSED SPACE					A					(E) BUSSED SPACE	38
39	(E) BUSSED SPACE					B					(E) BUSSED SPACE	40
41	(E) BUSSED SPACE					C					(E) BUSSED SPACE	42

Total Connected Load:	Ph. A	0	VA	0	Amps	Panel Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. B	0	VA	0	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	0	VA	0	Amps	**Total Demand Load:**	0.0 **KVA** 0.0 **Amps**

2022-0525

(E/N) Panel '2LH-4'

120/208V, 3 Ph., 4 W.; 250A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) CIRC. PUMP			20/1		A	1	**20/3**	**1,190**	**M**	**(N) REFRIGERATOR CONDENSING UNIT**	2
3	(E) RECEPTACLES			20/1		B		-	**1,190**	**M**	**---**	4
5	(E) REC-SHOP			20/1		C		-	**1,190**	**M**	**---**	6
7	**(N) SPARE**			20/1		A	1	**30/3**	**2,268**	**M**	**(N) FREEZER CONDENSING UNIT**	8
9	**(N) SPARE**			20/3		B		-	**2,268**	**M**	**---**	10
11	**---**			-		C		-	**2,268**	**M**	**---**	12
13	---			-		A		30/2			(E) PROOFER	14
15	**(N) WALK-IN REFRIGERATOR COIL FANS**	**324**	**M**	20/1		B		-			---	16
17	(E) SP-1			20/1		C	1	**20/2**	**156**	**M**	**(N) WALK-IN FREEZER EVAP. COIL FAN**	18
19	(E) EWC-1, (E) EF-15, (E) CUH-GL-1			20/1		A		-	**156**	**M**	**---**	20
21	(E) EF-28			20/1		B					(E) BUSSED SPACE	22
23	(E) EF-32 (BOOSTER FAN)			20/1		C					(E) BUSSED SPACE	24
25	(E) EF-34			20/1		A					(E) BUSSED SPACE	26
27	(E) EF-33			20/1		B					(E) BUSSED SPACE	28
29	(E) EF-23			20/1		C					(E) BUSSED SPACE	30
31	(E) RECEPTACLE - POS			20/1		A					(E) BUSSED SPACE	32
33	(E) IN-USE CIRCUIT			20/1		B					(E) BUSSED SPACE	34
35	(E) BUSSED SPACE					C					(E) BUSSED SPACE	36
37	(E) BUSSED SPACE					A					(E) BUSSED SPACE	38
39	(E) BUSSED SPACE					B					(E) BUSSED SPACE	40
41	(E) BUSSED SPACE					C					(E) BUSSED SPACE	42

Total Connected Load:	Ph. A	3,614	VA	30	Amps	Panel Connected Load:	11.0 KVA 30.6 Amps
Total Connected Load:	Ph. B	3,782	VA	31	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	3,614	VA	30	Amps	**Total Demand Load:**	12.7 **KVA** 35.3 **Amps**

Notes:
1. NEW BREAKERS TO MATCH EXISTING MANUFACTURER AND AIC RATING.

Accessories:

6/3/2022 2:41:49 PM

CLIENT
Beaverton School District
BEAVERTON SCHOOL DISTRICT
16550 SW Merlo Rd. OR 97003

ISSUES

No.	DESCRIPTION	DATE
1	BID DOCUMENTS	06-06-2022

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KCL	MKO
PROJECT MGR:	APPROVED BY:
KCL	MKO

SHEET TITLE
SCHEDULES - ELECTRICAL

SHEET NUMBER
E6.1

ISSUE
1

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Revit CHECK
Do not scale