



SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

ISSUE

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY		
CHECKED BY	BCJ	

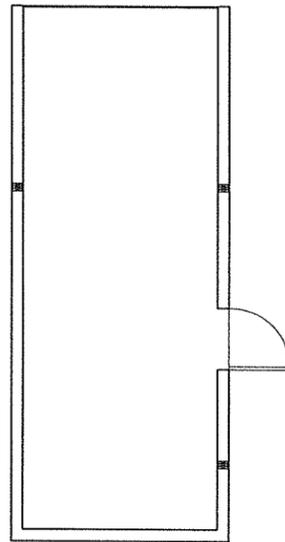
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SHEET TITLE

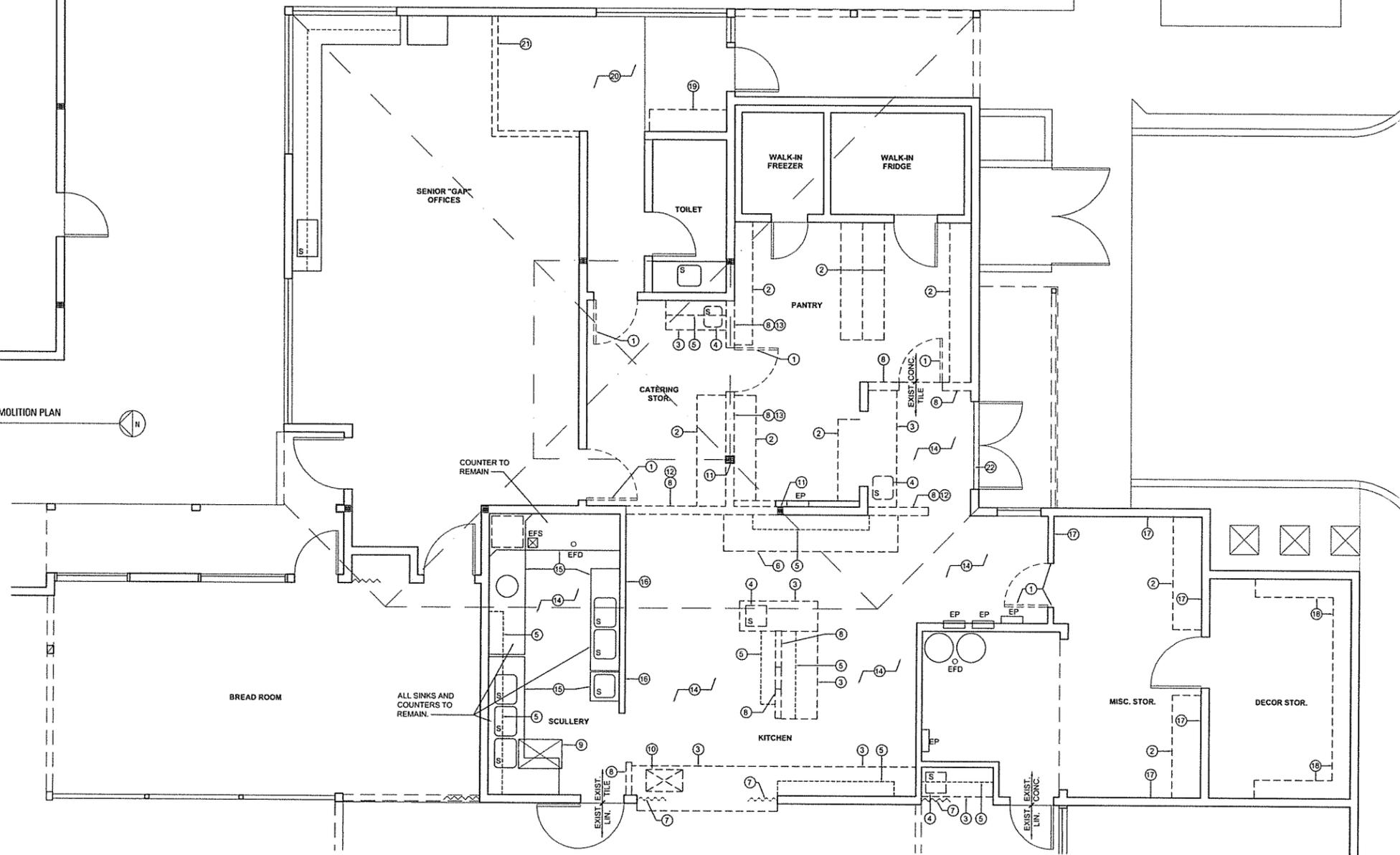
DEMOLITION PLAN

SCALE: NOTED ON DRAWINGS

SHEET



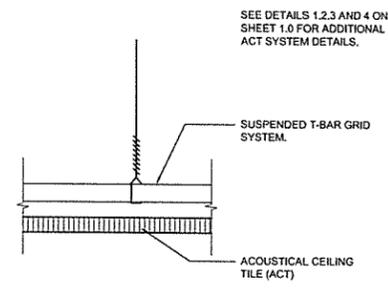
02 MECH. LOFT DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



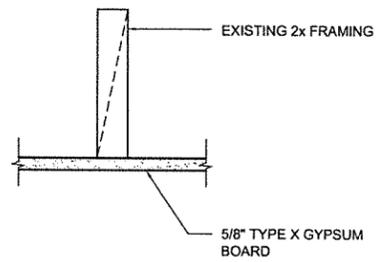
01 ENLARGED DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

FLOOR PLAN KEYNOTES THIS SHEET - DEMOLITION	
ARCHITECTURAL NOTES =	
1. Remove door and frame in its entirety and dispose.	13. Provide temporary shoring of mechanical loft floor framing. Remove in-fill wall above loft floor framing and install new support beam. Construct new 2x4 in-fill wall after installation of beam. See wall sections.
2. Remove built in place wood shelving and any associated base.	14. Remove all floor tile and associated base in all spaces within the scope of work. Grind and remove all tile mortar setting bed materials down to concrete slab.
3. Remove wood base cabinet in its entirety.	15. Temporarily remove all stainless steel counters within the scullery/wash-ware area to allow for the removal of all floor tile and the installation of new flooring. Disconnect and retain all existing plumbing lines and fixtures.
4. Remove sink, disposal, and associated plumbing. Cap all plumbing as required and remove waste vents. See plumbing drawings.	16. Remove sheet metal wall surface at cook line. Patch and repair gypsum board wall as required for installation of new finish surface.
5. Remove upper cabinet/shelving.	17. Remove Masonite hardwood paneling from face of gypsum board wall. Patch and repair wall as required for new FRP paneling. See interior elevations.
6. Remove stainless steel counter in its entirety.	18. Removal all wall mounted open shelving.
7. Remove accordion doors and frame located above and below countertop.	19. Remove wall mounted coat rack and shelf.
8. Wood framed wall with gypsum board to be removed from finish floor up to structural roof/floor framing above.	20. Existing carpet and walk-off mat to remain.
9. Remove in-floor grease interceptor (and any frame elements) and fill with concrete to achieve flush finish floor. See plumbing drawings.	21. Remove existing carpet at location of new wall to be constructed.
10. Saw cut and remove concrete slab on grade as required for new hydro-mechanical grease interceptor. See plumbing drawings.	22. Remove existing door threshold for installation of new.
11. Existing built up stud wall columns supporting roof structure to remain.	
12. Remove concrete foundation stem wall as required for flush finish floor.	

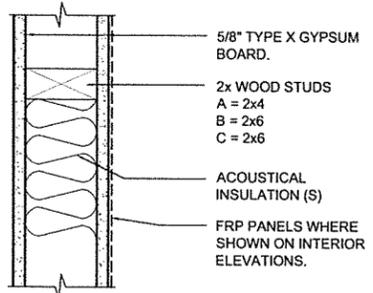
GENERAL DEMOLITION NOTES:	
1.	The General Contractor and all Bidders are responsible to field verify all existing conditions and necessary demolition required to execute the final project as designed.
2.	The Contractor is responsible for all patching and repairing of existing walls and surfaces shown to remain and/or damaged as a result of removal of adjacent or perpendicular walls.
3.	The Contractor is responsible for the protection of all existing finishes, materials, fixtures, etc. that are shown to remain that are within or near the area of work.
4.	The Contractor shall coordinate with Owner Representative for the shut down of all utilities, HVAC, etc. as required to perform the work.
5.	Remove all existing power conduit, boxes, and wire mold that are within walls or surface mounted to walls shown to be removed.
6.	Verify all existing data and low voltage lines w/Owner and Architect prior to demolition.
7.	Remove all associated wire hangers, threaded rod, uni-strut, etc. associated with ceiling systems, conduit, plumbing lines, etc. that are identified to be removed.
8.	See mechanical and electrical demolition drawings for additional information and requirements.
9.	All non-fixed kitchen equipment to be removed by the Owner in advance of the demolition.



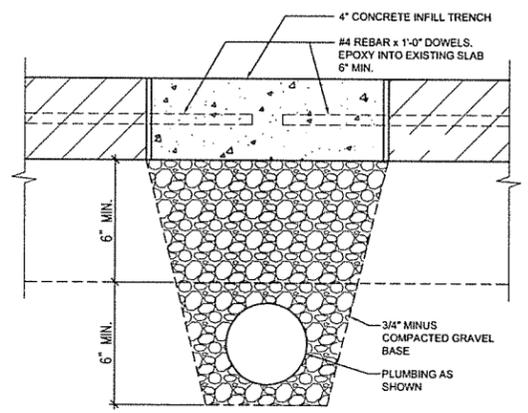
C2 CEILING TYPE
SCALE: 1/2" = 1'-0"



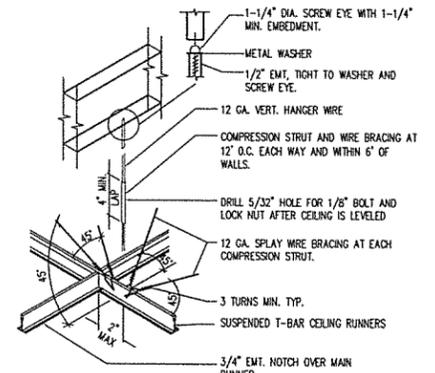
C1 CEILING TYPE
SCALE: 1/2" = 1'-0"



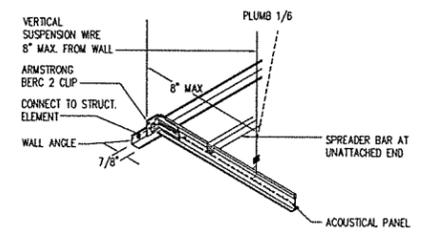
1 WALL TYPE
SCALE: 1/2" = 1'-0"



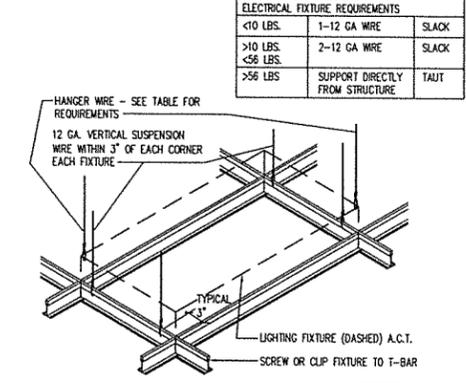
F1 FLOOR TYPE
SCALE: 1/2" = 1'-0"



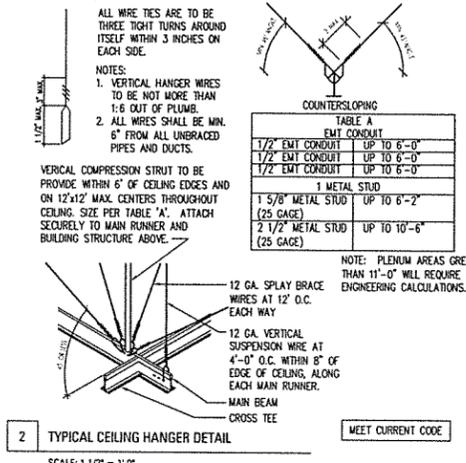
3 TYPICAL CEILING SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



4 TYPICAL CEILING AT WALL DETAIL
SCALE: 1 1/2" = 1'-0"



1 TYPICAL FIXTURE SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



2 TYPICAL CEILING HANGER DETAIL
SCALE: 1 1/2" = 1'-0"

ELECTRICAL FIXTURE REQUIREMENTS		
<10 LBS.	1-12 GA WIRE	SLACK
>10 LBS.	2-12 GA WIRE	SLACK
>56 LBS.	SUPPORT DIRECTLY FROM STRUCTURE	TAUT

FINISH SCHEDULE:									
#	ROOM NAME	FLOOR	BASE	WALLS	SOFFITS	CEILING	DOORS	DOOR FRAMES	NOTES
101	Ware-Wash	RF-1	RFB-1	P-1, FRP	na	ACT-1	P-2	P-2	
102	Office	RF-1	RFB-1	P-1	na	P-1	P-2	P-2	
103	GAP Office	RF-1	RFB-1	P-3	na	ACT-1	P-2	P-2	1, 2
104	Ride Connection	RF-1	RFB-1	P-3	na	ACT-1	P-2	P-2	1, 2
105	Support	RF-1	RFB-1	P-1, FRP	na	P-1	P-2	P-2	
106	Work Area	RF-1	RFB-1	P-1, FRP	na	P-1	P-2	P-2	
107	Receiving	RF-1	RFB-1	P-1, FRP	na	P-1	P-2	P-2	
108	Mechanical	RF-1	RFB-1	P-1	na	na	P-2	P-2	
109	Storage	RF-1	RFB-1	P-1, FRP	na	P-1	P-2	P-2	
110	Dry Storage	RF-1	RFB-1	P-1, FRP	P-1	P-1	P-2	P-2	
111	Kitchen	RF-1	RFB-1	P-1, FRP	P-1	ACT-1, P-1	P-2	P-2	
201	Mech. Loft	plywood	no finish	no finish	no finish	no finish	P-1	P-1	3

General Notes:
 1 Patch and paint as required.
 2 Match existing wall color.
 3 Paint access door and trim to match wall color.

DOOR SCHEDULE:																
DOOR NUMBER	LOCATION	DOOR SIZE	DOOR			FRAME			TYPE							
			WOOD, SOLID CORE (WD)	HOLLOW METAL	FIRE RATED	REFINISH EXISTING FINISH	HOLLOW METAL	WOOD	FRAMELESS	FIRE RATED	FINISH	DOOR TYPE	HARDWARE GROUP			
101-1	WARE-WASH	Existing Dutch	EW	X		X	CS				EW		CS			1
102-1	OFFICE	2'-8" X 6'-8"	X				P-2				EW		P-2		G	1 3
107-1	RECEIVING	Existing Pair		EM			P-2				EW		P-2			2
108-1	MECHANICAL	Existing Wood	EW			X	CS				EW		CS			1
110-1	DRY STORAGE	Existing Wood	EW			X	CS				EW		CS			1

Notes:
 1. Re-finish and re-seal existing wood door.
 2. Install new hardware onto existing door and frame.
 3. New painted wood door w/tilt.

G = SOLID W/HALF-LITE PROFILE - 22" x 30"
 P = PAINT
 EW = EXISTING WOOD DOOR AND FRAME
 EM = EXISTING HOLLOW METAL DOOR FRAME
 CS = CLEAR SEALER ON REFINISHED DOOR

FINISH LEGEND:		
Material	Specification	Notes:
Gypsum Ceilings	GYP	All new walls and ceilings shown as gypsum board to be constructed with 5/8" gypsum board finished with smooth finish.
Suspended Ceiling Systems	ACT-1	ARMSTRONG: CORTEGA Second Look II, Beveled Tegular Color: White Texture: Medium, Second Look II 24" x 24" squares Grid System: 15/16" Prelude w/perimeter 3/4" reveal shadow molding
Resilient Flooring	RF-1	Altro Classic 25, Color: Pewter Grey, Product #X2539R11 2.5mm thick with non-woven polyester/cellulose fiber reinforcing.
	RFB-1	Altro 6" self-coved base system with C4 cap strip at walls with FRP and C7 cap strip at walls to receive paint.
	RB-1	Flexco, Wallflowers Premium Wall Base. Color: 014 Medium Gray, 4-inch tall. Coved base at non-carpet floors, straight base at carpeted floors.
	RB-2	Flexco, Wallflowers Premium Wall Base. Color: Match existing. Field verify.
	Reducer	Flexco, 158 Carpet Edge Reducer. Color: 014 Medium Gray.
Paint	P-1	Benjamin Moore (Basis of Design)
	P-2	White Opulence OC-69, Egg Shell sheen
	P-3	Off-White - final color to be determined.
		Match existing
Plastic Laminate	PL-1	Wilsonart "Sand," #D331-60 390 - cabinet and cabinet faces, open shelving, study room countertop and backsplash, locker room cabinets, etc. See drawings.
Fiber Reinforced Plastic Panels	FRP	Kemite, FRP, 0.90", Class "C", Finish: Embossed, Color: Ivory White
Stainless Counters	SST-1	Stainless Steel Countertop at Kitchen Serving Counter: Type 306 stainless steel 14 gauge sheets with 90-degree rolled edges over substraigh. SST-1 to be installed over (2) layers of 3/4" thick plywood substrate (1-1/2" total thickness). Polish free of all blemishes. See drawings and details.
Corner Guards	CG-1	4" x 4", 16-gauge, type 304 stainless steel with No. 4 finish
	CG-2	2" x 2", 16-gauge, type 304 stainless steel with No. 4 finish

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WALL, FLOOR AND CEILING TYPES SCHEDULES

SCALE: NOTED ON DRAWINGS



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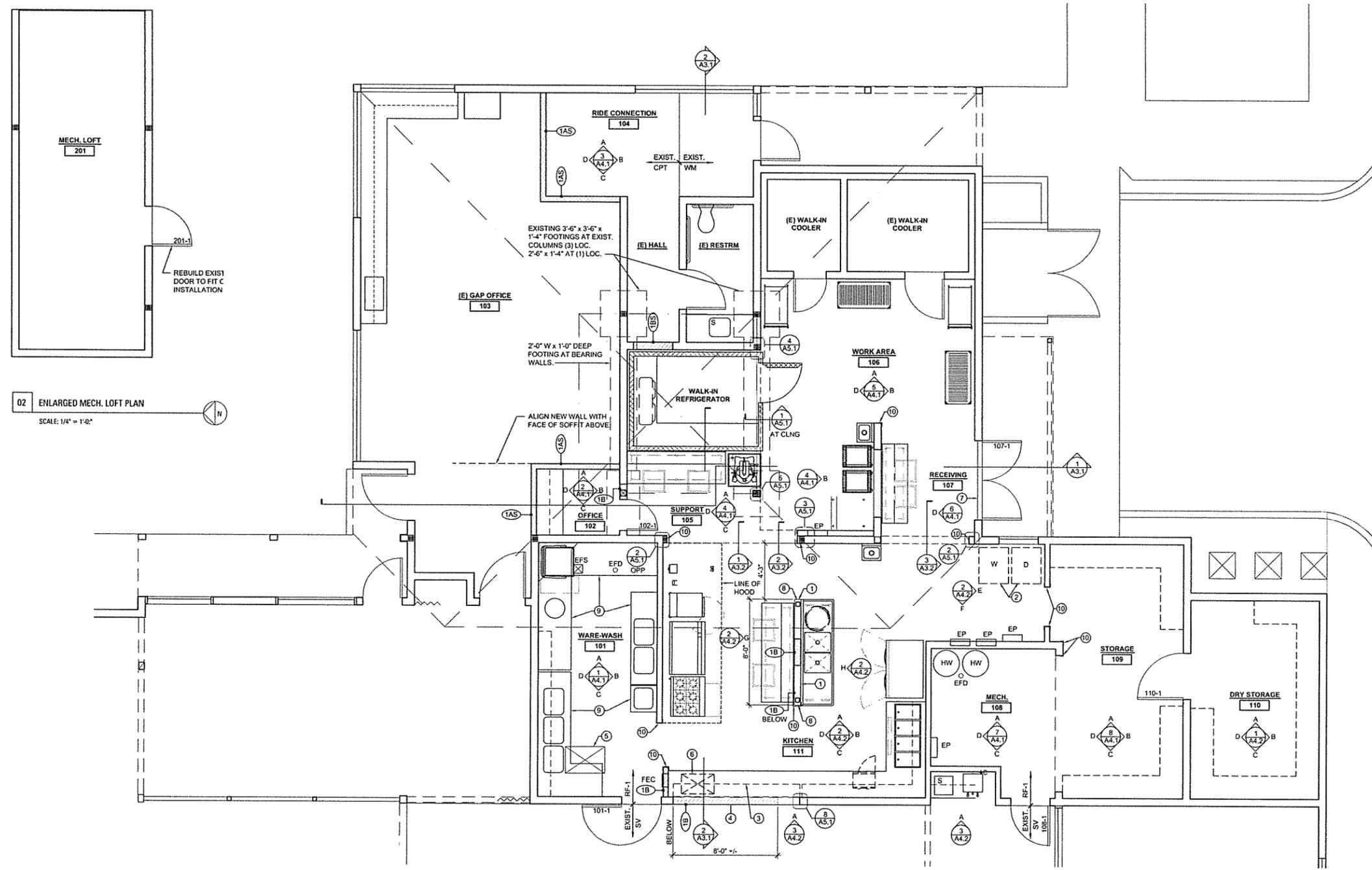
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SHEET TITLE
**NEW ENLARGED FLOOR
 PLAN**

SCALE: NOTED ON DRAWINGS

SHEET



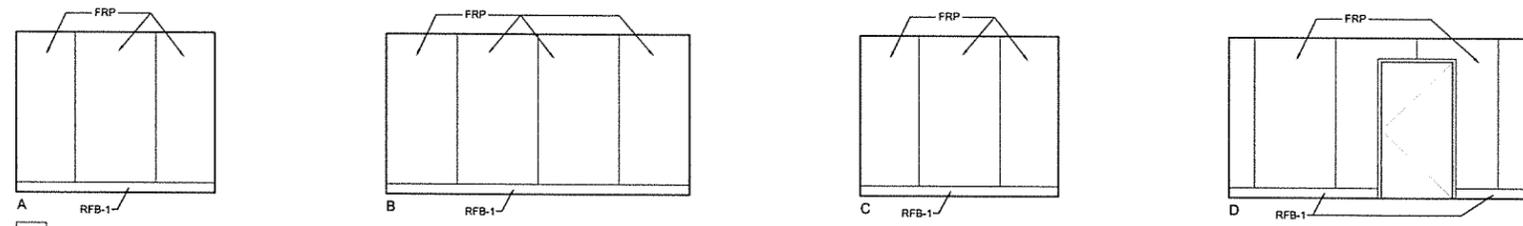
02 ENLARGED MECH. LOFT PLAN
 SCALE: 1/4" = 1'-0"

01 NEW FLOOR PLAN
 SCALE: 1/4" = 1'-0"

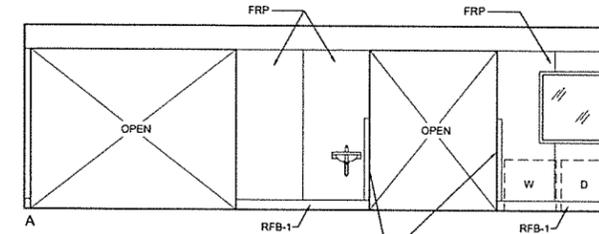
- KEYNOTES THIS SHEET - NEW CONSTRUCTION**
- ARCHITECTURAL PLAN NOTES =
- Top of partial height wall to be set at 4'-4" above finish floor. Provide stainless steel cap. See detail.
 - Owner furnished and installed washer and dryer to pre-existing water, gas and power connections.
 - Overhead ceiling counter door. See details and specification.
 - Infill wall below counter. Provide stud wall with gypsum board finish each side per wall type. Match existing adjacent gypsum board wall texture and finish and install new rubber base. Coordinate height of new wall with stainless steel counter and new base cabinetry.
 - Infill floor with concrete after removal of existing grease interceptor to be replaced.
 - 6 New hydromechanical grease inceptor installed flush in floor inside new base cabinet. Coordinate access through bottom of cabinet.
 - Install new exterior door threshold with new flooring system. See specification.
 - Install new TS 4" x 4" x 1/4" x 4'-0" tall steel support posts for lateral support of pony walls. Provide base plate within stud wall and anchor to concrete.
 - Reinstall all floor supported stainless steel work counters and sinks after installation of new flooring system.
 - New 48" tall stainless steel corner guard.

Beam Schedule

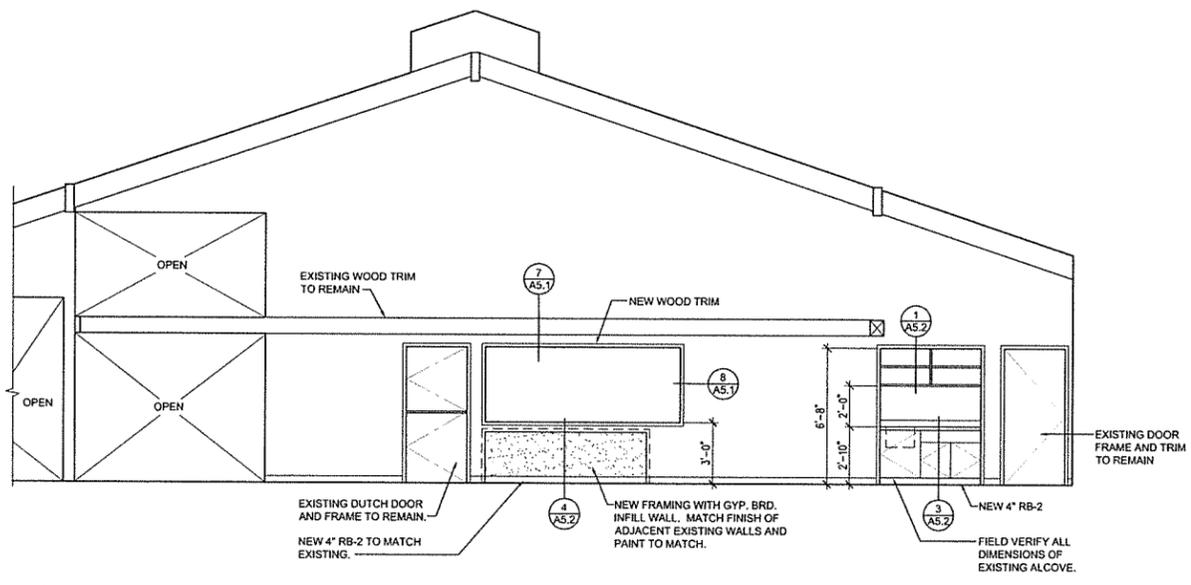
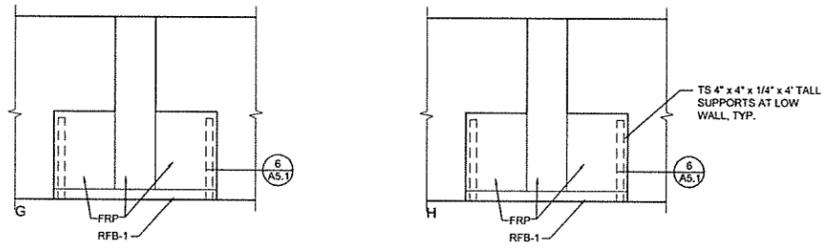
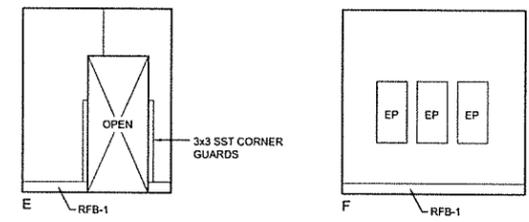
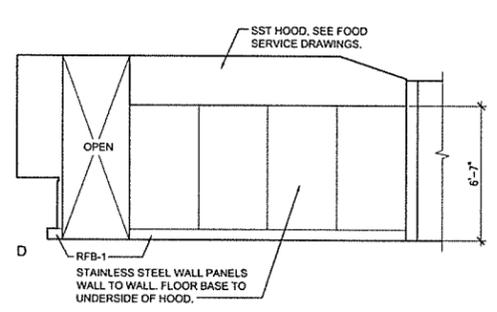
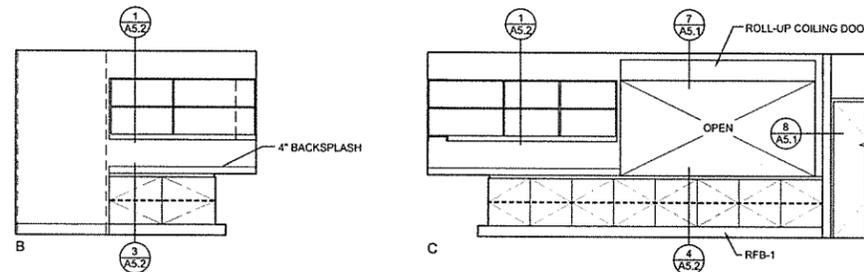
Beam Type & Size	Column Base Bracket	Beam to Column Bracket	Notes:
A Glu-Lam - 5-1/8" X 16-1/2"	ABUS82 for built up 2x6 column or 6x6 post	Simpson HUCQ w/ 1/4" x 2-1/2" Strong Drive SDS heavy duty connector screws Simpson FH6 (Header Hanger) for 5-1/8"	Beam to sit on column framing at north column location, and frame into side of existing column at south location. See plans for new and existing framing.
B Glu-Lam - 5-1/8" X 16-1/2"	ABUS82 for built up 2x6 column or 6x6 post	Simpson HUCQ w/ 1/4" x 2-1/2" Strong Drive SDS heavy duty connector screws Simpson HUS410 for 5-1/8" wide beam.	See plans for new and existing framing.
C 6 X 12 DF #2 or better	ABUS82 for built up 2x6 column or 6x6 post	Simpson HUS410 for 6x beam.	2x6 built up post at existing foundation wall. See plans for new and existing framing.



01 110 - DRY STORAGE
 SCALE: 1/4" = 1'-0"



02 111 - KITCHEN
 SCALE: 1/4" = 1'-0"



03 MAIN HALL
 SCALE: 1/4" = 1'-0"

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SHEET TITLE
 INTERIOR ELEVATIONS

SCALE: NOTED ON DRAWINGS



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ELECTRICAL
 TITLE
 SHEET

SCALE: NOTED ON DRAWINGS

E0.1
 SHEET

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 PORTLAND, OREGON 97219
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 FAX: 503.892.1190
 CONTACT...HANK BARLEEN
 engineering@mke-inc.com



DRAWING INDEX

DWG	DESCRIPTION
EO.1	ELECTRICAL TITLE SHEET
E1.1	ENLARGED FLOOR PLAN POWER
ED2.1	DEMOLITION PLAN ELECTRICAL
E3.1	ENLARGED PLAN LIGHTING
E4.0	ONE-LINE DIAGRAM, SCHEDULES AND DETAILS.

ABBREVIATIONS

(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
(D)	EXISTING TO BE DEMOLISHED
AB	ABOVE COUNTER BACKSPASH
AC	ALTERNATING CURRENT
A, AMP	AMPERES
ATF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC-FAULT CIRCUIT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING.
AL	ALUMINUM
ALC	AUTOMATIC LIGHTING CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FLA	FULL LOAD AMPERES
FSD	FIRE/SMOKE DAMPER
GEN	GENERATOR
GF1	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HTR	HEATER
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTC	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPERES
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MSP	MAIN SERVICE PANEL
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFGR'S ASSOCIATION.
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH, #	PHASE
PNL	PANEL
SDP	SUB DISTRIBUTION PANEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TEL	TELEPHONE
TK	INSTALL TOE KICK
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VR	VANDAL RESISTANT
W	WATT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

NURSE CALL

⊕	NURSE CALL CORRIDOR LIGHT CEILING MOUNTED
⊕	NURSE CALL CORRIDOR LIGHT WALL MOUNTED
⊕	NURSE CALL ANNUNCIATOR PANEL
⊕	NURSE CALL EMERGENCY STATION (PULL CORD)
⊕	NURSE CALL PATIENT STATION (TWO-WAY COMM)
⊕	NURSE CALL DUTY STATION
⊕	NURSE CALL MASTER STATION

LINETYPE LEGEND

---	UNDER GROUND
---	ABOVE GROUND, IN WALL, CEILING, ETC.
⊕	NEW EQUIPMENT (TYPICAL)
⊕	EXISTING EQUIPMENT (TYPICAL)
⊕	DEMOLISHED EQUIPMENT (TYPICAL)

TELECOMMUNICATION DEVICES

▽	DATA OUTLET [+ 18"]
▽	DATA OUTLET [ABOVE COUNTER]
▽	DATA OUTLET ON CEILING.
▽	TELEPHONE OUTLET [+ 18"]
▽	TELEPHONE OUTLET [ABOVE COUNTER]
▽	COMBO. TELE/DATA OUTLET [+ 18"]
▽	COMBO. TELE/DATA OUTLET [ABOVE COUNTER]
▽	FLUSH FLOOR BOX DATA OUTLET
▽	DATA OUTLET FOR WIRELESS NODE
▽	SPECIAL DATA OUTLET [+ 18"]
▽	PEDESTAL MOUNTED DATA OUTLET

SIGNAL DEVICES

⊕	VOLUME CONTROL [+ 45"]
⊕	AUDIO/VISUAL OUTLET [+ 18"]
⊕	VIDEO OUTLET [+ 18"]
⊕	MICROPHONE OUTLET [+ 18"]
⊕	CLOCK [+96]
⊕	TIME CLOCK (TIME SWITCH)
⊕	CLOCK/SPEAKER WALL UNIT
⊕	SPEAKER-CEILING MOUNTED
⊕	SPEAKER-WALL MOUNTED [+84]
⊕	THERMOSTAT [+45]
⊕	THEATRICAL LIGHTING DMX CONTROL OUTLET
⊕	BUZZER

FIRE ALARM DEVICES

⊕	FIRE ALARM HORN/STROBE [+ 88"]
⊕	FIRE ALARM PULL STATION [+ 45"]
⊕	INTERCOM HORN [+ 88"]
⊕	FIRE ALARM STROBE [+ 88"]
⊕	HEAT DETECTOR
⊕	MAGNETIC DOOR HOLDER
⊕	CONTROL MODULE
⊕	ALARM MODULE
⊕	DUCT SMOKE DETECTOR
⊕	PHOTO ELECTRIC TYPE SMOKE DETECTOR
⊕	IONIZATION TYPE SMOKE DETECTOR
⊕	FIRE/SMOKE DAMPER
⊕	FIRE DOOR RELEASE
⊕	BEAM DETECTOR TRANSMITTER
⊕	BEAM DETECTOR RECEIVER
⊕	SPRINKLER FLOW SWITCH
⊕	SPRINKLER TAMPER SWITCH
⊕	BELL
⊕	KNOX BOX
⊕	120V IONIZATION TYPE SMOKE DETECTOR W/ INTEGRAL HORN/STROBE
⊕	120V PHOTO ELECTRIC TYPE SMOKE DETECTOR W/ INTEGRAL HORN/STROBE

SECURITY DEVICES

⊕	BREAK GLASS DETECTOR
⊕	SECURITY MOTION SENSOR
⊕	FOUR WAY SECURITY MOTION SENSOR
⊕	SECURITY CAMERA
⊕	INFRARED DOOR ACCESS [ABOVE DOOR]
⊕	SECURITY KEYPAD [+ 45"]
⊕	MAGNETIC DOOR SWITCH
⊕	ELECTRIC STRIKE
⊕	PANIC DEVICE ELECTRIC LATCH HOLD OPEN
⊕	MAGNETIC DOOR LOCK
⊕	CENTRONIC DOOR CLOSER
⊕	CARD READER [+ 45"]
⊕	REQUEST TO EXIT DEVICE

LIGHTING DEVICES

⊕	SURFACE MOUNTED LIGHT FIXTURE
⊕	SURFACE MOUNTED EMERGENCY LIGHT FIXTURE
⊕	SURFACE MOUNTED LIGHT FIXTURE
⊕	SURFACE MOUNTED EMERGENCY LIGHT FIXTURE
⊕	RECESSED FLUORESCENT LIGHT FIXTURE
⊕	RECESSED EMERGENCY LIGHT FIXTURE
⊕	RECESSED FLUORESCENT LIGHT FIXTURE
⊕	RECESSED EMERGENCY LIGHT FIXTURE
⊕	PENDANT LIGHT FIXTURE
⊕	PENDANT EMERGENCY LIGHT FIXTURE
⊕	TRACK LIGHTING SYSTEM
⊕	STRIP LIGHT FIXTURE
⊕	EMERGENCY STRIP LIGHT FIXTURE
⊕	RECESSED DOWNLIGHT
⊕	RECESSED EMERGENCY DOWNLIGHT
⊕	WALL WASH FIXTURE
⊕	WALL MOUNTED LIGHT FIXTURE
⊕	WALL MOUNTED EMERGENCY LIGHT FIXTURE
⊕	PENDANT MOUNTED LIGHT FIXTURE
⊕	PENDANT MOUNTED EMERGENCY LIGHT FIXTURE
⊕	SURFACE MOUNTED LIGHT FIXTURE
⊕	SURFACE MOUNTED EMERGENCY LIGHT FIXTURE
⊕	LINEAR WALL MOUNTED LIGHT FIXTURE
⊕	LINEAR WALL MOUNTED EMERGENCY FIXTURE
⊕	FLOOD LIGHT FIXTURE
⊕	POLE ARM MOUNT LIGHT FIXTURE
⊕	LIGHTED BOLLARD
⊕	EMERGENCY LIGHTED BOLLARD
⊕	POLE TOP MOUNT LIGHT FIXTURE
⊕	BATTERY PACK EMERGENCY LIGHT FIXTURE
⊕	REMOTE EMERGENCY BATTERY BALLAST
⊕	STEP LIGHT
⊕	CEILING MOUNTED EXIT SIGN (SIGN FACE)
⊕	WALL MOUNTED EXIT SIGN [+ 18" ABOVE DOOR]
⊕	COMBO EXIT SIGN/ EMERGENCY LIGHT [+ 18" ABOVE DOOR]
⊕	SINGLE-POLE SWITCH [+ 45"]
⊕	TWO-POLE SWITCH [+ 45"]
⊕	THREE-WAY SWITCH [+ 45"]
⊕	FOUR-WAY SWITCH [+ 45"]
⊕	SINGLE POLE-KEY SWITCH [+ 45"]
⊕	SWEEP SWITCH [+ 45"]
⊕	SWEEP SWITCH - 3 WAY [+ 45"]
⊕	LOW VOLTAGE SWITCH [+ 45"]
⊕	MOMENTARY LOW VOLTAGE SWITCH [+ 45"]
⊕	KEYED MOMENTARY LOW VOLTAGE SWITCH [+ 45"]
⊕	DIMMER SWITCH [+ 45"]
⊕	OCCUPANCY SENSOR SWITCH [+ 45"]
⊕	SINGLE-POLE SW. W/PILOT LIGHT [+ 45"]
⊕	LIGHTING RELAY
⊕	OCCUPANCY SENSOR ONE WAY CEILING MOUNT
⊕	OCCUPANCY SENSOR TWO WAY CEILING MOUNT
⊕	OCCUPANCY SENSOR 360° CEILING MOUNT
⊕	OCCUPANCY SENSOR WALL MOUNT
⊕	OCCUPANCY SENSOR POWER PACK
⊕	PHOTOCCELL
⊕	AUTO-TRANSFORMER DIMMER
⊕	BALLAST LOAD TRANSFER EMERGENCY RELAY
⊕	LIGHTING CONTACTOR

POWER DEVICES

⊕	DUPLEX RECEPTACLE [+ 18"]
⊕	HALF-SWITCH RECEPTACLE [+ 18"]
⊕	ISOLATED RECEPTACLE [+ 18"]
⊕	DUPLEX RECEPTACLE [ABOVE COUNTER]
⊕	DOUBLE DUPLEX RECEPTACLE [+ 18"]
⊕	DOUBLE DUPLEX RECEPTACLE [ABOVE COUNTER]
⊕	SINGLE RECEPTACLE [+ 18"]
⊕	DUPLEX RECEPTACLE IN CEILING
⊕	DOUBLE DUPLEX RECEPTACLE IN CEILING
⊕	PEDESTAL MOUNTED DUPLEX RECEPTACLE
⊕	FLUSH FLOOR BOX DUPLEX RECEPTACLE
⊕	SPECIAL PURPOSE POWER RECEPTACLE [+ 18"]
⊕	ELECTRICAL EQUIPMENT CONNECTION
⊕	POWER/DATA POLE
⊕	MAGNETIC STARTER
⊕	SAFETY SWITCH
⊕	FUSED SAFETY SWITCH
⊕	ELECTRICAL MOTOR CONNECTION
⊕	SINGLE-POINT ELECTRICAL CONNECTION
⊕	PUSH BUTTON CONTROL [+ 45"]
⊕	UP/DOWN/STOP PUSH BUTTON CONTROL [+ 45"]
⊕	TRANSFORMER
⊕	COMBINATION POWER/DATA/TELE FLUSH FLOOR BOX
⊕	JUNCTION BOX
⊕	J-BOX - W/ EMERGENCY CIRCUIT
⊕	FLUSH AUTOMATIC DOOR ACTUATOR [+45"]
⊕	CONTROL RELAY

DISTRIBUTION & EQUIPMENT

⊕	FLUSH ELECTRICAL PANEL [MAX 6"-6" TO TOP]
⊕	SURFACE ELECTRICAL PANEL [MAX 6"-6" TO TOP]
⊕	FLUSH CONTROL PANEL [MAX 6"-6" TO TOP]
⊕	SURFACE CONTROL PANEL [MAX 6"-6" TO TOP]
⊕	U.G. VAULT
⊕	METER BASE & SOCKET

REFERENCE SYMBOLS & WIRING

---	CONDUIT WITH GROUND CONDUCTOR
---	NEUTRAL CONDUCTOR
---	PHASE CONDUCTOR
---	HOMERUN ARROW
⊕	PLAN NOTE MARK
⊕	SHEET REFERENCE MARK
⊕	MECHANICAL EQUIPMENT NOTE MARK
⊕	SHOP EQUIPMENT NOTE MARK
⊕	KITCHEN EQUIPMENT NOTE MARK
XXXX	FEEDER MARK
[+ XX"]	STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON DRAWINGS

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SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

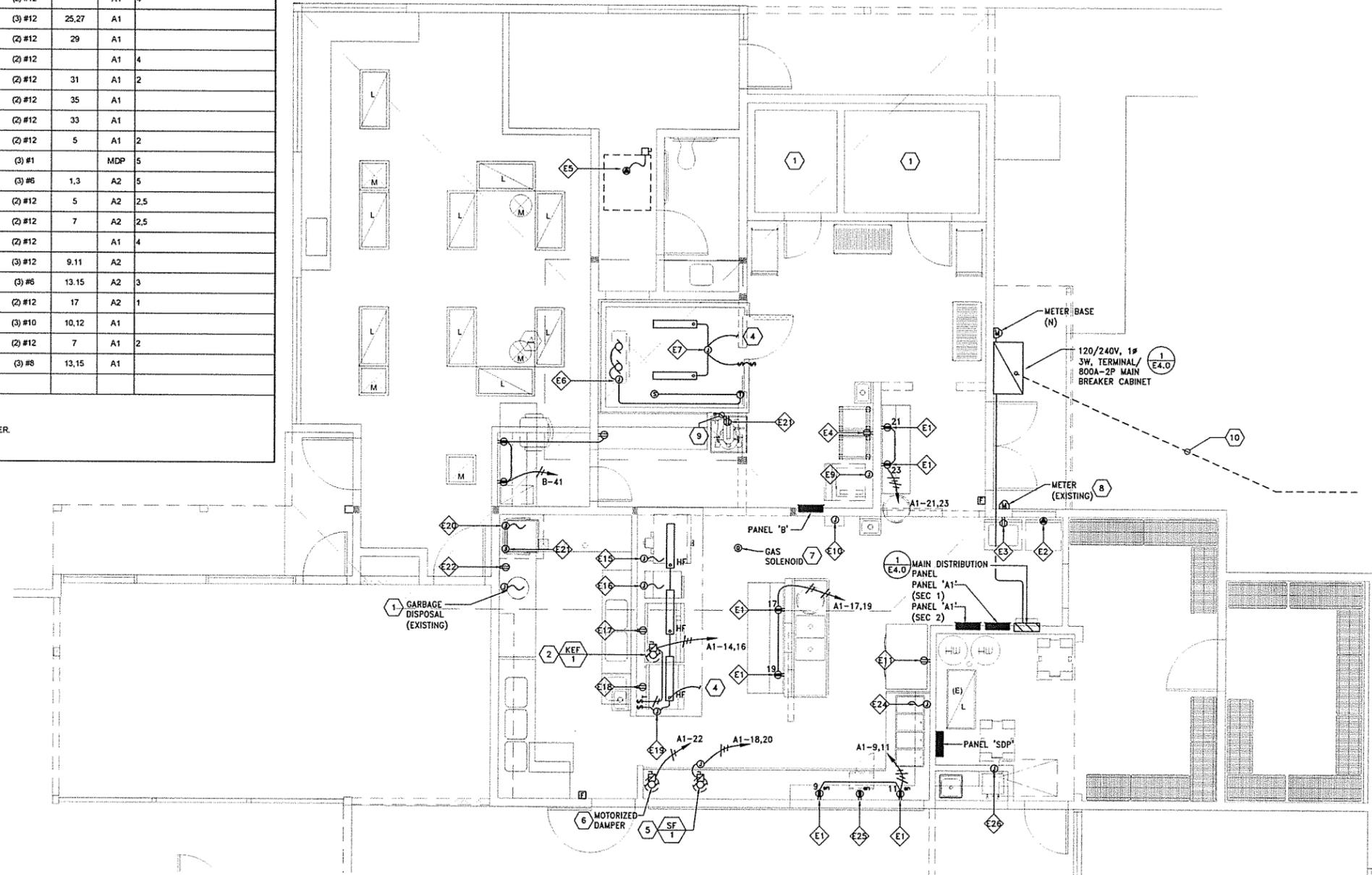
Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
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SHEET TITLE		

ENLARGED
 FLOOR PLAN
 POWER
 SCALE: NOTED ON DRAWINGS
E1.1
 SHEET

KITCHEN EQUIPMENT SCHEDULE

MARK	EQUIPMENT DESCRIPTION	H.P.	LOAD (VA)	VOLT	PHASE	C.	WIRE	CIRCUIT	PANEL	NOTES
E1	CONVENIENCE RECEPTACLE		1,440	120	1	1/2"	(2) #12		A1	1,4
E2	CLOTHES DRYER		5,000	120/240	1	3/4"	(4) #10		B	3
E3	CLOTHES WASHER		1,200	120	1	1/2"	(2) #12		B	3
E4	CONVENIENCE RECEPTACLE		1,440	120	1	1/2"	(2) #12		A1	4
E5	COOLER CONDENSOR	1		240	1	1/2"	(3) #12	25,27	A1	
E6	COOLER EVAPORATOR		2A	120	1	1/2"	(2) #12	29	A1	
E7	WALK-IN LIGHTS (2)		160	120	1	1/2"	(2) #12		A1	4
E8	20 QUART MIXER	1/2		120	1	1/2"	(2) #12	31	A1	2
E9	ICE MACHINE		5.4A	120	1	1/2"	(2) #12	35	A1	
E10	FIRE PROTECTION		2A	120	1	1/2"	(2) #12	33	A1	
E11	REACH-IN REFRIGERATOR		9.1A	120	1	1/2"	(2) #12	5	A1	2
E15	CONVECTION OVENS (STACK)		25KW	120/240	1	1-1/4"	(3) #1		MDP	5
E18	CONVECTION STEAMER		44.7A	240	1	1"	(3) #6	1,3	A2	5
E17	36" GRIDDLE		.5A	120	1	1/2"	(2) #12	5	A2	2,5
E18	OPEN BURNER RANGE		.5A	120	1	1/2"	(2) #12	7	A2	2,5
E19	HOOD LIGHTS		245	120	1	1/2"	(2) #12		A1	4
E20	WARE WASHER (TANK)	2		240	1	1/2"	(3) #12	9,11	A2	
E21	WARE WASHER BOOSTER		8.5KW	240	1	1"	(3) #6	13,15	A2	3
E22	WARE WASHER DETERGENT		1,440	120	1	1/2"	(2) #12	17	A2	1
E24	DROP-IN HOT WELLS		4,960	240	1	3/4"	(3) #10	10,12	A1	
E25	MICROWAVE		13	120	1	1/2"	(2) #12	7	A1	2
E28	COFFEE BREWER		29A	240	1	3/4"	(3) #8	13,15	A1	

NOTES:
 1. DEDICATED 120V, 20A CIRCUIT
 2. PROVIDE NEMA 5-15R RECEPTACLE
 3. EXISTING EQUIPMENT. CONFIRM WITH EXISTING CONDITIONS CONNECT TO EXISTING BREAKER.
 4. SEE ELECTRICAL DRAWINGS.
 5. PROVIDE SHUNT TRIP BREAKERS



1 ENLARGED FLOOR PLAN - POWER
 E1.1 SCALE: 1/4" = 1'-0"
 0 2' 4' 8'

KEYED NOTES:

1. MAINTAIN FEEDER TO GARBAGE DISPOSAL NEW GARBAGE DISPOSAL PROVIDED BY OWNER. DISCONNECT AND CONNECT NEW EQUIPMENT. CONFIRM ELECTRICAL REQUIREMENTS OF NEW DISPOSAL.
2. KITCHEN EXHAUST FAN 1-1/2HP, 240V, 1Ø. PROVIDE (3) #12 IN 1/2" EMT TO 20A-2P BREAKER. PROVIDE INTERLOCK FOR KEF-1, SF-1, AND MOTORIZED DAMPER TO OPERATE AS ONE UNIT.
3. MAINTAIN CIRCUITS TO EXISTING COOLER/FREEZER.
4. CONNECT TO KITCHEN LIGHTING CIRCUIT.
5. SUPPLY FAN, 240V, 1Ø, 1-1/2HP, 120V INTERLOCK W/KEF-1 AND MOTORIZED DAMPER.
6. MOTORIZED DAMPER, 1/10HP, 120V, INTERLOCK W/ KEF-1 AND SF-1.
7. PROVIDE 120V, 20A, CONNECTION TO GAS SOLENOID, CONTROL VIA FIRE ALARM CONNECTION/SHUTDOWN.
8. EXISTING METER BASE TO BE REMOVED.
9. ROUTE RIGID STEEL CONDUIT UP OUTSIDE OF COOLER-BOX TO ACCESSIBLE CEILING.
10. RE-ROUTE EXISTING SECONDARY FROM PAD MOUNTED TRANSFORMER TO NEW TERMINAL/MAIN DISCONNECT. PROVIDE (2) SETS (3) 500KCMIL AND (1) #8 GRD IN 4" SCHEDULE 40 PVC. COORDINATE WITH LOCAL UTILITY REQUIRED. PROVIDE ALL TRENCHING, BACKFILL, AND PAVEMENT PATCHING.

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SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

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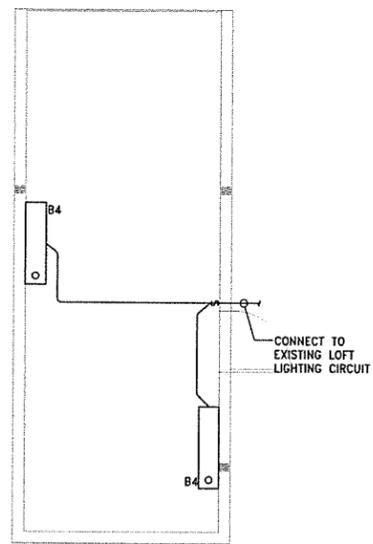
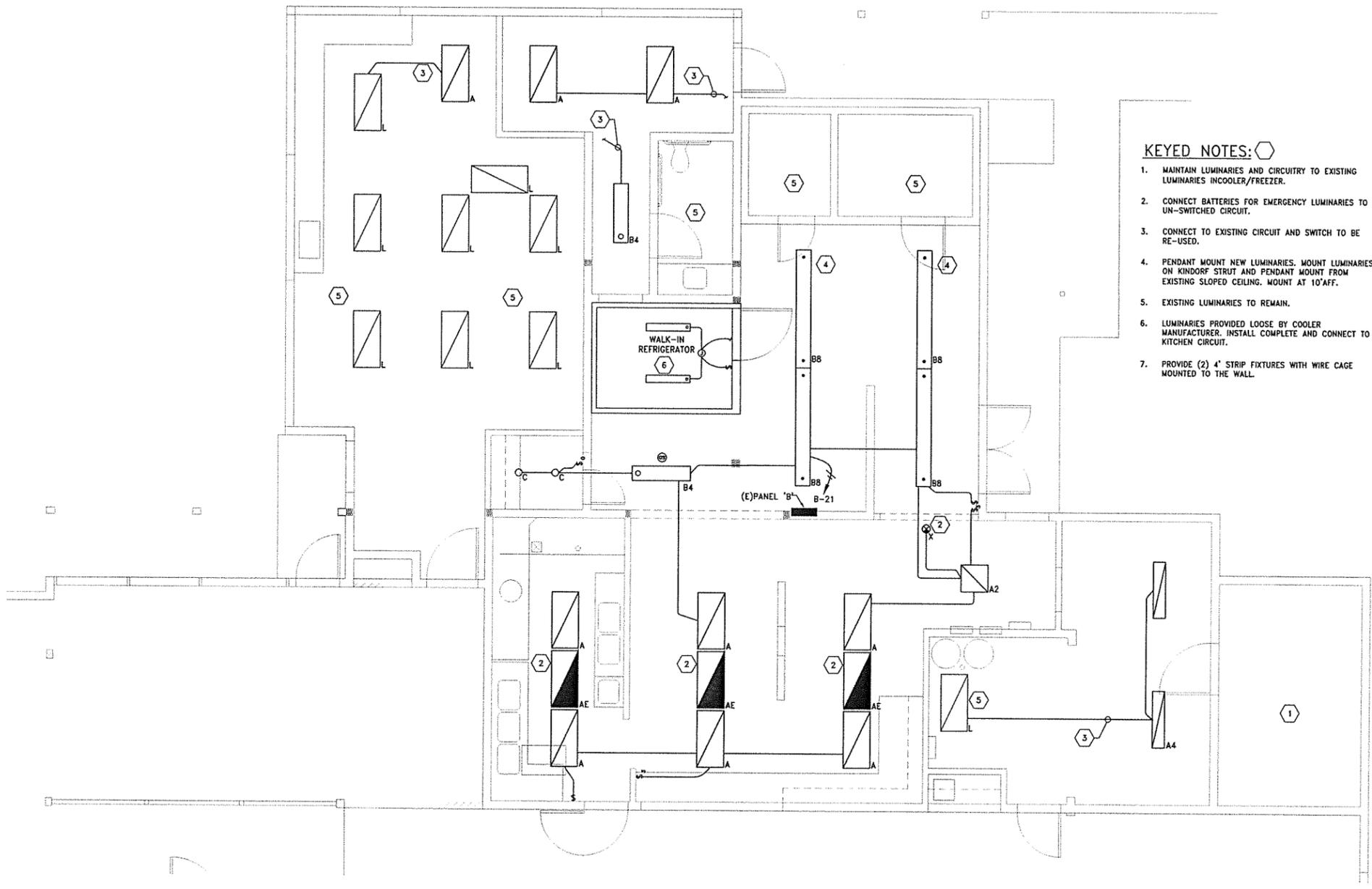
Mark	Description	Date
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CHECKED BY	BCJ	

FLOOR
 PLAN
 LIGHTING

SCALE: NOTED ON DRAWINGS
 E3.1
 SHEET

KEYED NOTES:

1. MAINTAIN LUMINARIES AND CIRCUITRY TO EXISTING LUMINARIES IN COOLER/FREEZER.
2. CONNECT BATTERIES FOR EMERGENCY LUMINARIES TO UN-SWITCHED CIRCUIT.
3. CONNECT TO EXISTING CIRCUIT AND SWITCH TO BE RE-USED.
4. PENDANT MOUNT NEW LUMINARIES. MOUNT LUMINARIES ON KINDORF STRUT AND PENDANT MOUNT FROM EXISTING SLOPED CEILING. MOUNT AT 10' AFF.
5. EXISTING LUMINARIES TO REMAIN.
6. LUMINARIES PROVIDED LOOSE BY COOLER MANUFACTURER. INSTALL COMPLETE AND CONNECT TO KITCHEN CIRCUIT.
7. PROVIDE (2) 4' STRIP FIXTURES WITH WIRE CAGE MOUNTED TO THE WALL.



2 ENLARGED LOFT PLAN - LIGHTING
 E3.1 SCALE: 1/4" = 1'-0"

1 FLOOR PLAN - LIGHTING
 E3.1 SCALE: 1/4" = 1'-0"

LUMINARIES SCHEDULE

TYPE	DESCRIPTION	TYPE	DESCRIPTION
A	2' X 4' RECESSED LED LUMINARY, 120V, 4000 LUMENS AT 32 WATTS, 3500K, ACRYLIC LENS, T-BAR MOUNTING. LITHONIA: 2SBSL4 OR EQUIVALENT.	B8	PENDANT MOUNT 96" LED LUMINARY, 6000 LUMENS, 3500K, SYMMETRICAL REFLECTOR, DROP LENS. LITHONIA: ZLID-L96-SMR-6000LM
AE	SAME AS TYPE 'A' EXCEPT PROVIDE LUMEN BATTERY BACKUP.	C	13" ROUND SURFACE MOUNTED LED LUMINARY, 120V, 632 LUMENS, ACRYLIC DIFFUSER LITHONIA: FMML-7-B-4000K-DNA OR EQUIVALENT.
A2	SAME AS TYPE 'A' EXCEPT 2' X 2' WITH 2000 LUMEN OUTPUT.	B4	SURFACE MOUNT 48" LED LUMINARY, 3000 LUMENS, 3500K, SYMMETRICAL REFLECTOR, DROP LENS. LITHONIA: ZLID-L48-SMR-3000LM.
A4	SAME AS TYPE 'A' EXCEPT 1' X 4', 2000 LUMEN, MOUNTED IN GYPBOARD CEILING.	X	UNIVERSAL MOUNT LED EXIT SIGN, HIGH IMPACT ACRYLIC, BATTERY BACKUP, 120V. LITHONIA: EXR LED M6.

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MKE B ASSOCIATES, INC.
 CONSULTING ENGINEERS
 MECHANICAL AND ELECTRICAL SYSTEMS

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SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

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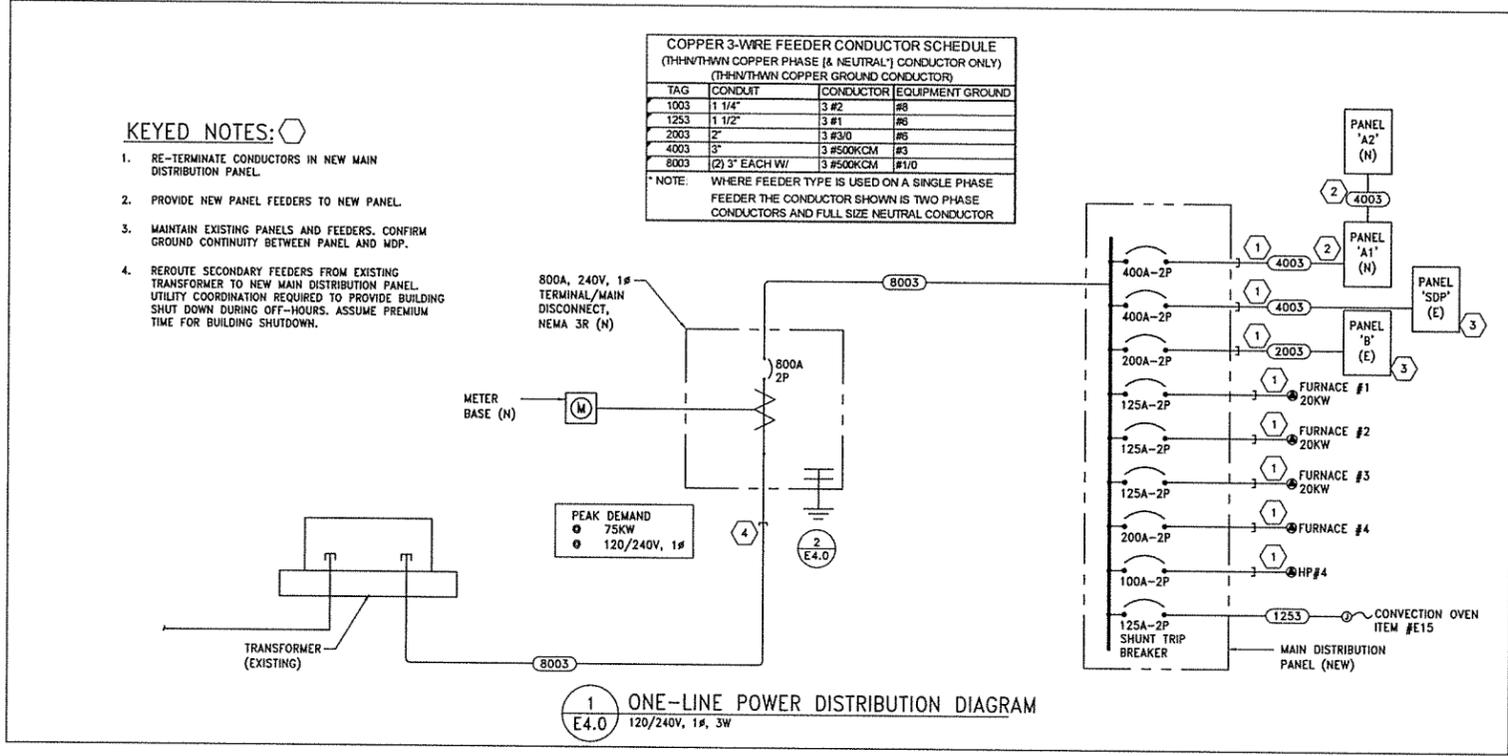
ONE-LINE
 POWER DISTRIBUTION
 DIAGRAM

SCALE: NOTED ON DRAWINGS

E4.0
 SHEET

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MKE & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 MECHANICAL AND ELECTRICAL SYSTEMS



COPPER 3-WIRE FEEDER CONDUCTOR SCHEDULE
 (THRU/THRU COPPER PHASE & NEUTRAL] CONDUCTOR ONLY)
 (THRU/THRU COPPER GROUND CONDUCTOR)

TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
1003	1 1/4"	3 #2	#8
1253	1 1/2"	3 #1	#8
2003	2"	3 #3/0	#8
4003	3"	3 #500KCM	#3
8003	(2) 3" EACH W/	3 #500KCM	#1/0

* NOTE: WHERE FEEDER TYPE IS USED ON A SINGLE PHASE FEEDER THE CONDUCTOR SHOWN IS TWO PHASE CONDUCTORS AND FULL SIZE NEUTRAL CONDUCTOR

KEYED NOTES:

- RE-TERMINATE CONDUCTORS IN NEW MAIN DISTRIBUTION PANEL.
- PROVIDE NEW PANEL FEEDERS TO NEW PANEL.
- MAINTAIN EXISTING PANELS AND FEEDERS. CONFIRM GROUND CONTINUITY BETWEEN PANEL AND MDP.
- REROUTE SECONDARY FEEDERS FROM EXISTING TRANSFORMER TO NEW MAIN DISTRIBUTION PANEL. UTILITY COORDINATION REQUIRED TO PROVIDE BUILDING SHUT DOWN DURING OFF-HOURS. ASSUME PREMIUM TIME FOR BUILDING SHUTDOWN.

PANEL SCHEDULE
 PANEL: PANEL A1 (SECTION #1) MKE & ASSOCIATES, INC. MOUNTING: FLUSH
 FED BY: MDP BUS/MAIN: 400A BUS PROVIDE
 LOC: KITCHEN VOLTS 120/240 PHASE 1 WIRE 3 FEED THRU LUGS

C	DESCRIPTION	VA	AP	No.	A	C	No.	AP	VA	DESCRIPTION	C
4	DISHWASHER	4500	50/2	1	*	2	30/2	2250	2250	WATER HEATER (2)	3
4	*	4500	*	3	*	4	*	2250	*	*	3
4	REFRIG - #11	1092	20/1	5	*	6	30/2	2250	2250	WATER HEATER (2)	3
4	MICROWAVE - #25	1420	20/1	7	*	8	*	2250	*	*	3
4	R - KITCHEN	720	20/1	9	*	10	30/2	2450	2450	HOT WELLS - #24	4
4	R - KITCHEN	720	20/1	11	*	12	*	2450	*	*	4
4	R - BREWER #26	3480	40/2	13	*	14	20/2	1200	1200	KEF-1 (1)	6
4	*	3480	*	15	*	16	*	1200	*	*	6
4	R - KITCHEN	720	20/1	17	*	18	20/2	1200	1200	SF-1 (1)	6
4	R - KITCHEN	720	20/1	19	*	20	*	1200	*	*	6
4	R - KITCHEN	720	20/1	21	*	22	20/1	100	100	DAMPER (1)	6
4	R - KITCHEN	720	20/1	23	*	24	20/1	800	800	L-EXISTING CIRCUITS (2)	1
4	COOLER - COND #5	960	20/2	25	*	26	20/1	720	720	*	1
4	*	960	*	27	*	28	20/1	720	720	*	1
4	COOLER - EVAP #6	240	20/1	29	*	30	20/1	1100	1100	*	1
4	20 QT. MIXER #8	640	20/1	31	*	32	20/1	820	820	*	1
4	FIRE SUPPRESSION #10	240	20/1	33	*	34	20/1	1100	1100	*	1
4	ICE MACHINE #9	1240	20/1	35	*	36	20/1	720	720	*	1
4	EXISTING CIRCUITS (2)	*	20/1	37	*	38	20/1	900	900	*	1
4	*	*	20/1	39	*	40	20/1	1120	1120	*	1

LOAD CODE (VA)	PH A	PH B	TOTAL (VA)	FACTOR	CODE LOAD
1. LIGHTS	3,820	4,160	8,000	1.25	10,000
2. RECEPTACLE	0	0	0	*	0
3. HEATING	4,500	4,500	9,000	1.00	9,000
4. KITCHEN	15,152	16,680	32,032	0.65	20,821
5. EQUIPMENT	0	0	0	1.00	0
6. MOTORS	2,500	2,400	4,900	**	5,500
7. MISC	0	0	0	1.00	0
TOTAL (VA):	25,972	27,960	53,932		45,321

LARGEST MOTOR: 1,200 VA # KITCHEN EQUIPMENT 15 TOTAL LOAD: 225 A CODE DEMAND: 169 A

NOTES:
 (1) SEE CONTROL DIAGRAM FOR INTERLOCK.
 (2) EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANEL.
 * FIRST 10 KVA + 50% OF THE BALANCE
 ** 125% OF THE LARGEST MOTOR + THE BALANCE

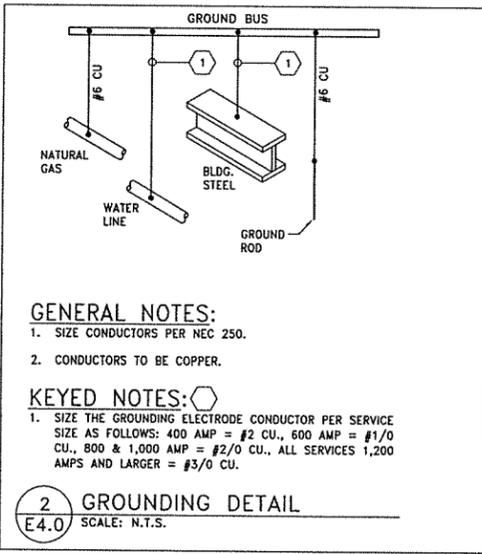
PANEL SCHEDULE
 PANEL: PANEL A2 (SECTION #2) MKE & ASSOCIATES, INC. MOUNTING: FLUSH
 FED BY: MDP BUS/MAIN: 400A MLO

C	DESCRIPTION	VA	AP	No.	A	C	No.	AP	VA	DESCRIPTION	C
4	STEAMER - #16 (3)	5364	50/2	1	*	2	30/2	2250	2250	WATER HEATER (2)	3
4	*	5364	*	3	*	4	*	2250	*	*	3
4	GRIDDLE - #17 (3)	600	20/1	5	*	6	20/2	1500	1500	AC GFT SHOP	6
4	BURNER RANGE - #18 (3)	600	20/1	7	*	8	*	1500	*	*	6
4	WAREWASH TANK - #20	1440	20/2	9	*	10	20/2	1000	1000	BASEBOARD HTR	6
4	*	1440	*	11	*	12	*	1000	*	*	6
4	WAREWASH BOOSTER - #21	4250	50/2	13	*	14	20/2	1000	1000	BASEBOARD HTR	6
4	*	4250	*	15	*	16	*	1000	*	*	6
4	WAREWASH DET. - #22	1440	20/1	17	*	18	20/2	1000	1000	BASEBOARD HTR	6
4	SPARE	20/1	19	*	20	*	1000	*	*	*	6
4	*	20/1	21	*	22	20/1	720	720	R- (2)	2	
4	*	20/1	23	*	24	20/1	540	540	R- (2)	2	
4	*	20/1	25	*	26	20/1	540	540	R- (2)	2	
4	*	20/1	27	*	28	20/1	720	720	FAN	6	
4	*	20/1	29	*	30	20/1	720	720	FAN	6	
4	SPACE	20/1	31	*	32	20/1	20/1	20/1	SPARE	6	
4	*	20/1	33	*	34	20/1	*	*	*	6	
4	*	20/1	35	*	36	20/1	*	*	SPACE	6	
4	*	20/1	37	*	38	*	*	*	*	6	
4	*	20/1	39	*	40	*	*	*	*	6	

LOAD CODE (VA)	PH A	PH B	TOTAL (VA)	FACTOR	CODE LOAD
1. LIGHTS	0	0	0	1.25	0
2. RECEPTACLE	1,260	540	1,800	*	1,800
3. HEATING	2,250	2,250	4,500	1.00	4,500
4. KITCHEN	13,094	11,654	24,748	0.65	16,086
5. EQUIPMENT	0	0	0	1.00	0
6. MOTORS	5,220	5,220	10,440	**	11,190
7. MISC	0	0	0	1.00	0
TOTAL (VA):	21,824	19,664	41,488		33,576

LARGEST MOTOR: 1,500 VA # KITCHEN EQUIPMENT 6 TOTAL LOAD: 173 A CODE DEMAND: 140 A

NOTES:
 (1) SEE CONTROL DIAGRAM FOR INTERLOCK.
 (2) EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANEL.
 (3) PROVIDE SHUNT TRIP BREAKERS.
 * FIRST 10 KVA + 50% OF THE BALANCE
 ** 125% OF THE LARGEST MOTOR + THE BALANCE



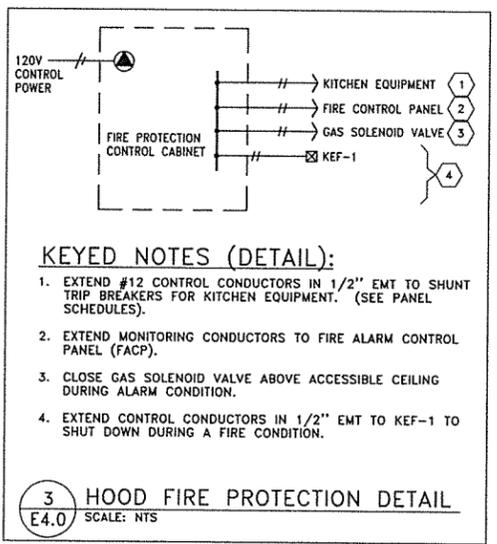
GENERAL NOTES:

- SIZE CONDUCTORS PER NEC 250.
- CONDUCTORS TO BE COPPER.

KEYED NOTES:

- SIZE THE GROUNDING ELECTRODE CONDUCTOR PER SERVICE SIZE AS FOLLOWS: 400 AMP = #2 CU., 600 AMP = #1/0 CU., 800 & 1,000 AMP = #2/0 CU., ALL SERVICES 1,200 AMPS AND LARGER = #3/0 CU.

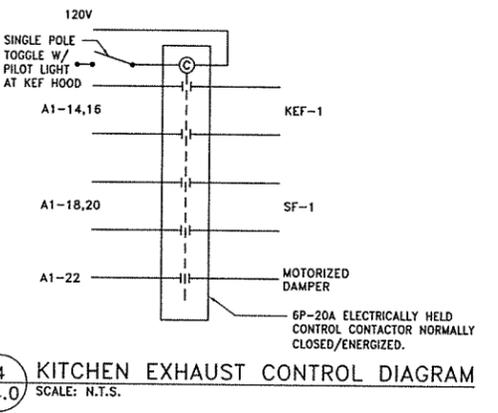
2 GROUNDING DETAIL
 E4.0 SCALE: N.T.S.



KEYED NOTES (DETAIL):

- EXTEND #12 CONTROL CONDUCTORS IN 1/2" EMT TO SHUNT TRIP BREAKERS FOR KITCHEN EQUIPMENT. (SEE PANEL SCHEDULES).
- EXTEND MONITORING CONDUCTORS TO FIRE ALARM CONTROL PANEL (FACP).
- CLOSE GAS SOLENOID VALVE ABOVE ACCESSIBLE CEILING DURING ALARM CONDITION.
- EXTEND CONTROL CONDUCTORS IN 1/2" EMT TO KEF-1 TO SHUT DOWN DURING A FIRE CONDITION.

3 HOOD FIRE PROTECTION DETAIL
 E4.0 SCALE: N.T.S.



4 KITCHEN EXHAUST CONTROL DIAGRAM
 E4.0 SCALE: N.T.S.

PLUMBING SCHEDULE

P. NO.	SIZE	DESCRIPTION	LOCATION	HEIGHT	SERVICE TO :	REMARKS:
P1	---	FLOOR DRAIN	FLOOR	-1/2"	AREA DRAIN	---
P2	---	---	---	---	CLOTHES WASHER	VERIFY ALL REQUIREMENTS FOR OWNER FURNISHED EQUIP.
P3	12"x12"	FLOOR SINK	FLOOR	0"	WALK-IN EVAPORATOR DRAIN	NO GRATE
P4	1/2"	HOT & COLD	WALL	22"	HAND WASHING SINK	10 GPH HOT
P5	1-1/2"	WASTE	WALL	20"	HAND WASHING SINK	---
P6	12"x12"	FLOOR SINK	FLOOR	0"	CUBE ICE MACHINE WITH BIN	HALF GRATE
P7	1/2"	COLD	WALL	62"	CUBE ICE MACHINE WITH BIN	---
P8	12"x12"	FLOOR SINK	FLOOR	0"	(2) SINK DRAINS	NO GRATE
P9	1/2"	HOT & COLD	WALL	16"	SINK FAUCET	20 GPH HOT
P10	---	NOT USED	---	---	---	---
P11	---	NOT USED	---	---	---	---
P12	---	NOT USED	---	---	---	---
P13	3/4"	GAS	WALL	36"	36" GRIDDLE	160M BTU TOTAL CONNECTION- QUICK DISCONNECT
P14	3/4"	GAS	WALL	36"	6-OPEN BURNER RANGE	198M BTU TOTAL CONNECTION- QUICK DISCONNECT
P15	3/4"	HOT @ 110°	WALL	64"	WAREWASHER WITH BOOSTER HEATER	48. 1 GPH HOT @ 20 PSI
P16	---	1-1/2" DRAIN	---	---	WAREWASHER WITH BOOSTER HEATER	EXTEND TO EXISTING FLOOR SINK. VERIFY EXACT LOCATION
P17	1/2"	COLD	WALL	11"	WAREWASHER DRAIN WATER TEMPERING	---
P18	12"x12"	FLOOR SINK	FLOOR	0"	DROP-IN HOT WELLS	HALF GRATE
P19	1/2"	COLD	WALL	24"	DROP-IN HOT WELLS	---
P20	1/2"	HOT & COLD	WALL	22"	DROP-IN SINK	20 GPH HOT
P21	2"	WASTE	WALL	20"	DROP-IN SINK	---
P22	1/2"	COLD	WALL	24"	COFFEE BREWER	VERIFY ALL REQUIREMENTS FOR VENDOR FURNISHED EQUIP.

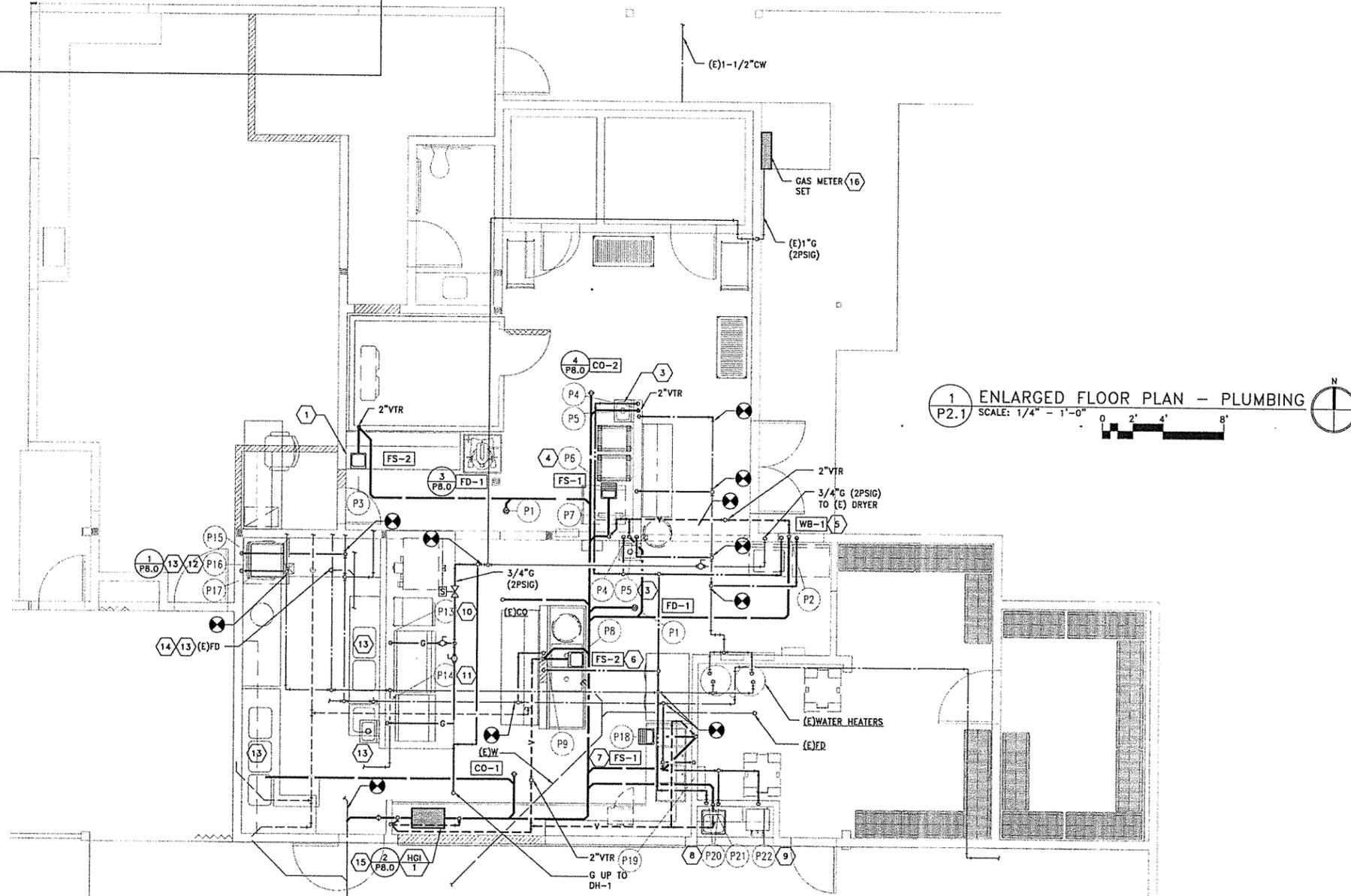
NOTE:
COORDINATE EQUIPMENT REQUIREMENTS, LOCATIONS AND CONNECTION WITH KITCHEN CONSULTANT PLANS.

GENERAL NOTES:

- A. REFER TO FS1.2 FOR KITCHEN EQUIPMENT MARK NUMBER AND CONNECTION SCHEDULE.
- B. CONTRACTOR SHALL PROVIDE FULL SIZE CW AND HW PIPING TO EACH PLUMBING FIXTURE, SEE SCHEDULE.
- C. PROVIDE SEISMIC RESTRAINT BRACING OF ALL PIPING SYSTEMS AND PLUMBING EQUIPMENT PER SPECIFICATIONS.
- D. THE ROUTING OF ALL PIPING IS DIAGRAMMATIC AND DOES NOT SHOW EVERY OFFSET. CONTRACTOR SHALL COORDINATE WITH HVAC AND ALL OTHER TRADES.
- E. PROVIDE ISOLATION VALVES ON ALL BRANCH PIPING, TYPICAL. PROVIDE VALVES INS ACCESSIBLE LOCATIONS AND ACCESS COORDINATE EXACT LOCATION AND TYPE WITH OTHER TRADES.
- F. COORDINATE LOCATION OF ALL BELOW GRADE PIPING PENETRATIONS THRU FOUNDATION AND FLOOR.
- G. SEAL ALL PIPING PENETRATIONS THROUGH FLOOR AND WALL WATER TIGHT. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.
- H. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOOR DRAINS PRIOR TO ROUGH IN.
- I. PROVIDE DIELECTRIC COUPLINGS FOR ALL DISSIMILAR METAL PIPING CONNECTIONS, TYPICAL.
- J. PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.
- K. PLUMBING CONTRACTOR SHALL PROVIDE CLEANOUTS ON ALL WASTE PIPING ON BENDS OR CHANGES OF DIRECTION OF 135 DEGREES OR GREATER, MORE THAN 5 FEET FROM MAIN AND WHERE REQUIRED BY LOCAL CODES. WHETHER OR NOT SHOWN. COORDINATE WITH FINISHED FLOOR AND WALL LOCATIONS AND TYPES.

KEYED NOTES:

- 1. WALK-IN EVAPORATOR COOLER. INDIRECT DRAIN TO FLOOR SINK.
- 2. NOT USED.
- 3. HAND WASH SINK. PROVIDE CW, HW, W AND V.
- 4. ICE MACHINE. PROVIDE CW AND INDIRECT DRAIN TO FLOOR SINK.
- 5. WASHING MACHINE WALL BOX. PROVIDE CW, HW, W AND V.
- 6. 2-COMPARTMENT SINK. PROVIDE CW, HW, INDIRECT DRAIN TO FLOOR SINK AND V.
- 7. DROP-IN HOT WELL. PROVIDE CW AND INDIRECT DRAIN TO FLOOR SINK.
- 8. DROP-IN SINK. PROVIDE CW, HW, W AND V.
- 9. COFFEE BREWER. PROVIDE CW.
- 10. GRIDDLE. PROVIDE GAS.
- 11. RANGE. PROVIDE GAS.
- 12. WAREWASHER. PROVIDE CW, HW AND INDIRECT W TO (E) FLOOR SINK.
- 13. CONNECT TO GW (E) FLOOR SINK, (E)FD, (E)2-COMPARTMENT SINK, (E)3-COMPARTMENT SINK AND (E) HAND SINK AS NECESSARY.
- 14. (E)FD. RETROFIT TO NEW FLOORING SYSTEM. PROVIDE (H) GRATE. SEE ARCHITECTURAL FOR COORDINATION.
- 15. LOCATE UNDER COUNTER.
- 16. REPLACE GAS METER. COORDINATE WITH NW NATURAL.



1 ENLARGED FLOOR PLAN - PLUMBING
P2.1 SCALE: 1/4" = 1'-0"

PLOTTED: KENDAL BELTON 9/25/2017 11:36 AM
X:\DWG\BA\4881\4681P21

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SENIOR CENTER KITCHEN
REHABILITATION
PROJECT - CDBG #8209

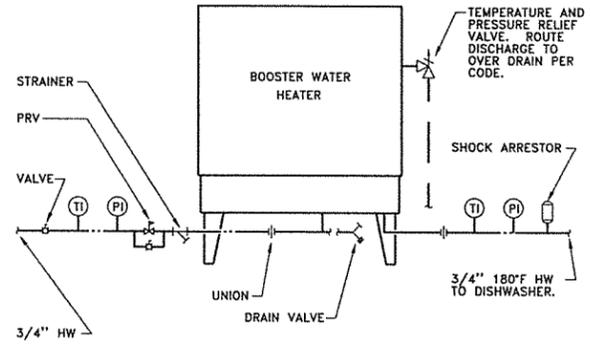
FOR:
FOREST GROVE SENIOR
CENTER
2037 DOUGLAS STREET
FOREST GROVE, OR 97116

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY		
CHECKED BY	BCJ	
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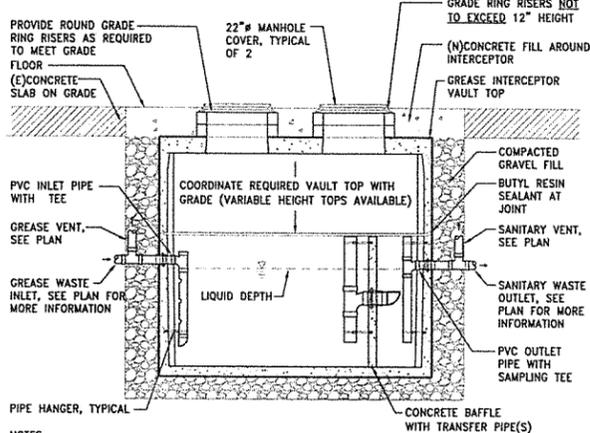
SHEET TITLE
ENLARGED FLOOR
PLAN - PLUMBING

SCALE: NOTED ON DRAWINGS

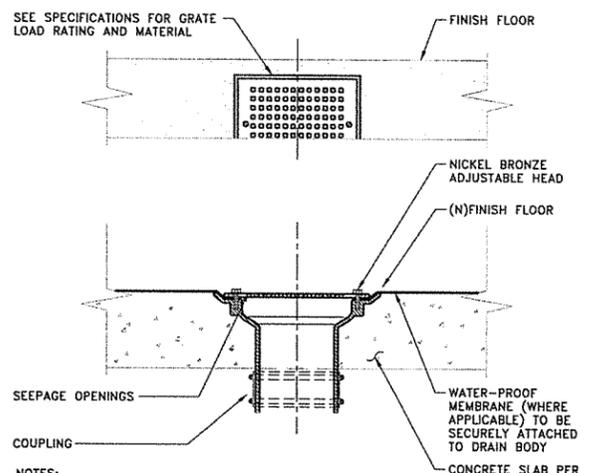
P2.1
SHEET



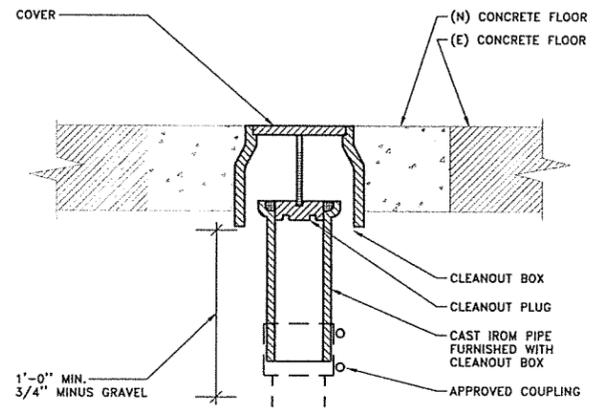
1 **DETAIL - DISHWASHER AND BOOSTER HEATER**
 SCALE: N.T.S.



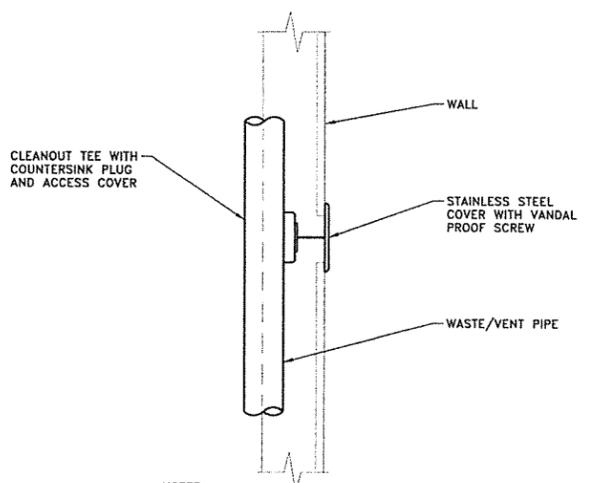
2 **DETAIL - GREASE INTERCEPTOR**
 SCALE: N.T.S.



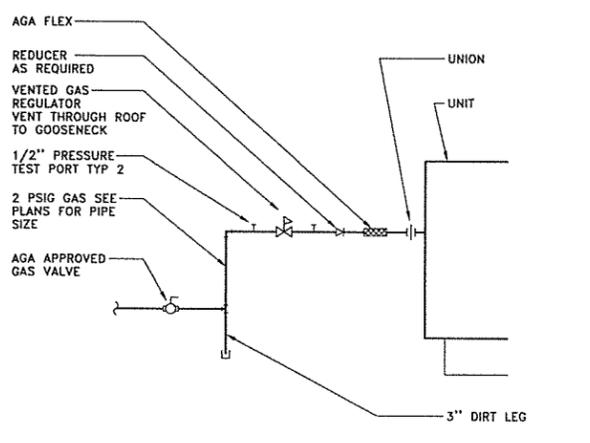
3 **DETAIL - FLOOR DRAIN**
 SCALE: N.T.S.



4 **DETAIL - INTERIOR CLEANOUT TO GRADE (CO-2)**
 SCALE: N.T.S.



5 **DETAIL - WALL CLEANOUT (CO-3)**
 SCALE: N.T.S.



6 **DETAIL - EQUIPMENT GAS PIPING**
 SCALE: N.T.S.



SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
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 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY		
CHECKED BY	BCJ	

SHEET TITLE
DETAILS - PLUMBING

SCALE: NOTED ON DRAWINGS
P8.0
 SHEET

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 engineering@mke-inc.com

ROOF HOOD									
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	THROAT SIZE		THROAT VELOCITY (FPM)	WEIGHT (LBS)	COMMENTS	
				WIDTH (IN)	LENGTH (IN)				
RH-1	OUTSIDE AIR HOOD	DH-1	3,200	36	18	711	100	1, 2	

NOTES:
 1 PROVIDE CLASS 1A MOTORIZED DAMPER. INTERLOCK WITH H.P.1.
 2 PROVIDE COMPOUND SLOPE ROOF CURB.

SUPPLY FAN																		
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	ESP (IN WC)	VOLTAGE	PH	HP	MCA	FLA	DRIVE	RPM	TIP SPEED (FPM)	INTERLOCK	WHEEL TYPE	DISCHARGE	SONES	WEIGHT (LBS)	COMMENTS

NOTES:
 1 PROVIDE CLASS 1A MOTORIZED DAMPER. INTERLOCK WITH FAN.

KITCHEN EXHAUST FAN																		
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	ESP (IN WC)	VOLTAGE	PH	HP	MCA	FLA	DRIVE	RPM	TIP SPEED (FPM)	INTERLOCK	WHEEL TYPE	DISCHARGE	SONES	WEIGHT (LBS)	COMMENTS

NOTES:
 1 PROVIDE COMPOUND SLOPE ROOF CURB.

GAS FIRED DUCT HEATER												
SYMBOL MARK	DESCRIPTION	SERVICE	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	EAT (°F)	VENT SIZE (IN)	COMB. SIZE (IN)	CFM	WEIGHT (LBS)	COMMENTS	
												DH-1

NOTES:
 1 PROVIDE MANUFACTURER'S VERTICAL COMBUSTION AIR / VENT KIT. CONCENTRIC ADAPTER AND VENT TERMINAL.
 2 PROVIDE DUCT HEATER WITHOUT FINGER BAFFLES.



SENIOR CENTER KITCHEN REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
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SHEET TITLE
 SCHEDULES - HVAC

SCALE: NOTED ON DRAWINGS

M1.0
 SHEET

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 CONTACT: Allen Crisanoz
 engineering@mke-inc.com

MKE & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 MECHANICAL AND ELECTRICAL SYSTEMS



SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

Mark	Description	Date
△	ADDENDUM NO. 1	10/24/17

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY	LB/SH	
CHECKED BY	LB	

SHEET TITLE

LEVEL 1 - FOOD SERVICE
 EQUIPMENT PLAN

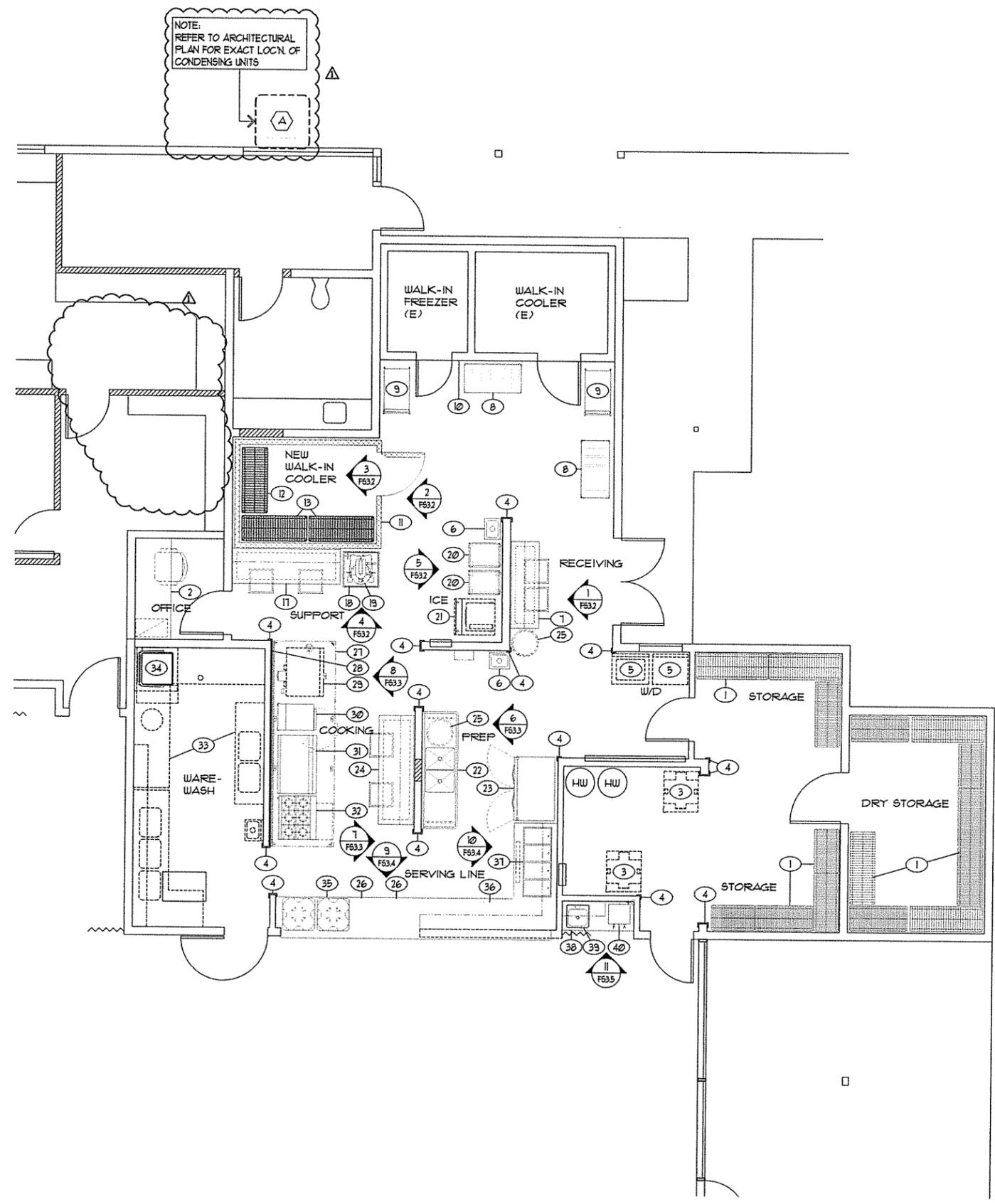
SCALE: NOTED ON DRAWINGS

FS1.1

SHEET

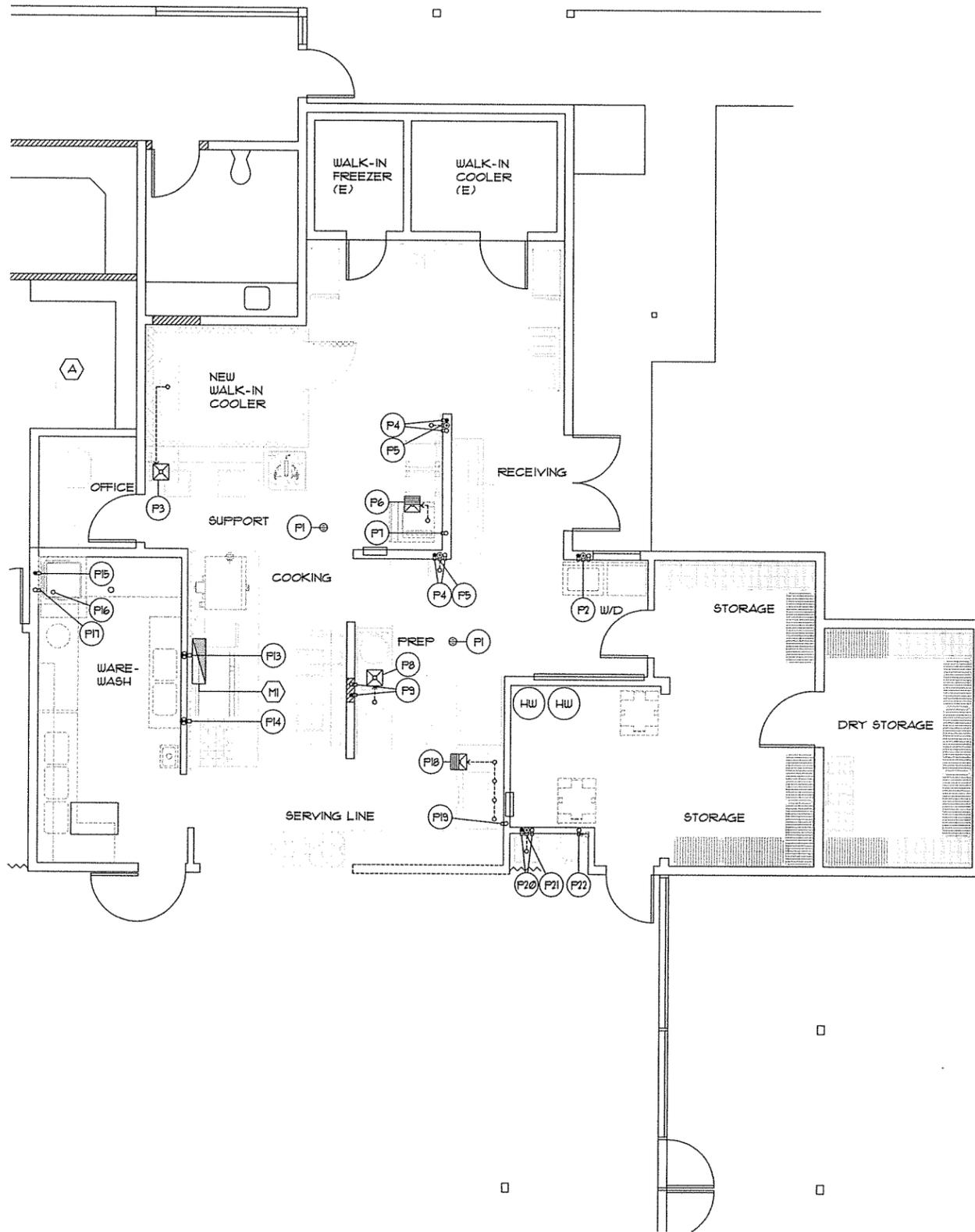
EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	QUAN	REMARKS
1	DRY STORAGE SHELVING	LOT	OWNER FURNISHED/CONTRACTOR INSTALLED
2	MANAGERS STATION	1	BY ARCHITECTURAL DIVISION
3	MOBILE TRANSPORT CARTS	2	EXISTING EQUIPMENT
4	CORNER/CHANNEL GUARDS	LOT	---
5	WASHER AND DRYER	1	EXISTING EQUIPMENT. CONTRACTOR TO RELOCATE/REINSTALL
6	HAND WASHING SINKS	2	OWNER FURNISHED/CONTRACTOR INSTALLED
7	WORK TABLE	1	OWNER FURNISHED/CONTRACTOR INSTALLED
8	MOBILE POT & PAN SHELVING	2	OWNER FURNISHED/CONTRACTOR INSTALLED
9	UTILITY CARTS	2	OWNER FURNISHED & INSTALLED
10	WALK-IN COLD STORAGE ROOMS & REFRIGERATION	2	EXISTING EQUIPMENT
11	WALK-IN COOLER	1	---
12	REFRIGERATION SYSTEM	1	---
13	WALK-IN FREEZER SHELVING	LOT	OWNER FURNISHED/CONTRACTOR INSTALLED
14	NOT USED	---	---
15	NOT USED	---	---
16	NOT USED	---	---
17	SUPPORT WORK TABLE	1	OWNER FURNISHED/CONTRACTOR INSTALLED
18	MOBILE MIXER CART	1	OWNER FURNISHED & INSTALLED
19	20-QUART MIXER	1	OWNER FURNISHED & INSTALLED
20	SHEET PAN RACKS	2	OWNER FURNISHED & INSTALLED
21	CUBE ICE MACHINE WITH BIN	1	EXISTING EQUIPMENT - CONTRACTOR RELOCATE/REINSTALL
22	VEGETABLE PREP SINK TABLE	1	OWNER FURNISHED/CONTRACTOR INSTALLED
23	REACH-IN REFRIGERATOR	1	OWNER FURNISHED/CONTRACTOR INSTALLED
24	COOK'S SUPPORT WORK TABLE	1	OWNER FURNISHED/CONTRACTOR INSTALLED
25	MOBILE WASTE RECEPTACLES	2	OWNER FURNISHED & INSTALLED
26	DISH DOLLIES	2	OWNER FURNISHED & INSTALLED
27	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
28	STAINLESS STEEL WALL FLASHING	LOT	---
29	DOUBLE STACK CONVECTION OVENS	1	EXISTING EQUIPMENT. CONTRACTOR TO RELOCATE/REINSTALL
30	CONVECTION STEAMER WITH STAND	1	OWNER FURNISHED/CONTRACTOR INSTALLED
31	36" GRIDDLE	1	OWNER FURNISHED/CONTRACTOR INSTALLED
32	6-OPEN BURNER RANGE	1	OWNER FURNISHED/CONTRACTOR INSTALLED
33	WAREWASHING EQUIPMENT	LOT	EXISTING EQUIPMENT. CONTRACTOR TO RELOCATE/REINSTALL
34	WAREWASHER WITH BOOSTER HEATER	1	OWNER FURNISHED/CONTRACTOR INSTALLED
35	SERVING COUNTER WITH WALL CABINETS	1	---
36	MICROWAVE OVEN	1	OWNER FURNISHED & INSTALLED
37	DROP-IN HOT WELLS	1	OWNER FURNISHED/CONTRACTOR INSTALLED
38	BEVERAGE COUNTER	1	BY ARCHITECTURAL DIVISION
39	DROP-IN SINK	1	OWNER FURNISHED/CONTRACTOR INSTALLED
40	COFFEE BREWER	1	BY VENDOR



NOTE:
 REFER TO ARCHITECTURAL
 PLAN FOR EXACT LOCN OF
 CONDENSING UNITS

01 LEVEL 1 - FOOD SERVICE EQUIPMENT PLAN
 SCALE: 1/4" = 1'-0"



01 LEVEL 1 - FOOD SERVICE PLUMBING/MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

PLUMBING SCHEDULE							
ITEM NO.	P. NO.	SIZE	DESCRIPTION	LOCATION	HEIGHT	SERVICE TO :	REMARKS:
---	F1	---	FLOOR DRAIN	FLOOR	-1/2"	AREA DRAIN	---
5	F2	---	---	---	---	CLOTHES WASHER	VERIFY ALL REQUIREMENTS FOR OWNER FURNISHED EQUIP.
12	F3	1/2" x 1/2"	FLOOR SINK	FLOOR	0"	WALK-IN EVAPORATOR DRAIN	NO GRATE
6	F4	1/2"	HOT & COLD	WALL	22"	HAND WASHING SINK	10 GPH HOT
6	F5	1-1/2"	WASTE	WALL	20"	HAND WASHING SINK	---
21	F6	1/2" x 1/2"	FLOOR SINK	FLOOR	0"	CUBE ICE MACHINE WITH BIN	HALF GRATE
21	F7	1/2"	COLD	WALL	62"	CUBE ICE MACHINE WITH BIN	---
22	F8	1/2" x 1/2"	FLOOR SINK	FLOOR	0"	(2) SINK DRAINS	NO GRATE
22	F9	1/2"	HOT & COLD	WALL	16"	SINK FAUCET	20 GPH HOT
---	F10	---	NOT USED	---	---	---	---
---	F11	---	NOT USED	---	---	---	---
---	F12	---	NOT USED	---	---	---	---
31	F13	3/4"	GAS	WALL	36"	36" GRIDDLE	160M BTU TOTAL CONNECTION- QUICK DISCONNECT
32	F14	3/4"	GAS	WALL	36"	6-OPEN BURNER RANGE	130M BTU TOTAL CONNECTION- QUICK DISCONNECT
34	F15	3/4"	HOT @ 110"	WALL	64"	WAREWASHER WITH BOOSTER HEATER	48.1 GPH HOT @ 20 PSI
34	F16	---	1-1/2" DRAIN	---	---	WAREWASHER WITH BOOSTER HEATER	EXTEND TO EXISTING FLOOR SINK. VERIFY EXACT LOCATION
34	F17	1/2"	COLD	WALL	11"	WAREWASHER DRAIN WATER TEMPERING	---
31	F18	1/2" x 1/2"	FLOOR SINK	FLOOR	0"	DROP-IN HOT WELLS	HALF GRATE
31	F19	1/2"	COLD	WALL	24"	DROP-IN HOT WELLS	---
39	F20	1/2"	HOT & COLD	WALL	22"	DROP-IN SINK	20 GPH HOT
39	F21	2"	WASTE	WALL	20"	DROP-IN SINK	---
40	F22	1/2"	COLD	WALL	24"	COFFEE BREWER	VERIFY ALL REQUIREMENTS FOR VENDOR FURNISHED EQUIP.

- ### PLUMBING NOTES
- THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWING PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
 - 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.
 - UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL ALL FLOOR SINKS AND AREA DRAINS FLUSH WITH FINISHED FLOOR IF CODE ALLOWS.
 - UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL GREASE TRAP OR INTERCEPTOR AS REQUIRED.
 - UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL ALL SINK WASTE LINES. USE COPPER TUBING UNEXPOSED AND PAINTED WHERE LINES ARE VISIBLE. NO PVC PIPING IS ACCEPTABLE.
 - UNDER KITCHEN EQUIPMENT WORK OF DIVISION II, FURNISH AND INSTALL ALL INDIRECT WASTE LINES FROM EQUIPMENT LOCATED AT CUSTOM COUNTERS. USE COPPER TUBING AND PAINT VISIBLE LINES. NO PVC PIPING IS ACCEPTABLE.
 - UNDER KITCHEN EQUIPMENT WORK OF DIVISION II, PROVIDE FAUCETS AT EQUIPMENT. UNDER PLUMBING WORK OF DIVISION 22, INSTALL AND CONNECT FAUCETS.
 - UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL CHROME PLATED VACUUM BREAKERS OR BACKSIPHONING DEVICES ON SUPPLY LINES TO EQUIPMENT AS REQUIRED BY CODES.
 - 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.
 - UNDER PLUMBING WORK OF DIVISION 22, FURNISH PRESSURE REDUCING VALVE FOR ALL GAS, STEAM, AND WATER LINES. MAXIMUM WATER PRESSURE AT BOOSTER HEATER AND DISHWASHER SHALL BE 20 PSI.
 - UNDER KITCHEN EQUIPMENT WORK OF DIVISION II, FURNISH AND INSTALL WALK-IN COLD STORAGE ROOM EVAPORATOR COPPER DRAIN LINES. TRAP AT OUTLET END.
 - UNDER KITCHEN EQUIPMENT WORK OF DIVISION II, FURNISH GAS QUICK DISCONNECT ASSEMBLIES WITH CABLE RESTRAINTS FOR EACH GAS FIRED COOKING APPLIANCE.
 - UNDER PLUMBING WORK OF DIVISION 22, PROVIDE 110 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.
 - 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.
 - SEE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

MECHANICAL NOTE

M1. ONE (1) 34" x 10" TYPE I EXHAUST DUCT CONNECTION AT CANOPY HOOD. 3542 CFM WITH -0.280" STATIC PRESSURE AT DUCT COLLAR.

PLUMBING/MECHANICAL SYMBOL LEGEND

COLD WATER	⊖
HOT WATER	⊕
WASTE	⊗
FLOOR DRAIN	⊙
FLOOR SINK	⊠

MECHANICAL SYMBOL LEGEND

EXHAUST DUCT	▬
--------------	---

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 SPACE PLANNING & DESIGN

SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY	LB/SH	
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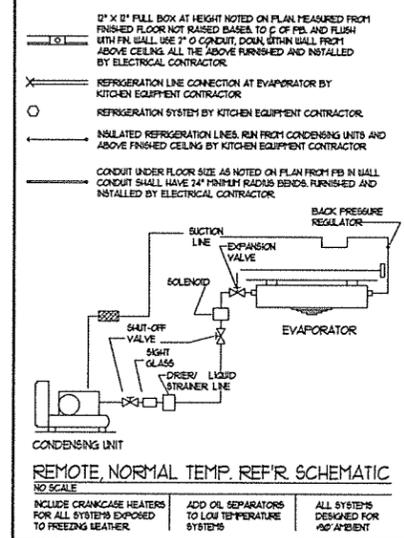
LEVEL 1 - FOOD SERVICE
 PLUMBING/MECHANICAL
 PLAN
 SCALE: NOTED ON DRAWINGS

FS1.2
 SHEET

ELECTRICAL SCHEDULE

ITEM NO.	ENO.	VOLTS	Ø	DESCRIPTION	LOCN	HEIGHT	SERVICE TO:	RATING	REMARKS
---	E1	120	1	DCO	WALL	45"	CONVENIENCE	1440 W	DEDICATED CIRCUIT
5	E2	240	1	SCO	WALL	---	CLOTHES DRYER	---	VERIFY REQUIREMENTS W/OWNER FURNISHED EQUIPMENT
5	E3	120	1	DCO	WALL	---	CLOTHES WASHER	---	VERIFY REQUIREMENTS W/OWNER FURNISHED EQUIPMENT
---	E4	120	1	DCO	WALL	18"	CONVENIENCE	1440 W	DEDICATED CIRCUIT
12	E5	240	3	J-BOX	VERIFY	VERIFY	W/ COOLER CONDENSING UNIT	1 HP	SYSTEM A
12	E6	120	1	J-BOX	CEILING	---	WALK-IN COOLER EVAPORATOR	2 AMPS	SYSTEM A
11	E7	120	1	J-BOX	CEILING	---	(2) WALK-IN LIGHTS	160 W	80 W EACH
19	E8	120	1	DCO	FIXTURE	34"	20-QUART MIXER	1/2 HP	FURNISHED WITH NEMA 5-15P. EXTEND FROM WALL STUB
21	E9	VERIFY	1	J-BOX	WALL	64"	CUBE ICE MACHINE WITH BIN	5.4 AMPS	VERIFY ALL REQUIREMENTS W/EXISTING EQUIPMENT
27	E10	120	1	J-BOX	WALL	102"	FIRE PROTECTION SYSTEM	1 KW	---
23	E11	120	1	DCO	WALL	36"	REACH-IN REFRIGERATOR	9.1 AMPS	FURNISHED WITH NEMA 5-15P
---	E12	---	---	NOT USED	---	---	---	---	---
---	E13	---	---	NOT USED	---	---	---	---	---
---	E14	---	---	NOT USED	---	---	---	---	---
29	E15	240	3	J-BOX	WALL	72"	DOUBLE STACK CONVECTION OVENS	25 KW	TOTAL CONNECT FOR BOTH UNITS
30	E16	240	3	J-BOX	WALL	32"	CONVECTION STEAMER WITH STAND	29.8 AMPS	---
31	E17	120	1	DCO	WALL	36"	36" GRIDDLE	0.5 AMPS	FURNISHED WITH NEMA 5-15P
32	E18	120	1	DCO	WALL	24"	6-OPEN BURNER RANGE	5 AMPS	FURNISHED WITH NEMA 5-15P
27	E19	120	1	J-BOX	CEILING	---	(3) CANOPY HOOD LIGHTS	240 W	80W EACH
34	E20	240	3	J-BOX	WALL	64"	WAREWASHER (TANK HEAT/MOTORS)	2 HP	1.5 KW (SINGLE POINT CONNECTION MOTOR/CONTROLS - 45.4 AMPS)
34	E21	240	3	J-BOX	WALL	64"	WAREWASHER BOOSTER HEATER	8.5 KW	---
34	E22	120	1	DCO	WALL	64"	WAREWASHER DETERGENT FEED	1440 W	DEDICATED CIRCUIT
---	E23	---	---	NOT USED	---	---	---	---	---
37	E24	240	3	J-BOX	WALL	24"	DROP-IN HOT WELLS	4560 W	---
36	E25	120	1	DCO	WALL	24"	MICROWAVE OVEN	13.4 AMPS	FURNISHED WITH NEMA 5-15P
40	E26	240	1	J-BOX	WALL	45"	COFFEE BREWER	23 AMPS	---

SYMBOLS



ELECTRICAL SYMBOL LEGEND

DCO (DUPLX CONVENIENCE OUTLET)	⊕
J-BOX (JUNCTION BOX)	⊙
SCO	⊖
THERMOSTAT	⊖
SOLENOID	⊙
MOTOR	⊙
SWITCH(S)	⊕
LIGHT	⊖
FLOOR OR CEILING STUB (AS NOTED)	•

FIRE PROTECTION LEGEND

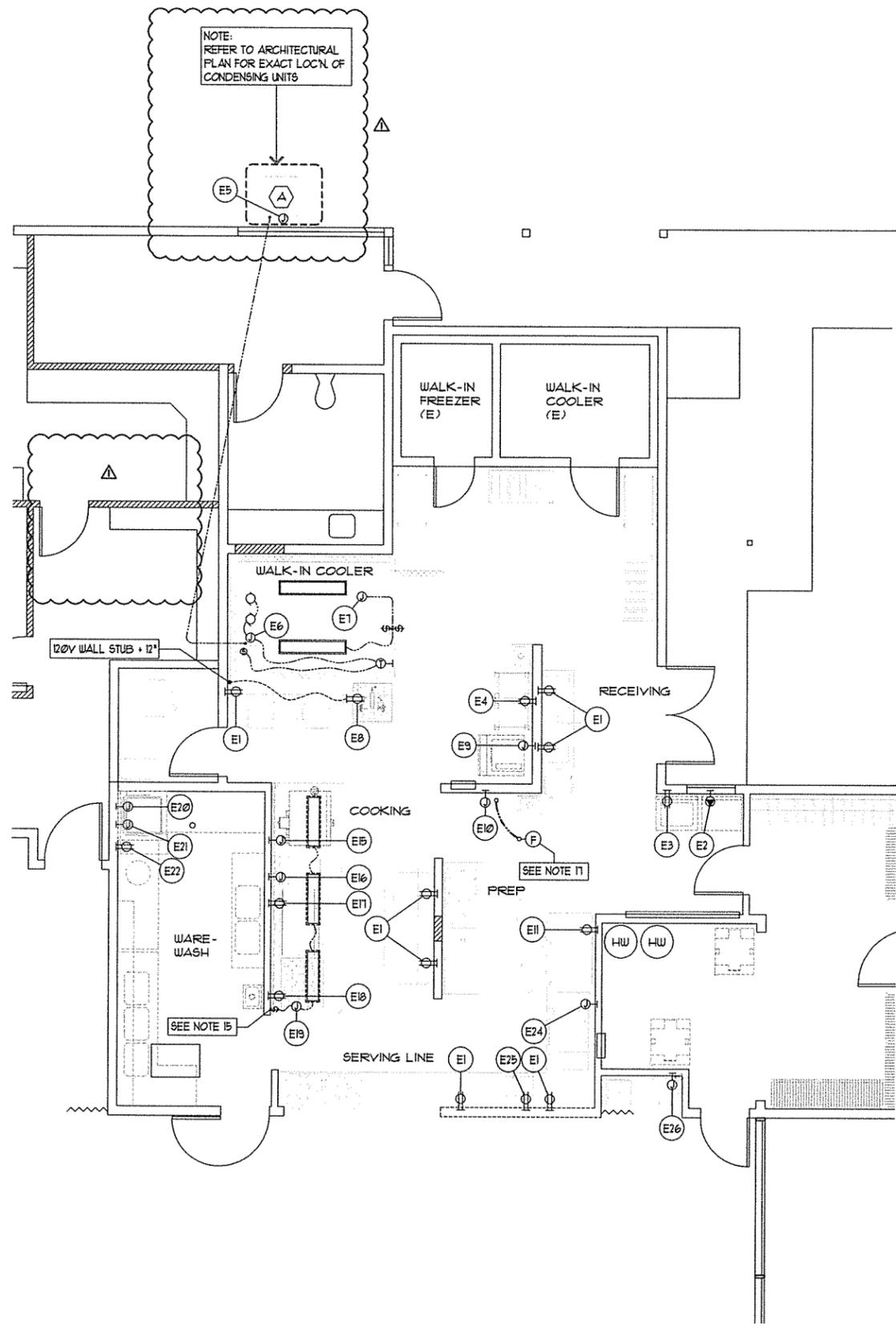
FIRE PROTECTION SYSTEM MANUAL FULL (F)

NOTE:
 LOCATE MANUAL FIRE SUPPRESSION FULL STATIONS 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 OCTAGON BOX AND RUN EMPTY CONDUIT TO FIRE SUPPRESSION CONTROL HEAD. MINIMUM 12" RADIUS BENDS IN ANY CHANGE OF DIRECTION. SET FULL STATION BOX # 48" AFF. TO CENTERLINE. TYPICAL ALL LOCATIONS

ELECTRICAL NOTES

- THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWINGS PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
- UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE ALL ROUGH-INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES.
- 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.
- UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING WIRING ACROSS CEILING AS REQUIRED BETWEEN HOODS AND HOOD FIRE CONTROL PANEL.
- 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.
- ALL ELECTRICAL RECEPTACLES SHALL BE MOUNTED HORIZONTALLY ON FIXTURES AND WALLS.
- ALL EVAPORATOR MOTOR CONNECTIONS SHALL BE MADE WITH CONDUIT TO A J-BOX. PLUG-IN TYPE CONNECTIONS WILL NOT BE ACCEPTED.
- COLD STORAGE ROOM EVAPORATOR DRAIN LINES (INCLUDING HEAT TAPE FOR FREEZER DRAIN) ARE FURNISHED AND INSTALLED UNDER KITCHEN EQUIPMENT, DIVISION 11. TRAP AT OUTLET END.
- REFRIGERATION, HIGH PRESSURE WASH SYSTEM, AND BEVERAGE LINES SHOWN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED TO FIT BUILDING CONDITIONS.
- UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE ALL DISCONNECTS, INTERLOCKS, AND CONTRACTORS REQUIRED BY LOCAL CODES.
- 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.
- 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.
- UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING WIRING AS REQUIRED BETWEEN BOOSTER HEATER AND DISHWASHER.
- 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.
- UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE POWER TO EXHAUST FAN ON ROOF AND INTERLOCK WITH MAKE-UP AIR SUPPLY UNIT PER MECHANICAL ENG. PLANS. PROVIDE WALL SWITCH WITH PILOT LIGHT # 48" ABOVE FINISHED FLOOR.
- REFRIGERATION BEACON 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 1Ø GA. LOW VOLTAGE WIRING.
- UNDER ELECTRICAL WORK OF DIVISION 26 LOCATE MANUAL FIRE SUPPRESSION FULL STATION PER CODES. PROVIDE OCTAGON BOX AND RUN EMPTY CONDUIT TO FIRE SUPPRESSION CONTROL HEAD. MINIMUM 12" RADIUS BENDS IN ANY CHANGE OF DIRECTION. SET FULL STATION BOX # 48" AFF. TO CENTER LINE.

NOTE:
 REFER TO ARCHITECTURAL PLAN FOR EXACT LOCN. OF CONDENSING UNITS



HOOD INFORMATION - Job#3145855

HOOD NO.	TAG	MODEL	LENGTH	MAX COOKING TEMP.	EXHAUST PLENUM RISERS					HOOD CONSTRUCTION	HOOD CONFG.			
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.		CFM	VEL.	S.P.	END TO END
1	ITEM 27	5412 SND-2	14' 2"	600 Deg.	3542	10'	34'	4'	3542	1500	-0.881'	304 SS	ALDNE	ALDNE

PATENT NUMBERS
Exhaust Hoods ND-2/BD-2/SND-2 (Canada) - CA Patent #2520435 C

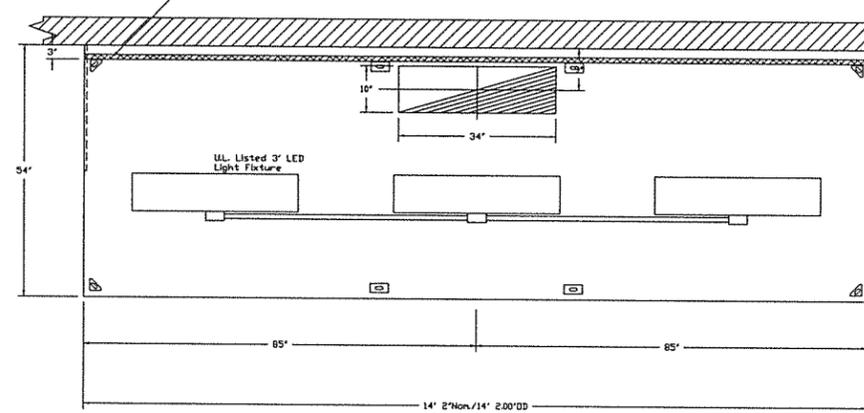
HOOD INFORMATION

HOOD NO.	TAG	TYPE	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WT
			QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL		
1	ITEM 27	Captrate Solo Filter	10	20"	16'	85% See Filter Spec.	3	3' LED Light	NO					YES	652 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1	ITEM 27	FIELD WRAPPER 18.00" High Front, Left, Right INSULATION FOR BACK OF HOOD LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 68" High Insulated 304 SS RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 68" High Insulated 304 SS

1" LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.



PLAN VIEW - Hood #1 (ITEM 27)
14' 2.00" LONG 5412SND-2
NOTE: Additional hanging angles provided for hoods 12' and longer.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

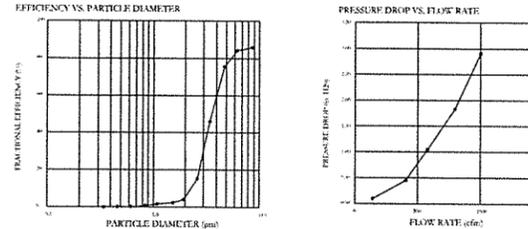
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNELS.

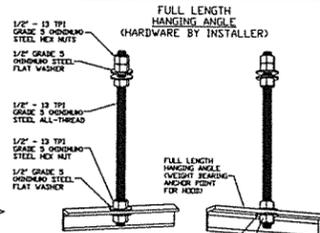
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

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 WAS TESTED TO ASTM STANDARD ASTM F2519-05.

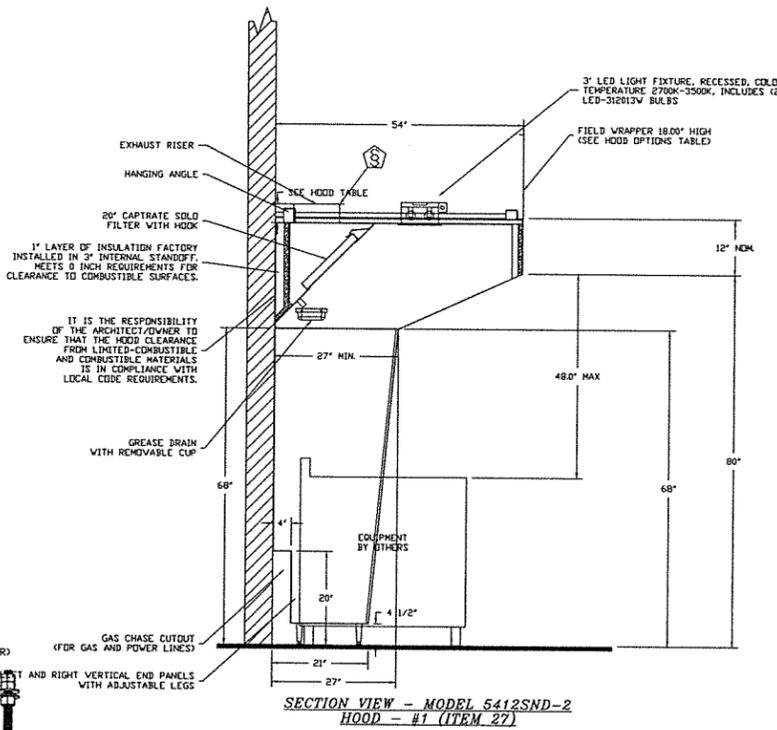


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649

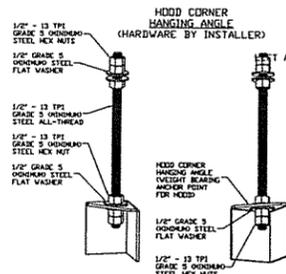


ASSEMBLY INSTRUCTIONS

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 ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



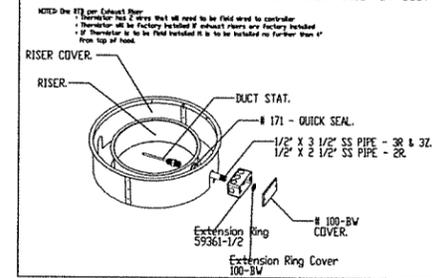
SECTION VIEW - MODEL 5412SND-2 HOOD - #1 (ITEM 27)



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.

THERMISTOR SENSOR INSTALLATION DETAIL - FACTORY BUILT DW DUCT

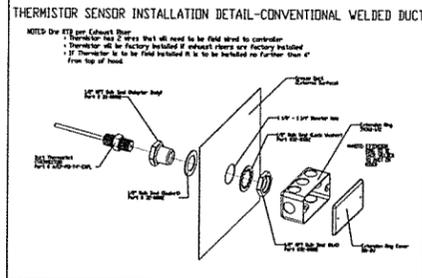


THERMISTOR - (1) PER EXHAUST COLLAR

FIELD INSTALL IN HOOD EXHAUST COLLAR WITHIN 4" OF CONNECTION TO HOOD (HARDWARE PROVIDED).

WIRE TO SC CONTROL BOARD WITH PROVIDED 2 WIRE LOW VOLTAGE CABLE.

THERMISTOR SENSOR INSTALLATION DETAIL - CONVENTIONAL WELDED DUCT



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
Seattle Office
1309 Pacific Ave., Everett, WA 98001 PHONE: (425) 212-5996 FAX: (425) 212-5998 EMAIL: rep@captivair.com

Forest Grove Senior Center R2
2037 Douglas St,
FOREST GROVE, OR, 97116

DATE: 9/13/2017
DWG.#: 3145855
DRAWN BY: JDC-85
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

BCJA
Brian C. Jackson Architect LLC
13545 NW Logie Trail Rd.
Hillsboro, OR 97124 P. 503.310.8707
brian@bcjarchitect.com

HALLIDAY ASSOCIATES
828 NW NORWOOD
CAMAS, WASH. 98607
360 - 834 - 8889
FAX 360 - 834 - 8453
FOOD FACILITY CONSULTANTS
SPACE PLANNING & DESIGN

SENIOR CENTER KITCHEN REHABILITATION
PROJECT - CDBG #8209

FOR: FOREST GROVE SENIOR CENTER
2037 DOUGLAS STREET
FOREST GROVE, OR 97116

ISSUE

Mark	Description	Date

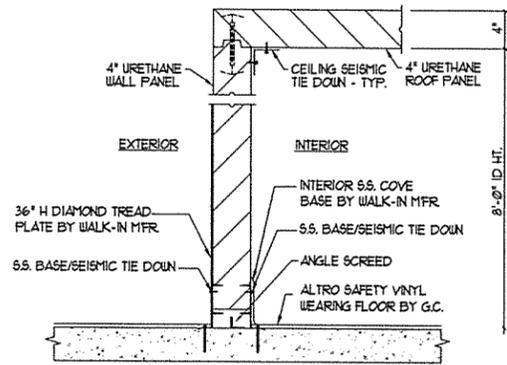
PROJECT NO. 09-27-17
CAD DWG FILE
DRAWN BY LB/SH
CHECKED BY LB
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SHEET TITLE

LEVEL 1 - FOOD SERVICE CANOPY HOOD DETAILS

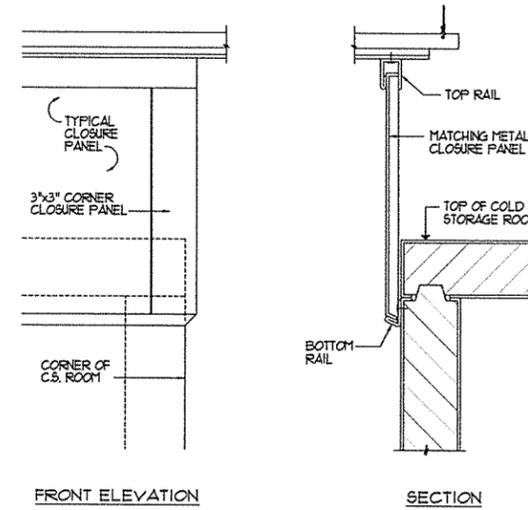
SCALE: NOTED ON DRAWINGS

FS2.1

SHEET



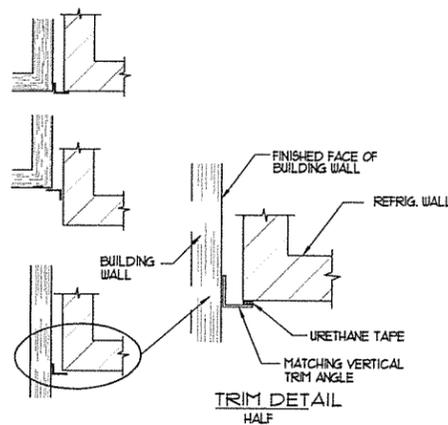
A DOOR/FLOOR SECTION
 NO SCALE



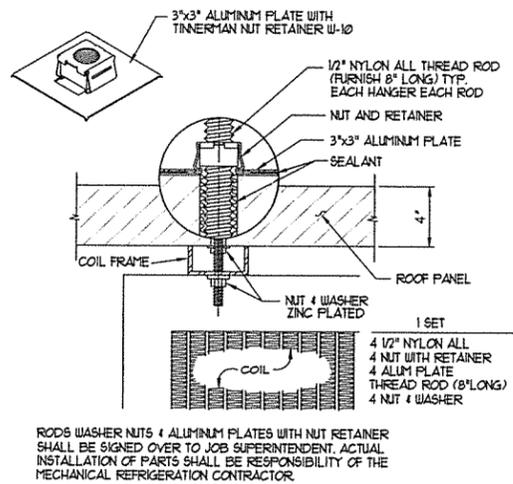
B CLOSURE PANEL DETAILS
 NO SCALE

GENERAL WALK-IN NOTES

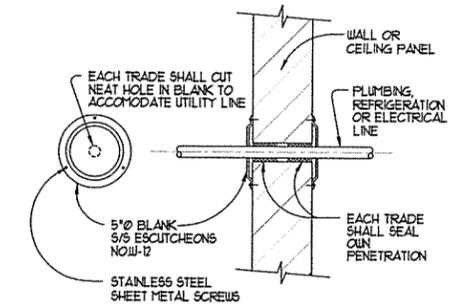
- REFER TO ARCHITECTURAL FINISH SCHEDULE FOR FINISHED FLOOR MATERIAL AT INTERIOR AND EXTERIOR OF WALK-IN COLD STORAGE ROOMS.
- WALL, CEILING, AND DOOR INSULATION SHALL BE AT LEAST R-25 FOR COOLERS AND R-32 FOR FREEZERS. FREEZER FLOOR INSULATION SHALL BE AT LEAST R-28. NOTE: SPECIFIED 4\"/>



C VERTICAL TRIM MOULDING DETAIL
 NO SCALE



D NYLON ROD COIL HANGER DETAIL
 NO SCALE



E TYPICAL ESCUTCHEON DETAIL
 NO SCALE

01 LEVEL 1 - FOOD SERVICE WALK-IN DETAILS
 SCALE: NONE

SENIOR CENTER KITCHEN
 REHABILITATION
 PROJECT - CDBG #8209

FOR:
 FOREST GROVE SENIOR
 CENTER
 2037 DOUGLAS STREET
 FOREST GROVE, OR 97116

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
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CHECKED BY	LB	
SHEET TITLE		

LEVEL 1 - FOOD SERVICE
 WALK-IN DETAILS

SCALE: NOTED ON DRAWINGS

FS3.1

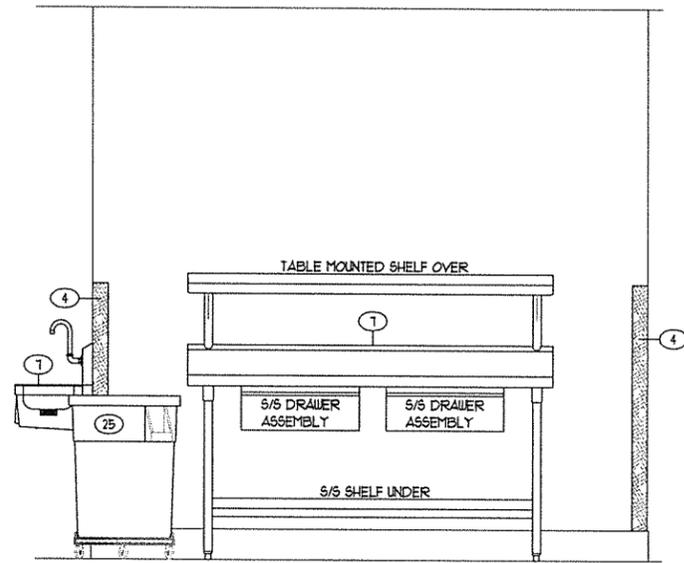
SHEET

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY	LB/SH	
CHECKED BY	LB	
SHEET TITLE		

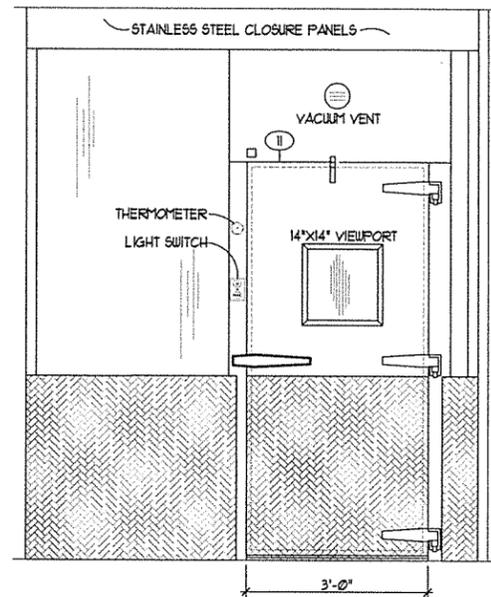
LEVEL 1 - FOOD SERVICE
 ELEVATION &
 FABRICATION DETAILS
 SCALE: NOTED ON DRAWINGS

FS3.2

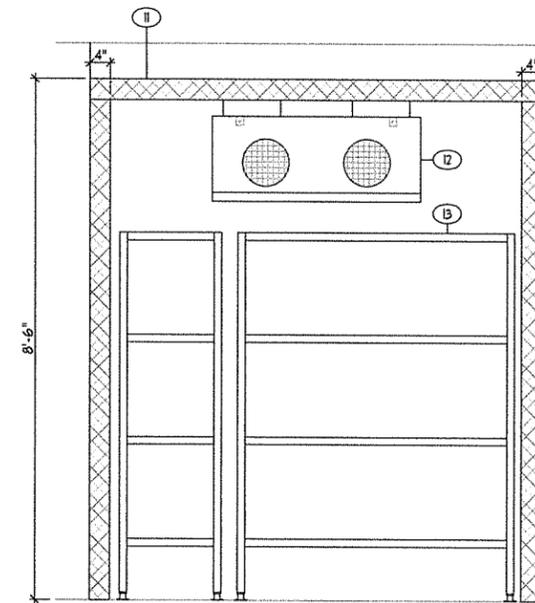
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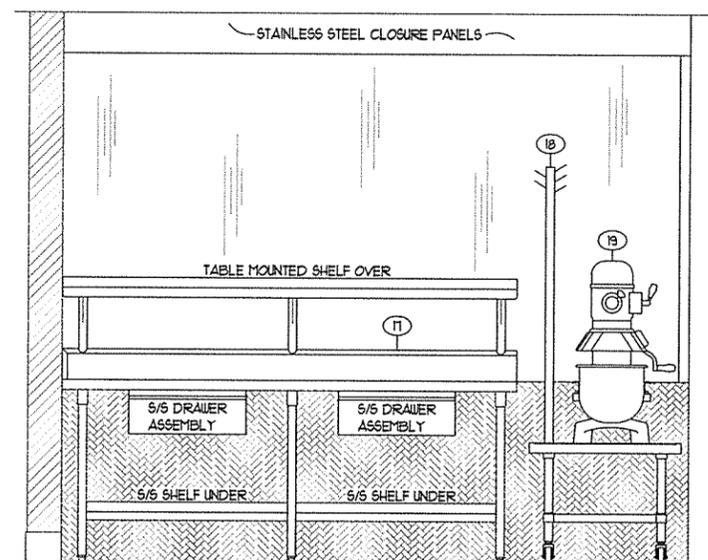
1 ELEVATION WORK TABLE
 3/4"=1'-0"



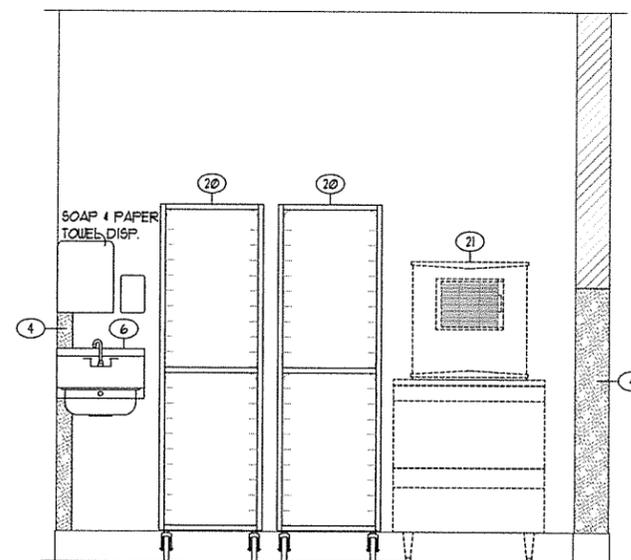
2 ELEVATION WALK-IN COOLER - (EXTERIOR)
 3/4"=1'-0"



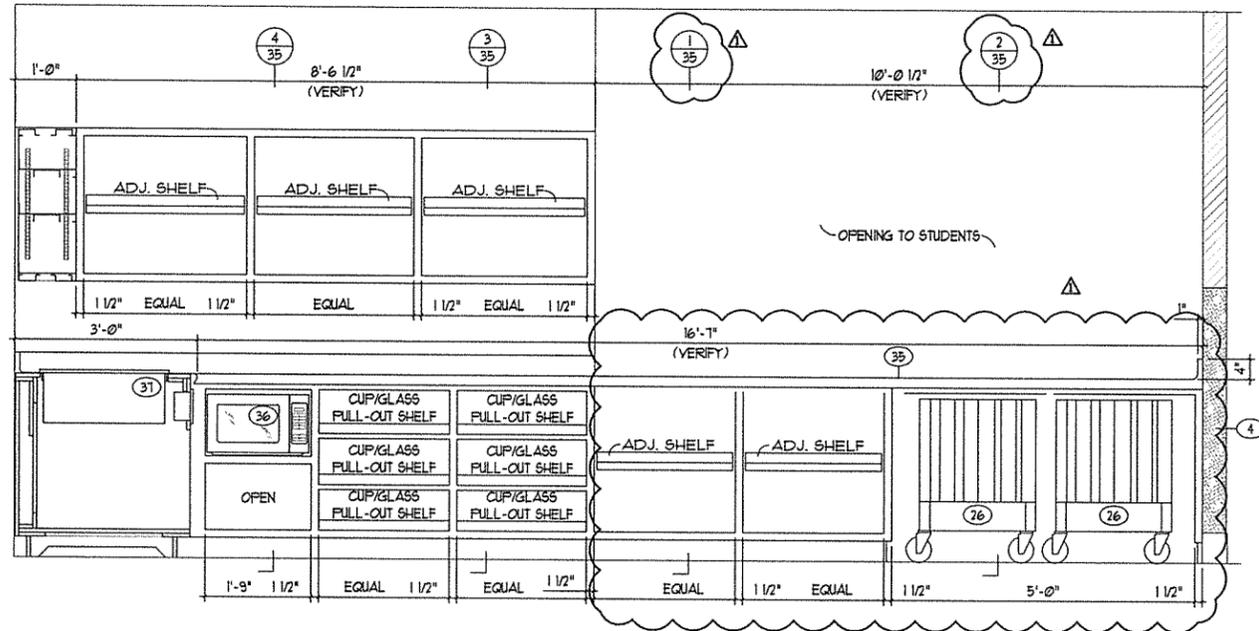
3 ELEVATION WALK-IN COOLER - (INTERIOR)
 3/4"=1'-0"



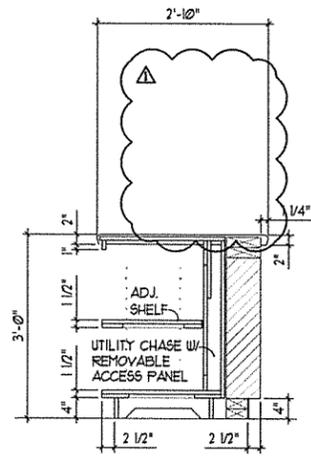
4 ELEVATION SUPPORT TABLE & 20-QUART MIXER
 3/4"=1'-0"



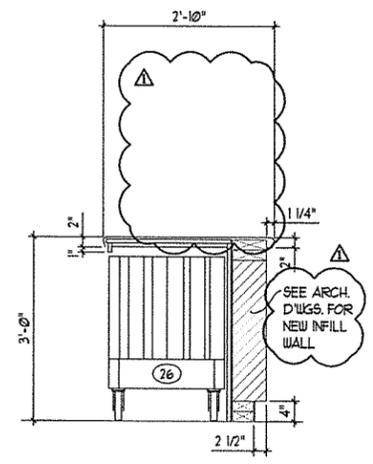
5 ELEVATION HAND SINK, RACKS, & EXISTING ICE MACHINE
 3/4"=1'-0"



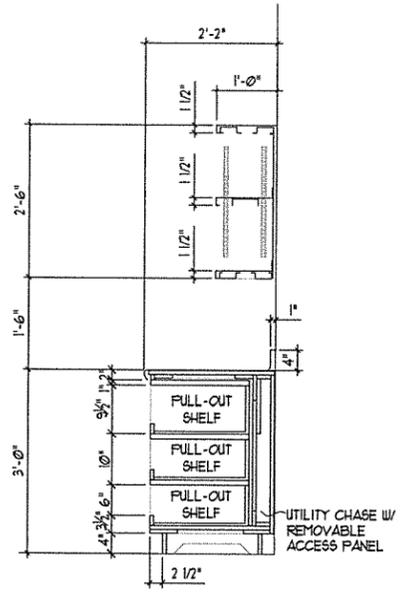
9 ELEVATION SERVING COUNTER
 3/4"=1'-0"



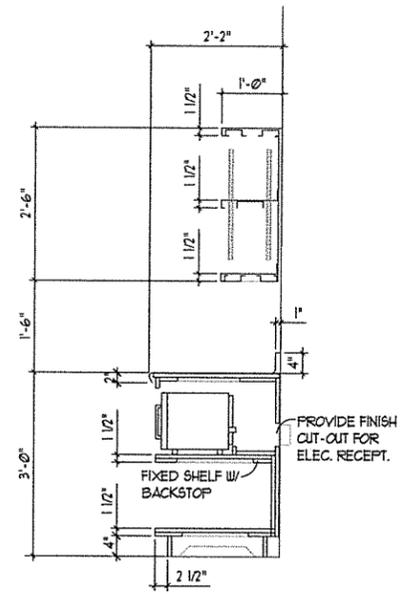
1 SECTION
 3/4"=1'-0"



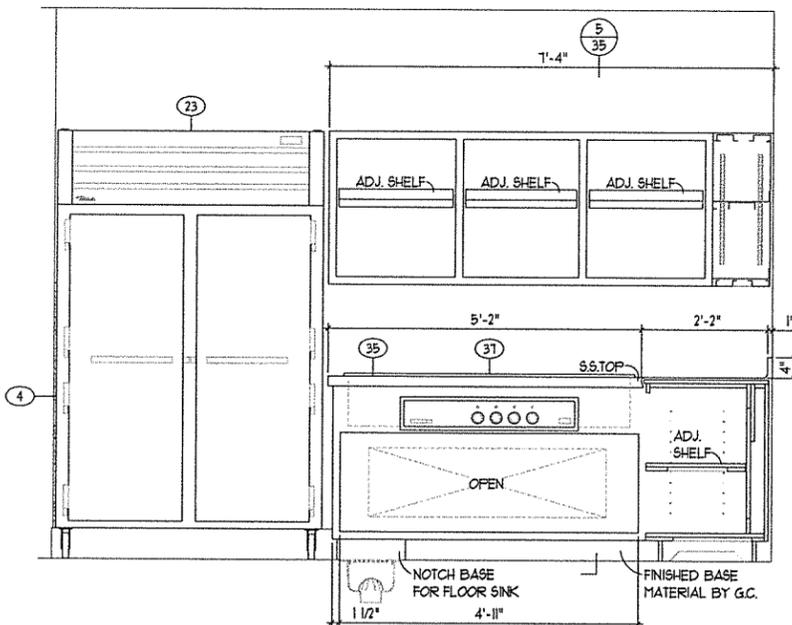
2 SECTION
 3/4"=1'-0"



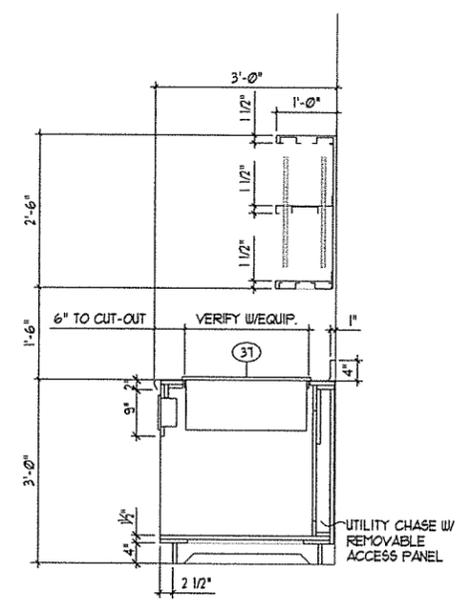
3 SECTION
 3/4"=1'-0"



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



10 ELEVATION SERVING COUNTER
 3/4"=1'-0"



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

Mark	Description	Date
▲	ADDENDUM NO. 1	10/24/17

Mark	Description	Date
DATE	09-27-17	
PROJECT NO.		
CAD DWG FILE		
DRAWN BY	LB/SH	
CHECKED BY	LB	

SHEET TITLE