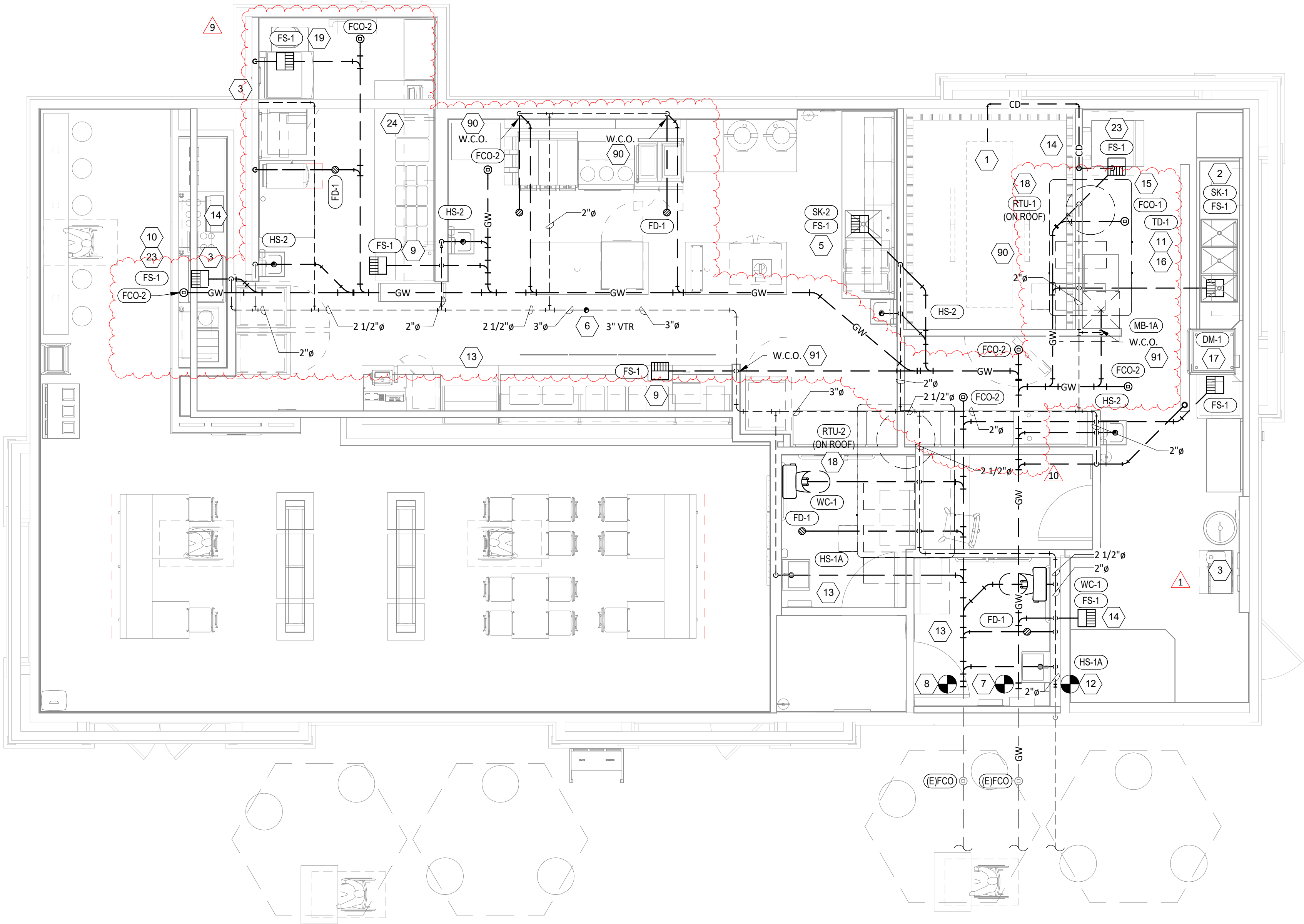


PLUMBING WASTE AND VENT PLAN NOTES

- 1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFF.
- 2 PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.
- 3 COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.
- 4 NOT USED.
- 5 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- 6 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
- 7 CONNECT TO THE EXISTING 4" GREASE WASTE LINE WITH UPSTREAM 1,500 GALLON GRAVITY TYPE GREASE INTERCEPTOR. FIELD-VERIFY EXACT LOCATION.
- 8 CONNECT TO THE EXISTING 4" SANITARY WASTE LINE. FIELD-VERIFY EXACT LOCATION.
- 9 PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
- 10 PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.
- 11 TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.
- 12 EXISTING VENT FROM GREASE INTERCEPTOR. EXTEND AS SHOWN.
- 13 DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.

PLUMBING WASTE AND VENT PLAN NOTES

- 14 PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
- 15 PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
- 16 PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.
- 17 INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK DRAINING TO THE SANITARY SYSTEM. HOLD DRAIN HOSE TIGHT TO WALL AND TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.
- 18 PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700. EXTEND CONDENSATE DRAINS FROM THE RTU TO THE STORM SEWER. FIELD VERIFY EXACT LOCATION.
- 19 PROVIDE PVC DRAIN LINES FROM TEA TRAY AND ICE MAKER TO FLOOR SINK. DRAIN THROUGH AN AIR GAP. COORDINATE PIPE ROUTING WITH EQUIPMENT BELOW COLD-SIDE TABLE.
- 20 NOT USED.
- 21 NOT USED.
- 22 NOT USED.
- 23 PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
- 24 1-1/2" DRAIN FROM THE MAKEUP AIR UNIT EVAPORATIVE COOLER SHALL BE INSTALLED BY THE HOOD SUPPLIER. INSTALL THE SUPPLIER-FURNISHED P-TRAP ON THE PIPING AND EXTEND PIPING TO THE FLOOR SINK AS SHOWN AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 90 PROVIDE A 2" WALL CLEANOUT TO SERVE THE FLOOR DRAIN AS SHOWN. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- 91 PROVIDE A 3" WALL CLEANOUT TO SERVE THE FLOOR DRAIN AS SHOWN. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.



WATER CALCULATIONS

AVAILABLE STATIC PRESSURE AT ENTRANCE TO BUILDING = 60.0 PSI
PRESSURE LOSS THROUGH BFP-1 = 11.0 PSI
RESIDUAL PRESSURE REQUIRED = 35.0 PSI
PRESSURE AVAILABLE FOR PIPE LOSS = 14.0 PSI

PIPE LENGTH = 190 FT
DEVELOPED PIPE LENGTH (L x 1.25) = 240 FT
SAFETY FACTOR (S.F.) = 25%
DEVELOPED LENGTH (WTITH S.F.) = 300 FT
MAX PRESSURE LOSS PER 100' OF PIPE = 4.6 PSI

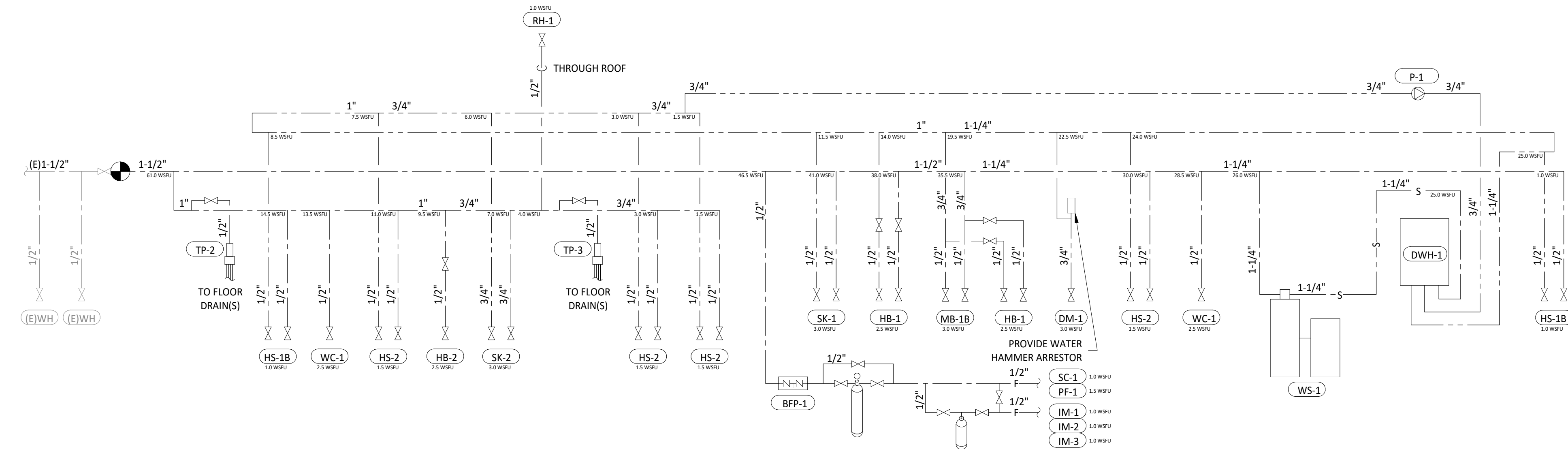
DOMESTIC COLD WATER			
PIPE SIZE	MAX GPM	MAX FU	PD PSI/100'
2"	70	225	4.6
1.5"	34	63	4.6
1.25"	21	32	4.6
1"	12	16	4.6
0.75"	6	7	4.6
0.5"	2	1	4.6

DOMESTIC HOT WATER			
PIPE SIZE	MAX GPM	MAX FU	PD PSI/100'
1.5"	27	46	4.6
1.25"	19	28	4.6
1"	12	16	4.6
0.75"	6	7	4.6
0.5"	2	1	4.6

(GENERATED FROM CPC APPENDIX A, CHARTS A-3 & A-4)

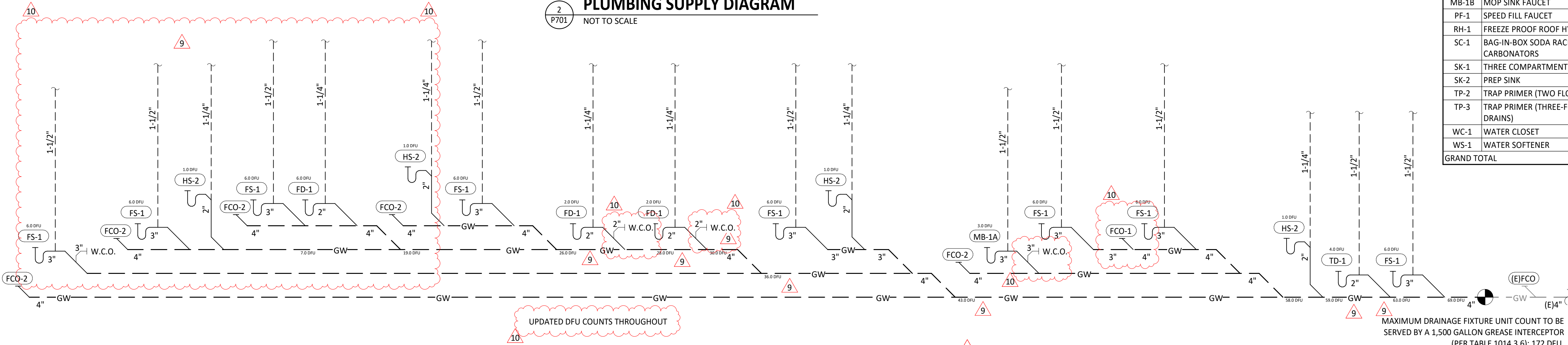
PLUMBING FIXTURE SUPPLY CONNECTIONS

ROUGH-IN TYPE KEY									
ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)								
ANGLE 1/2"	BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)								
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)								
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE								
HOSE 1/2"	ARROWHEAD BRASS WM50F OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)								
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.								
TAG	DESCRIPTION	CONNECTION SIZE		ROUGH-IN TYPE	WSFU			COUNT	TOTAL WSFU
		CW	HW		CW	HW	TOTAL		
(E)JWH	FREEZE PROOF WALL HYDRANT	3/4"		DIRECT	1		1	2	2
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	0	0	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	0"	3/4"	ANGLE 3/4"	0	3	3	1	3
ET-1	EXPANSION TANK	3/4"		DIRECT	0		0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"	MIP	2.5	2.5	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"		MIP	2.5		1.5	1	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1	1	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	4	8
IM-1	ICE MAKER - BOH	1/2"		HOSE 1/2"	1		1	1	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
IM-3	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
MB-1B	MOP SINK FAUCET	1/2"	1/2"	MIP	3	3	3	1	3
PF-1	SPEED FILL FAUCET	3/8"		MIP	1.5		1.5	1	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	1		1	1	1
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	1/2"		ANGLE 3/8"	1		1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	4
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	1/2"		DIRECT	0		0	1	0
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	1/2"		DIRECT	0		0	1	0
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	2.5		2	2	4
WS-1	WATER SOFTENER	1"		DIRECT	0		0	1	0
GRAND TOTAL									46



PLUMBING SUPPLY DIAGRAM

NOT TO SCALE



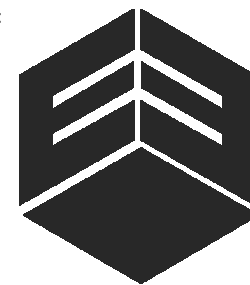
SANITARY WASTE & VENT DIAGRAM

NOT TO SCALE

PLUMBING FIXTURE WASTE CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
(E)FCO	FLOOR CLEANOUT (4")	4"	0	2	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	5/8"	7	1	7
FCO-1	FLOOR CLEANOUT (3")	3"	0	1	0
FCO-2	FLOOR CLEANOUT (4")	4"	0	6	0
FD-1	FLOOR DRAIN	2"	2	5	10
FS-1	FLOOR SINK	3"	6	9	54
HS-1A	RESTROOM HAND SINK	2"	1	2	2
HS-2	KITCHEN HAND SINK	2"	1	4	4
MB-1A	MOP BASIN	3"	3	1	3
SK-1	THREE COMPARTMENT SINK	2"	0	1	0
SK-2	PREP SINK	2"	0	1	0
TD-1	TRENCH DRAIN	2"	4	1	4
WC-1	WATER CLOSET	3"	4	2	8
GRAND TOTAL					92

Consultant:

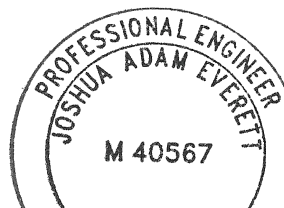


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10/30/2024 PERMIT RESUBMITTAL
11/13/2025 BID SET

Revisions:

1 10/29/2024 ELECTRICAL REVISIONS
9 01/13/2026 DB UPDATES
10 04/24/2026 FIELD REVISIONS

Drawn:

Checked:

BRW

JAE

Project No.

240027

Contents:

PLUMBING DIAGRAMS

P701

VOLTS: 208/120V Wye PHASES: 3 WIRES: 4 MOUNTING: EXISTING ENCLOSURE: EXISTING															PANEL: MSB MAINS: MCB AMPERAGE: 800.0 A MCB RATING: 800.0 A				
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #			
1							0.00	6.97								2			
3	TVSS (4-#6, #10 G. in 1" C.)	60	3	NB	0.0	-		0.00	6.97		F	67.0	NB	2	DWH-1 (3-#3, #8 G. in 1" C.)	4			
5									0.00	--	--	--	1	--	SPACE	6			
7							13.09	26.80								8			
9	AIR CONDITIONER - KITCHEN (RTU-1) (3-#2, #6 G. in 1-1/4" C.)	110	3	NB HACR	109.0	C		13.09	30.90		Sparr: G; A; B; D; F; E	243.7	EB	3	400 (PANEL A) (SEE RISER)	10			
11									13.09	30.09						12			
13							15.01	22.22								14			
15	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#1, #6 G. in 1-1/4" C.)	125	3	NB HACR	125.0	C		15.01	22.22		F	185.0	EB	3	200 (PANEL B) (WITH SHUNT TRIP) (SEE RISER)	16			
17									15.01	22.22						18			
PHASE TOTAL [kVA]:							84.09 kVA	88.18 kVA	80.40 kVA										
PHASE TOTAL [AMPS]:							705.4 A	739.6 A	670.0 A										
TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR				ESTIMATED DEMAND	PANEL TOTALS											
A	INTERIOR LIGHTING	1.49 kVA	125.00%				1.86 kVA	TOTAL CONNECTED kVA: 252.67 kVA											
B	EXTERIOR LIGHTING	2.99 kVA	125.00%				3.73 kVA	TOTAL CONNECTED AMPS: 701.3 A											
C	COMFORT COOLING	84.30 kVA	100.00%				84.30 kVA	TOTAL ESTIMATED kVA: 201.92 kVA											
D	COMFORT HEATING	4.20 kVA	100.00%				4.20 kVA	TOTAL ESTIMATED AMPS: 560.5 A											
E	MISC. MOTOR	3.74 kVA	100.00%				3.74 kVA												
F	KITCHEN EQUIPMENT	148.19 kVA	65.00%				96.32 kVA												
G	RECEPTACLES	7.77 kVA	100.00%				7.77 kVA												

NOTES:
EB: EXISTING BREAKER
NB: NEW BREAKER, PROVIDED BY GENERAL CONTRACTOR
HACR: HACR STYLE CIRCUIT BREAKER

VOLTS: 208/120V Wye															PANEL: A		
PHASES: 3															MAINS: MCB		
WIRES: 4															AMPERAGE: 400.0 A		
MOUNTING: RECESSED															MCB RATING: 400.0 A		
ENCLOSURE: TYPE 1																	
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #	
1							1.13	0.00								2	
3	CU-1 (3-#10, #10 G. IN 3/4" C.)	15	3		9.4	F		1.13	0.00		G	0.0		3	20	GRIDPOINT 3 PHASE METER (4-#12, #12 G. IN 3/4" C.)	4
5									1.13	0.00						6	
7	UNDERCOUNTER COOLER (PUW)	20	1	GFCI	1.5	F	0.18	0.13							15	ICE MAKER Máquina para hacer hielo (2-#10, #10G. IN 3/4" C.)	8
9	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F		1.06	0.13		F	1.3	GFCI	2		10	
11	COLD TOP (SERVE LINE) Tabla fría (línea de servicio)	20	1		12.0	F			1.44	0.18	G	1.5		1	20	GRIDPOINT TRANSFORMER	12
13	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		12.0	G	1.44	1.02			F	8.5	GFCI	1	20	BUBBLER	14
15	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.18	0.18		F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	16
17	PANEL BDP	20	1		18.0	G			2.16	1.04						18	
19	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.3	G; E	0.39	1.04			F	10.0		2	20	CARVING STATION (2-#10, #10 N, #10 G. IN 3/4" C.) Estación para cortar carnes	20
21	SPARE	20	1	--	--			0.00	2.08							22	
23	SECURITY/AUDIO Seguridad y audio	20	1		3.0	G			0.36	2.08	F	20.0		2	30	HOT FOOD SERVER (SERVE LINE) (2-#10, #10 N, #10 G. IN 3/4" C.) Servidor de alimentos	24
25	SPARE	20	1	--	--		0.00	0.18			F	1.5	GFCI	1	20	WATER SOFTENER	26
27	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFCI	9.0	G		1.08	0.53		E	4.4		1	15	RESTROOM FAN (EF-2)	28
29	RECEPTACLES - DML Receptáculos - Fax	20	1	GFCI	6.0	G			0.72	0.10	B	0.8		1	20	SITE LIGHTING	30
31	RECEPTACLES - RESTROOMS Receptáculos - Baños	20	1		3.0	G	0.36	1.09			A	9.1		1	20	LIGHTING - KITCHEN Iluminación - Cocina	32
33	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E		0.02	1.20		B	10.0		1	20	SIGN LIGHTING Iluminación para letreros	34
35	HD-1 (CONTROL AND LIGHTS) (control y luces)	15	1		1.5	E			0.18	0.18	F	1.5	GFCI	1	20	FOOD PREP TABLE APVT	36
37	VEHICLE DETECTOR	20	1		0.3	G	0.03	0.39			B	3.2		1	20	LIGHTING - EXTERIOR Iluminación - Exterior	38
39	TORTILLA PRESS (SERVE LINE) (2-#10, #10 N, #10 G. IN 3/4" C.) Calentador de tortillas	20	2	GFCI	13.0	F		1.35	0.10		B	0.8		1	20	SITE SIGNAGE	40
41									1.35	0.00	A; B	0.0		1	20	LIGHTING CONTROL PANEL	42
43	LIGHTING - DINING ROOM Iluminación - Comedor	20	1		3.3	A	0.40	0.18			G	1.5		1	20	PICK-UP WINDOW	44
45	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	20	1		11.3	F		1.36	2.10							46	
47	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F			0.18	2.10						48	
49	SIGN LIGHTING Iluminación para letreros	20	1		10.0	B	1.20	1.35								50	
51	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.8	F		1.30	1.35							52	
53	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	15	1		1.5	F			0.18	2.08						54	
55	REFRIGERATOR (COOK LINE) Refrigerador (línea para cocinar)	20	1		2.6	F	0.31	2.08			F	20.0	GFCI	2	30	HOT FOOD SERVER (DML) (2-#10, #10 N, #10 G. IN 3/4" C.) Servidor de alimentos calientes (línea de fax)	56
57	UPRIGHT REFRIGERATOR Refrigerador vertical	20	1	GFCI	10.0	F		1.20	2.91							58	
59	FOODWARMER (DML) Calentador de alimentos (línea de fax)	20	1	GFCI	11.7	F			1.40	2.91	F	28.0	GFCI	2	30	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	60
61	COLD TOP (DML) Tabla fría (línea de fax)	20	1	GFCI	10.0	F	1.20	2.60								62	
63	ICE MAKER (PUW) Máquina para hacer hielo	20	1	GFCI	3.4	F		0.41	2.60		F	25.0		2	30	DISH MACHINE (2-#10, #10 G. IN 3/4" C.) Lavavajillas	64
65	SODA SYSTEM DISPENSER (PUW)	20	1	GFCI	9.2	F			1.10	2.91						66	
67	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	20	1	GFCI	9.3	F	1.12	2.91			F	28.0	GFCI	2	30	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	68
69	FUTURE ELECTRIC RICE COOKER (2-#10, #10 G. IN 3/4" C.)	50	2	GFCI	22.0	F		2.29	0.18		F	1.5		1	20	WIC - EVAPORATOR	70
71									2.29	0.02	F	0.2		1	20	WIC - DOOR SECTION	72
73	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	20	1	GFCI	12.0	F	1.44	1.36			F	11.3		1	20	FOOD PREP TABLE Mesa para la preparación de alimentos	74
75	RICE COOKER (2-#10, #10 G. IN 3/4" C.)	30	2	GFCI	22.0	F		2.29	0.60		F	5.0	GFCI	1	20	REACH-IN REFRIGERATOR Cuanto frigorífico	76
77									2.29	0.72	G	6.0		1	20	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	78
79	RICE COOKER (2-#10, #10 G. IN 3/4" C.)	30	2	GFCI	22.0	F	2.29	0.99								80	
81								2.29	0.99		E	8.3		3	20	HOOD EXHAUST FAN (EF-1) 3-#12, #12G. IN 3/4" C.)	82
83	P-1	20	1		0.0	F			0.01	0.99						84	
PHASE TOTAL [kVA]:							26.80 kVA	30.90 kVA	30.09 kVA								
PHASE TOTAL [AMPS]:							223.4 A	261.7 A	254.9 A								

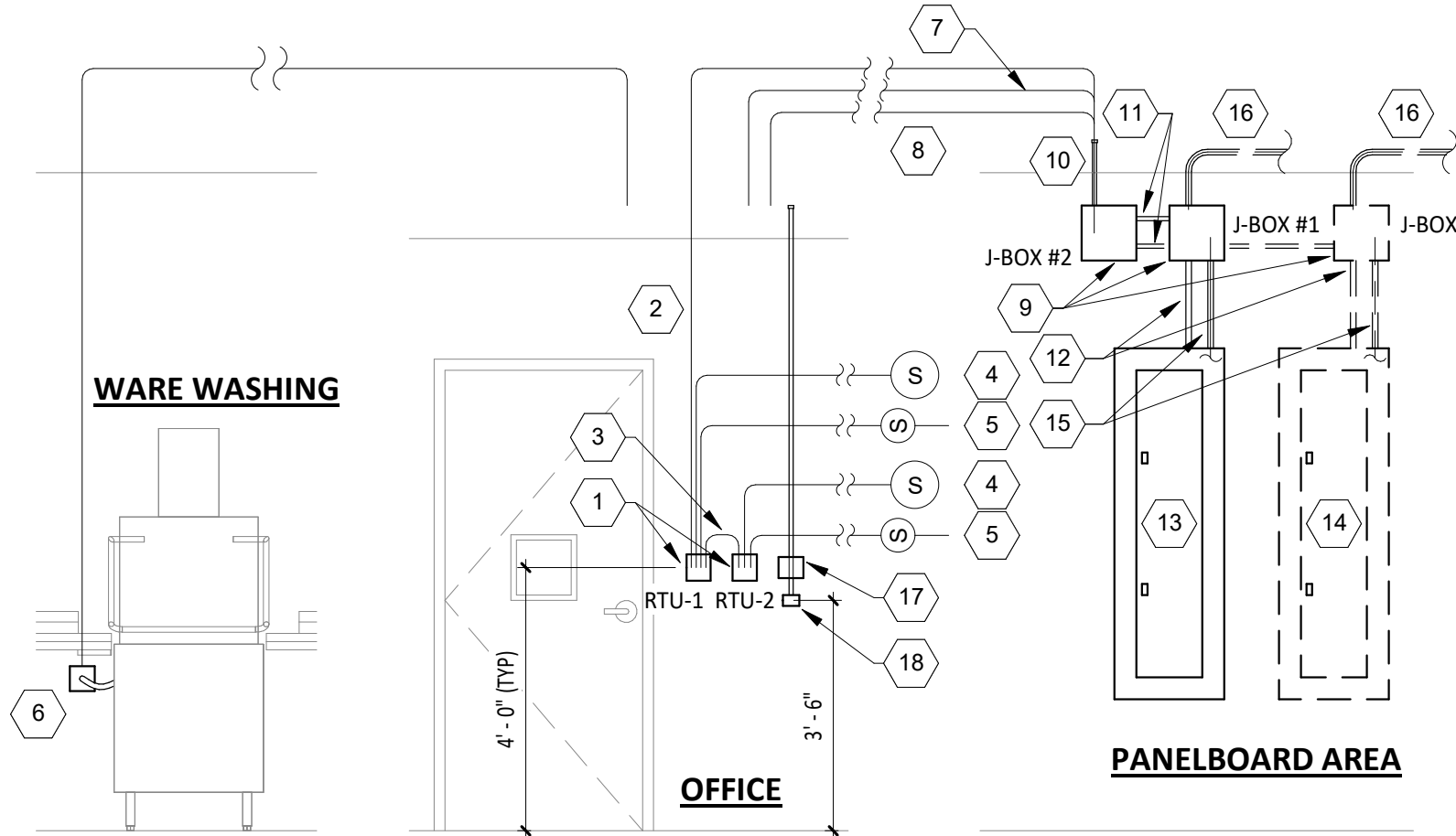
VOLTS: 208/120V Wye PHASES: 3 WIRES: 4 MOUNTING: RECESSED ENCLOSURE: TYPE 1										PANEL: B MAINS: MCB AMPERAGE: 400.0 A MCB RATING: 400.0 A							
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #	
1							3.96	4.68								2	
3	RANGE (3-#8, #10 G. in 1" C.)	50	3	GFCI (SHOCK BLOCK)	33.0	F		3.96	4.68		F	39.0	GFCI (SHOCK BLOCK)	3	50	FRYER (3-#8, #10 G. in 1" C.)	4
5									3.96	4.68						6	
7							4.44	4.68								8	
9	DUAL-SIDED PLANCHA (1 OF 2) (3-#8, #10 G. in 3/4" C.)	50	3	GFCI (SHOCK BLOCK)	37.0	F		4.44	4.68		F	39.0	GFCI (SHOCK BLOCK)	3	50	FRYER (3-#8, #10 G. in 1" C.)	10
11									4.44	4.68						12	
13							4.44	--			--	--	1	--	SPACE	14	
15	DUAL-SIDED PLANCHA (2 OF 2) (3-#8, #10 G. in 3/4" C.)	50	3	GFCI (SHOCK BLOCK)	37.0	F		4.44	--		--	--	1	--	SPACE	16	
17									4.44	--	--	--	1	--	SPACE	18	
19	SPACE	--	1		--	--	--	--			--	--	1	--	SPACE	20	
21	SPACE	--	1		--	--	--	--			--	--	1	--	SPACE	22	
23	SPACE	--	1		--	--			--	--	--	--	1	--	SPACE	24	
25	SPACE	--	1		--	--	--	--			--	--	1	--	SPACE	26	
27	SPACE	--	1		--	--		--	--		--	--	1	--	SPACE	28	
29	SPACE	--	1		--	--			--	--	--	--	1	--	SPACE	30	
PHASE TOTAL [kVA]:							22.22 kVA	22.22 kVA	22.22 kVA								

GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CATSE CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CATSE CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CATSE CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10" SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CATS CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10" OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10" OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE: (1) SET OF (14) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE: (1) SET OF (12) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF (12) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

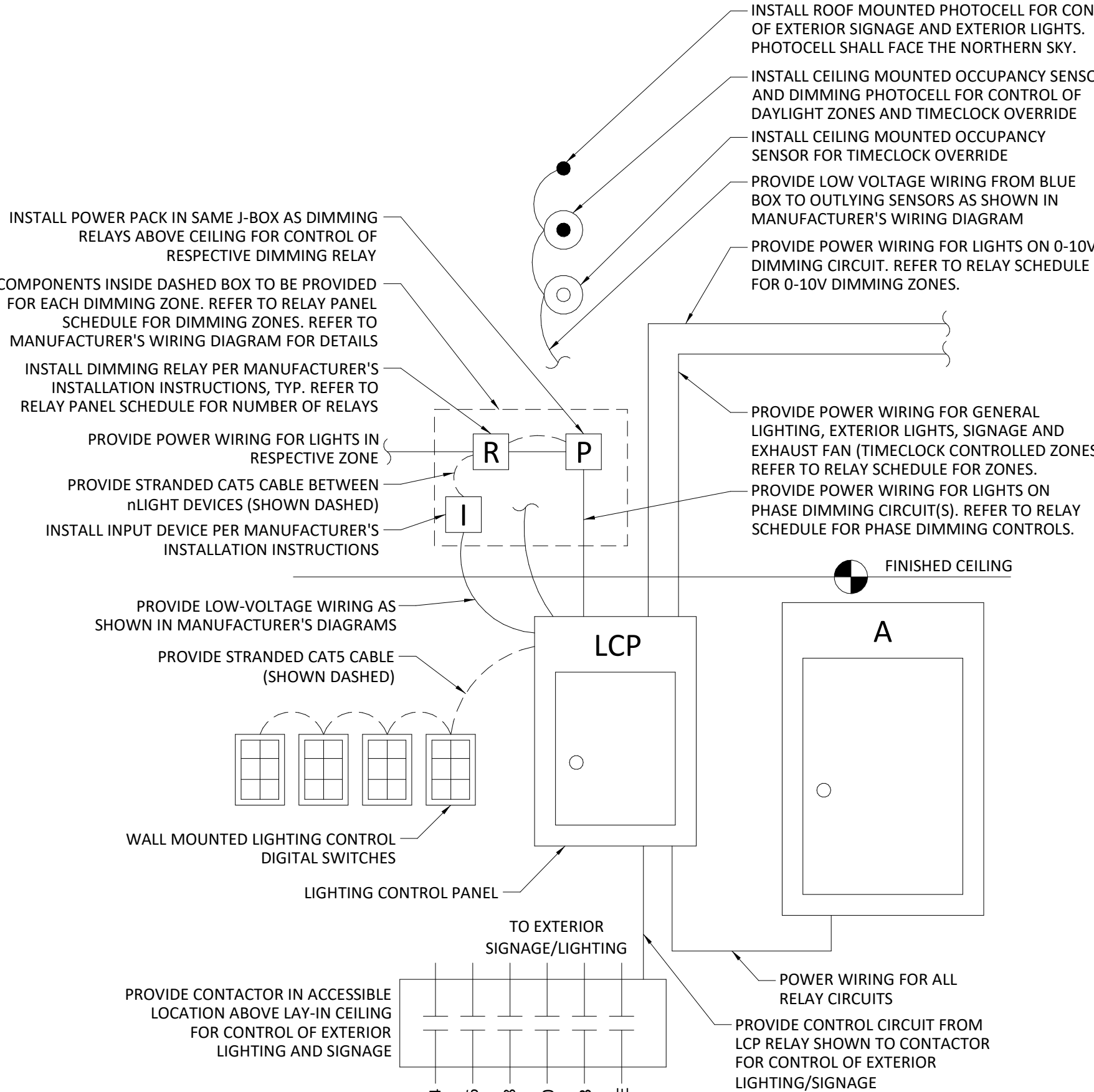
NOTE:

ARRANGEMENT SHOWN IS
DIAGRAMMATIC - SEE PLANS FOR ACTUAL
DEVICE LOCATIONS.



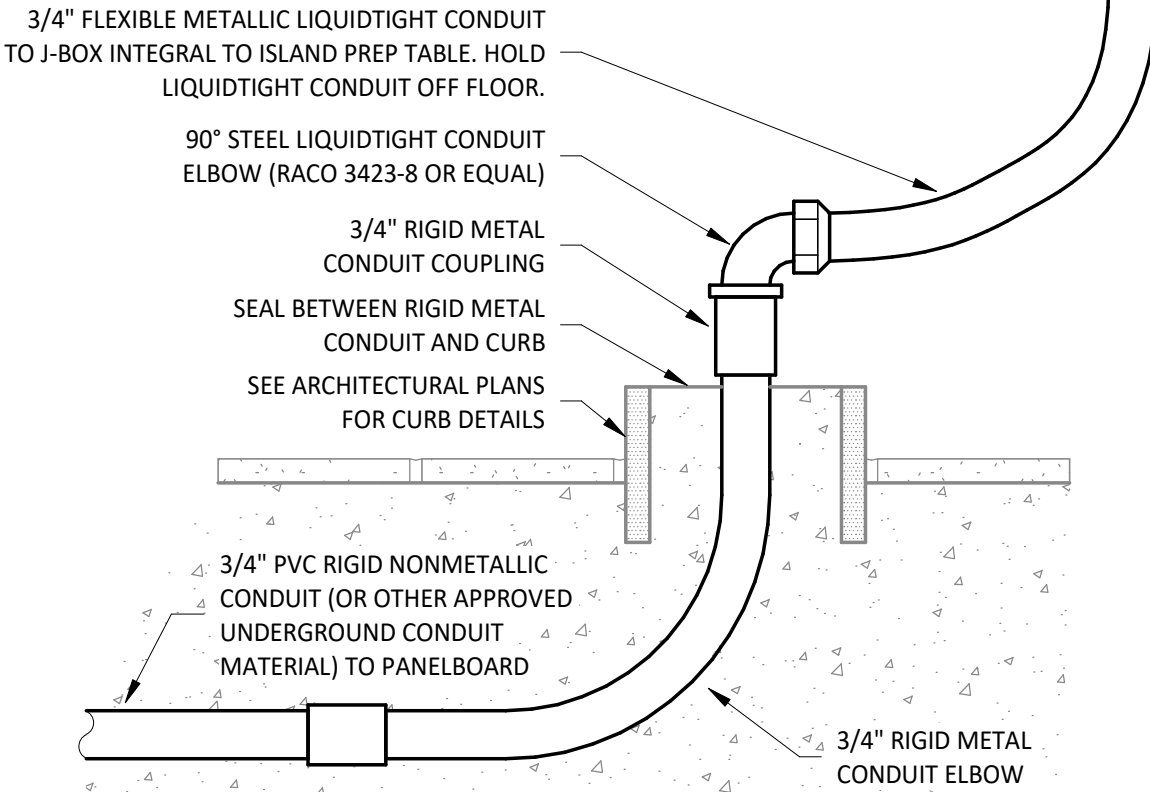
GRIDPOINT WIRING DIAGRAM

8
E710
NOT TO SCALE



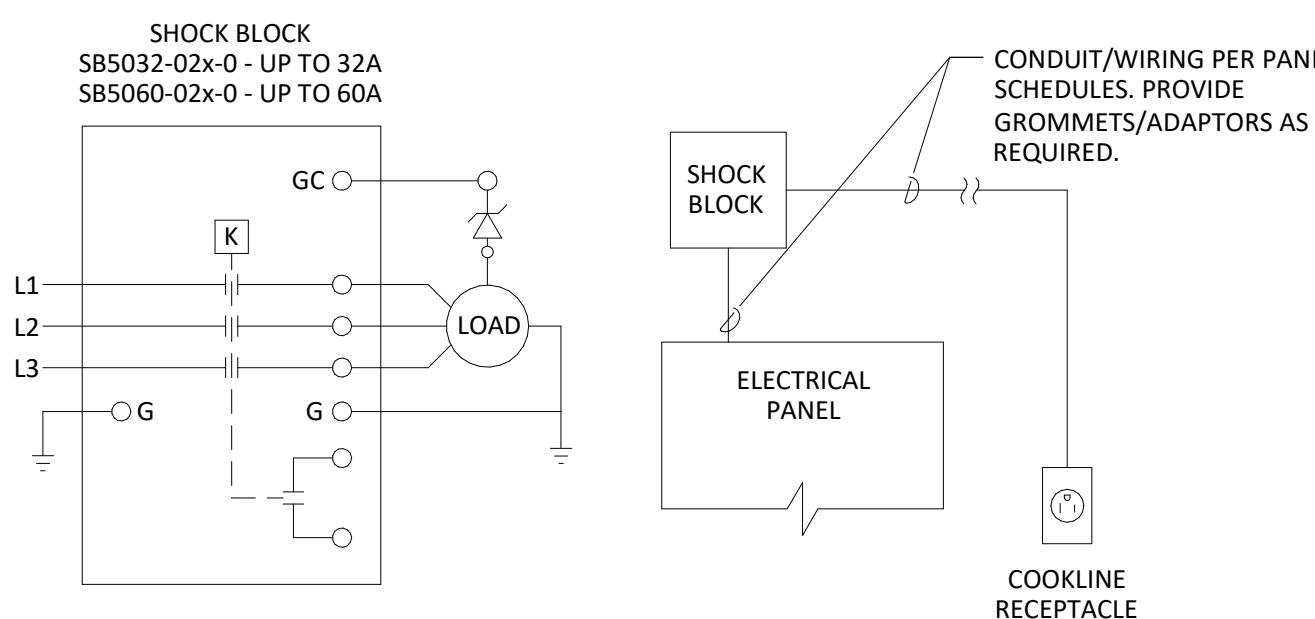
LIGHTING CONTROL DIAGRAM

6
E710
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PEDESTAL OUTLET DETAIL

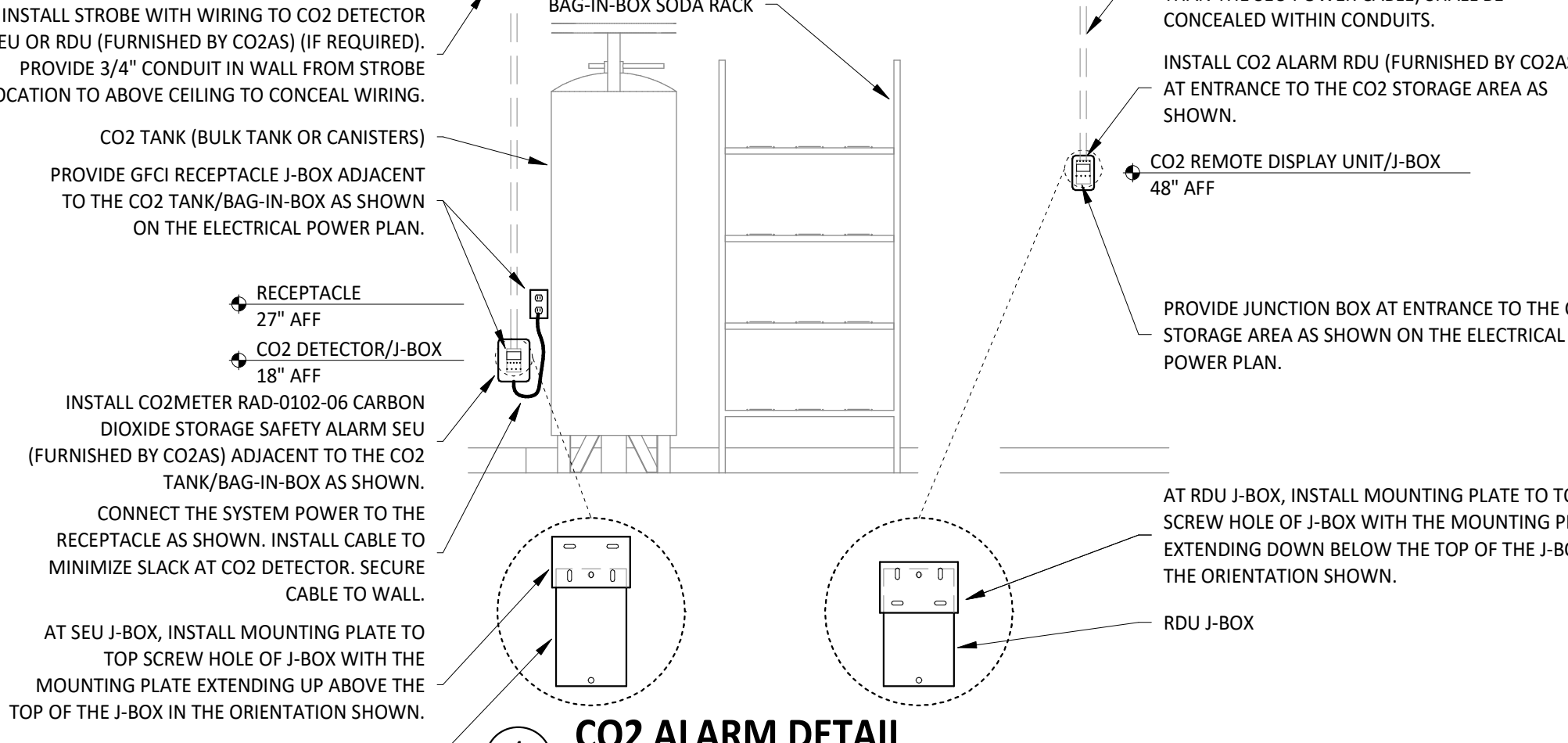
2
E710
NOT TO SCALE



SHOCK-BLOCK-DETAIL

9
E710
NOT TO SCALE

CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	



CO2 ALARM DETAIL

4
E710
NOT TO SCALE

FAULT CURRENT CALCULATIONS

POINT	VOLTS	PHASES	CONDUCTOR PROPERTIES					I VALUE	M VALUE	AVAILABLE FAULT CURRENT (A)
			LENGTH (FT)	# OF SETS	SIZE	CONDUIT	C VALUE			
A			750 kVA TRANSFORMER: Z=1.07%, %Z TOLERANCE=-10%, INFINITE PRIMARY							66091
B	208	3	120	2	#600	STEEL	22965	1.438	0.410	27110
C	208	3	38	1	#500	STEEL	22185	0.387	0.721	19551
D	208	3	38	1	#500	STEEL	22185	0.387	0.721	19551

RISER DIAGRAM NOTES:

1. COORDINATE ALL WORK WITH THE TENANT, LANDLORD AND THE UTILITY AS REQUIRED.
2. FIELD-VERIFY ALL CONDITIONS PRIOR TO START OF WORK. REPORT ANY DISCREPANCIES TO THE AOR/EOB AS REQUIRED.
3. FIELD-VERIFY THE AVAILABLE FAULT CURRENT AT EACH PANELBOARD AT THE START OF WORK. REPORT VALUE TO THE ENGINEER OF RECORD.
4. PROPER CLEARANCES SHALL BE MAINTAINED ABOUT THE ELECTRICAL EQUIPMENT AS REQUIRED PER THE ELECTRICAL CODE AND PER THE AUTHORITY HAVING JURISDICTION. FIELD-VERIFY EXACT MOUNTING LOCATION OF ALL NEW AND/OR RELOCATED EQUIPMENT.
5. PROVIDE ALL CONNECTIONS, EQUIPMENT AND LABOR FOR A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
6. INSTALL DISCONNECTS AND SWITCHES ON PLYWOOD BACKBOARDS.
7. POST AVAILABLE FAULT CURRENT ON ALL MODIFIED OR NEW PANELBOARDS AS PER SECTION 110.24 OF THE ELECTRICAL CODE.

EXISTING PAD-MOUNTED
TRANSFORMER WITH 208Y/120V,
3Ø SECONDARY

EXISTING UTILITY PROVIDED
ELECTRODE SYSTEM

(E)MSB
120/208 VOLT
3 PHASE

800/600/3

400/400/3

400/400/3

400/400/3

400/400/3

400/400/3

400/400/3

KEEP CONDUCTOR
LENGTH AS SHORT
AS POSSIBLE.

400 AMP
120/208 VOLT
3 PHASE

400 AMP
120/208 VOLT
3 PHASE

400 AMP
120/208 VOLT
3 PHASE

400 AMP
120/208 VOLT
3 PHASE

400 AMP
120/208 VOLT
3 PHASE

400 AMP
120/208 VOLT
3 PHASE

400 AMP
120/208 VOLT
3 PHASE

MAIN DISTRIBUTION DIAGRAM

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E710
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