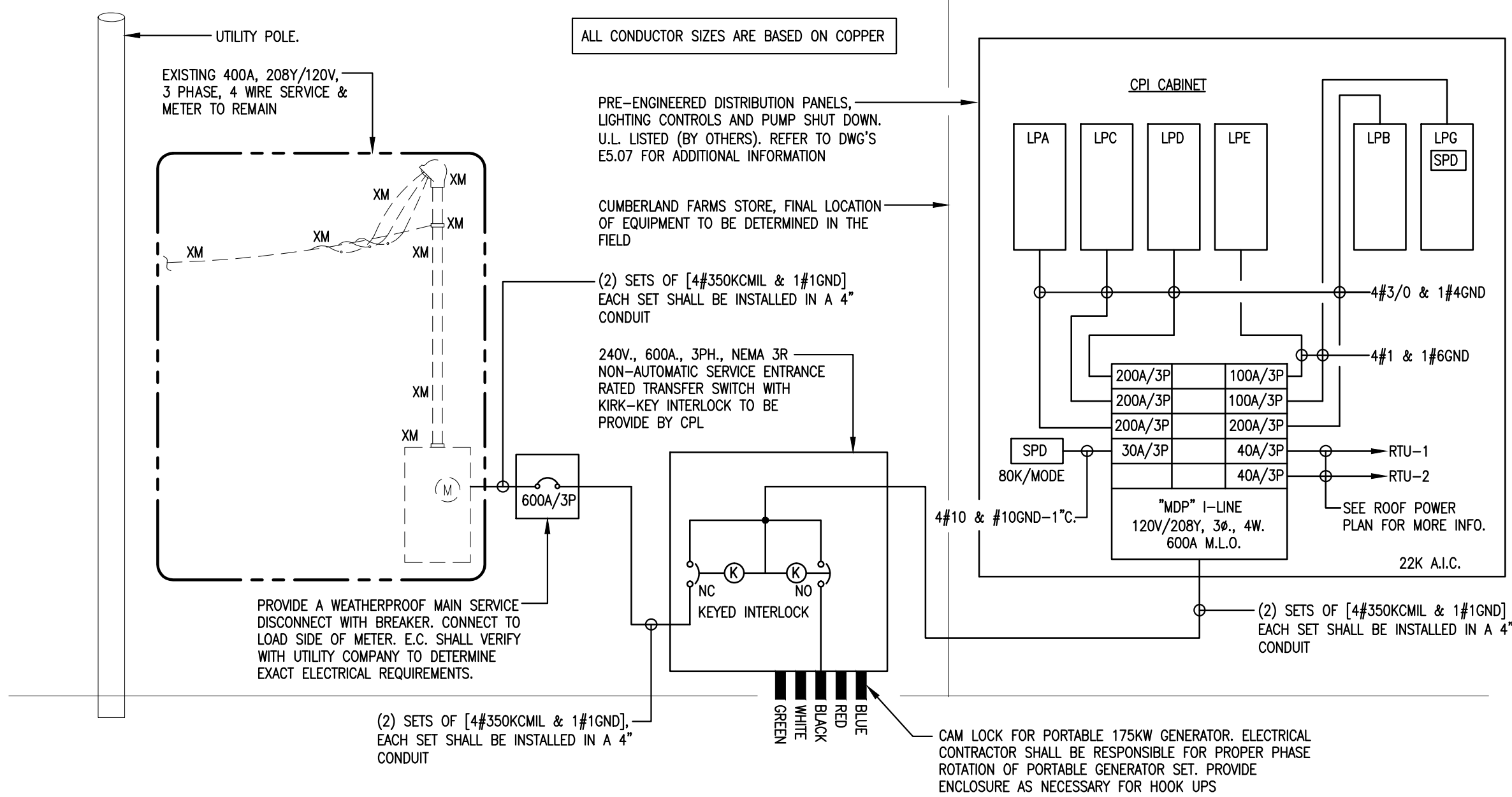


ELECTRICAL-ONE-LINE POWER DEMOLITION RISER DIAGRAM
SCALE: N.T.S.



ELECTRICAL- ONE-LINE POWER RISER DIAGRAM - 600AMP SERVICE
SCALE: N.T.S.

DISTRIBUTION PANELBOARD SCHEDULE "MDP"						
120/208 VOLTS 3PHASE 4 WIRE AND GROUND					30,000 AIC	
MAIN DEVICE: 600 AMPS M.L.O.		NEUTRAL: 600 AMPS		MOUNTING: SURFACE		
				GROUND BUS: YES		
CIRCUIT No.	DESCRIPTION	LOAD KVA	OVERCURRENT DEVICE			REMARKS
			FRAME	TRIP	POLE	
1	PANEL LPA	57.41	200	200	3	
2	PANEL LPB	44.63	200	200	3	
3	PANEL LPC	56.88	200	200	3	
4	PANEL LPD	70.88	200	200	3	
5	PANEL LPG	24.23	100	100	3	
6	RTU-1	11.66	100	40	3	
7	RTU-2	11.66	100	40	3	
8	TVSS		100	30	3	
9	PANEL LPE	11.70	100	100	3	
10	SPACE AND HARDWARE		100			
11	SPACE AND HARDWARE		100			
12	SPACE AND HARDWARE		100			
13	SPACE AND HARDWARE		100			
14	SPACE AND HARDWARE		100			
15						
16						
17						
18						
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28						

- NOTES:
- PROVIDE SWITCHBOARD/PANELBOARDS WITH AN ENGRAVED NAMEPLATE ON THE FRONT INDICATING THE DESIGNATION, VOLTAGE, RATING OF MCB OR MAIN LUIS AND SOURCE OF SUPPLY. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS.
 - SWITCHBOARD: THE LOAD OF EACH BREAKER SHALL BE IDENTIFIED WITH AN ENGRAVED NAMEPLATE NEXT TO THE BREAKER.
 - PANELBOARDS SHALL BE PROVIDED WITH A TYPED (HAND WRITTEN IS NOT ALLOWED) CIRCUIT DIRECTORY INDICATING THE LOAD FED BY EACH CIRCUIT BREAKER AND ITS LOCATION IN THE BUILDING.
 - ALL PANELBOARDS SHALL BE PROVIDED WITH FULL SIZE EQUIPMENT GROUND AND NEUTRAL BUSES ON EACH SIDE OF THE ENCLOSURE SO AS TO PROVIDE A SEPARATE EQUIPMENT GROUND AND NEUTRAL TERMINAL FOR EACH BRANCH CIRCUIT.
 - SPACES SHALL BE PROVIDED WITH ALL REQUIRED BISSING, SUPPORTS, CONNECTORS, ETC. NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS.
 - SERIES RATED PANELBOARDS AND ALUMINUM BISSING IS NOT ALLOWED.
 - ALL CONDUCTORS INDICATED ARE BASED ON COPPER.
 - REFER TO THE SPECIFICATIONS FOR ALL OTHER SWITCHBOARD & PANELBOARD REQUIREMENTS.

PANEL 'LPA', 200 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE AND GROUND												
INTERRUPTING CAPACITY: 10,000 AMPS RMS SYM												MAIN: 200 AMPS M.L.O.
DESCRIPTION	LOAD (KVA)			CKT. BRKR.	NO.	Φ	NO.	CKT. BRKR.	LOAD (KVA)			DESCRIPTION
	#A	#B	#C						#A	#B	#C	
INSTANT HOT WATER DISPENSER (GFI BREAKER)	1.3			20/1	1	A	2	20/1	0.5			ELECTRICAL SAFE
ICED COFFEE BREWER (GFI BREAKER)	1.7			20/1	3	B	4	20/1		0.5		REFRIGERATED WORK TABLE
ICED COFFEE BREWER (GFI BREAKER)		1.7		20/1	5	C	6	20/1			0.75	HEATED CONDIMENT TABLE
MILK&CREAM & SHOT DISPENSER (GFI BREAKER)	0.48			20/1	7	A	8	20/1	0.36			CHECK OUT RECEPTACLES
BATHROOM GFI RECEPTACLES		1.5		20/1	9	B	10	20/1		0.5		DIGITAL MENU BOARDS
F/A SURGE PROTECTION		1.5		20/1	11	C	12	20/1			0.61	CONDIMENT BAR
PREP BAR RECEPTACLES	1.5			20/1	13	A	14	20/1	0.5			CHILL ZONE AIR COMPRESSOR
SINGLE SOFT HEAT		2.0		30/2	15	B	16	20/1		0.36		ICE / BEVERAGE DISPENSER
DUAL SOFT HEAT		2.5		40/2	17	C	18	20/1		1.62		WINDOW RECEPTACLES
DUAL SOFT HEAT		2.5		40/2	19	A	20	20/1	0.5			BAG-IN-BOX RACK SYSTEM
DUAL SOFT HEAT		2.5		40/2	21	B	22	20/1		0.5		TV MONITORS
DUAL SOFT HEAT		2.5		40/2	23	C	24	40/2		2.86		ICE CUBE MACHINE (PROVIDE GFI BREAKER)
DUAL SOFT HEAT		2.5		40/2	25	A	26	40/2		2.86		ICE CUBE MACHINE (PROVIDE GFI BREAKER)
DUAL SOFT HEAT		2.5		40/2	27	B	28	40/2		2.86		RECEPTACLES
SINGLE SOFT HEAT		2.0		30/2	29	C	30			2.86		6 FLAVOR CAPPUCCINO MACHINE
WATER HEATER & COFFEE BAR (GFI BREAKER)		1.5		20/1	31	A	32	20/1	0.54			MACVOTOR UPS
ICE COFFEE BREWER (GFI BREAKER)	1.7			20/1	37	A	38	20/1	0.36			ICE / BEVERAGE DISPENSER
RECEPTACLES	1.26			20/1	39	B	40	20/1		0.8		EXHAUST FAN
EXHAUST FAN		0.8		20/1	41	C	42	20/1		1.8		3 FLAVOR CAPPUCCINO MACHINE
PHASE A = 15.87 KVA	11.98	13.46	11.70	TOTAL / PHASE			3.89	7.02	9.36			

PANEL 'LPB', 200 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE AND GROUND												
INTERRUPTING CAPACITY: 10,000 AMPS RMS SYM												MAIN: 200 AMPS M.L.O.
DESCRIPTION	LOAD (KVA)			CKT. BRKR.	NO.	Φ	NO.	CKT. BRKR.	LOAD (KVA)			DESCRIPTION
	#A	#B	#C						#A	#B	#C	
FREEZER & COOLER LIGHTING	1.64			20/1	1	A	2	20/1	1.5			COOLER DOOR HEATER
LIGHTING & EXHAUST FANS (EF-1 & EF-2)	0.65			20/1	3	B	4	20/1		0.5		COOLER DOOR LAMPS
LIGHTING		1.18		20/1	5	C	6	20/1		0.5		COOLER DOOR LAMPS
NIGHT LIGHTING CIRCUIT	0.3			20/1	7	A	8	20/1	0.5			FREEZER DOOR LAMPS
EXTERIOR LIGHTING	1.05			20/1	9	B	10	20/1		0.5		FIRE ALARM CONTROL PANEL (FACP)
CASHER AREA LIGHTING		1.09		20/1	11	C	12	20/1		1.0		SITE LIGHTING
CANOPY LIGHTING	0.78			20/1	13	A	14	20/1	1.0			SITE LIGHTING
EVAPORATOR (UC-1C)	1.22			20/2	15	B	16	20/1		1.0		PYLON SIGN
DIGITAL ORDER TERMINAL	1.0			20/1	19	A	20	20/1	1.5			PYLON SIGN
SPARE				20/1	21	B	22	20/1		1.5		COOLER DOOR HEATER
DIGITAL ORDER TERMINAL		0.5		20/1	23	C	24	20/1		0.96		FREEZER DOOR HEATER
LIGHTING CONTACTOR	0.5			20/1	25	A	26	20/1	0.5			ATTIC EXHAUST FAN
LIGHTING CONTACTOR	0.5			20/1	27	B	28	20/1	0.5			PREP BAR LIGHT
CANOPY SIGNAGE		0.5		20/1	29	C	30	20/1		0.96		RED BOX
HAND DRYER	1.5			20/1	31	A	32		1.84			EXHAUST FAN (EF-3)
HAND DRYER	1.5			20/1	33	B	34	30/2		1.84		DE-ICING CABLES (PROVIDE GFI BREAKER)
CANOPY LIGHTING		1.28		20/1	35	C	36	30/2		1.5		DE-ICING CABLES (PROVIDE GFI BREAKER)
DE-ICING CABLES (PROVIDE GFI BREAKER)	2.09			30/2	37	A	38		1.5			EVAPORATOR
BEER CAVE SLIDING DOORS		2.09		30/2	39	B	40	20/2		1.22		
PHASE A = 16.15 KVA	7.81	7.01	7.27	TOTAL / PHASE			8.34	7.06	7.14			

PANEL 'LPC', 200 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE AND GROUND												
INTERRUPTING CAPACITY: 10,000 AMPS RMS SYM												MAIN: 200 AMPS M.L.O.
DESCRIPTION	LOAD (KVA)			CKT. BRKR.	NO.	Φ	NO.	CKT. BRKR.	LOAD (KVA)			DESCRIPTION
	#A	#B	#C						#A	#B	#C	
PIZZA RACK	1.5			20/1	1	A	2	20/2	1.22			EVAPORATOR (UC-2A)
CASH REGISTERS (I.G.)		0.72		20/1	3	B	4			1.22		
MONEY ORDER MACHINE			0.5	20/1	5	C	6	20/1			1.5	ATM MACHINE
LOTTERY TERMINAL (I.G.)	1.2			20/1	7	A	8	20/1	0.72			EXTERIOR RECEPTACLES
ROLLER GRILL AND BUN WARMER		1.0		20/1	9	B	10	20/1		0.36		CHECK OUT RECEPTACLES
VEEDER ROOT CONSOLE			0.5	20/1	11	C	12			1.22		
ATTIC LIGHTS & RECEPTACLES	1.5			20/1	13	A	14	20/2	1.22			EVAPORATOR (UC-1A)
FROZEN BEVERAGE MERCHANDISER		1.05		20/1	15	B	16		1.22			
MILK SHAKE BLENDER			1.26	20/1	17	C	18	20/2		1.22		EVAPORATOR (UC-1B)
EXTERIOR RECEPTACLES	0.36			20/1	19	A	20		1.98			
FROZEN CARBONATED BEV. FREEZER		2.5		30/2	21	B	22	30/3		1.98		COND. UNIT
FROZEN CARBONATED BEV. FREEZER		2.5		30/2	23	C	24			1.98		
ICE DISPENSER/MAKER (GFI BREAKER)	2.5			30/2	25	A	26	30/2	2.5			ACCELERATED WARMING OVEN
INCE CUBE MACHINE (GFI BREAKER)		0.34		20/1	29	C	30	20/1		1.5		MICROWAVE
RECEPTACLES	0.13			20/1	31	A	32	30/2	2.5			ACCELERATED WARMING OVEN
RECEPTACLES		0.72		20/1	33	B	34	30/2		2.5		
RECEPTACLES	0.54			20/1	35	C	36	20/1		1.5		WARMING RACK
RECEPTACLES		0.72		20/1	37	A	38	20/1	0.2			RECEPTACLES
COFFEE BAR ICE CDU		1.22		20/2	39	B	40	20/1		0.95		I-DOOR UPRIGHT COOLER
PHASE A = 18.55 KVA	7.73	9.71	7.04	TOTAL / PHASE			10.82	11.05	10.49			

PANEL 'LPD', 200 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE AND GROUND												
INTERRUPTING CAPACITY: 10,000 AMPS RMS SYM												MAIN: 200 AMPS M.L.O.
DESCRIPTION	LOAD (KVA)			CKT. BRKR.	NO.	Φ	NO.	CKT. BRKR.	LOAD (KVA)			DESCRIPTION
	#A	#B	#C						#A	#B	#C	
E-STOP	0.25			20/1	1	A	2	20/1	1.5			HEAT TRACE
EVAPORATOR (UC-1F)		1.22		20/2	3	B	4	20/1		1.5		RECEPTACLES
RECEPTACLE	0.54			20/1	7	A	8		2.3			RECEPTACLES
SODA / ICE DISPENSER		1.22		20/2	9	B	10	30/3		2.3		COND. UNIT
FROZEN BEVERAGE DISP. CDU	1.66			30/2	13	A	14	20/2	1.22			EVAPORATOR (UC-1D)
FROZEN BEVERAGE DISP. CDU		1.66		30/2	15	B	16		1.22			
SANDWICH COOLER		1.66		30/2	17	C	18	20/1		1.5		RECEPTACLE
SANDWICH COOLER COND.	1.33			15/3	21	B	22	20/2	1.22			EVAPORATOR (UC-1E)
EVAPORATOR		1.33		15/3	23	C	24		1.22			
RECEPTACLES	1.22			20/2	25	A	26		2.3			COND. UNIT
COND. UNIT		1.22		30/3	27	B	28	30/3		2.3		
COND. UNIT		1.5		20/1	29	C	30		2.3			
COND. UNIT	2.3			30/3	31	A	32		2.3			
COND. UNIT		2.3		30/3	33	B	34	30/3		2.3		
COND. UNIT		2.3		41	C	42	20/1		2.3			
PHASE A = 21.52 KVA	8.96	11.45	11.73	TOTAL / PHASE			13.42	13.14	13.9			

PANEL 'LPG', 100 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE AND GROUND												
INTERRUPTING CAPACITY: 10,000 AMPS RMS SYM												MAIN: 100 AMPS M.L.O.
DESCRIPTION	LOAD (KVA)			CKT. BRKR.	NO.	Φ	NO.	CKT. BRKR.	LOAD (KVA)			DESCRIPTION
	#A	#B	#C						#A	#B	#C	
DISPENSER CONTROL POWER	0.5			20/1	1	A	2	20/2	0.85			DISPENSER #1
SATELLITE HEATER		0.85		20/1	3	B	4		0.85			
SPARE				20/1	5	C	6	20/1		0.36		DISPENSER CONTROL
SUMP PUMP #1 PREM. UNLEAD	1.08			20/3	7	A	8	20/2	0.85			DISPENSER #2
SUMP PUMP #2 PREM. UNLEAD		1.08		20/3	9	B	10		0.85			
SUMP PUMP #3 DIESEL			1.08	20/3	11	C	12	20/1		0.36		DISPENSER CONTROL
SUMP PUMP #4 PREM. UNLEAD	1.08			20/3	13	A	14	20/2	0.85			DISPENSER #3
SPARE		1.08		20/3	15	B	16		0.85			
SPARE			1.08	20/3	17	C	18	20/1		0.36		DISPENSER CONTROL
SPARE	1.08			20/3	19	A	20	20/1	1.2			DISPENSER DATA BOX
SPARE		1.08		20/3	21	B	22	20/1		0.48		INTERCOM
SPARE			1.08	20/3	23	C	24	20/1				SPARE
SPARE	1.08			20/3	25	A	26	20/2	0.85			DISPENSER #4
SPARE		1.08		2								