

SURFACE FLUSH PANEL 'A' 225 A, 3 PH., 4 W., 120/208 V MCB () MLO (400A)										SURFACE FLUSH PANEL 'B' 125 A, 3 PH., 4 W., 120/208 V MCB () MLO (125A)										SURFACE FLUSH PANEL 'C' 150 A, 3 PH., 4 W., 120/208 V MCB () MLO (150A)														
CKT #	DESCRIPTION		LOADS VA			DERIPTION	CKT #			CKT #	DESCRIPTION		LOADS VA				CKT #			CKT #	DESCRIPTION		LOADS VA				CKT #	DESCRIPTION			CKT #			
			AØ	BØ	CØ								AØ	BØ	CØ								AØ	BØ	CØ									
1	3 Ø HVAC UNIT #1	50	100			⌋	AUMATIC DOOR	2		1	NIGHT LIGHTS	⌋	310			⌋	SPARE	2		1	POWER TERMINAL BROWN	⌋	180			⌋	ICE CREAM POWER POLE	2						
3		5038		360		⌋	TELPHONE BOARD/BUZZER	4		3	RECEIVING LIGHTS	⌋		186		⌋	SECURITY RECPT.	4		3	POWER TERMINAL BROWN	⌋		1200		⌋	COOLER # 1	4						
5		5038			180		⌋	ENEF MANAGEMENT	6		5	SALES LIGHTS - ROW 1/ENTRY	⌋			630	540	⌋	OFFICE RECPT.	6		5	POWER TERMINAL GREEN	⌋			1200	⌋	COOLER # 2	6				
7	3 Ø HVAC UNIT #2	50	180			⌋	OUTDR HVAC RECPT	8		7	SALES LIGHTS - ROW 2 & 4	⌋	540				⌋	BREAK ROOM RECPT.	8		7	POWER TERMINAL GREEN	⌋	1200			⌋	COOLER # 3	8					
9		5038			180	⌋	OUTDO DRINK VENDING	10		9	SALES LIGHTS - ROW 3 & 6	⌋		540			⌋	LEFT SIDE SALES RECPT.	10		9	POWER TERMINAL GREEN	⌋		1200		⌋	COOLER # 4	10					
11		5038				180	⌋	OUTDO CONVENIENCE UTLET	12		11	SALES LIGHTS - ROW 5 & 7	⌋			878	540	⌋	RIGHT SIDE SALES RECPT.	12		11	POWER TERMINAL GREEN	⌋			1620	⌋	FREEZER # 1	12				
13	3 Ø HVAC UNIT #3	50	100			⌋	EXHST FAN EF1	14		13	SALES LIGHTS - ROW 8 & 10	⌋	940				⌋	SPARE	14		13	POWER TERMINAL BROWN	⌋	1620			⌋		14					
15		5038			100	⌋	EXHST FAN EF2	16		15	SALES LIGHTS - ROW 9 & 12	⌋		1720			⌋	EMERGENCY/EXIT LIGHTS	16		15	POWER TERMINAL BROWN	⌋		1620		⌋	FREEZER # 2	16					
17		5038				5038	⌋	SPARE	18		17	SALES LIGHTS - ROW 11 & 13	⌋			878	360	⌋	BREAK RM., OFF., R.R. LTS.	18		17	4TH REGISTER IF UTILIZED	⌋			1620	⌋		18				
19	3 Ø HVAC UNIT #4	50				⌋	SPARE	20		19	SALES LTS. - FRONT ROW	⌋	806				⌋	SPARE	20		19	4TH REGISTER IF UTILIZED	⌋	1620			⌋	SPARE	20					
21		5038				⌋	SPARE	22		21	SALES LTS. - REAR WALL	⌋		408			⌋	SPARE	22		21	4TH REGISTER IF UTILIZED	⌋	1200		1620	⌋	FUTURE FREEZER # 3	22					
23		5038				⌋	SPARE	24		23	BUILDING SIGN	⌋			900		⌋	SPARE	24		23	SPARE	⌋			1620	⌋	SPARE	24					
25		5038				5038	⌋	SPARE	26		25	PYLON SIGN	⌋	900				⌋	SPARE	26		25	SPARE	⌋	1620			⌋	FUTURE FREEZER # 4	26				
27	SPARE	⌋				⌋	SPARE	28		27	SITE LIGHTING	⌋		1150			⌋	SPARE	28		27	SPARE	⌋				⌋	SPARE	28					
29	DRINKING FOUNTAINS	⌋				180	⌋	SPARE	30		29	SITE LIGHTING / SPARE	⌋			1150	⌋	SPARE	30		29	SPARE	⌋				⌋	SPARE	30					
31	OUTDOOR ICE MERCHANDISER	⌋	6654			125	ANEL "B"	32		31	RIGHT EXT. WALL LIGHTS	⌋	1824				⌋	SPARE	32		31	SPARE	⌋				⌋	SPARE	32					
33	SPARE	⌋	180			9067		34		33	LEFT EXT. WALL LIGHTS	⌋		1824				⌋	SPARE	34		33	SPARE	⌋				⌋	SPARE	34				
35	SPARE	⌋				8446		36		35	FRONT EXT. WALL/CANOPY LTS.	⌋				1202		⌋	SPARE	36		35	SPARE	⌋				⌋	SPARE	36				
37	SPARE	⌋	11040			150	ANEL "C"	38		37	FRONT RIGHT FLOOD	⌋	456				⌋	SPARE	38		37	SPARE	⌋				⌋	SPARE	38					
39	SPARE	⌋				10440		40		39	FRONT LEFT FLOOD	⌋		456				⌋	SPARE	40		39	SPARE	⌋				⌋	SPARE	40				
41	SPARE	⌋				9660		42		41	EXTERIOR DUSK/DAWN	⌋				1368	⌋	SPARE	42		41	SPARE	⌋				⌋	SPARE	42					
			40056	40299	38798	CONNECT. LO	119153 VA	331.1 A				6654	9067	8446	CONNECT. LOAD	24167 VA	67.2 A					11040	10440	9660	CONNECT. LOAD	31140 VA	86.5 A							

PANEL A NOTES:

1) PANEL A TO BE SERVICE ENTRANCE RATED WITH AIC RATING OF 22K MINIMUM.

2) BREAKERS FOR HVAC UNITS SHALL BE SIZED PER MANUFACTURER REQUIREMEN..

PANEL B NOTES:

1) PANEL B TO BE SERVICE ENTRANCE RATED WITH AIC RATING OF 22K MINIMUM.

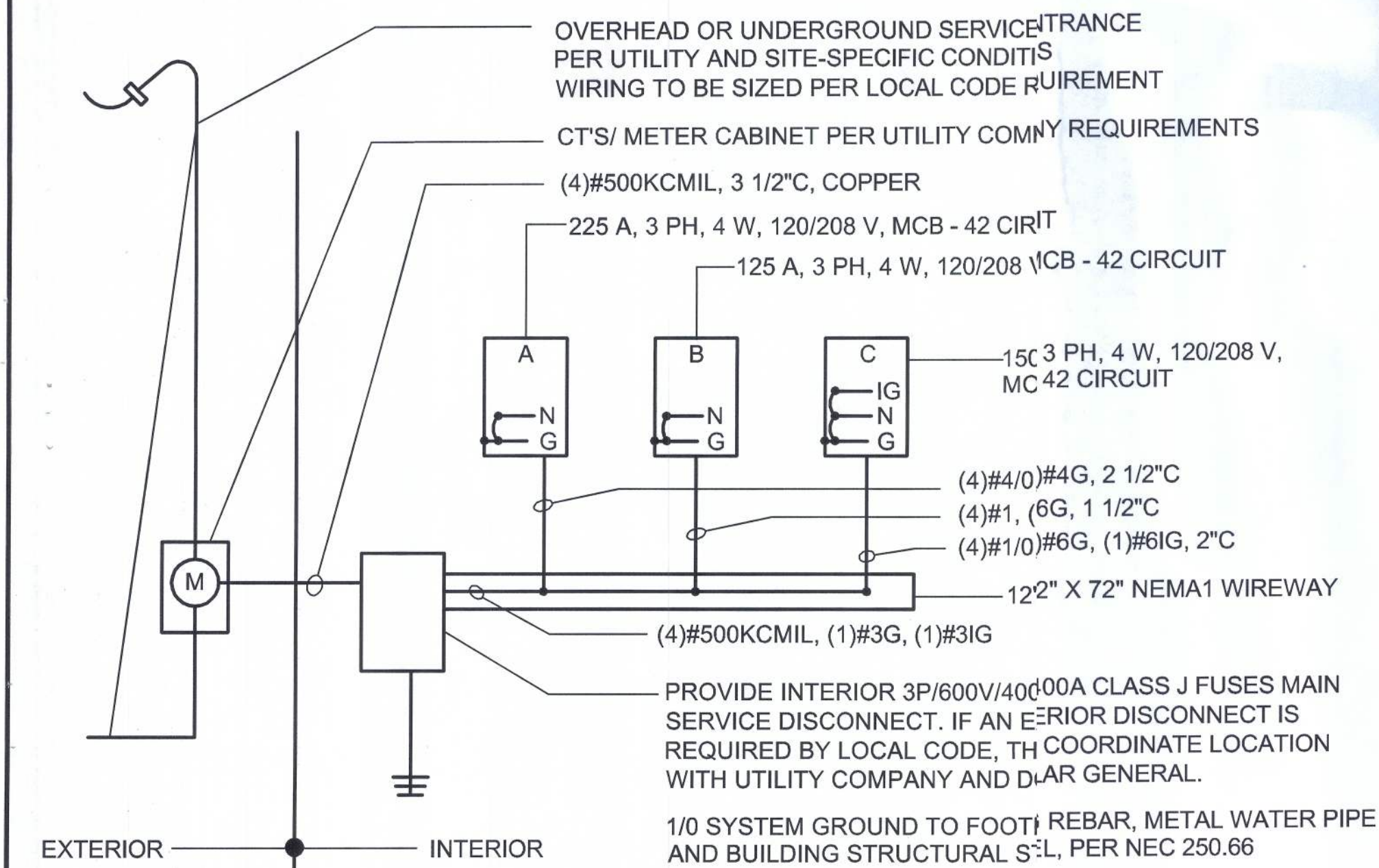
2) SHADED DESCRIPTIONS DENOTES ROUTING TO THE EMS PANEL.

PANEL C NOTES:

1) PANEL C TO BE SERVICE ENTRANCE RATED WITH AIC RATING OF 22K MINIMUM.

2) PANEL C HAS BOTH AN ISOLATED GROUND BUS AND A STANDARD BONDED GROUND BUS.

3) PROVIDE & INSTALL 1 AND 2 POLE BREAKERS FOR COOLERS/FREEZERS AS PER FINAL FIXTURE PLAN - WILL NOT EXCEED 40 AMPS ON DOUBLE POLE BREAKERS. SINGLE POLE CIRCUITS WILL NOT EXCEED 30 AMP



VERIFY ALL WIRE SIZES SHOWN TO MEET LOCAL CODES. ADJUST, AS REQUIRED, PER LOCAL CODES.

- GENERAL NOTES:
- 1) THE EXISTING BREAKER CONFIGURATION IS PROVIDED TO DEMONSTRATE THE PREFERRED LOCATION. ALL ELECTRICAL REQUIREMENTS, LOAD CALCULATIONS & RELATED CODE REQUIREMENTS ARE TO BE PERFORMED BY A LICENSED ENGINEER TO BE SUBMITTED FOR REVIEW & APPROVAL BY THE DOLLAR GENERAL STORE DESIGN DEPARTMENT.
- 2) BREAKERS THAT SERVICE HVAC EQUIPMENT AND MOTOR LOADS (COOLERS, FREEZERS, ETC) TO BE HACR.
- 3) CIRCLED CIRCUIT DENOTES BREAKER LOCKS.
- 4) ALL BREAKERS 20/1 UNO.
- 5) ALL WIRE SHALL BE COPPER CONDUCTOR.

CONNECTIVE LOAD SUMMATION	
INTERIOR LIGHTING	= 12204.0 WATTS
SITE AND SIGN LIGHTING	= 10205.0 WATTS
RECEPTACLE LOAD	= 16837.0 WATTS
HVAC LOAD	= 41760.0 WATTS
EQUIPMENT LOAD	= 24760.0 WATTS
TOTAL LOAD	= 105766.0 WATTS
	293.8 AMPS

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2010 PROTOTYPE - PLAN "C" 9,100

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E5.1.C