

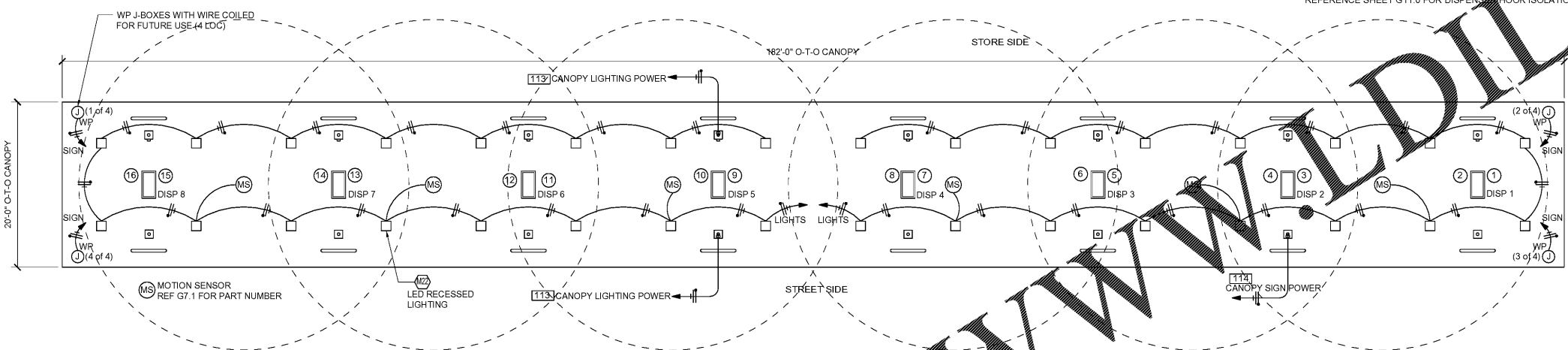
NOTE:
 (1) GENERAL CONTRACTOR TO INSTALL PANELS CIRCUIT BREAKERS AND CONDUIT.
 (2) FUEL CONTRACTOR SHALL INSTALL WIRING (FROM CIRCUIT BREAKERS TO EQUIPMENT), RELAYS, ETC. MAKE ALL CONNECTIONS AND COMPLETE SEAL OFF.

3 PARTIAL ELECTRICAL ONE-LINE DIAGRAM
 1/8"=1'-0"

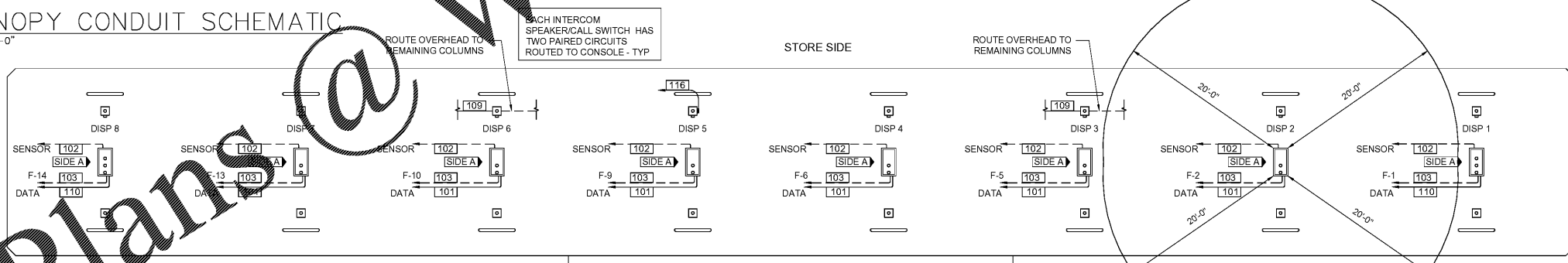
NEW PANELBOARD												
SERVES: TENANT SPACE												
LOCATION: STOCKROOM												
MOUNTING: SURFACE												
125A MAIN LUG ONLY												
1PH 3WIRE 208/120V												
SERIES RATED												
GROUND BAR												
CK	LOAD SERVED	WIRE	BRKR	PL	PHASE C	PHASE A	PL	BRKR	WIRE	LOAD SERVED	CK	
1	DISPENSER #1	12	20	1	1.08	1.08		1	20	12	DISPENSER #2	2
3	SWITCHED NEUTRAL	---	---	---	---	---		---	---	---	SWITCHED NEUTRAL	4
5	DISPENSER #3	12	20	1	1.08	1.08		1	20	12	DISPENSER #4	6
7	SWITCHED NEUTRAL	---	---	---	---	---		---	---	---	SWITCHED NEUTRAL	8
9	DISPENSER #5	12	20	1	1.08	1.08		1	20	12	DISPENSER #6	10
11	SWITCHED NEUTRAL	---	---	---	---	---		---	---	---	SWITCHED NEUTRAL	12
13	DISPENSER #7	12	20	1	1.08	1.08		1	20	12	DISPENSER #8	14
15	SWITCHED NEUTRAL	---	---	---	---	---		---	---	---	SWITCHED NEUTRAL	16
17	RUL STP 1	12	20	2	1.21	1.21		2	20	12	PUL STP	18
19	---	---	---	---	---	---		---	---	---	---	20
21	D-BOX CONTROLLER	12	20	1	0.11	1.09		2	20	12	DSL STP	22
23	HOOK ISOLATION BOX	12	20	1	---	---		---	---	---	---	24
25	SPACE	---	---	---	0.00	1.21		---	---	---	RUL STP 2	26
27	LOW VOLTAGE DISC	12	20	1	---	---		---	---	---	---	28
29	SPACE	---	---	---	0.00	0.00		---	---	---	---	30
TOTAL					13.47	5.80	KVA					
TOTAL LOAD					112.25	48.33	AMPS					
FEEDER LOAD					19.27	92.64	AMPS					
PER NEC ARTICLE 220					19.27	92.64	AMPS					

CONDUIT SCHEDULE					
NAME	DESCRIPTION	CONDUIT SIZE	QTY	WIRE SIZE / MFR #	WIRE QTY
101	DISPENSER POWER - NON DIESEL**	3/4"	6	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***
102	DISPENSER SUMP SENSOR	3/4"	8	BELDEN #88760	1
103	DISPENSER DATA *	3/4"	8	2-WIRE TWISTED PAIR CAT6 FEP/PEP (WCW7931AFEG)	2 PAIR
104	2HP STP POWER**	3/4"	3	#12 THWN-2	3#12 HOTS, 1#12 GR
105	RUL TANK ATG/SUMP, INTERSTITIAL, FILL SENSORS	3/4"	1	BELDEN #88760	5 #88760
106	PUL/DSL TANK ATG/SUMP, INTERSTITIAL, FILL SENSORS	3/4"	1	BELDEN #88760	7 #88760
107	FILL BUCKET SENSORS	3/4"	3	BELDEN #88760	1
108	STP SUMP SENSOR/ATG PROBE	3/4"	3	BELDEN #88760	2
109	INTERCOM	1"	2	BELDEN 8762	1 PAIR PER CALL BOX
110	DISPENSER POWER - DIESEL**	3/4"	2	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***
111	1.5HP STP POWER**	3/4"	1	#12 THWN-2	2#12 HOTS, 1#12 GR
112	AIR VAC MACHINE**	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR
113	CANOPY LIGHTING POWER	3/4"	2	SEE BLDG ELECTRICAL	SEE BLDG ELECTRICAL
114	CANOPY SIGN POWER	3/4"	1	BLDG ELECTRICAL	SEE BLDG ELECTRICAL
115	STP SUMP SENSOR	3/4"	1	BELDEN #88760	1 #88760
116	E-STOP	1"	1	#12 THWN-2	3#12 HOTS, 1#12 GR

* REFERENCE GILBARCO FIELD WIRING DIAGRAM FOR COMPLETE SPECIFICATIONS
 ** CONTRACTOR TO UPSIZE CONDUCTORS FOR VOLTAGE DROP AS REQUIRED
 *** REFERENCE SHEET G11.0 FOR DISPENSER HOOK ISOLATION WIRING DIAGRAM. RUN ISOLATION WIRING AS REQUIRED WITHIN DISPENSER POWER CONDUITS.



2 CANOPY CONDUIT SCHEMATIC
 1/8"=1'-0"



1 UNDERGROUND CONDUIT SCHEMATIC
 1/8"=1'-0"

STP POWER CONDUITS MUST BE RUN IN SEPARATE RACEWAY. ENTIRE WIRING RUN MUST BE IN RIGID PVC COATED GALVANIZED STEEL CONDUIT. USE ONLY ROY ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS. NO PVC OR RNC CONDUIT ALLOWED.

USE ONLY ROY ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS AT FIBERGLASS TANK SUMPS OR WHERE BRAVO FITTINGS OR F-10-RR ENTRY FITTINGS ARE CALLED OUT. THE FIRST 10' OF RUN TRANSITION TO RIGID NONMETALLIC CONDUIT (RNC) WHERE ALLOWED BY JURISDICTION.

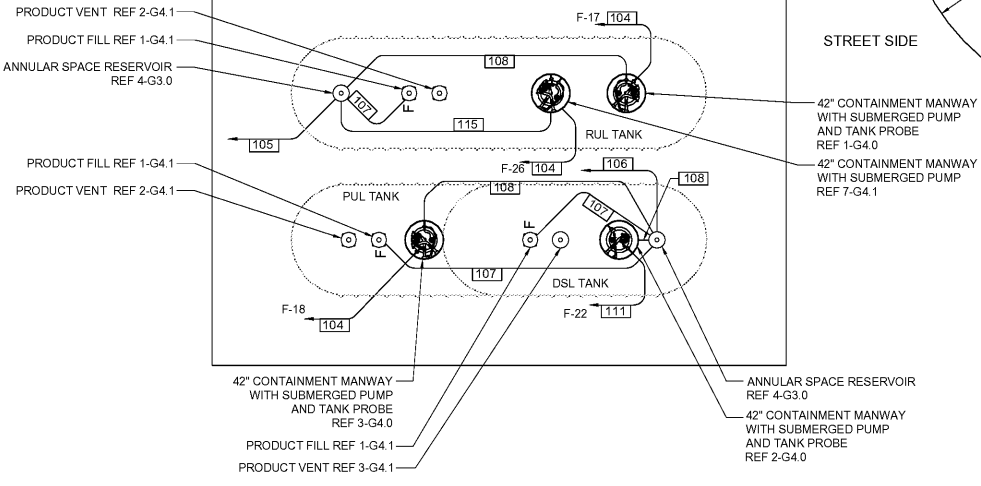
RUN PVC COATED GALVANIZED STEEL FOR WIRING RUNS EXPOSED TO THE WEATHER, FOR ENCLOSING MAIN GROUNDING CONDUCTOR WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED.

WITH THE EXCEPTION OF THE FIRST AND THE LAST 10' OF THE UNDERGROUND RUN AND ONLY WHERE AHJ ALLOWS, RIGID NONMETALLIC CONDUIT (RNC) IS ALLOWED FOR UNDERGROUND RUNS IF CONDUIT IS BURIED AT A MINIMUM OF 2'

COORDINATE PANEL F AND FUELING AREA CIRCUIT LOAD INFORMATION WITH DISPENSER S. STORE CONTRACTOR TO SUPPLY AND INSTALL PANELS AND VERIFY ELECTRIC PANEL CAN MEET LOAD REQUIREMENTS.

FUEL GO TO PROVIDE SINGLE PHASE POWER TO THE MAG-VFC. THREE PHASE POWER TO RUN FROM MAG-VFC TO 2 HP VARIABLE SPEED STPS.

IT IS CRUCIAL THAT THE INSTALLER FOLLOWS NEC, ARTICLE 501 AND/OR OTHER APPLICABLE REQUIREMENTS. BECAUSE CAT-SEICAT-6 JACKET CAN TRANSPORT FUEL VAPORS, NEC REQUIRES THAT THE INSTALLER REMOVES THE OUTER JACKET, THEN SPREADS THE WIRE PAIRS AT THE SEAL-OFF POINTS, SO THAT A GOOD VAPOR SEAL IS ACHIEVED.



FOR STP POWER CONDUITS, USE ONLY ROY ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" WHERE BRAVO FITTINGS ARE USED AND NO PVC CONDUIT IS PERMITTED. ROUTE CONDUITS IN SEPARATE RACEWAY.

STORE CONTRACTOR: INSTALL CONDUIT FROM THE ELECTRICAL ROOM GUTTERS TO 10'-0" PAST BUILDING SLAB. SEE SPECIFICATION SHEET G16.0, SECTION VII, 2.3.1 FOR CONDUIT TYPES.

FUELING CONTRACTOR: EXTEND CONDUITS FROM 10'-0" PAST BUILDING SLAB TO FINAL TERMINATION POINT. SEE SPECIFICATION SHEET G16.0, SECTION VII, 2.3.1 FOR CONDUIT TYPES.

NOTE: ROUTE ALL CONDUITS UNDERGROUND TO C-STORE ELEC ROOM. DATA/COM CABLE EXCESS TO BE COILED IN ELEC RM FOR ROUTING ABOVE CEILING IN C-STORE TO FINAL TERMINATION POINT.

NOTE: PVC CONDUIT (WHERE ALLOWED BY AHJ), MAY BE USED. SEE SPECIFICATION SHEET G16.0, SECTION VII 2.3.1 FOR LOCATIONS WHERE PVC CONDUIT MAY BE USED.

LIGHTING SUPPLIED BY 7-ELEVEN, INC AND INSTALLED BY FUEL CONTRACTOR.

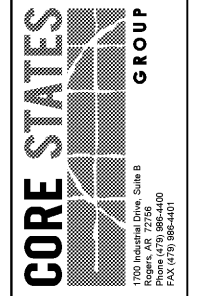
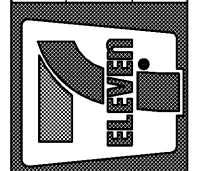
CIRCUITS REQUIRED FOR THE FUELING AREA / CANOPY LIGHTING AND MISCELLANEOUS EQUIPMENT ARE:

CANOPY LIGHTS	960 VA	20 A BREAKER
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CANOPY SIGNS	300 VA	20 A BREAKER
AIR-VAC MACHINE	1560 VA	20 A BREAKER
CONT'EMERG SHUTOFF	40 VA	20 A BREAKER

REF STORE MEP PANEL SCHEDULES FOR LOCATION

Rev. #	Date	Description
Proto	12-01-2020	

7-ELEVEN, INC.
 3200 HACKBERRY ROAD, IRVING TEXAS 75063
 7-ELEVEN #41795
 9000 BLOCK OF SE MARICAMP ROAD
 OCALA, FL 34470
 JUST ELECTRICAL PLAN, ONE-LINE
 DIAGRAM AND PANEL SCHEDULE



Job#: SEI-31123
 Scale: AS NOTED
 Date: 01/07/2020
 Drawn By: TJS
 Checked By: CVK

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SHEET:
G9.0
 FUELING - USA