

DISPENSER LEGEND	
HV	- DISPENSER POWER
LV	- DISPENSER INTERCOM
VR	- DISPENSER VEEDER-ROOT
SP	- DISPENSER SPARE
FU	- DISPENSER FUTURE USE
HR	- HOMERUN FROM BUILDING

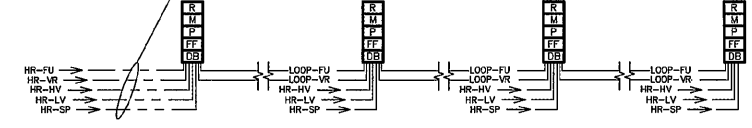
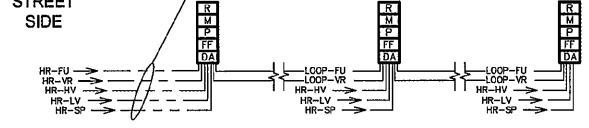
STORE SIDE
↑
STREET SIDE

(HR-FU) ONE 1" DISP. HOMERUN FUTURE CONDUIT FROM BUILDING TO ONE DISP. (LOOP-FU) LOOP 3/4" CONDUIT FROM DISP. TO DISP. FOR FUTURE. - SEE BLDG. ELEC.
(HR-VR) ONE 1" DISP. HOMERUN VEEDER-ROOT CONDUIT FROM BUILDING TO ONE DISP. (LOOP-VR) LOOP 3/4" CONDUIT FROM DISP. TO DISP. FOR VEEDER-ROOT. - SEE BLDG. ELEC.
(HR-HV) ONE 3/4" DISP. HOMERUN POWER CONDUIT FROM BUILDING TO EACH DISP. - SEE BLDG. ELEC.
(HR-LV) ONE 3/4" DISP. HOMERUN INTERCOM CONDUIT FROM BUILDING TO EACH DISP. - SEE BLDG. ELEC.
(HR-SP) ONE 3/4" DISP. HOMERUN SPARE CONDUIT FROM BUILDING TO EACH DISP. - SEE BLDG. ELEC.

(HR-FU) ONE 1" DISP. HOMERUN FUTURE CONDUIT FROM BUILDING TO ONE DISP. (LOOP-FU) LOOP 3/4" CONDUIT FROM DISP. TO DISP. FOR FUTURE. - SEE BLDG. ELEC.
(HR-VR) ONE 1" DISP. HOMERUN VEEDER-ROOT CONDUIT FROM BUILDING TO ONE DISP. (LOOP-VR) LOOP 3/4" CONDUIT FROM DISP. TO DISP. FOR VEEDER-ROOT. - SEE BLDG. ELEC.
(HR-HV) ONE 3/4" DISP. HOMERUN POWER CONDUIT FROM BUILDING TO EACH DISP. - SEE BLDG. ELEC.
(HR-LV) ONE 3/4" DISP. HOMERUN INTERCOM CONDUIT FROM BUILDING TO EACH DISP. - SEE BLDG. ELEC.
(HR-SP) ONE 3/4" DISP. HOMERUN SPARE CONDUIT FROM BUILDING TO EACH DISP. - SEE BLDG. ELEC.

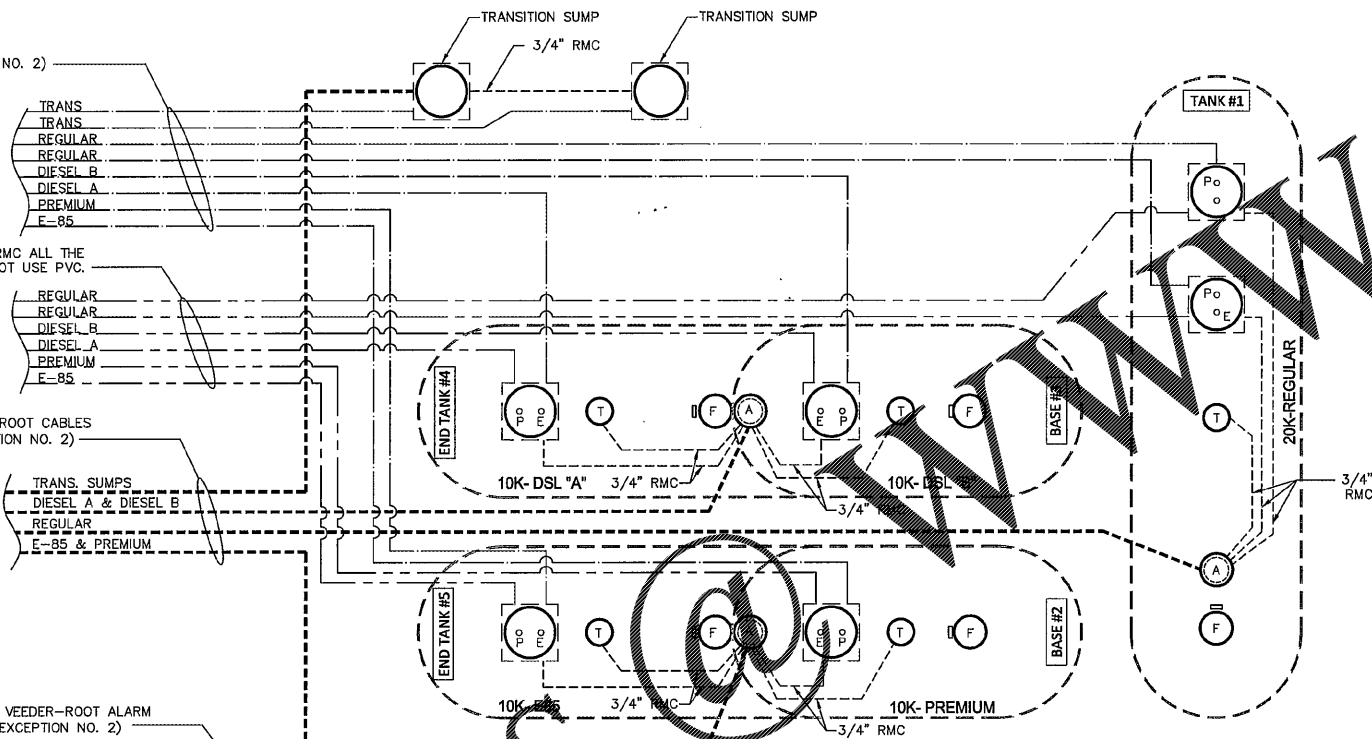
DISPENSER CONDUITS MAY BE PVC PER NEC 514.8 EXCEPTION NO. 2

DISPENSER CONDUITS MAY BE PVC PER NEC 514.8 EXCEPTION NO. 2



A DISPENSER CONDUIT LAYOUT
T1.2

3/4" HOMERUN CONDUIT FOR SPARE (MAY BE PVC PER NEC 514. EXCEPTION NO. 2)



3/4" STP HOMERUN CONDUITS TO BE RMC ALL THE WAY BACK TO THE BUILDING. DO NOT USE PVC.

1" HOMERUN CONDUIT FOR VEEDER-ROOT CABLES (MAY BE PVC PER NEC 514. EXCEPTION NO. 2)

3/4" HOMERUN CONDUIT FOR VEEDER-ROOT ALARM (MAY BE PVC PER NEC 514. EXCEPTION NO. 2)

B TANK LAYOUT / SCHEMATIC ELECTRICAL
T1.2
3/16"=1'-0"

DISPENSER AND TANK WIRE/CABLE REQUIREMENTS

ALL WIRE AND CABLE TO BE SUPPLIED AND INSTALLED BY CONTRACTOR

DESCRIPTION	COLOR	*SIZE
STP REGULAR #1	(4 HP STP) TAN	#10 (MAX. 200')
STP REGULAR #2	(4 HP STP) BROWN	#10 (MAX. 200')
STP PREMIUM	(4 HP STP) RED	#10 (MAX. 200')
STP DIESEL "A"	(4 HP STP) LOW ORANGE	#10 (MAX. 200')
STP DIESEL "B"	(4 HP STP) HIGH ORANGE	#10 (MAX. 200')
STP E85	(4 HP STP) BLUE	#10 (MAX. 200')
DISPENSER POWER	BLACK, WHITE & GREEN	#12
DISPENSER SPARES	PURPLE & GRAY	#12
DISPENSER REGULAR #1 SWITCH LEG	TAN	#12
DISPENSER REGULAR #2 SWITCH LEG	BROWN	#12
DISPENSER PREMIUM SWITCH LEG	RED	#12
DISPENSER DIESEL "A" SWITCH LEG	YELLOW	#12
DISPENSER DIESEL "B" SWITCH LEG	ORANGE	#12
DISPENSER E85 SWITCH LEG	BLUE	#12
DISPENSER DATA	BLACK & RED (DATA)	#18 TWISTED PAIR (12 TWISTS/FT)
DISPENSER DATA	PURPLE & YELLOW (GRIND)	#18 TWISTED PAIR (12 TWISTS/FT)
DISPENSER INTERCOM	(2) #22 SHIELDED TWISTED PAIR	BELDEN #88723
DISPENSER INTERCOM	(1) #18 SHIELDED TWISTED PAIR	BELDEN #88760

* MINIMUM WIRE SIZE. INCREASE WIRE SIZE & CONDUIT SIZE AS NEEDED TO MAINTAIN MAX. 3.0% VOLTAGE DROP FOR SITE SPECIFIC LAYOUT/ROUTING CONSISTENT WITH BUILDING ELECTRICAL DESIGN.

CONDUIT NOTES:

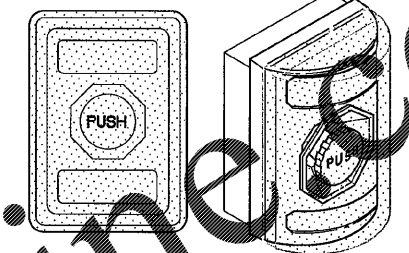
- DO NOT EXCEED 360' IN TOTAL BENDS FOR CONDUIT HOMERUNS PER NEC 344.26.
- CONDUIT FOR STP POWER TO BE RUN IN RMC ALL THE WAY FROM THE BUILDING. DO NOT USE PVC.
- PVC MAY BE USED PER NEC 514, EXCEPTION NO. 2 FOR VEEDER-ROOT HOMERUNS, DISPENSER POWER HOMERUNS, DISPENSER INTERCOM HOMERUNS, DISPENSER SPARE HOMERUNS AND DISPENSER FUTURE HOMERUNS.
- ALL CONDUIT LOOPS FOR TANKS AND AND DISPENSERS TO BE RMC. DO NOT USE PVC.
- INCREASE CONDUIT SIZE TO 1" FOR STP POWER WHEN #B WIRE IS REQUIRED FOR VOLTAGE DROP. SEE WIRE/CABLE CHART THIS SHEET.
- REDUCE CONDUIT TO 3/4" AFTER SEAL-OFF IN STP SUMP WHEN 1" CONDUIT IS REQUIRED.
- INSTALL A SEAL-OFF FITTING ON ALL CONDUITS THAT ENTER AND LEAVE A STP SUMPS, TRANSITION SUMPS AND DISPENSER SUMPS.
- CONDUIT FILL SHALL NOT EXCEED 25% OF SEAL-OFF FITTING PER NEC 501.15(C)(6).

VEEDER-ROOT AND OVERFILL ALARM NOTES:

- ALL VEEDER-ROOT CONDUITS FOR TANK GAUGE, INTERSTITIAL AND SUMP SENSORS TO RUN DIRECTLY TO INTRINSICALLY SAFE VEEDER-ROOT GUTTER LOCATED INSIDE BUILDING.
- VEEDER-ROOT CONSOLE POWER, PLD POWER AND RELAY WIRES TO RUN IN AN ISOLATED, SEPARATE CONDUIT.
- INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE "BELDEN" #88760, 18 GAUGE 300 VOLT SHIELDED 1-PAIR CABLE.
- INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE INSTALLED IN SEPARATE CONDUIT WITH A #12 THIN GREEN GROUND WIRE. TERMINATE GROUND WIRE AT APPLETON J-BOX(S) AND/OR BUILDING INTRINSICALLY SAFE VEEDER-ROOT GUTTER AS OCCURS.
- INTERCOM CABLES TO BE "BELDEN" #88723, 22 GAUGE, 300 VOLT SHIELDED 2-PAIR CABLE.
- ALL TANK FARM AND DISPENSER HOMERUN CONDUITS TO BE PVC. THE LAST 10' ON BOTH ENDS OF CONDUIT RUN TO BE RMC (RIGID METAL CONDUIT). VEEDER-ROOT TANK FARM CONDUIT LOOPS BETWEEN TANK GAUGE, ANNULAR SPACE, STP SUMPS AND PIPING SUMPS TO BE RMC.
- ALL TANK FARM, DISPENSER AND SUMP HOMERUN CONDUITS TO HAVE SEAL-OFFS INSTALLED AT BOTH ENDS OF THE RUN. DISPENSER VEEDER-ROOT CONDUIT LOOPS TO BE RMC AND HAVE A SEAL-OFF ON BOTH ENDS. ALL VEEDER-ROOT CONDUIT LOOPS THAT PENETRATE STP AND TRANSITION SUMPS TO HAVE SEAL-OFFS.
- INSTALL (1) APPLETON GRSS-75 J-BOX AT EACH DISPENSER FOR VEEDER-ROOT CONDUIT LOOPS.
- VEEDER ROOT OVERFILL ALARM IS PRIMARY OVERFILL PROTECTION SOURCE.

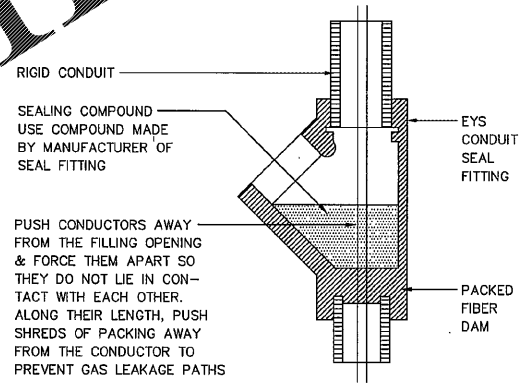
EMERGENCY FUEL SHUT OFF

SIGN SHALL HAVE WHITE LETTERS, MINIMUM 1" IN HEIGHT, ON RED BACKGROUND



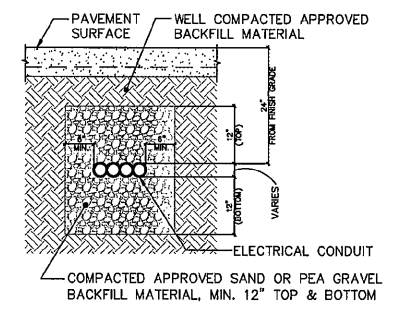
EMERGENCY STOP W/CLEAR COVER AND ALARM POWER INTEGRITY #A-ESOC4

EXTERIOR EMERGENCY FUEL SHUT-OFF



NOTE: SEAL-OFFS TO BE INSTALLED PER NEC 514.3 AND NEC 514.9(A)&(B)

SEAL FITTING INSTALLATION



ELECTRICAL CONDUIT SECTION

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DATE	DESCRIPTION

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(770) 451-7600

PROJECT NAME
PEACHTREE PKWY & ENGINEERING DRIVE

PEACHTREE CORNERS GEORGIA
SWG OF PEACHTREE PKWY and ENGINEERING DRIVE

RACETRAC PROJECT NUMBER
1201

PLAN SERIES
2011 BR-RH-M90 0801

PLAN MODIFICATION NOTICE
NO MODIFICATIONS APPLIED
MODIFICATIONS APPLIED

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

PROFESSIONAL SEAL



RICHARD R. MORRIS
GA REG # FE013887

PROJECT NUMBER
18011

SHEET TITLE
ELECTRICAL LAYOUT

SHEET NUMBER
RT-T1.1

ISSUED FOR CONSTRUCTION