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	
STP PREMIUM	(2 HP STP)	RED	#10 (MAX. 200')
STP E85	(2 HP STP)	BLUE	#10 (MAX. 200')
STP ULS DIESEL	(2 HP STP)	YELLOW	#10 (MAX. 200')
STP B20-1	(4 HP STP)	ORANGE	#10 (MAX. 200')
STP B20-2	(4 HP STP)	LT BLUE	#10 (MAX. 200')
STP B100	(2 HP STP)	PINK	#10 (MAX. 200')
STP DEF	(2 HP STP)	BROWN	#10 (MAX. 200')
DISPENSER POWER		BLACK, WHITE & GREEN	#12
DISPENSER SPARES		PURPLE & GRAY	#12
SATELLITE DISPENSER LOOP POWER		BLACK, WHITE & GREEN	#12
SATELLITE DISPENSER CONTROL WIRES		AS NEEDED	#12
DISPENSER REGULAR SWITCH LEG		TAN	#12
DISPENSER PREMIUM SWITCH LEG		RED	#12
DISPENSER E85 SWITCH LEG		BLUE	#12
DISPENSER ULS DIESEL SWITCH LEG		YELLOW	#12
DISPENSER B20 #1 SWITCH LEG		ORANGE	#12
DISPENSER B20 #2 SWITCH LEG		LT BLUE	#12
DISPENSER B100 SWITCH LEG		PINK	#12
DISPENSER DEF SWITCH LEG		BROWN	#12
DISPENSER DATA		BLACK & RED (DATA)	#18 TWISTED PAIR (12 TWISTS/FT)
DISPENSER DATA		PURPLE & YELLOW (CRIND)	#18 TWISTED PAIR (12 TWISTS/FT)
DISPENSER INTERCOM		(2) #22 SHIELDED TWISTED PAIR	HOUSTON WIRE # H32600 **
TLS-350 SENSORS		(1) #18 SHIELDED TWISTED PAIR	HOUSTON WIRE # H32400 **

* 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.

** OR RACETRAC APPROVED ALTERNATE.

VEEDER-ROOT AND OVERFILL ALARM NOTES:

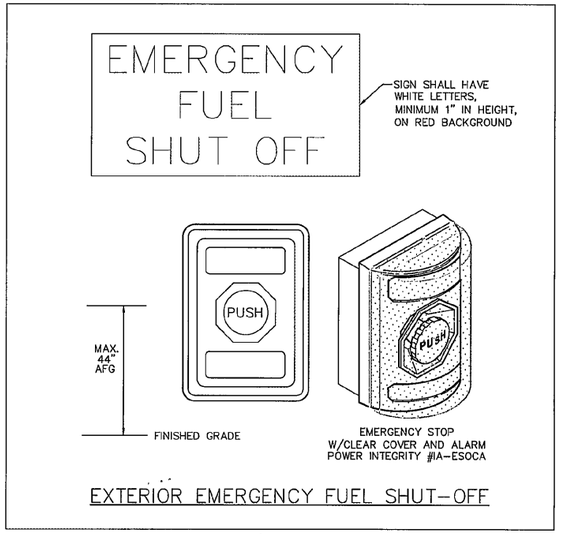
1. ALL VEEDER-ROOT CONDUITS FOR TANK GAUGE, INTERSTITIAL AND SUMP SENSORS TO RUN DIRECTLY TO INTRINSICALLY SAFE VEEDER-ROOT GUTTER LOCATED INSIDE BUILDING.
2. VEEDER-ROOT CONSOLE POWER, PLD POWER AND RELAY WIRES TO RUN IN AN ISOLATED, SEPARATE CONDUIT.
3. INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE "BELDEN" #88760, 18 GAUGE 300 VOLT SHIELDED 1-PAIR CABLE.
4. INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE INSTALLED IN SEPARATE CONDUIT WITH A #12 THWN GREEN GROUND WIRE. TERMINATE GROUND WIRE AT APPLETON J-BOX(S) AND/OR BUILDING INTRINSICALLY SAFE VEEDER-ROOT GUTTER AS OCCURS.
5. INTERCOM CABLES TO BE "BELDEN" #88723, 22 GAUGE, 300 VOLT SHIELDED 2-PAIR CABLE.
6. 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.
7. 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.
8. INSTALL (1) APPLETON GRSS-75 J-BOX AT EACH DISPENSER FOR VEEDER-ROOT CONDUIT LOOPS.
9. VEEDER ROOT OVERFILL ALARM IS PRIMARY OVERFILL PROTECTION SOURCE.

CONDUIT NOTES:

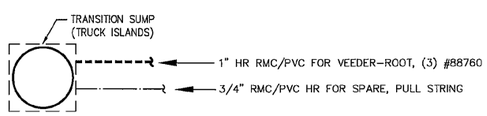
1. DO NOT EXCEED 360° IN TOTAL BENDS FOR CONDUIT HOMERUNS PER NEC 344.26.
2. CONDUIT FOR STP POWER TO BE RUN IN RMC ALL THE WAY FROM THE BUILDING. DO NOT USE PVC.
3. PVC MAY BE USED PER NEC 514, EXCEPTION NO. 2 FOR VEEDER-ROOT HOMERUNS, DISPENSER POWER HOMERUNS, DISPENSER INTERCOM HOMERUNS, DISPENSER SPARE HOMERUNS AND DISPENSER FUTURE HOMERUNS.
4. ALL CONDUIT LOOPS FOR TANKS AND AND DISPENSERS TO BE RMC. DO NOT USE PVC.
5. INSTALL A SEAL-OFF FITTING ON ALL CONDUITS THAT ENTER AND LEAVE A STP SUMPS, TRANSITION SUMPS AND DISPENSER SUMPS.
6. CONDUIT FILL SHALL NOT EXCEED 25% OF SEAL-OFF FITTING PER NEC 501.15(C)(6).

EMERGENCY FUEL SHUT-OFF NOTES:

1. INSTALL (2) REMOTE E-STOPS WITH-IN SIGHT OF THE DRIVER AND WITH-IN 100ft OF DISPENSERS.

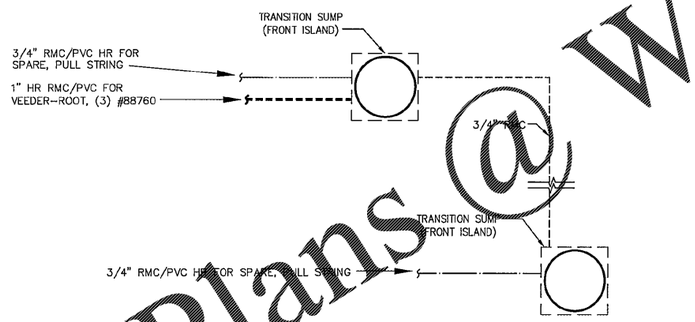


EXTERIOR EMERGENCY FUEL SHUT-OFF



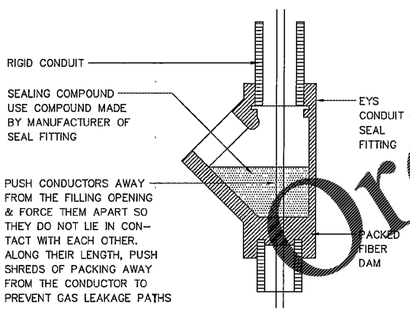
TRANSITION SUMPS - TRUCK ISLANDS

3/16"=1'-0"



TRANSITION SUMPS - AUTO ISLANDS

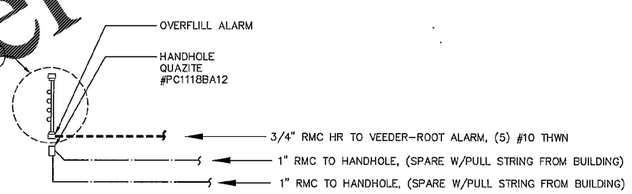
3/16"=1'-0"



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

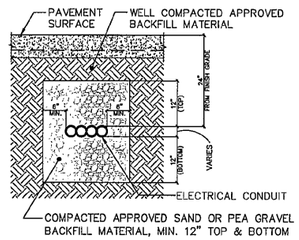
SEAL FITTING INSTALLATION

NTS



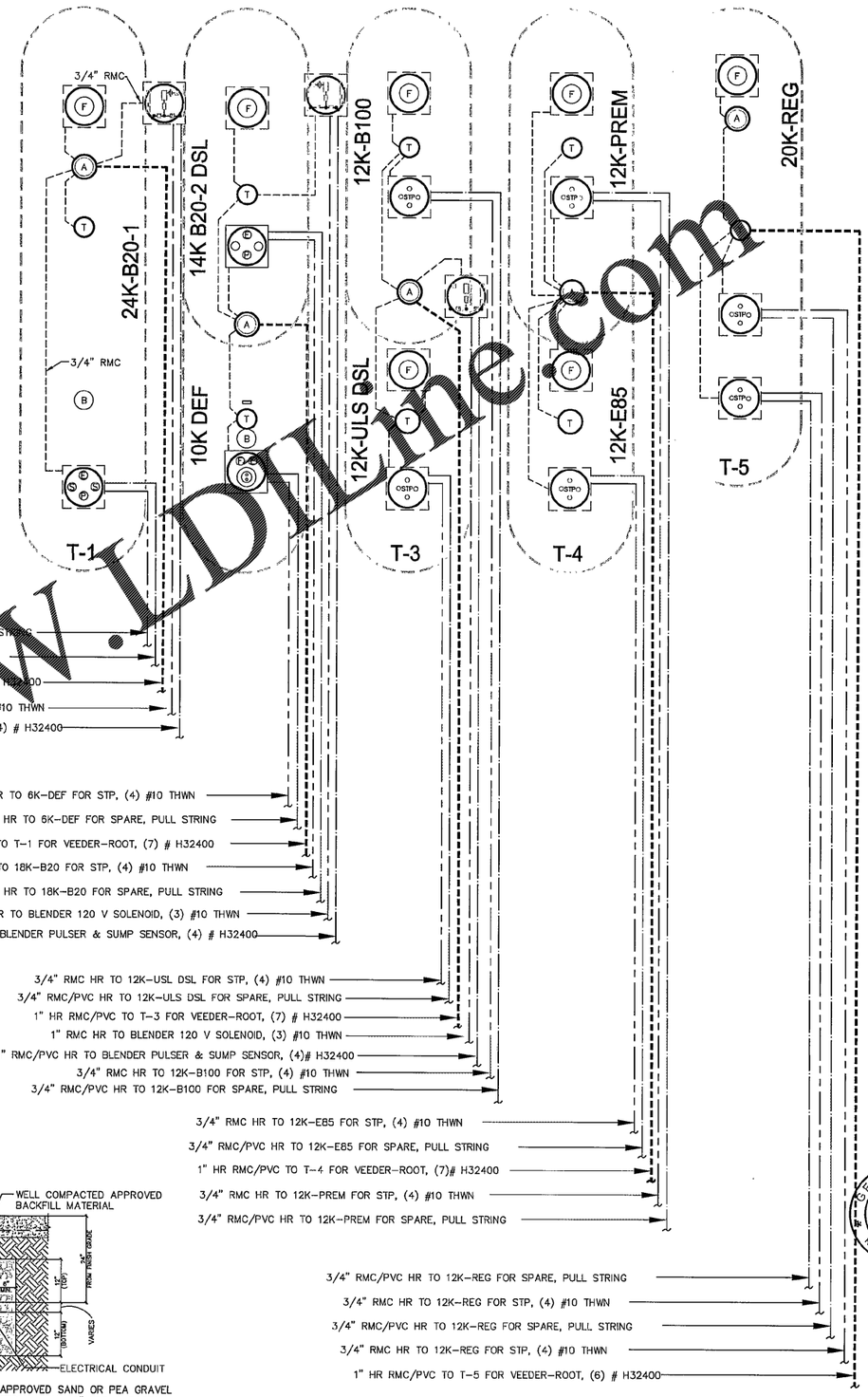
VENT RISER - TANK FARM

NTS



ELECTRICAL CONDUIT SECTION

NTS



A T1.1 TANK LAYOUT / CONDUIT SCHEMATIC

3/16"=1'-0"

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ISSUE/REVISION RECORD

DATE DESCRIPTION

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PROJECT NAME

HWY 316 @ 81

BETHLEHEM
GEORGIA
839 LOGANVILLE HWY

RACETRAC PROJECT NUMBER

1304

PLAN SERIES

2011 BR-RH-M90 0801

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SPB NO. N/A DATE N/A

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PROFESSIONAL SEAL

GEORGIA REGISTERED No. PE013997 PROFESSIONAL ENGINEER RICHARD R. MORRIS

DEC 13 2019

RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER

18213

SHEET TITLE

ELECTRICAL PLAN

SHEET NUMBER

RT-T1.2

ISSUED FOR CONSTRUCTION