PRESSURIZED LINE LEAK DETECTION

VARIABLE SPEED "SMART" CONTROLLERS

TYPICAL TANK MONITOR

SEE NOTE 1 2

NC NO C

POWER FROM CIRCUIT BREAKERS

POWER CONTROL CONTRACTORS

SUBMERSIBLE PUMP CONTROLLERS

SUBMERSIBLE TURBINE PUMPS

3P/20A BREAKER

TO GROUND BAR

S1 S2 S3 S4 S5 S6

L1 L2 L3 G

HOOK

N

M1 M2 M3 G

87-1 DIESEL 92 E-85 87-2 E0

STAND ALONE CONFIGURATION VARIABLE SPEED STP

SUBMERSIBLE TURBINE SHUTDOWN TANK MONITOR

CIRCUIT BREAKERS INSTALLED IN FUEL PANEL BY SQUARE 'D

LOCATED IN SQUARE D IPaCS FUELING CONTROLS SECTION

FIXED SPEED "SMART" CONTROLLERS

(TERMINAL LP MUST BE JUMPED TO THE "5" TERMINAL FOR EACH STP)

N 1A 2A 3A 4A 5A 6A

SEE NOTE 3

TO DISPENSER/PUMP CONTROLS LOCATED IN IPaCS PDC ENCLOSURE

DISPENSER/PUMP CONTROLS TERMINAL STRIP CONNECTION CHART

N	NEUTRAL CONNECTION FOR SUBMERSIBLE PUMP CONTROLLERS
G	GROUND CONNECTION
5	120V LINE PRESSURE POWER (OFF DURING EMERGENCY STOP)
1A	PRODUCT #1 PUMP AUTHORIZATION FROM DISPENSER
1B	PRODUCT #1 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
2A	PRODUCT #2 PUMP AUTHORIZATION FROM DISPENSER
2B	PRODUCT #2 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
3A	PRODUCT #3 PUMP AUTHORIZATION FROM DISPENSER
3B	PRODUCT #3 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
4A	PRODUCT #4 PUMP AUTHORIZATION FROM DISPENSER
4B	PRODUCT #4 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
5A	PRODUCT #5 PUMP AUTHORIZATION FROM DISPENSER
5B	PRODUCT #5 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
6A	PRODUCT #6 PUMP AUTHORIZATION FROM DISPENSER
6B	PRODUCT #6 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)

GENERAL NOTES:

1. REFER TO TANK MONITOR MANUAL FOR ALL WIRING CONNECTIONS AND OTHER SPECIFICATIONS AS REQUIRED BY MANUFACTURER.
2. THE TANK MONITOR IS TYPICALLY MOUNTED INSIDE THE IPaCS PDC ENCLOSURE ON THE ADJACENT WALL.
3. THE TERMINAL STRIP SHOWN IS FOR THE STANDARD DM-EX DESIGN. THE STANDARD DM-EX DESIGN MAY BE CUSTOMIZED FOR ADDITIONAL PUMP DEVICES, THERE BY ALTERING THE STANDARD DESIGN SHOWN. PLEASE REFER TO ALL INFORMATION TO DETERMINE THE NUMBER OF DEVICES FOR EACH JOB LOCATION.

2 TANK MONITOR/LINE PRESSURE OPTION WITH VARIABLE SPEED "SMART" CONTROLLER
N.T.S.

DISPENSER NUMBERING STANDARD

STORE

DISPENSER #		11	9	7	5	3	1				
FUEL POSITION #	22	21	18	17	14	13	10	9	6	5	2	1
DISPENSER #		12	10	8	6	4	2				
FUEL POSITION #	24	23	20	19	16	15	12	11	8	7	4	3

DISPENSER WIRING STANDARD TABLE

IPaCS Terminal Strip Label	Field Wire Color Code (Proposed)	Description
H	Black	Hot Wire To MPD (120 Volt)
N	White	Neutral Wire To MPD
HL	Blue	Power to LLVD
1	Yellow	Pump #1 Authorization Signal
2	Brown	Pump #2 Authorization Signal
3	Orange	Pump #3 Authorization Signal
4	Red	Pump #4 Authorization Signal
5	Gray	Pump #5 Authorization Signal
6	Purple	Pump #6 Authorization Signal
Ground Bar	Green	Ground Wire For MPD

SUBMERSIBLE PUMP NUMBERING STANDARD

Pump Number	Service
Pump #1	"Unleaded #1" Submersible Pump
Pump #2	"Diesel" Submersible Pump
Pump #3	"Premium or 92" Submersible Pump
Pump #4	"E-85" Submersible Pump
Pump #5	"Unleaded" Submersible Pump
Pump #6	"E0" Submersible Pump

3 DISPENSER & PUMP NUMBERING & WIRING STANDARD
N.T.S.

EM04C FUEL SHUTDOWN SWITCH

FUEL SHUTDOWN

CASHIER CONTROL CENTER CCC04M

DEL SHUTDOWN SPARE DEVICE

FUEL RESET LIGHTING BYPASS SPARE DEVICE

8" 3"

STANDARD WIRING DETAIL

TO REMOTE TIMED OVERRIDE SWITCH. (IF REQ'D.)

STANDARD REMOTE MOUNTED FUEL SHUTDOWN SWITCH. N/C MOMENTARY

ADDITIONAL REMOTE MOUNTED FUEL SHUTDOWN SWITCH OR CASHIER CONTROL CENTER N/C MOMENTARY IF USED.

TO FUEL RESET N/O MOMENTARY LOCATED IN THE CASHIER CONTROL CANTER PANEL (IF USED).

ADDITIONAL FUEL SHUTDOWN SWITCH.

FACTORY INSTALLED JUMPERS REMOVE WHEN CONNECTING OPTIONAL SWITCH DEVICES.

TERMINAL STRIP LOCATED IN DISPENSER/PUMP CONTROLS SECTION.

NOTES:

1. THE FUEL SHUTDOWN FUNCTION DISCONNECTS POWER TO ALL PUMPS AND ALL DISPENSERS. (BOTH HOT AND NEUTRAL CONDUCTORS).
2. ADDITIONAL REMOTE SHUTDOWNS ARE AVAILABLE (I.E. OUTDOOR AND CASHIER LOCATIONS).
3. FUEL SHUTDOWN CONTRACTORS FURNISHED BY OWNER & INSTALLED BY E.C.
4. ALL FIELD WIRING TERMINALS MUST BE WIRED WITH A MINIMUM INSULATION RATING OF 60°C IF CIRCUIT IS RATED LESS THAN 100 AMPS OR A MINIMUM INSULATION RATING OF 75°C IC CIRCUIT IS RATED OVER 100 AMPS. FIELD WIRING INDICATED BY A DASHED LINE.
5. MAIN AND BRANCH CIRCUITS PROTECTED BY OTHERS.

4 CASHIER CONTROL CENTER WIRING
N.T.S.

TANK MONITOR

JUNCTION BOX

CONDUIT SEAL TYPICAL WHERE REQUIRED

CONDUIT AND WIRING AS REQUIRED BY MONITOR MANUFACTURER

(2) 3/4" 120V CONDUITS TO ELECTRIC PANEL

FUEL STORAGE TANKS

FUEL STORAGE TANKS

FUEL STORAGE TANKS

1 TANK MONITORING SCHEMATIC DIAGRAM
N.T.S.

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DESIGN PROFESSIONALS
HILLFOLEYROSSI & ASSOCIATES
ARCHITECTURE
ENGINEERING
3680 Pleasant Hill Road
Suite 200
Duluth, Georgia 30096
p 770.622.9858
f 770.622.9535
www.hillfoleyrossi.com

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RaceTrac.
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SOUTHEAST
SUITE 900
ATLANTA, GEORGIA 30339
(770) 431-7600

PROJECT NAME

PEACHTREE PKWY & ENG.

PEACHTREE CORNERS
5780 PEACHTREE PKWY
PEACHTREE CORNERS, GA

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PROTOTYPE SERIES 5.5K 2.0

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