

PARTS LEGEND

SECTION 100 - UNDERGROUND TANKS	
101	- 24,000 GALLON TWO-COMPARTMENT (124" DIA. X 45'-11 3/4") DOUBLE-WALL FIBERGLASS UNDERGROUND FUEL STORAGE TANK (XERXES) 18,000 / 6,000 SPLIT WITH 42" SUMP RISER
101a	- 24,000 GALLON THREE-COMPARTMENT (124" DIA. X 46'-0 1/4") DOUBLE-WALL FIBERGLASS UNDERGROUND FUEL STORAGE TANK (XERXES) 6,000 / 12,000 / 6,000 SPLIT WITH 42" SUMP RISER
102	- 10 GA. STEEL WEAR PLATE
103	- XERXES PRECAST CONCRETE DEADMEN
104	- HOLD DOWN STRAPS BY TANK MANUFACTURER.
105	- 18" GALVANIZED TURNBUCKLE ASSEMBLY W/ HOOK ENDS.
106	- N/A
107	- 8" THICK CONC. PAD W/ 6 X 6 - W1.4 X W1.4 WIRE REINFORCEMENT. (H-20 LOADING)
108	- #5 REBARS @ 8" O.C.E.W. (TYP.)
109	- PEA GRAVEL BACKFILL AROUND TANKS TO EXTEND 12" BELOW BOTTOM OF TANKS (TYP.) MUST HAVE MIN. DIA. OF 1/8" AND MAX. DIA. OF 3/4" (PER XERXES GUIDELINES)
110	- 1" THICK COMPRESSIBLE FOAM BOARD (TYP.)
111	- 4" SLOTTED P.V.C. PIPE OBSERVATION WELL. CAP OBSERVATION WELL c/w LOCKING GRIPPER CAP. MINIMUM OF TWO WELLS TO BE INSTALLED AT OPPOSITE CORNERS (ONE WELL AT MOST UPGRADIENT LOCATION -RI ONLY). SEE TANK & PIPING LAYOUT FOR LOCATION.

SECTION 200 - ISLANDS & BOLLARDS	
201	- RIVERSIDE STEEL 3"W X 12'L X 9"H STAINLESS STEEL ISLAND FORM W/6" RADIUS CORNERS
202	- 6" Ø OD X 7'-0" LONG 20 GA. STEEL BOLLARD FILLED W/ CONCRETE, WITH WHITE PVC BOLLARD COVER W/ GREEN (PMS #376) REFLECTOR TAPE @ TOP

SECTION 300 - TANK TOP EQUIPMENT	
301	- 65-8012-WC UNIVERSAL 8" ROUND LIMITED ACCESS MONITOR WELL MANHOLE
302	- A0716-018CJP EMCO WHEATON 18" COMPOSITE CAM-LOCK MANHOLE W/ 18" POWDER COATED SKIRT
303	- A0716-044C EMCO WHEATON 44" COMPOSITE MANHOLE, 10" SKIRT, CAMLOCK. COMPOSITE COVERS TO BE SUPPLIED WITH FACTORY COLORED FINISH AS FOLLOWS: WHITE "REGULAR" = A0716-044C-R RED "PREMIUM" = A0716-044C-U YELLOW "ULTRA LOW SULFUR DIESEL" = A0716-044C-D COLOR TBD BY CFG "ETHANOL-FREE" = A0716-044C - WITH "EO" FUEL GRADE ID MARKER
304	- 120-12WID FAIRFIELD INDUSTRIES 12" WATER TIGHT MANHOLE W/ 12" SKIRT
305	- GALVANIZED SCH. 40 RISER (FOR FUTURE FUEL TANK USE STAINLESS STEEL)
306	- A1004EVR-317SS EMCO WHEATON 5 GALLON DOUBLE WALL, NPT, NO DRAIN, CAST IRON COVER MANHOLE PHASE I EVR APPROVED. CAST IRON COVERS TO BE SUPPLIED WITH FACTORY POWDER COATED COLOR FINISH AS FOLLOWS: WHITE "REGULAR" = A1004EVR-317SS-R - WITH PRODUCT ID TAG (PART #TC-03) -R1, R2 & R3 RED "PREMIUM" = A1004EVR-317SS-U - WITH PRODUCT ID TAG (PART #TC-04) YELLOW "ULTRA LOW SULFUR DIESEL" = A1004EVR-317SS-D - WITH PRODUCT ID TAG (PART #TC-07) ORANGE "VAPOR" = A1004EVR-317SS-V - WITH PRODUCT ID TAG (PART #TC-21) BRONZE "E85 ETHANOL" = A1004EVR-317SS-E ORANGE/BRONZE "E85 VAPOR" = A1004EVR-317SS-EV COLOR TBD BY CFG "ETHANOL-FREE" = A1004EVR-317SS - WITH PRODUCT ID TAG (PART# TBD)
307	- TANK FUEL ID TAG FASTENED TO FILL PIPE RISER WITH CLAMP-MASTER REGULAR ONLY (T-1)
308	- A0717-722 VWCL EMCO WHEATON VAULT LIFT ASSIST BOLT-DOWN WATER RESISTANT WITH HANDLE (ONLY FOR TANK LEVEL MONITORS ON REMOTE FILL SITES)
309	- FSMS120200 HOSE MASTER FIRE-SHIELD 2" X 12" BRAIDED STAINLESS STEEL FLEX CONNECTOR COUPLED MALE X MALE SWIVEL
310	- C/138 X 50 F.W. WEBB 3/8" X 50' COPPER TUBING
311	- A1100EVR-056CF EMCO WHEATON GUARDIAN 4" 2-POINT CARB APPROVED ENHANCED OVERFILL PREVENTION VALVE, PHASE I EVR APPROVED W/85" EXTENDED LENGTH UPPER TUBE AND 107" EXTENDED LENGTH LOWER TUBE
312	- 10P-0152 OPW 1.5" DOUBLE POPPET EMERGENCY SHEAR VALVE
313	- A0030-124S EMCO WHEATON 4" BRASS SWIVEL FILL ADAPTER
314	- 634TT-7085-EVR OPW 4" ENHANCED TOP SEAL FUEL CAP
315	- A0076-124S EMCO WHEATON 4" BRASS VAPOR SWIVEL ADAPTER
316	- 1711T-7085-EVR OPW 3" ENHANCED VAPOR RECOVERY VAPOR TOP SEAL CAP
317	- 233-4420 OPW 4" X 2" EXTRACTOR FITTING W/O CAGE
318	- 233-4430 OPW 4" X 3" EXTRACTOR FITTING W/O CAGE
319	- A1004EVR-216SJ EMCO WHEATON 15 GALLON DOUBLE WALL, NPT, NO DRAIN W/ JACKS, CAST IRON COVER SPILL CONTAINER PHASE I EVR APPROVED (ME & VI ONLY). CAST IRON COVERS TO BE SUPPLIED WITH FACTORY POWDER COATED COLOR FINISH AS FOLLOWS: WHITE "REGULAR" = A1004EVR-216SJ-R - WITH PRODUCT ID TAG (PART #TC-03) -R1, R2, & R3 TAGS RED "PREMIUM" = A1004EVR-216SJ-U - WITH PRODUCT ID TAG (PART #TC-04) YELLOW "ULTRA LOW SULFUR DIESEL" = A1004EVR-216SJ-D - WITH PRODUCT ID TAG (PART #TC-07) ORANGE "VAPOR" = A1004EVR-216SJ-V - WITH PRODUCT ID TAG (PART #TC-21) BRONZE "E85 ETHANOL" = A1004EVR-216SJ-E ORANGE/BRONZE "E85 VAPOR" = A1004EVR-216SJ-EV COLOR TBD BY CFG "ETHANOL-FREE" = A1004EVR-216SJ - WITH PRODUCT ID TAG (PART# TBD)

320	- 723V-3230PW 3" EVR PRESSURE VAC VENT W/2.5" TO 6" WATER COLUMN PRESSURE/6" TO 10" WATER COLUMN VACUUM
321	- 23-0033 OPW 2" ALUMINUM TANK VENT-ATMOSPHERIC
322	- 116-7085 OPW 4" DURATUFF PIPE CAP
323	- COM38 X 14MUN F.W. WEBB 3/8" COMPRESSION X 1/4" MALE NPT BRASS FITTING
324	- 691-08001V MORRISON BROTHERS 2" BRASS BALL VALVE
325	- A1005-517SF EMCO WHEATON 5 GALLON REMOTE FILL DOUBLE WALL GLASS, NO DRAIN, CAST IRON COVER MANHOLE. SS SPILL CONTAINER CAST IRON COVERS TO BE SUPPLIED WITH FACTORY POWDER COATED COLOR FINISH AS FOLLOWS: WHITE "REGULAR" = A1005-517SF-R - WITH PRODUCT ID TAG (PART #TC-03) -R1, R2 & R3 TAGS RED "PREMIUM" = A1005-517SF-U - WITH PRODUCT ID TAG (PART #TC-04) YELLOW "ULTRA LOW SULFUR DIESEL" = A1005-517SF-D - WITH PRODUCT ID TAG (PART #TC-07) ORANGE "VAPOR" = 517SF3SW-V - WITH PRODUCT ID TAG (PART #TC-21) BRONZE "E85 ETHANOL" = A1005-517SF-E ORANGE/BRONZE "E85 VAPOR" = A1005-517SF-EV COLOR TBD BY CFG "ETHANOL-FREE" = A1005EVR-517SF - WITH PRODUCT ID TAG (PART# TBD)
326	- 61JSK-4RMT OPW JACK SCREW KIT (INCLUDES TRAP DOOR AND JACK SCREW)
327	- A0079-444 EMCO WHEATON 4"x4"x4" TEE NPT BODY
328	- 201478 OPW 62M CAP AND ADAPTOR KIT
329	- 494096 EMCO RISER SEAL (PHASE 1 EVR APPROVED)
330	- FSA-400-(S) OPW 4" SHORT FACE SEAL ADAPTOR FOR CAST IRON BASE
331	- 539T0-0400AD MORRISON BROTHERS 4" OPEN TELESCOPIC DIFFUSER
332	- A7901-006S EMCO WHEATON 4"x6" NIPPLE WITH MACHINED END
333	- 723-4015 UNIVERSAL 4"x15" CONVENTIONAL DROP TUBE FOR STICK PORT RISER

SECTION 400 - VEEDER ROOT EQUIPMENT	
401	- 305XPA-1200AK EVR MORRISON BROTHERS ATG PROBE 4" ALUMINUM CAP AND BRASS ADAPTER W/ 1.2" THREAD PORT HOLE AND CABLE CONNECTION
402	- 848290-022 VEEDER ROOT TLS350 PLUS CONSOLE W/ INTEGRAL PRINTER
403	- 329356-002 VEEDER ROOT TLS350R / TLS350 PLUS 4 INPUT PROBE INTERFACE MODULE
404	- 329358-001 VEEDER ROOT TLS350R / TLS350 PLUS 8 INPUT INTERSTITIAL/LIQUID SENSOR INTERFACE MODULE
405	- 794380-208 VEEDER ROOT PIPING SUMP SENSOR W/ 12' CABLE INSTALLED AT LOWEST POINT OF ALL SUMPS
406	- 794380-303 VEEDER ROOT DUAL FLOAT HYDROSTATIC SENSOR
407	- 330020-012 VEEDER ROOT UNIVERSAL SENSOR MOUNTING KIT
408	- 846390-109 VEEDER ROOT 10' 0.1-GPH MAG PLUS PROBE
409	- 886100-000 VEEDER ROOT 4" PHASE SEPARATION DETECTING FLOAT KIT W/ 5' CABLE
410	- 846400-001 VEEDER ROOT DIESEL MAG PLUS PROBE INSTALLATION KIT W/ 5' CABLE AND 4" FLOAT
411	- 330010-425 VEEDER ROOT TLS350R / TLS350 PLUS ETHERNET TCP/IP COMMUNICATIONS INTERFACE MODULE
412	- 847490-001 VEEDER ROOT INTERFACE MODULE EXPANSION BOARD
413	- OMNI-G11802 OMNI 18/2 GREY 2-CONDUCTOR WIRE - 1000' REEL - (COMMUNICATIONS) BELDIN WIRE 88760-18AWG 2-CONDUCTOR WIRE -1000' REEL - (COMMUNICATIONS)
414	- 848480-001 VEEDER ROOT (PLLD) W/O SWIFTCHECK
415	- N/A
416	- 330843-001 VEEDER ROOT 6 INPUT PRESSURE LEAK DETECTOR MODULE
417	- 847490-001 VEEDER ROOT INTERFACE MODULE EXPANSION BOARD

SECTION 500 - SUBMERSIBLE PUMPS & COMPONENTS	
501	- 402731915 FE PETRO ISTMR2-15 2HP VARIABLE SPEED AND LENGTH SUBMERGED TURBINE PUMP - RANGE 90" - 151"
502	- 4X155GNRC 4" X 15" BLACK NIPPLE - REAM AND CHAMFER
503	- 5874202800 FE PETRO NEW STYLE MAG VFC VER 1.22 CONTROLLER - WITH VERSION 1.22 SOFTWARE
504	- 402084901 FE PETRO SIPR150-VL2 1.5HP FIXED SPEED, FIXED LENGTH SUBMERGED TURBINE PUMP RANGE 89"-152" (PREMIUM & E-FREE)
505	- 403592915 FE PETRO SIPAPR150-VL2-15 1.5HP FIXED SPEED (ADV. PROTECTION), FIXED LENGTH SUBMERGED TURBINE PUMP RANGE 89"-152" (DIESEL)
506	- 5800100215 FE PETRO STP-SCI 120 VAC ISOLATION RELAY
507	- 400137937 FE PETRO A/G COMPATIBLE SIPHON CHECK VALVE ASSEMBLY
508	- 184-2500MB MORRISON BROTHERS 4" X 2" X 2" CAST IRON DOUBLE TAP BUSHING
509	- 402728915 FE PETRO ISTMR-VS4-VL2-15 4HP VARIABLE SPEED AND LENGTH SUBMERGED TURBINE PUMP - RANGE 90" - 151"
510	- 2" GALV. PIPE FOR SIPHON STUBS

SECTION 600 - ENTRY BOOTS & TEST REDUCERS	
601	- F-32U-T BRAVO 3" X 2" BONDED PENETRATION FITTING W/ TEST PORT
602	- F-07-FF BONDED BRAVO 3/4" CONDUIT PASS THROUGH FITTING
603	- F-10-FF BONDED BRAVO 1" CONDUIT PASS THROUGH FITTING
604	- F-40-FF-LCX BONDED BRAVO 4" PENETRATION FITTING
605	- 44469206 NOV LCX 4" CONTAINMENT TERMINATION FITTING W/ TEST PORT

SECTION 700 - NOV PIPE & FITTINGS	
701	- 011020-069-1 NOV RED THREAD IIA 2" X 15' FIBERGLASS PIPE
702	- 012020-360-4 NOV RED THREAD IIA 3" 90 DEGREE ELBOW
703	- 012020-310-4 NOV RED THREAD IIA 2" 45 DEGREE ELBOW
704	- 012020-191-4 NOV RED THREAD IIA 2" BELL X MALE ADAPTER
705	- 012020-194-4 NOV RED THREAD IIA 2" BELL X FEMALE ADAPTER
706	- 012020-410-4 NOV RED THREAD IIA 2" TEE FIBERGLASS
707	- 012020-101-8 NOV RED THREAD IIA 2" SLEEVE COUPLING
708	- 011030-069-1 NOV RED THREAD IIA 3" X 15' FIBERGLASS PIPE
709	- 012030-360-4 NOV RED THREAD IIA 3" 90 DEGREE ELBOW
710	- 012030-310-4 NOV RED THREAD IIA 3" 45 DEGREE ELBOW
711	- 012030-191-4 NOV RED THREAD IIA 3" BELL X MALE ADAPTER
712	- 012030-194-4 NOV RED THREAD IIA 3" BELL X FEMALE ADAPTER
713	- 012030-410-4 NOV RED THREAD IIA 3" TEE FIBERGLASS
714	- 012030-101-8 NOV RED THREAD IIA 3" SLEEVE COUPLING
715	- 012030-231-4 NOV RED THREAD IIA 3" X 2" REDUCER COUPLING
716	- 012030-410-3 NOV RED THREAD IIA 3" TEE - SECONDARY CONTAINMENT
717	- 012030-101-3 NOV RED THREAD IIA 3" COUPLING - SECONDARY CONTAINMENT
718	- 012030-310-3 NOV RED THREAD IIA 3" 45 DEGREE ELBOW - SECONDARY CONTAINMENT
719	- 012030-360-3 NOV RED THREAD IIA 3" 90 DEGREE ELBOW - SECONDARY CONTAINMENT
720	- 012020-231-4 NOV RED THREAD IIA 2" X 1.5" FEMALE NPT REDUCER BUSHING
721	- 44894386 NOV DUALOY 3000/LCX 4" X 20' FIBERGLASS PIPE
722	- 012020-180-4 NOV RED THREAD IIA 2" END CAP
723	- 012020-192-4 NOV RED THREAD IIA 2" SPIGOT X MALE ADAPTER
724	- 012030-192-4 NOV RED THREAD IIA 3" SPIGOT X MALE ADAPTER
725	- 44469201 NOV DUALOY 4" LCX 90 DEGREE CONTAINMENT ELBOW
726	- 44372108 NOV DUALOY 4" 90 DEGREE ELBOW
727	- 44370202 NOV DUALOY 4" BELL X MALE ADAPTER
728	- 44371508 NOV DUALOY 4" 45 DEGREE ELBOW
729	- 44469202 NOV DUALOY LCX 4" 45 DEGREE SECONDARY CONTAINMENT ELBOW
730	- 44350707 NOV DUALOY 4" SLEEVE COUPLING
731	- 44469204 NOV DUALOY 4" LCX COUPLING

SECTION 800 - BRAVO BOXES	
801	- CF-B10252 WITH VALVE ASSEMBLY BRAVO 1000 SERIES WAYNE OVATION NON VAC B13-13 DOUBLE-WALLED FIBERGLASS DISPENSER SUMP W/ INTERCHANGEABLE ELECTRIC OFFSET FRAME, FACTORY INSTALLED PRODUCT SHEAR VALVE STABILIZER BRACKETS, AND F-32U-T BONDED ENTRY FITTING FACTORY INSTALLED ((2) FOR 3+0, (3) FOR 3+1)
802	- CF-B9256 WITH VALVE ASSEMBLY BRAVO 1000 SERIES WAYNE OVATION NON VAC B24-4 FIBERGLASS DOUBLE WALLED DISPENSER SUMP W/ INTERCHANGEABLE ELECTRIC OFFSET FRAME, (4) FACTORY INSTALLED PRODUCT SHEAR VALVE STABILIZER BRACKETS, AND (4) F-32U-T BONDED ENTRY FITTING FACTORY INSTALLED
803	- N/A
804	- N/A
805	- N/A
806	- FSMS120150 HOSE MASTER FIRE-SHIELD 1.5" X 12" BRAIDED STAINLESS STEEL FLEX CONNECTOR COUPLED 1.5" MALE X 1.5" MALE SWIVEL

SECTION 900 - GENERAL	
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MICCO ROAD & US HWY 1 BREVARD COUNTY, FLORIDA	
11005 - DOUBLE WALL FIBERGLASS TANK INSTALLATION FOR: ONE (1) 24,000 (18/6 SPLIT)/ONE (1) 24,000 (6/12/6 SPLIT) GAL. TANKS	
SCALE: AS NOTED DATE: September 12, 2018 FILE: 01 (24,000) 11005 DRAWN BY: DSA	SCALE: AS NOTED DATE: September 12, 2018 FILE: 01 (24,000) 11005 DRAWN BY: DSA
MATERIAL LIST	
CFG14.1	

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STILLWATER PROJECT #547-020

FREDERICK A. BLECKA
 LICENSE
 No. 50701
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

REVISIONS			
NO.	DATE	REV. BY.	DESCRIPTION
1	09/12/18	MHF	UPDATE GUIDELINES
2	10/19/18	FAB	CLIENT REVIEW
3	12/05/18	FAB	REV. PER CLIENT REVIEW

V# n/a	Store# n/a
Gas Station# n/a	