

# PARTS LEGEND

SECTION 100 – UNDERGROUND TANKS	SECTION 400 – VEEDER ROOT EQUIPMENT	SECTION 800 – BRAVO BOXES
<p>101 – 20,000 GALLON COMPARTMENTAL (124" DIA. X 37'-9 1/4") DOUBLE-WALL FIBERGLASS UNDERGROUND GASOLINE STORAGE TANK (XERKES) 12,000 / 8,000 SPLIT WITH 42" SUMP RISER (EQ 191)</p> <p>101a – 20,000 GALLON (124" DIA. X 37'-8 3/4") DOUBLE-WALL FIBERGLASS UNDERGROUND FUEL STORAGE TANK (XERKES) WITH 42" SUMP RISER (EQ 191)</p> <p>101b – 10,000 GALLON (124" DIA. X 21'-5 1/4") DOUBLE-WALL FIBERGLASS UNDERGROUND FUEL STORAGE TANK (XERKES) WITH 42" SUMP RISER (EQ 191)</p> <p>102 – 10 GA. STEEL WEAR PLATE</p> <p>103 – XERKES PRECAST CONCRETE DEADMEN</p> <p>104 – HOLD DOWN STRAPS BY TANK MANUFACTURER.</p> <p>105 – 18" GALVANIZED TURNBUCKLE ASSEMBLY W/ HOOK ENDS.</p> <p>106 – N/A</p> <p>107 – 8" THICK CONC. PAD W/ 6 X 6 10/10 WIRE REINFORCEMENT. (H-20 LOADING)</p> <p>108 – #5 REBARS @ 8" O.C.E.W. (TYP.)</p> <p>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 XERKES GUIDELINES)</p> <p>110 – 1" THICK COMPRESSIBLE FOAM BOARD (TYP.)</p> <p>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 &amp; PIPING LAYOUT FOR LOCATION.</p>	<p>401 – 305XPA-1200AK MORRISON BROTHERS ATG PROBE 4" ALUMINUM CAP AND BRASS ADAPTER W/ 1.2" THREAD PORT HOLE AND CABLE CONNECTION</p> <p>402 – 848290-022 VEEDER ROOT TLS350 PLUS CONSOLE W/ INTEGRAL PRINTER</p> <p>403 – 329356-002 VEEDER ROOT TLS350R / TLS350 PLUS 4 INPUT PROBE INTERFACE MODULE (EQ 483)</p> <p>404 – 329358-001 VEEDER ROOT TLS350R / TLS350 PLUS 8 INPUT INTERSTITIAL/LIQUID SENSOR INTERFACE MODULE (EQ 483)</p> <p>405 – 794380-208 VEEDER ROOT PIPING SUMP SENSOR W/ 12' CABLE INSTALLED AT LOWEST POINT OF ALL SUMPS</p> <p>406 – 794380-303 VEEDER ROOT DUAL FLOAT HYDROSTATIC SENSOR (EQ 724)</p> <p>407 – 330020-012 VEEDER ROOT UNIVERSAL SENSOR MOUNTING KIT</p> <p>408 – 846390-110 VEEDER ROOT 10'6" 0.1-GPH MAG PLUS PROBE</p> <p>409 – 886100-000 VEEDER ROOT 4" PHASE SEPARATION DETECTING FLOAT KIT W/ 5' CABLE</p> <p>410 – 846400-001 VEEDER ROOT DIESEL MAG PLUS PROBE INSTALLATION KIT W/ 5' CABLE AND 4" FLOAT</p> <p>411 – 330010-425 VEEDER ROOT TLS350R / TLS350 PLUS ETHERNET TCP/IP COMMUNICATIONS INTERFACE MODULE</p> <p>412 – 847490-001 VEEDER ROOT INTERFACE MODULE EXPANSION BOARD</p> <p>413 – OMNI-G11802 OMNI 18/2 GREY 2-CONDUCTOR WIRE - 1000' REEL - (COMMUNICATIONS)</p> <p style="padding-left: 20px;">BELDIN WIRE 88760-18AWG 2-CONDUCTOR WIRE -1000' REEL - (COMMUNICATIONS)</p> <p>414 – 848480 VEEDER ROOT (PLLD) W/O SWIFTCHECK</p> <p>415 – N/A</p> <p>416 – 330893-061 VEEDER ROOT 6 INPUT PRESSURE LEAK DETECTOR MODULE</p> <p>417 – 847490-001 VEEDER ROOT INTERFACE MOULE EXPANSION BOARD</p>	<p>801 – 7252-SOLID-EO-CF-13-NV BRAVO 7000 SERIES WAYNE OVATION NON VAC B12 FIBERGLASS DISPENSER SUMP W/ INTERCHANGEABLE ELECTRIC OFFSET FRAME, (2) FACTORY INSTALLED PRODUCT SHEAR VALVE STABILIZER BRACKETS, AND (2) F-32-TS 3x2 BONDED ENTRY FITTING FACTORY INSTALLED (EQ 727)</p> <p>802 – 7253-SOLID-EO-CF-13-NV BRAVO 7000 SERIES WAYNE OVATION NON VAC B23 FIBERGLASS DISPENSER SUMP W/ INTERCHANGEABLE ELECTRIC OFFSET FRAME, (3) FACTORY INSTALLED PRODUCT SHEAR VALVE STABILIZER BRACKETS, AND (3) F-32-TS 3x2 BONDED ENTRY FITTING FACTORY INSTALLED (EQ 727)</p> <p>803 – N/A</p> <p>804 – N/A</p> <p>805 – N/A</p> <p>806 – FSMS120150 HOSE MASTER FIRE-SHIELD 1.5" X 12" BRAIDED STAINLESS STEEL FLEX CONNECTOR COUPLED 1.5" MALE X 1.5" MALE SWIVEL</p>
<p><b>SECTION 200 – ISLANDS &amp; BOLLARDS</b></p> <p>201 – RIVERSIDE STEEL 3"W X 12"L X 9"H STAINLESS STEEL ISLAND FORM W/6" RADIUS CORNERS</p> <p>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</p>	<p><b>SECTION 500 – SUBMERSIBLE PUMPS &amp; COMPONENTS</b></p> <p>501 – 402731915 FE PETRO ISTMR2-15 2HP VARIABLE SPEED AND LENGTH SUBMERGED TURBINE PUMP - RANGE 90" - 151"</p> <p>502 – 4X155GNRC 4" X 15" BLACK NIPPLE - REAM AND CHAMFER</p> <p>503 – 5874202800 FE PETRO NEW STYLE MAG VFC VER 1.22 CONTROLLER - WITH VERSION 1.22 SOFTWARE</p> <p>504 – 402069901 FE PETRO STPR150-VL2 1.5HP FIXED SPEED, FIXED LENGTH SUBMERGED TURBINE PUMP RANGE 89"-152" (PREMIUM)</p> <p>505 – 403592915 FE PETRO STAPR150-VL2-15 1.5HP FIXED SPEED, FIXED LENGTH SUBMERGED TURBINE PUMP RANGE 89"-152" (DIESEL)</p> <p>506 – 5800300100 FE PETRO STP-DHI 120 VAC ISOLATION RELAY</p> <p>507 – 400137937 FE PETRO A/G COMPATIBLE SIPHON CHECK VALVE ASSEMBLY</p> <p>508 – 184-2500MB MORRISON BROTHERS 4" X 2" X 2" CAST IRON DOUBLE TAP BUSHING</p> <p>509 – 402728915 FE PETRO ISTMR-VS4-VL2-15 4HP VARIABLE SPEED AND LENGTH SUBMERGED TURBINE PUMP - RANGE 90" - 151"</p> <p>510 – 2" GALV. PIPE FOR SIPHON STUBS</p>	<p><b>SECTION 900 – GENERAL</b></p>
<p><b>SECTION 300 – TANK TOP EQUIPMENT</b></p> <p>301 – 65-8012-WC UNIVERSAL 8" ROUND LIMITED ACCESS MONITOR WELL MANHOLE</p> <p>302 – A0716-018C EMCO WHEATON 18" COMPOSITE CAM-LOCK MANHOLE W/ 12" SKIRT</p> <p>303 – A0716-044C EMCO WHEATON 44" COMPOSITE MANHOLE, 10" SKIRT, CAMLOCK. COMPOSITE COVERS TO BE SUPPLIED WITH FACTORY COLORED FINISH AS FOLLOWS:</p> <p style="padding-left: 20px;">WHITE "REGULAR" = A0716-044C-R</p> <p style="padding-left: 20px;">RED "PREMIUM" = A0716-044C-U</p> <p style="padding-left: 20px;">YELLOW "ULTRA LOW SULFUR DIESEL" = A0716-044C-D</p> <p style="padding-left: 20px;">COLOR TBD BY CFG "ETHANOL-FREE" = A0716-004C - WITH "EO" FUEL GRADE ID MARKER</p> <p>304 – 120WTD FAIRFIELD INDUSTRIES 12" WATER TIGHT MANHOLE W/ 12" SKIRT</p> <p>305 – N/A</p> <p>306 – A1004EVR-317G 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: (EQ 524)</p> <p style="padding-left: 20px;">WHITE "REGULAR" = A1004EVR-317G-R - WITH PRODUCT ID TAG (PART #TC-03)</p> <p style="padding-left: 20px;">RED "PREMIUM" = A1004EVR-317G-U - WITH PRODUCT ID TAG (PART #TC-04)</p> <p style="padding-left: 20px;">YELLOW "ULTRA LOW SULFUR DIESEL" = A1004EVR-317G-D - WITH PRODUCT ID TAG (PART #TC-07)</p> <p style="padding-left: 20px;">ORANGE "VAPOR" = A1004EVR-317G-V - WITH PRODUCT ID TAG (PART #TC-21)</p> <p style="padding-left: 20px;">BRONZE "E85 ETHANOL" = A1004EVR-317G-E</p> <p style="padding-left: 20px;">ORANGE/BRONZE "E85 VAPOR" = A1004EVR-317G-EV</p> <p style="padding-left: 20px;">COLOR TBD BY CFG "ETHANOL-FREE" = A1004EVR-317G - WITH PRODUCT ID TAG (PART# TBD)</p> <p>307 – TANK FUEL ID TAG FASTENED TO FILL PIPE RISER WITH CLAMP-MASTER REGULAR ONLY (T-1)</p> <p>308 – N/A</p> <p>309 – FSMS120200 HOSE MASTER FIRE-SHIELD 2" X 12" BRAIDED STAINLESS STEEL FLEX CONNECTOR COUPLED MALE X MALE SWIVEL</p> <p>310 – C/T38 X 50 F.W. WEBB 3/8" X 50' COPPER TUBING</p> <p>311 – A1100EVR-056 EMCO WHEATON GUARDIAN 4" 2-POINT CARB APPROVED ENHANCED OVERFILL PREVENTION VALVE, PHASE I EVR APPROVED W/89" EXTENDED LENGTH UPPER TUBE AND 104" EXTENDED LENGTH LOWER TUBE (EQ 414)</p> <p>312 – 662-440-03 EBW 1.5" DOUBLE POPPET MALE TOP EMERGENCY SHEAR VALVE (REPLACES 662-440-06)</p> <p>313 – A0030-124S EMCO WHEATON 4" BRASS SWIVEL FILL ADAPTER</p> <p>314 – 634TT-7085-EVR OPW 4" ENHANCED TOP SEAL FUEL CAP</p> <p>315 – A0076-124S EMCO WHEATON 4" BRASS VAPOR SWIVEL ADAPTER</p> <p>316 – 1711T-7085-EVR OPW 3" ENHANCED VAPOR RECOVERY VAPOR TOP SEAL CAP</p> <p>317 – 233-4420 OPW 4" X 2" EXTRACTOR FITTING W/O CAGE</p> <p>318 – 233-4430 OPW 4" X 3" EXTRACTOR FITTING W/O CAGE</p> <p>319 – A1004EVR-216SJ EMCO WHEATON 15 GALLON DOUBLE WALL, NPT, NO DRAIN W/ JACKS, CAST IRON COVER SPILL CONTAINER PHASE I EVR APPROVED (ME &amp; VT ONLY). CAST IRON COVERS TO BE SUPPLIED WITH FACTORY POWDER COATED COLOR FINISH AS FOLLOWS:</p> <p style="padding-left: 20px;">WHITE "REGULAR" = A1004EVR-216SJ-R - WITH PRODUCT ID TAG (PART #TC-03)</p> <p style="padding-left: 20px;">RED "PREMIUM" = A1004EVR-216SJ-U - WITH PRODUCT ID TAG (PART #TC-04)</p> <p style="padding-left: 20px;">YELLOW "ULTRA LOW SULFUR DIESEL" = A1004EVR-216SJ-D - WITH PRODUCT ID TAG (PART #TC-07)</p> <p style="padding-left: 20px;">ORANGE "VAPOR" = A1004EVR-216SJ-V - WITH PRODUCT ID TAG (PART #TC-21)</p> <p style="padding-left: 20px;">BRONZE "E85 ETHANOL" = A1004EVR-216SJ-E</p> <p style="padding-left: 20px;">ORANGE/BRONZE "E85 VAPOR" = A1004EVR-216SJ-EV</p> <p style="padding-left: 20px;">COLOR TBD BY CFG "ETHANOL-FREE" = A1004EVR-216SJ - WITH PRODUCT ID TAG (PART# TBD)</p> <p>320 – 723V-3230PW 3" EVR PRESSURE VAC VENT W/2.5" TO 6" WATER COLUMN PRESSURE/6" TO 12" WATER COLUMN VACUUM</p> <p>321 – 23-0033 OPW 2" ALUMINUM TANK VENT-ATMOSPHERIC</p> <p>322 – 116-7085 OPW 4" DURATUFF PIPE CAP</p> <p>323 – COM38 X 14MUN F.W. WEBB 3/8" COMPRESSION X 1/4" MALE NPT BRASS FITTING</p> <p>324 – SA2009101 BOSTON METALS 2" BALL VALVE</p> <p>325 – A1005-517SF EMCO WHEATON 5 GALLON REMOTE FILL DOUBLE WALL GLASS-ON, NO DRAIN, CAST IRON COVER MANHOLE. SS SPILL CONTAINER CAST IRON COVERS TO BE SUPPLIED WITH FACTORY POWDER COATED COLOR FINISH AS FOLLOWS: (EQ 524)</p> <p style="padding-left: 20px;">WHITE "REGULAR" = A1005-517SF-R - WITH PRODUCT ID TAG (PART #TC-03)</p> <p style="padding-left: 20px;">RED "PREMIUM" = A1005-517SF-U - WITH PRODUCT ID TAG (PART #TC-04)</p> <p style="padding-left: 20px;">YELLOW "ULTRA LOW SULFUR DIESEL" = A1005-517SF-D - WITH PRODUCT ID TAG (PART #TC-07)</p> <p style="padding-left: 20px;">ORANGE "VAPOR" = A1005-517SF-V - WITH PRODUCT ID TAG (PART #TC-21)</p> <p style="padding-left: 20px;">BRONZE "E85 ETHANOL" = A1005-517SF-E</p> <p style="padding-left: 20px;">ORANGE/BRONZE "E85 VAPOR" = A1005-517SF-EV</p> <p style="padding-left: 20px;">COLOR TBD BY CFG "ETHANOL-FREE" = A1005EVR-517SF - WITH PRODUCT ID TAG (PART# TBD)</p> <p>326 – A0379-001 EMCO WHEATON REMOTE FILL CAGE ADJUSTABLE NPSM</p> <p>327 – A0079-444 EMCO WHEATON 4"x4"x4" TEE NPT BODY</p> <p>328 – A0031-175 EMCO WHEATON 4"x4"x1.75" RISER EXTENSION</p> <p>329 – 494096 EMCO RISER SEAL (PHASE 1 EVR APPROVED)</p> <p>330 – A7900-004H EMCO WHEATON 4" MALE PIPE PLUG FOR EXTRACTOR TEE</p> <p>331 – 539T0-040QAD MORRISON BROTHERS 4" OPEN TELESCOPIC DIFFUSER</p> <p>332 – A7901-006S EMCO WHEATON 4"x6" NIPPLE WITH MACHINED END</p> <p>333 – A0479-001 EMCO WHEATON DIP STICK PORT FLAPPER</p> <p>334 – 723-4015 UNIVERSAL 4"x15" CONVENTIONAL DROP TUBE FOR STICK PORT RISER</p>	<p><b>SECTION 600 – ENTRY BOOTS &amp; TEST REDUCERS</b></p> <p><del>601 – B-33-D BRAVO 3" DOUBLE SIDED ENTRY BOOT W/COATED STAINLESS STEEL CLAMPS</del></p> <p><del>602 – B-17-D BRAVO 3/4" OR 1" DOUBLE ENTRY BOOT W/ COATED STAINLESS STEEL CLAMPS</del></p> <p><del>603 – TBA 3020 OPW FLEXWORKS 3" X 2" TEST BOOTS W/ TEST PORT</del></p> <p>604 – F-32U-T BRAVO 3" X 2" BONDED PENETRATION FITTING W/ TEST PORT</p> <p>605 – F-07-FF BONDED BRAVO 3/4" CONDUIT PASS THROUGH FITTING</p> <p>606 – F-10-FF BONDED BRAVO 1" CONDUIT PASS THROUGH FITTING</p> <p>607 – F-20-FF BONDED BRAVO 2" PASS THROUGH FITTING</p> <p>608 – F-40-FF-LCX BONDED BRAVO 4" PENETRATION FITTING</p> <p>609 – 44469206 NOV LCX 4" CONTAINMENT TERMINATION FITTING W/ TEST PORT</p> <p>610 – F-43U-T BRAVO 4" X 3" BONDED PENETRATION FITTING W/ TEST PORT</p> <p>611 – B-34-D BRAVO 4" DOUBLE SIDED ENTRY BOOT WITH COATED STAINLESS STEEL CLAMPS</p>	<p><b>SECTION 700 – NOV PIPE &amp; FITTINGS</b></p> <p>701 – 011020-069-1 NOV RED THREAD IIA 2" X 15' FIBERGLASS PIPE</p> <p>702 – 012020-360-4 NOV RED THREAD IIA 2" 90 DEGREE ELBOW</p> <p>703 – 012020-310-4 NOV RED THREAD IIA 2" 45 DEGREE ELBOW</p> <p>704 – 012020-191-4 NOV RED THREAD IIA 2" BELL X MALE ADAPTER</p> <p>705 – 012020-194-4 NOV RED THREAD IIA 2" BELL X FEMALE ADAPTER</p> <p>706 – 012020-410-4 NOV RED THREAD IIA 2" TEE FIBERGLASS</p> <p>707 – 012020-101-8 NOV RED THREAD IIA 2" SLEEVE COUPLING</p> <p>708 – 011030-069-1 NOV RED THREAD IIA 3" X 15' FIBERGLASS PIPE</p> <p>709 – 012030-360-4 NOV RED THREAD IIA 3" 90 DEGREE ELBOW</p> <p>710 – 012030-310-4 NOV RED THREAD IIA 3" 45 DEGREE ELBOW</p> <p>711 – 012030-191-4 NOV RED THREAD IIA 3" BELL X MALE ADAPTER</p> <p>712 – 012030-194-4 NOV RED THREAD IIA 3" BELL X FEMALE ADAPTER</p> <p>713 – 012030-410-4 NOV RED THREAD IIA 3" TEE FIBERGLASS</p> <p>714 – 012030-101-8 NOV RED THREAD IIA 3" SLEEVE COUPLING</p> <p>715 – 012030-231-4 NOV RED THREAD IIA 3" X 2" REDUCER COUPLING</p> <p>716 – 012030-410-3 NOV RED THREAD IIA 3" TEE - SECONDARY CONTAINMENT</p> <p>717 – 120030-101-3 NOV RED THREAD IIA 3" COUPLING - SECONDARY CONTAINMENT</p> <p>718 – 012030-310-3 NOV RED THREAD IIA 3" 45 DEGREE ELBOW - SECONDARY CONTAINMENT</p> <p>719 – 012030-360-3 NOV RED THREAD IIA 3" 90 DEGREE ELBOW - SECONDARY CONTAINMENT</p> <p>720 – 012020-231-4 NOV RED THREAD IIA 2" X 1.5" FEMALE NPT REDUCER BUSHING</p> <p>721 – 44464380 NOV DUALOY 3000/LCX 4" PIPE</p> <p>722 – 012020-180-4 NOV RED THREAD IIA 2" END CAP</p> <p>723 – 22894386 NOV DUALOY 3000/LCX 2" PIPE</p> <p>724 – 33894386 NOV DUALOY 3000/LCX 3" PIPE</p>



**MICHAEL A. TROXELL**  
PROFESSIONAL ENGINEER  
September 11, 2018  
FLORIDA LICENSE NO. 50572  
FLORIDA BUSINESS CREDIT AUTH. NO. 27629



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REVISIONS		
NO.	DATE	REV. BY. DESCRIPTION
1	5/15/19	MTK 90% PLAN SUBMITTAL
2	6/25/19	MTK 100% PLAN SUBMITTAL

V# n/a  
Store# n/a  
Gas Station# n/a  
Sunrise Blvd. &  
NE 4th Avenue  
Fort Lauderdale, FL

**XERKES – DOUBLE WALL FIBERGLASS TANK INSTALLATION FOR:**  
**ONE (1) 20,000/GONE (1) 20,000 (12/8 SPLIT)/ONE (1) 10,000 GAL. TANKS**

**Cumberland**  
CUMBERLAND FARMS, INC.  
100 Crossing Boulevard  
Frammingham, MA 01702

SCALE: AS NOTED  
DATE: January 7, 2015  
FILE: 01 (1)10-020L051.1  
DRAWN BY: T.M.R.

**MATERIAL LIST** **CFG14.1**