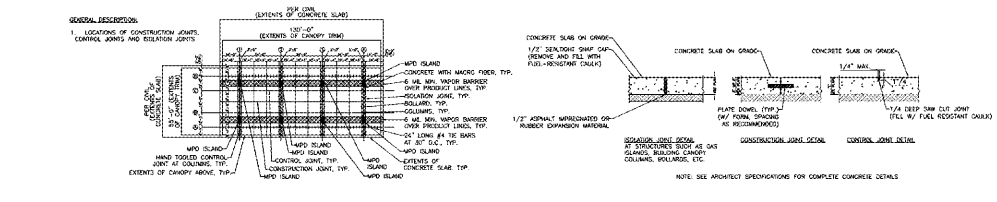
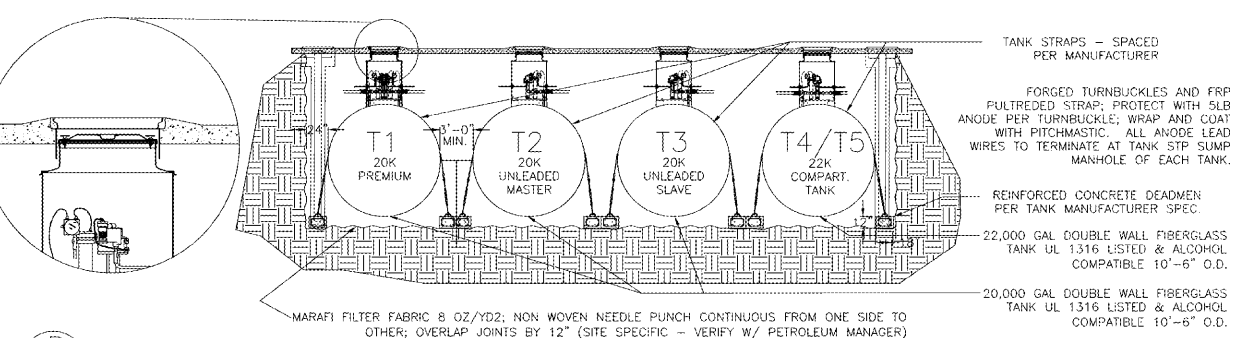


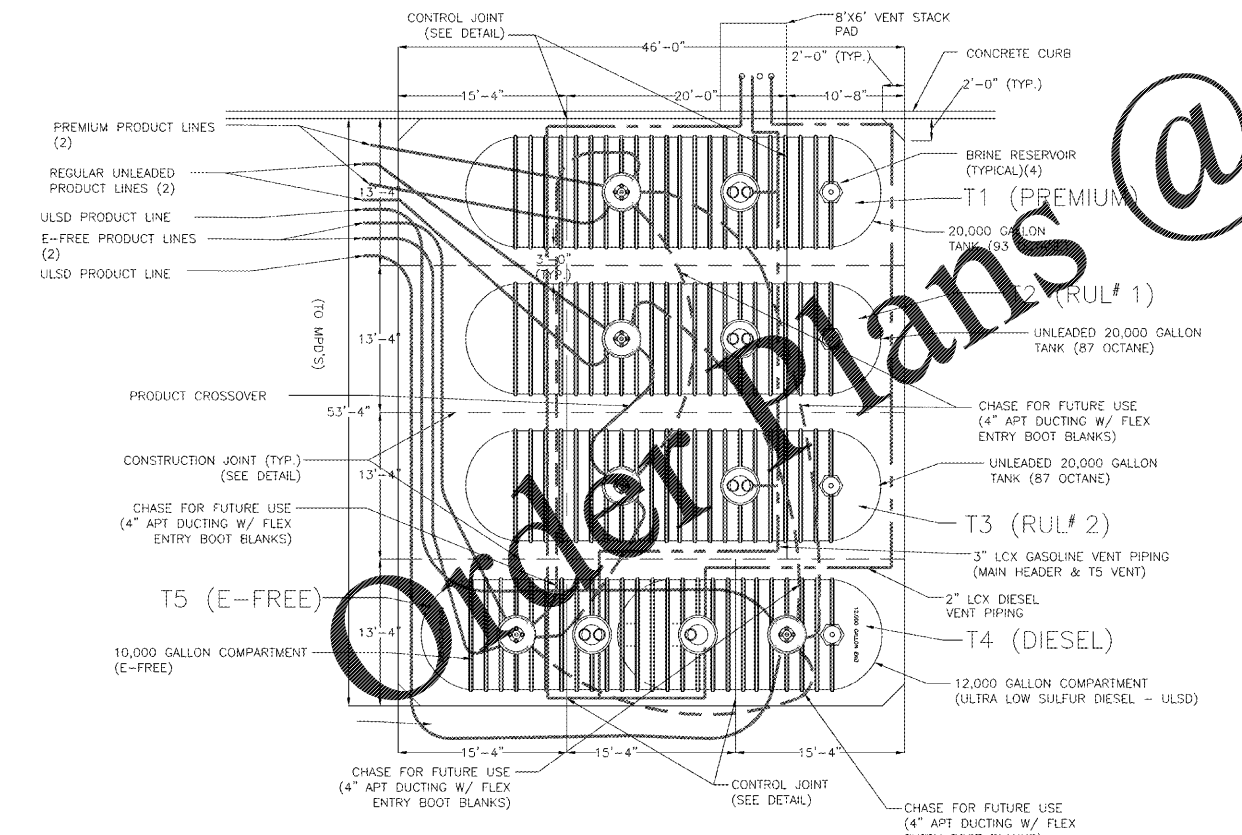
D TANKFIELD REINFORCING DETAIL
G-1 SCALE: 3/16" = 1'-0"



C TYPICAL CANOPY JOINT DETAIL
G-1 SCALE: 3/16" = 1'-0"



B TANK BURIAL
G-1 SCALE: 1/8" = 1'-0"



A TANK FIELD LAYOUT
G-1 SCALE: 1/8" = 1'-0"

ITEM	MANUFACTURE / MODEL	EQ #
TANK		
PRODUCT PIPING		
VENT PIPING		
STP/PIPING SUMP		
DISPENSER SUMP		
RELEASE DETECTION SYSTEM/COMPONENTS		
SPILL CONTAINMENT		
OVERFILL PROTECTION SYSTEM		
LEAK DETECTION SYSTEM		
MECHANICAL LINE LEAK DETECTOR		

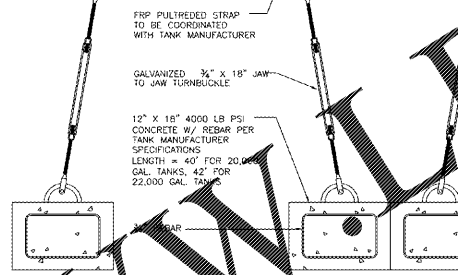
TO BE APPROVED BY FDEP

ITEM	MANUFACTURE / MODEL	EQ #
RELEASE DETECTION SYSTEM		
DISCRIMINATING TANK PUMP SENSORS		
DISCRIMINATING DISPENSER PAN SENSORS		
DUAL FLOAT HYDROSTATIC SENSORS		

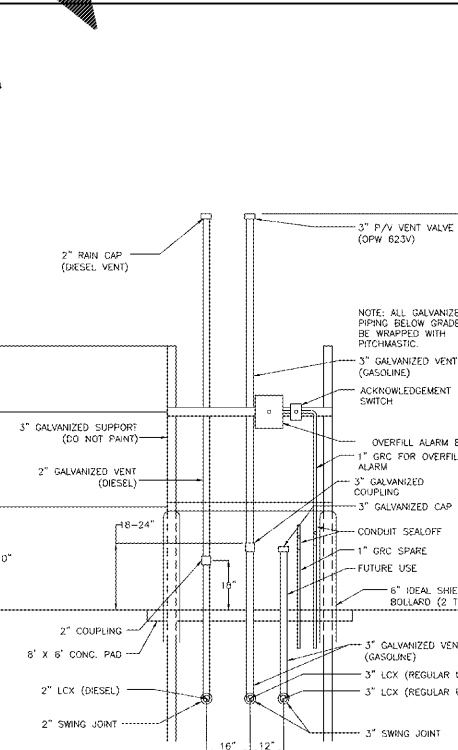
TO BE APPROVED BY FDEP

ITEM	MANUFACTURE / MODEL	CRACKING PRESSURE	
		WATER COLUMN PRESSURE	WATER COLUMN VACUUM
GASOLINE P/V VENT VALVES	TO BE APPROVED BY FDEP	2.5" TO 6"	6" TO 10"

NOTE: ALL FUELING MONITORING SYSTEMS AND EQUIPMENT MUST BE APPROVED BY FDEP.



E TANK HOLD DOWN DETAIL
G-1 SCALE: 1" = 1'-0"



F VENT STACK
G-1 SCALE: 3/8" = 1'-0"

XERXES CORPORATION		DEADMAN BURIAL WATER AT TANK TOP		WAWA - Bohler Engineering	
TANK DATA		INSTALLATION		11/27/19	
NO. CAP (GAL)	22000	TOTAL COVER EXCLUDED SOL. LB	4.50		
TYPE (SINGLEWALL/DOUBLEWALL)	1	TANK WT. (LBS)	9000.00		
FRP WT. (LBS)	1	TANK SLAB THICKNESS (IN)	8.00		
NO. TANK DIA (FT)	10	TANK SLAB LENGTH (FT)	45.00		
FRP STRENGTH (GAL)	0	TANK SLAB WIDTH (FT)	22.00		
SPCC GRADE (LBS)	1.00	DISPERSED (LBS)	42.00		
		FRASER WTD (LBS)	15.00		
		CONCRETE CURB (LBS)	12.00		
		DOWN BURIAL FORCE	1300.00		
SAFETY FACTOR		2.10 : 1			
TOTAL WEIGHTS					
COUNTER WEIGHT	9793.00 LBS				
BACKFILL WEIGHT	22000.00 LBS				
TANK WEIGHT	9000.00 LBS				
PRODUCT WEIGHT	650 LBS				
TOTAL DOWN FORCE		33643.00 LBS			
UP FORCES					
TANK EDP FORCE	12000.00 LBS				
TOTAL UP FORCE		12000.00 LBS			
NET DOWN FORCE		21643.00 LBS			
WORK SHEET					
TANK DATA					
SHELL DIAMETER	10.00 FT	ACTUAL CAP (GAL)	22000.00		
SHELL LENGTH	45.00 FT	TANK WT. (LBS)	9000.00		
COVER THICKNESS	8.00 IN	C.V. (FT)	4.50		
NO. TANK DIA	10	NO. OF TANKS	25.00		
FRP STRENGTH	0	FRASER WTD (LBS)	15.00		
SPCC GRADE	1.00	CONCRETE CURB (LBS)	12.00		
EDP WEIGHT	650.00 LBS	DOWN BURIAL FORCE	1300.00		
REINFORCED CONCRETE VOLUMES (CU. FT)					
TOP SLAB & DEADMAN FORCE	53705.00 LBS				
BACKFILL VOLUMES (CU. FT)					
OVER TANK SHEL	1145.91 CUB. FT				
COVER TANK COVER	301.07 CUB. FT				
COVER EXPOSURE	402.00 CUB. FT				
RSD WEIGHT	171.70 CUB. FT				
SUBTOTAL VOL. (CU. FT)	2020.68 CUB. FT				
TOTAL BACKFILL WEIGHT		32735.36 LBS			
BUOYANCY					
SHELL VOLUME	22785 CUB. FT				
DOWN BURIAL	53705.00 LBS				
SUB VOLUME	2020.68 CUB. FT				
TOTAL VOLUME	24805.68 CUB. FT				
WGT. X 7.8 (GAL. CU. FT)	204736.00 LBS				
FORCE = GAL. X 8.34 (LBS. GAL)		190145.86 LBS			

XERXES CORPORATION		DEADMAN BURIAL WATER AT TANK TOP		WAWA - Bohler Engineering	
TANK DATA		INSTALLATION		11/27/19	
NO. CAP (GAL)	22000	TOTAL COVER EXCLUDED SOL. LB	4.50		
TYPE (SINGLEWALL/DOUBLEWALL)	1	TANK WT. (LBS)	9000.00		
FRP WT. (LBS)	1	TANK SLAB THICKNESS (IN)	8.00		
NO. TANK DIA (FT)	10	TANK SLAB LENGTH (FT)	45.00		
FRP STRENGTH (GAL)	0	TANK SLAB WIDTH (FT)	22.00		
SPCC GRADE (LBS)	1.00	DISPERSED (LBS)	42.00		
		FRASER WTD (LBS)	15.00		
		CONCRETE CURB (LBS)	12.00		
		DOWN BURIAL FORCE	1300.00		
SAFETY FACTOR		2.10 : 1			
TOTAL WEIGHTS					
COUNTER WEIGHT	9793.00 LBS				
BACKFILL WEIGHT	22000.00 LBS				
TANK WEIGHT	9000.00 LBS				
PRODUCT WEIGHT	650 LBS				
TOTAL DOWN FORCE		40843.00 LBS			
UP FORCES					
TANK EDP FORCE	12000.00 LBS				
TOTAL UP FORCE		12000.00 LBS			
NET DOWN FORCE		28843.00 LBS			
WORK SHEET					
TANK DATA					
SHELL DIAMETER	10.00 FT	ACTUAL CAP (GAL)	22000.00		
SHELL LENGTH	45.00 FT	TANK WT. (LBS)	9000.00		
COVER THICKNESS	8.00 IN	C.V. (FT)	4.50		
NO. TANK DIA	10	NO. OF TANKS	25.00		
FRP STRENGTH	0	FRASER WTD (LBS)	15.00		
SPCC GRADE	1.00	CONCRETE CURB (LBS)	12.00		
EDP WEIGHT	650.00 LBS	DOWN BURIAL FORCE	1300.00		
REINFORCED CONCRETE VOLUMES (CU. FT)					
TOP SLAB & DEADMAN FORCE	53705.00 LBS				
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WGT. X 7.8 (GAL. CU. FT)	204736.00 LBS				
FORCE = GAL. X 8.34 (LBS. GAL)		190145.86 LBS			

G BUOYANCY CALCULATIONS
G-1 SCALE: N.T.S.

AS NOTED DCV REK

GASOLINE DETAILS
FLORIDA
TANK DETAILS
(22,000 GALS. COMPARTMENTALIZED TANKS)

BOHLER ENGINEERING
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING, DESIGN, HYDRAULIC SERVICES, TRANSPORTATION SERVICES
RALEIGH, NC
CHARLOTTE, NC
COLUMBIA, SC
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GREENSBORO, NC
HARTFORD, CT
MEMPHIS, TN
NEW YORK, NY
PHOENIX, AZ
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TAMPA, FL
VIRGINIA BEACH, VA

REVISIONS			
REV	DATE	COMMENT	BY

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APPROVED FOR CONSTRUCTION
PROJECT No: FL180067
DRAWN BY: CR
CHECKED BY: CR
DATE: 08/30/18
SCALE: AS NOTED
CAD ID: FT1

PROJECT: **SITE CONSTRUCTION DRAWINGS FOR WAWA**
LOCATION OF SITE
3300 NW 87TH AVENUE
MIAMI, FL

BOHLER ENGINEERING
2255 GLADES ROAD, SUITE 305E
BOCA RATON, FLORIDA 33431
Phone: (561) 571-0280
Fax: (561) 571-0281
FLORIDA BUSINESS CERT. OF AUTH. NO. 29790
10015 CAPE BOULEVARD, SUITE 100, BOCA RATON, FL 33433

CHRISTOPHER CAPELLINI
No. 81025
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/02/19

SHEET TITLE: **TANK DETAILS**
SHEET NUMBER: **G-1**