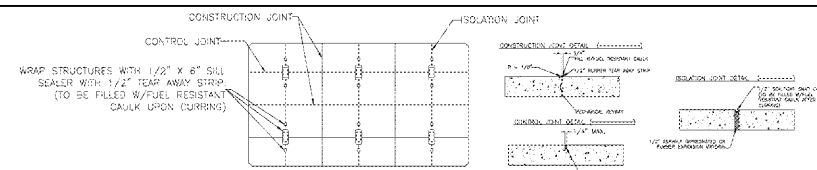
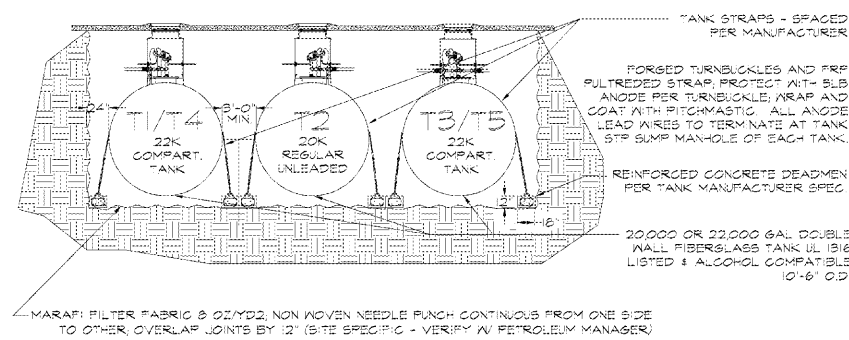


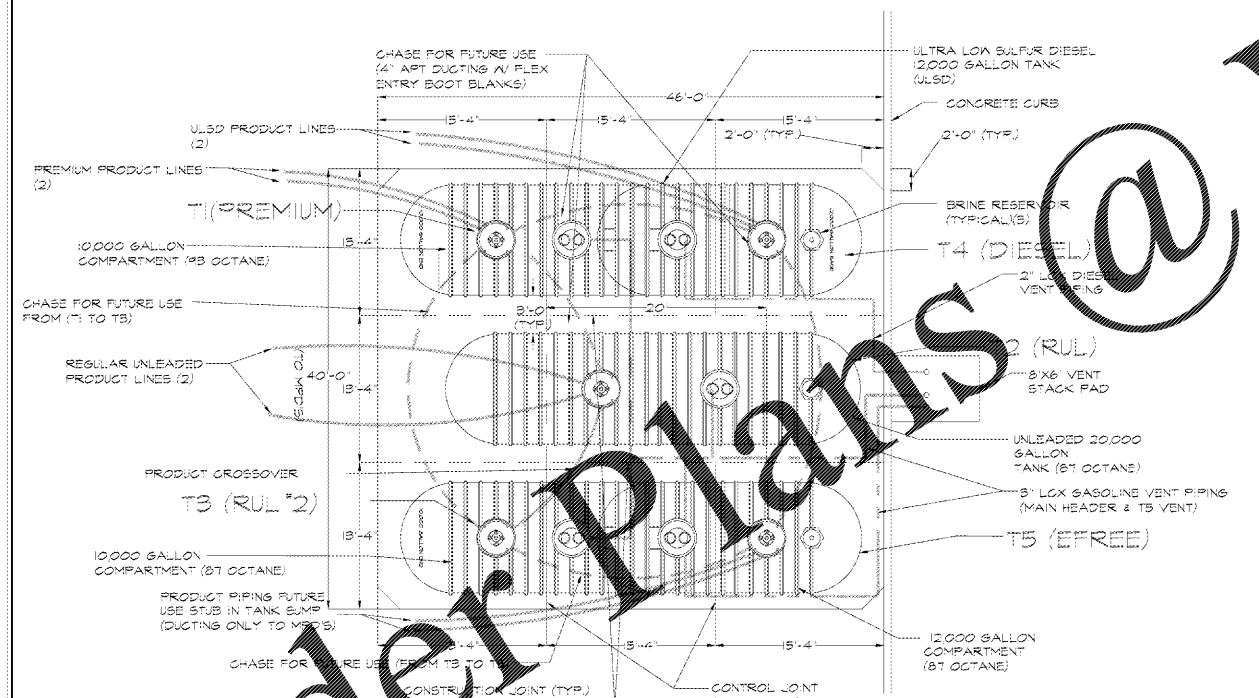
D TANKFIELD REINFORCING DETAIL
 G-1 SCALE: 1/4" = 1'-0"



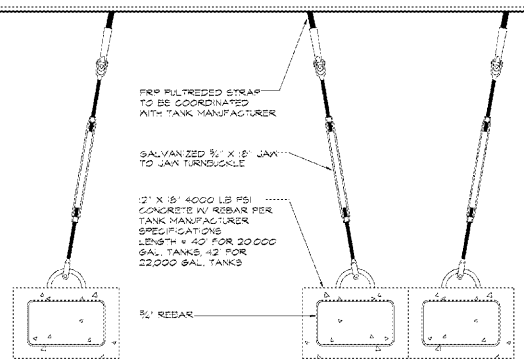
C TYPICAL CANOPY JOINT DETAIL
 G-1 SCALE: NTS



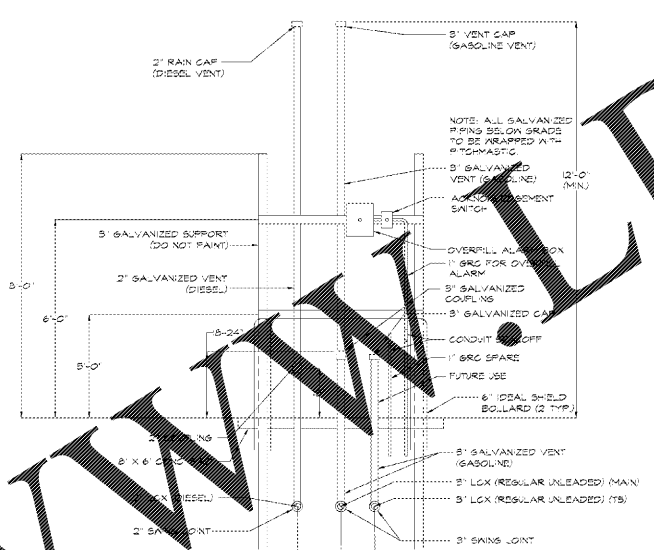
B TANK BURIAL
 G-1 SCALE: 1/8" = 1'-0"



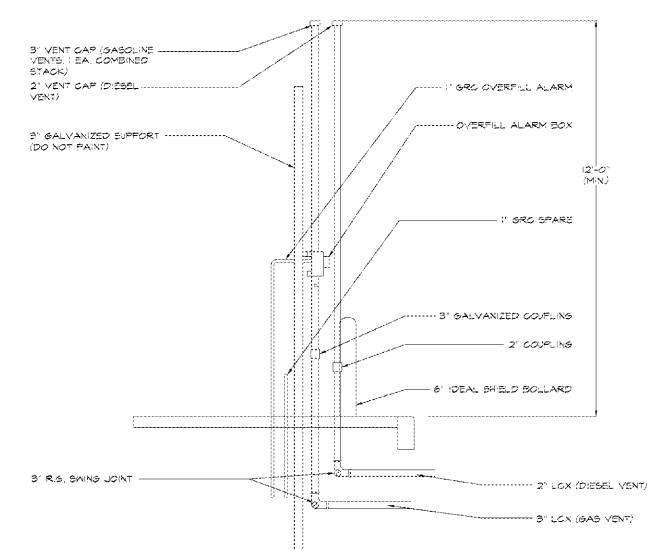
A TANK FIELD LAYOUT
 G-1 SCALE: 1/8" = 1'-0"



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



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



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

DEADMAN BURIAL WATER AT GRADE		WAWA	
TANK DATA		INSTALLATION	
NOM. CAP. (GAL.)	20000 (12k x 8k)	TOTAL COVER INCLUDING SOIL & TOP SLAB (FT)	4.50
TYPE (SINGLEWALL=1/DW=3)	3	TOP SLAB THICKNESS (IN)	8.00
DRY=1; WET=2	2	TOP SLAB LENGTH (FT)	40.00
NOM. TANK DIA. (FT)	10	TOP SLAB WIDTH (FT)	13.00
PROD. STORED (GAL.)	0	DEADMAN LNC (FT)	18.00
SPEC. GRAV. USED	1.00	DEADMAN WID (IN)	12.00
BRINE FIL. (GAL.)	270	DEADMAN THK (IN)	12.00
SAFETY FACTOR		# OF 42" DIAMETER SUMPS	
DOWN FORCE/UP FORCE =	1.51 : 1		
TOTAL WEIGHTS		TOTAL UP FORCE	
CONCRETE WEIGHT	41066.67 LBS.	DEADMEN	120.00
BACKFILL WEIGHT	21999.63 LBS.	DEADMEN	120.00
TANK WEIGHT	11100.00 LBS.	DEADMEN	120.00
PRODUCT WEIGHT	0.00 LBS.	DEADMEN	120.00
TOTAL DOWN FORCE	53166.30 LBS.	TOTAL UP FORCE	272165.30 LBS.
UP FORCES		TOTAL UP FORCE	
TANK DISP. FORCE	80021.73 LBS.	TOTAL UP FORCE	180021.73 LBS.
WORKSHEET			
TANK DATA		ACTUAL CAP (GAL)	
SHELL DIAMETER	10.00 FT. *	TANK WT. (LBS.)	11100.00
SHELL LENGTH	27.77 FT. *	O.A.L. (FT.)	37.77
DOVE PROJECTION	5.80 FT. *	NUMBER OF RIBS	22.00
MID POINT HEIGHT	8.83 FT. *	DEADMAN THK (IN)	12.00
COLUMN HEIGHT	13.83 FT. *	DEADMAN THK (IN)	12.00
RIB VOLUME	2631.00 CU. IN.	DOVE A. (SQ FT)	78.54
		DOVE VOL. (CU. FT)	523.60
REINFORCED CONCRETE VOLUMES (CU. FT.)			
TOP SLAB	346.67	DEADMEN	120.00
FORCE = VOL. X 88 LBS/CF	30496.67	FORCE (LBS) = VOL. X 88 LBS/CF	10560.00
TOP SLAB & DEADMEN FORCE 41066.67 LBS.			
BACKFILL VOLUMES (CU. FT.)			
OVER TANK SHELL	1215.01	OVER DEADMEN	1660.00
OVER TANK DOMES	431.97	END WEDGE	359.67
TOTAL WET VOLUME	3666.84	TOTAL WET VOLUME	21999.63 LBS.
	FORCE = VOL. X 60 LBS/CF		
BUOYANCY			
SHELL VOLUME	2328.65 CUBIC FT.		
DOVE VOLUME	523.60 CUBIC FT.		
RIB VOLUME	33.50 CUBIC FT.		
TOTAL VOLUME	2885.74 CUBIC FT.		
VOL. X 7.48 GAL/CU.FT.	21383.34 GALLONS		
FORCE = GAL X 8.34 (LBS./GAL.)	180021.73 LBS.		

DEADMAN BURIAL WATER AT GRADE		WAWA	
TANK DATA		INSTALLATION	
NOM. CAP. (GAL.)	20000	TOTAL COVER INCLUDING SOIL & TOP SLAB (FT)	4.50
TYPE (SINGLEWALL=1/DW=3)	3	TOP SLAB THICKNESS (IN)	8.00
DRY=1; WET=2	2	TOP SLAB LENGTH (FT)	40.00
NOM. TANK DIA. (FT)	10	TOP SLAB WIDTH (FT)	13.00
PROD. STORED (GAL.)	0	DEADMAN LNC (FT)	18.00
SPEC. GRAV. USED	1.00	DEADMAN WID (IN)	12.00
BRINE FIL. (GAL.)	194	DEADMAN THK (IN)	12.00
SAFETY FACTOR		# OF 42" DIAMETER SUMPS	
DOWN FORCE/UP FORCE =	1.57 : 1		
TOTAL WEIGHTS		TOTAL DOWN FORCE	
CONCRETE WEIGHT	41066.67 LBS.	DEADMEN	120.00
BACKFILL WEIGHT	224301.69 LBS.	DEADMEN	120.00
TANK WEIGHT	8900.00 LBS.	DEADMEN	120.00
PRODUCT WEIGHT	0.00 LBS.	DEADMEN	120.00
TOTAL DOWN FORCE	274288.36 LBS.	TOTAL UP FORCE	175216.07 LBS.
UP FORCES		TOTAL UP FORCE	
TANK DISP. FORCE	175216.07 LBS.	TOTAL UP FORCE	175216.07 LBS.
WORKSHEET			
TANK DATA		ACTUAL CAP (GAL)	
SHELL DIAMETER	10.00 FT. *	TANK WT. (LBS.)	8900.00
SHELL LENGTH	27.73 FT. *	O.A.L. (FT.)	37.73
DOVE PROJECTION	5.80 FT. *	NUMBER OF RIBS	22.00
MID POINT HEIGHT	8.83 FT. *	DEADMAN THK (IN)	12.00
COLUMN HEIGHT	13.83 FT. *	DEADMAN THK (IN)	12.00
RIB VOLUME	2631.00 CU. IN.	DOVE A. (SQ FT)	78.54
		DOVE VOL. (CU. FT)	523.60
REINFORCED CONCRETE VOLUMES (CU. FT.)			
TOP SLAB	346.67	DEADMEN	120.00
FORCE = VOL. X 88 LBS/CF	30496.67	FORCE (LBS) = VOL. X 88 LBS/CF	10560.00
TOP SLAB & DEADMEN FORCE 41066.67 LBS.			
BACKFILL VOLUMES (CU. FT.)			
OVER TANK SHELL	1286.73	OVER DEADMEN	1660.00
OVER TANK DOMES	431.97	END WEDGE	359.67
TOTAL WET VOLUME	3758.36	TOTAL WET VOLUME	224301.69 LBS.
	FORCE = VOL. X 60 LBS/CF		
BUOYANCY			
SHELL VOLUME	2251.61 CUBIC FT.		
DOVE VOLUME	523.60 CUBIC FT.		
RIB VOLUME	33.50 CUBIC FT.		
TOTAL VOLUME	2808.71 CUBIC FT.		
VOL. X 7.48 GAL/CU.FT.	21009.12 GALLONS		
FORCE = GAL X 8.34 (LBS./GAL.)	175216.07 LBS.		

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

GASOLINE DETAILS
 PENNSYLVANIA / VIRGINIA
 TANK DETAILS
 (22,000 GALS. COMPARTMENTALIZED TANKS)



7. 10/15/18	GENERAL REVISION	A.M.T.	J.C.F.	L.D.K.	BY
6. 10/10/18	GENERAL REVISION				
5. 06/02/17	GENERAL REVISION				
4. 04/11/17	GENERAL REVISION				
NO. 1	DATE				

SCALE	DATE	DRAWN BY	CHECKED BY
AS NOTED	4/01/14	DOV	REK

DRAWING NO.	1 OF 5 SHEET NO.
-------------	------------------

Order Plans @

WWW.DIPLINE.COM