

DATE 04/25/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000025745

APPLICANT KEVIN MAY PHONE 904 237-8450
ADDRESS 650 TALLEYRAND AVE JACKSONVILLE FL 32202
OWNER STAFFORD SCAFF PHONE 752-7344
ADDRESS 3519 N HIGHWAY 441 LAKE CITY FL 32024
CONTRACTOR KC PETROLEUM PHONE 904 237-8450
LOCATION OF PROPERTY 441 N & INTERSTATE-10

TYPE DEVELOPMENT TANKS/PIPING ESTIMATED COST OF CONSTRUCTION 127000.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING CHI MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 20.00 REAR 15.00 SIDE 5.00
NO. EX.D.U. 0 FLOOD ZONE NA DEVELOPMENT PERMIT NO.

PARCEL ID 08-3S-17-04909-000 SUBDIVISION
LOT BLOCK PHASE UNIT 0 TOTAL ACRES

Culvert Permit No. Culvert Waiver Contractor's License Number PCC1256768 Applicant/Owner/Contractor
EXISTING P07-152 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE

Check # or Cash 5526

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 635.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 710.00
INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

Revised 9-23-04

710 CK# 5526 1st MESSAGE 4/24/07
80

For Office Use Only Application # 0704-12 Date Received 4/5/07 By GT Permit # Removal - 25744
25745

Application Approved by - Zoning Official BLK Date 29.04.07 Plans Examiner OKJTH Date 4-4-07

Flood Zone N/A Development Permit MA Zoning CHI Land Use Plan Map Category High Intensity

Comments \$20 for 4 tanks (memorable) \$90

Applicants Name : Kevin May Phone 904-693-3200

Address 650 Talleyrand Ave., Jacksonville, FL 32202

Owners Name Stafford L. Scott Jr. Phone 386-752-7344

911 Address 3519 N. Hwy. 441, Lake City, FL 32024

Contractors Name H.C. Petroleum, Inc. Phone 904-693-3200

Address 650 Talleyrand Ave., Jacksonville, FL 32202

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address H.C. Petroleum, Inc. 650 Talleyrand Ave., Jax, FL 32202

Mortgage Lenders Name & Address _____

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 08-35-17-04909-000 Estimated Cost of Construction 127,000.00

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

Driving Directions Go North on 441 at corner of I-10 and 441

Type of Construction Replace existing storage tanks & piping Number of Existing Dwellings on Property 1

Total Acreage _____ Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front _____ Side _____ Side _____ Rear _____

Total Building Height _____ Number of Stories _____ Heated Floor Area _____ Roof Pitch _____

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner/Builder or Agent (Including Contractor) _____

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 4th day of April 2007.
Personally known ✓ or Produced Identification _____

Scott Lumber
Contractor Signature
Contractors License Number ACC 1256768
Competency Card Number _____
NOTARY STAMP/SEAL

Joyce Collison
Notary Signature
JOYCE COLLISON
Notary Public - State of Florida
My Commission Expires Aug 7, 2009
Commission # DD 457577
Bonded By National Notary Assn.

LIMITED POWER OF ATTORNEY

DATE 4-4-07

I hereby name and appoint Kevin May of K.C. Petroleum Inc. my
lawful attorney in fact to act for me and apply to Columbia County
for a Permitting and Pickup for work to be performed at a
location described as:

Parcel # 08-35-17-04909-000

3519 N. Hwy. 441, Lake City, FL 32024
(Address of Job)

S&S Food Stores, 134 S.E. Colburn Ave., Lake City, FL 32025
(Owner of Property and Address)

and to sign my name and do all things necessary to this appointment.

Scott Lamberson

CBC 058001
REC 1256768

Type or Print name of Certified Contractor, License #

Scott Lamberson

Signature of Certified Contractor

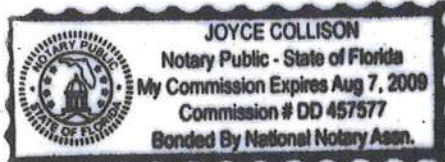
Acknowledged:

Sworn to and subscribed before me this 4th day of April A.D. 2007

Florida

Notary Public, State of

(Seal)



My Commission Expires:

8-7-2009

Joyce Collison

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

***THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.***

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 08-36-17-04909-000

1. Description of property: (legal description of the property and street address or 911 address)

Comm NW Cor of E 1/2 of SW 1/4, Run E 90.5 FT to C/L US-441, Run S Along C/L 1388.07
FT, E 100 FT to E R/W US-441 For POB, Run S Along RD 598.04, W 50 FT, S 198, 28 FT, E 617.44
FT, N 1182.88 FT to S R/W of SE Ramp at I-10, SW + S Along RD 808.92 FT to POB, Being in E 1/2 of
SW 1/4 ORB 534-478, 616-792, 3519 N Hwy 441, Lake City, FL 32024

2. General description of Improvement: Replace existing storage tanks and piping

3. Owner Name & Address STAFFORD L. SCOTT JR., 134 S.E. Colburn Ave., Lake City, FL 32025
Interest in Property OWNER

4. Name & Address of Fee Simple Owner (if other than owner):

5. Contractor Name K.C. Petroleum Inc. Phone Number 904-693-3200

Address 650 Talleyrand Ave., Jacksonville 32202

6. Surety Holders Name N/A

Address

Amount of Bond

7. Lender Name N/A

Address

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By S. Sharon Feagle
Deputy Clerk

Phone Number
Date 04-05-2007



8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida §

Name N/A

Inst: 2007007762 Date: 04/05/2007 Time: 10:05

Address

DC, P. DeWitt Cason, Columbia County B: 1115 P: 2033

9. In addition to himself/herself the owner designate:

_____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

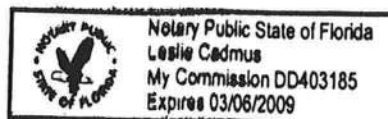
NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Richard L. Scott
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of April 5, 2007

NOTARY STAMP/SEAL



Richard L. Scott
Signature of Notary



2006-2007 OCCUPATION LICENSE TAX

CITY OF JACKSONVILLE/DUVAL COUNTY

MIKE HOGAN, TAX COLLECTOR

231 E FORSYTH STREET ROOM 130 JACKSONVILLE, FL 32202-3370

PHONE: (904) 630-2080 FAX: (904) 630-1432

WEBSITE: www.cofj.net/tc

Note – A penalty is imposed for failure to keep this license exhibited conspicuously at your establishment of place of business. This license is furnished pursuant to chapter 770-772 City ordinance codes.

LAMBERSON, SCOTT M
LAMBERSON, SCOTT M
533 N 0017TH AV
JACKSONVILLE, FL 32250-4815

ACCOUNT NUMBER:

1222080000

LOCATION ADDRESS:

650 TALLEYRAND AV
JACKSONVILLE FL 32202-0000

DESCRIPTION:

QUALIFYING AGENT, CONTRACTORS

COUNTY LICENSE DESC:

QUALIFYING AGENT, CONTRACTORS

MUNICIPAL LICENSE DESC:

MC 772.325

COUNTY TAX:

0.00

MUNICIPAL TAX:

100.00

TOTAL TAX PAID:

100.00

VALID FROM August 1, 2006 TO September 30, 2007

*****ATTENTION*****

THIS LICENSE IS FOR OCCUPATION LICENSE TAX ONLY.
CERTAIN OCCUPATIONS MAY REQUIRE ADDITIONAL STATE LICENSING.

This is an occupation license tax only. It does not permit the licensee to violate any existing regulatory or zoning laws of the County or City. Nor does it exempt the licensee from any other license or permit required by law. This is not a certification of the licensee's qualifications.

Mike Hogan

TAX COLLECTOR

THIS BECOMES A RECEIPT AFTER VALIDATION.

PAID-8322058.0002-0002 Q10 10/04/2006 100.00

AC# 2657358

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L06071400375

DATE

BATCH NUMBER

LICENSE NBR

07/14/2006 060031848

PCC1580013

The BUILDING CONTRACTOR
Named below IS CERTIFIED

Under the provisions of Chapter 489, FS.

Expiration date: AUG 31, 2008

LAMBERSON, SCOTT M

K C PETROLEUM INC

533 17TH AVE N

JACKSONVILLE BEACH

FL 32250

JEB BUSH
GOVERNOR

DISPLAY AS REQUIRED BY LAW

SIMONE MARSTILLER
SECRETARY

AC# 2660558

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L06071500241

DATE

BATCH NUMBER

LICENSE NBR

07/15/2006 060031848

PCC1256768

The POLLUTANT STORAGE SYSTEMS CONTRACTOR
Named below IS CERTIFIED

Under the provisions of Chapter 489, FS.

Expiration date: AUG 31, 2008

LAMBERSON, SCOTT M

K C PETROLEUM INC

533 17TH AVE N

JACKSONVILLE BEACH

FL 32250

JEB BUSH
GOVERNOR

DISPLAY AS REQUIRED BY LAW

SIMONE MARSTILLER
SECRETARY

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

09/08/2006

PRODUCER (904)353-3181 FAX (904)353-5722

Cecil W. Powell & Co.

P.O. Drawer 41490

219 Newnan St.

Jacksonville, FL 32203-1490

INSURED KC Petroleum Inc

P O Box 60742

Jacksonville, FL 32236

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

NAIC #

INSURER A: AM SAFETY RISK RETENTION GRP

INSURER B: Auto Owners Insurance Co

INSURER C: American Safety Indemnity Co

INSURER D: FCCI Insurance Company

10178

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY	ENV010668-06-02	09/11/2006	09/11/2007	EACH OCCURRENCE	\$ 1,000,000
		<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 50,000
		<input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				MED EXP (Any one person)	\$ 5,000
		GEN'L AGGREGATE LIMIT APPLIES PER:				PERSONAL & ADV INJURY	\$ 1,000,000
		<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				GENERAL AGGREGATE	\$ 2,000,000
						PRODUCTS - COMP/OP AGG	\$ 2,000,000
B		AUTOMOBILE LIABILITY	4203213900	09/11/2006	09/11/2007	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
		<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person)	\$
		ALL OWNED AUTOS				BODILY INJURY (Per accident)	\$
		SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident)	\$
		HIRED AUTOS					
		NON-OWNED AUTOS					
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	\$
		<input type="checkbox"/> ANY AUTO				OTHER THAN EA ACC	\$
						AUTO ONLY: AGG	\$
C		EXCESS/UMBRELLA LIABILITY	ENU009058-06-03	09/11/2006	09/11/2007	EACH OCCURRENCE	\$ 2,000,000
		<input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE	\$ 2,000,000
		DEDUCTIBLE					\$
		<input checked="" type="checkbox"/> RETENTION \$ 10,000					\$
D		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	001WC06A42788	05/06/2006	05/06/2007	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER	
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT	\$ 1,000,000
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
						E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
A		OTHER Contractor's Pollution-Written Claims Made Basis	ENV010668-06-02	09/11/2006	09/11/2007	Limits of Liability included in Per Occurrence limit and General Aggregate Shown Above	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER

Columbia County
Building & Zoning
Attention: Janice Williams
P O Drawer 1529
Lake City, FL 32056-1529

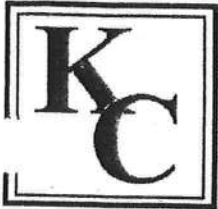
CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Susan Jordan/HJS

Susan Jordan



K.C. Petroleum, Inc.

P.O. Box 60742
Jacksonville, FL 32236
(904) 693-3200
(904) 786-8441



CBC-058001 PCC-1256768

Date: 12/14/06

Richard Scaff
S&S FOOD STORES
134 S.E. COLBURN AVE
LAKE CITY, FL
32025

Job #:
S & S #37 Tank Upgrade
Hwy 441 @ E-10
LAKE CITY, FL

K.C. Petroleum is pleased to provide the following proposal on the above referenced project:

COMBINED MATERIALS & EQUIPMENT

Manufacturer	Description	Quantity	Unit
	Galvinize Pipe and Fittings	1.00	LS
	2" Ball Valve	5.00	EA
	Signs and Decals	1.00	LS
	Vent Stand	1.00	EA
	Petro Fiberglass DPF-42-WT-16 - Tank Sump	1.00	EA
	PetroFiberglass DPT-TA - Mounting Nipple	1.00	EA
	PetroFiberglass DPF-1A W - Advantage Dispenser Sump	4.00	EA
	PetroFiberglass DPF-5B W - H111B Dispenser Sump	1.00	EA
	PetroFiberglass DPF-7W - H111B Dispenser Sump	21.00	EA
	PetroFiberglass DPF-SB - Stabilizer Bar	10.00	EA
	36" x 6" Fabricated Pipe Guards		

FIBERGLASS PIPING & FITTINGS

AO SMITH	3" RED THREAD IIA PIPE	1,300.00	FT
AO SMITH	2" RED THREAD IIA PIPE	1,300.00	FT
AO SMITH	2" RED THREAD IIA FITTINGS (90 ELBOW)	66.00	EA
AO SMITH	2" RED THREAD IIA FITTINGS (45 ELBOW)	33.00	EA
AO SMITH	2" RED THREAD IIA FITTINGS (TEE)	11.00	EA
AO SMITH	2" RED THREAD IIA FITTINGS (SLEEVE)	34.00	EA
AO SMITH	2" BxM Threaded Adapters	9.00	EA
AO SMITH	2x1.5 Female NPT Reducer Bushing	19.00	EA
AO SMITH	3" RED THREAD IIA FITTINGS (90 ELBOW)	5.00	EA
AO SMITH	3" RED THREAD IIA FITTINGS (45 ELBOW)	2.00	EA
AO SMITH	3" RED THREAD IIA FITTINGS (SLEEVE)	2.00	EA
AO SMITH	3" RED THREAD FITTINGS (TEE)	1.00	EA
AO SMITH	3" BxM Threaded Adapter	3.00	EA
AO SMITH	3" 90 Elbow Secondary Cont. Fittings	40.00	EA
AO SMITH	3" 45 Elbow Secondary Cont. Fittings	31.00	EA
AO SMITH	3" Tee Secondary Cont. Fittings	11.00	EA
AO SMITH	3" Sleeve Coupling Secondary Cont. Fittings	32.00	EA

DRESSER

Wayne

FILE COPY

Job #: S & S #317 Tank Upgrade

Proposal, Page #: 2

Date: 12/14/06

^O SMITH	3" to 2" Termination w/ Tap Secondary Cont. Fittings	5.00	EA.
) SMITH	DS-8000 Series Adhesive	110.00	EA

FLEXIBLE PIPING & FITTINGS

OPW Pisces	PCS-300 - 3" FRP Pipe Entry Fitting	23.00	EA.
OPW Pisces	PTB-320 - 3" to 2" Test Boot	19.00	EA.
OPW Pisces	PCEF-751 - Electrical Pipe Entry Fitting	24.00	EA.

STP'S AND LEAK DETECTORS

VAPORLESS	LD-2000 - LEAK DETECTOR	5.00	EA
FE PETRO	STP-DHI - Isolation Relays	2.00	EA
FE PETRO	ISTM 2 - 2HP Variable Speed STP Pump	4.00	EA
FE PETRO	MagVFC - Variable Speed Controller	3.00	EA
FE PETRO	STP33 VL2 - 1/3 HP Sub-Pump	1.00	EA
FE PETRO	STP-DHI-CBS - Isolation Relay w/ Control Box	1.00	EA

SERVICE STATION PRODUCTS

OPW	634TT-7085 - Tight Fill Cap 4"	6.00	EA
OPW	633T-8076 - Fill Cap Adapter	4.00	EA
EMCO WHEATON	A1100-056 - Straight Overfill Drop Tube	6.00	EA
OPW	7111SS-CSDW - 5 Gallon Double-wall Spill Bucket	6.00	EA
OPW	23-0055 - 3" Vent Cap	2.00	EA
OPW	23-0033 - 2" Vent Cap	2.00	EA

FLEX CONNECTORS & SHEAR VALVES

FLEXING	1.5" x 18" Flexhose	19.00	EA
FLEXING	2" x 15" Flexhose	4.00	EA
OPW	10BF-5725 - 1.5 Shear Valve	19.00	EA

MANHOLES & COVERS

POMECO	44CD-PL10 - 44" Composite Manhole	3.00	EA
OPW	104A-1800 - 18" CAST IRON MANHOLE	10.00	EA

OVERFILL PROTECTION

OPW	233-4432 - Vent Extractor Assembly	4.00	EA
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ISLAND FORMS/BUMPERS

PEMCO	3' X 10' X 13" STAINLESS STRAIGHT ISLAND FORM	5.00	EA
PEMCO	36" X 4" PIPE GUARD	10.00	EA

DISPENSING EQUIPMENT & CONSOLE

Incon	T750P/4 - 4-Tank Monitor Kit w/ Printer	1.00	EA
Incon	TSP-ULS - Liquid Sensor	8.00	EA
Incon	TSP-K12 - 2" Riser Interstitial Sensor Cap Kit	2.00	EA
	Freight	1.00	LS

SCOPE OF WORK

Obtain permits for our scope of work.

Remove 1 Gilbarco, five HB-111 dispensers and set aside for reinstall and blow back product lines to each tank.

Remove tank pad, load in dumpsters (Provided by others), excavate, remove and dispose of (4) existing underground storage tanks (Liquids and sludges from the existing underground storage tanks to be billed separate per attached "Exhibit B" with manifest provided for proof of volume)

Install and anchor using concrete deadmen for (3) customer supplied 24,000 gallon double-walled underground storage tanks. (Backfill material provided by others)

Furnish and install all related tank top risers, containment sumps, sub-pumps with leak detectors, vent extractors, fill assemblies and grade level manholes.

Job #: I S & S #37 Tank Upgrade

Proposal, Page #: 3

Date: 12/14/06

Finish and install (4) dispenser sumps with flex hoses, shear valves, pipe entry boots, (4) 3'0" wide x 4" U-shape bumpers gas concession, (5) dispenser sumps with flex hoses, shear valves, entry boots, (5) stainless steel island forms and (4) 3' wide x 6" shop fabricated U-shape bumpers at the diesel concession

Connect dispensers using double-walled fiberglass product piping.

Connect tank vent line using single-wall fiberglass piping.

Install (8) customer furnished dispensers and hanging hardware including the existing removed equipment.

Purge and calibrate dispensers on start-up.

Precision test lines only.

Paint pipe guards BP specification and tank fill boxes to API standard colors.

GLASTEELTM

DOUBLE WALL TANKS

GLASTEELTM

SINGLE WALL TANKS

Underground Storage Containment!



MODERN WELDING
Co., INC.

GLASTEEL^{T.M.} SINGLE WALL

The Ultimate Barrier Against The Elements!

GLASTEEL! It begins with a tank made of high-grade, all-welded steel which, in itself, can handle everything from gasoline, jet and diesel fuels, to the new petroleum products and additives.

The Glasteel process completely clads the original steel tank in a corrosive resistant armor. There is no need for soil resistivity testing, or expensive cathodic protection systems, because even highly corrosive soil will not affect the Glasteel tank. Striker plates on the bottom of the tank are directly beneath all openings. This allows any opening to be used for any purpose.

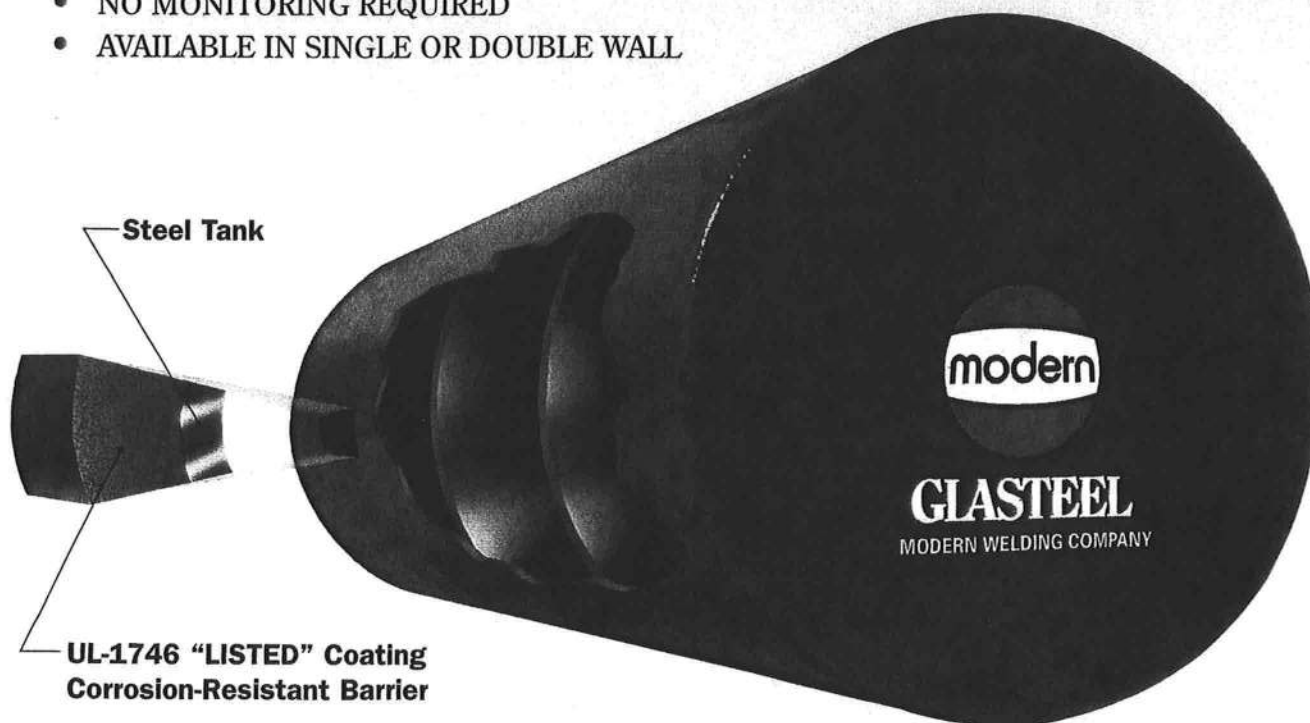
Your Glasteel tank, when completed, will be delivered to you on time, by Modern's own fleet of trucks. Regional delivery could also save on freight charges.

Glasteel tanks are installation friendly and carry a 30-year limited warranty. Tanks comply with the Steel Tank Institute's ACT-100 specifications.

For over seven decades, Modern Welding has been an industry leader in fabricated steel storage tanks. Today with eight tank subsidiaries across the country, we can provide you with fast, efficient service no matter where you are located.

From 550 to 50,000 gallons, tanks may be purchased with compartment bulkheads for multiple fuel storage. Tanks come in single wall and double wall steel constructions with and without containment sumps. Call the nearest Modern subsidiary for competitive pricing and regional service. Visit our website at: www.modweldco.com.

- NO MONITORING REQUIRED
- AVAILABLE IN SINGLE OR DOUBLE WALL



GLASTEEL^{T.M.} DOUBLE WALL

Secondary Containment at its BEST

Double your feeling of security with a Glasteel Double Wall Tank. We know that protecting the environment is, and will continue to be, one of the hottest topics our industry faces during the coming decades. That's why Modern Welding's GLASTEEL DOUBLE WALL is the very finest secondary containment tank available in the market today.

GLASTEEL tanks are built to EPA requirements, Underwriters Laboratories' standards 58 & 1746 and the Steel Tank Institute's ACT-100 specifications. Tanks may be purchased with openings located along the top centerline of tank, or fittings may be grouped for containment within sump collar assemblies . . . choose the configuration right for your installation.

Compatibility

GLASTEEL DOUBLE WALL primary UL steel tank is available with internal linings for the broadest compatibility available with all fuels, including gasoline, jet fuel, diesel fuel, ethanol, neat methanol, M-85, and E-85.

Superior Performance; Easy Installation

- Cathodic protection, dielectric isolation not required.
- GLASTEEL DOUBLE WALL tanks come with Modern Welding's 30-year limited warranty.
- Simple installation procedures; special backfill not required to maintain structural integrity.

Modern Welding... Quality and Leadership.

Phone: (270) 685-4400 • Fax: (270) 684-6972

1 800 922 1932

DOUBLE WALL CONTAINMENT



MODERN WELDING
Co., Inc.



MODERN WELDING CO., INC.

Corporate Offices

2880 New Hartford Road • Owensboro, KY 42303

Phone: 270-685-4400 • Fax: 270-684-6972

www.modweldco.com • E-mail: modern@modweldco.com

1 800 922 1932

Manufacturing Subsidiaries

Modern Welding Co. of Owensboro, Inc.

1450 E. Parrish Ave.
Owensboro, Kentucky 42303
Phone: 270-683-5323
Fax: 270-684-5245
modern1@modweldco.com

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Phone: 740-344-9425
Fax: 740-344-6018
modern5@modweldco.com

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Phone: 407-843-1270
Fax: 407-423-8187
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715 Sakowitz St.
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Phone: 713-675-4211
Fax: 713-673-4062
modern7@modweldco.com

200 N. Main St.

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Fax: 817-636-2680
modern15@modweldco.com

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2818 Mt. Pleasant Rd.
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Phone: 319-754-6577
Fax: 319-754-8428
modern8@modweldco.com

Modern Welding Co. of California, Inc.

4141 N. Brawley Ave.
Fresno, California 93722
Phone: 559-275-9353
Fax: 559-275-4381
modern10@modweldco.com

Modern Welding Co. of Georgia, Inc.

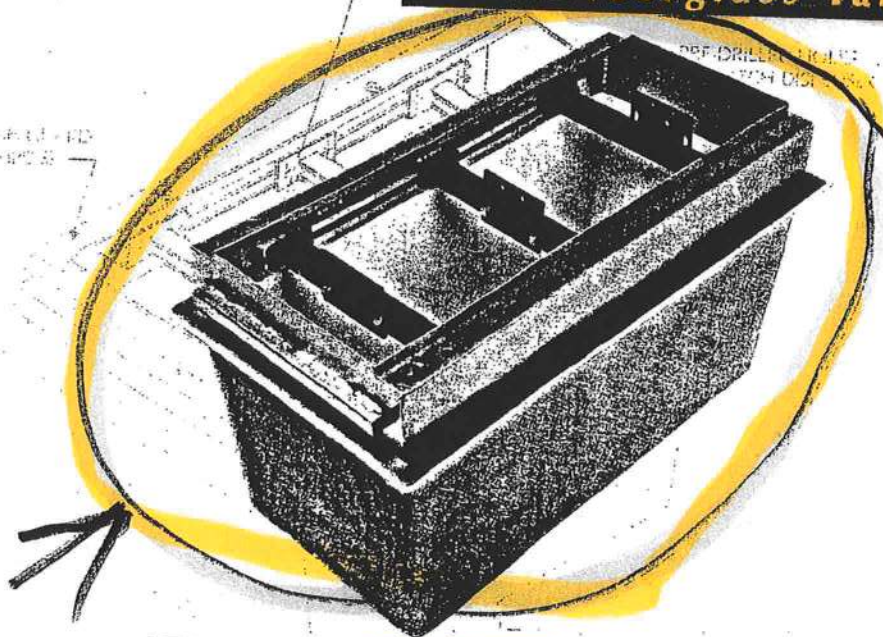
300 Prep Phillips Dr.
Augusta, Georgia 30901
Phone: 706-722-3411
Fax: 706-724-8133
modern14@modweldco.com



PETRO FIBERGLASS INC.



Fiberglass Tank Sump



Fiberglass Dispenser Sump

Petro
FIBERGLASS, INC.

The Fiberglass Advantage

Petro

FIBERGLASS SUMPS

PRODUCT & INSTALLATION DATA

Fiberglass Tank & Dispenser Sumps

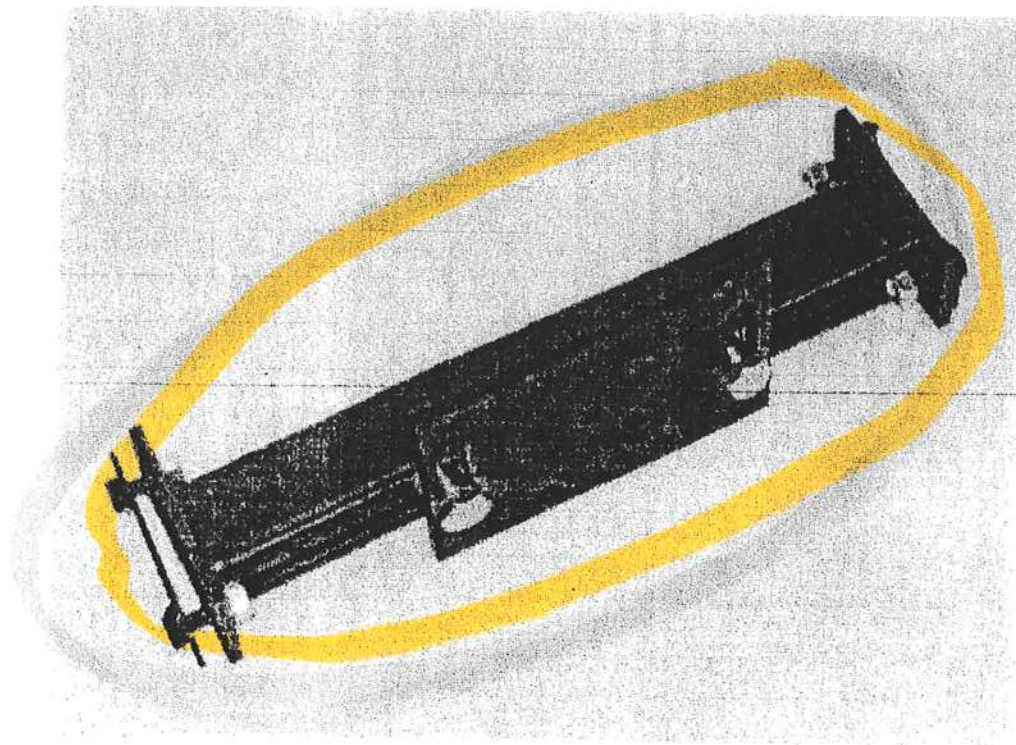
Petro Fiberglass Sumps offers fiberglass reinforced dispenser sumps and tank sumps which are designed to provide secondary containment for underground fuel systems. The sumps are manufactured for compatibility with piping systems. Both dispenser sumps and tank sumps are constructed of Isophthalic Polyester resin and 100% fiberglass reinforcement. These materials provide excellent chemical resistance to oxygenated fuels, alcohol blended fuels, and petroleum products. Stiffer than polyethylene, these stronger materials also resist soil and hydraulic forces in the buried environment resulting in fewer ecological clean-ups.

DISPENSER SUMPS

Dispenser sumps are available in a wide range of sizes to accommodate single, dual, and multi-product dispensers (MPD's).

- Dispenser sumps protect primary piping connections and the environment.
- Stabilizer bar kits with mounting plates are ordered with all Petro Fiberglass dispenser sumps.
- Both fiberglass and flexible entry fittings are available, from third party suppliers, for pipe entries.
- Mounting frame is independently tested for corrosion and impact.

STABILIZER BAR KIT



1-501-568-4000
Fax 1-501-568-4465 .62

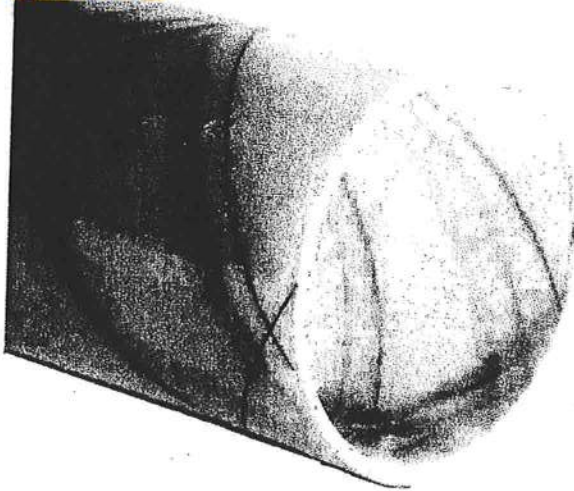
Fiber Glass Systems™

Bulletin No. B2193
November 1, 2006

STAR · SMITH · FIBERCAST

SMITH FIBERCAST PETROLEUM MARKETING Suggested Price Schedule

PIPING



RED THREAD® IIA Primary Piping - All pipe is supplied spigot x spigot ends in 15-ft., 22-25 ft. or 26-30 ft. random lengths. RED THREAD IIA primary pipe is UL/ULC Listed.

ALL PRICES - U.S. DOLLARS

Nominal PIPE SIZE	PART NUMBER	PIPE LENGTH	PRICE PER FOOT	WEIGHT	LENGTHS PER BUNDLE
2"	011020-069-1	15'	3.90	0.4	8
2"	011020-069-2	22-25'	3.90	0.4	8
2"	011020-069-3	26-30'	3.90	0.4	8
3"	011030-069-1	15'	5.90	0.8	6
3"	011030-069-2	22-25'	5.90	0.8	6
3"	011030-069-3	26-30'	5.90	0.8	6
4"	011040-071-1	15'	7.50	1.0	4
4"	011040-069-2	22-25'	7.50	1.0	4
4"	011040-071-3	26-30'	7.50	1.0	4

RED THREAD® IIA Secondary Containment Piping - All pipe is supplied plain end in 15-ft., 22-25 ft., or 26-30 ft. random lengths. Secondary Containment piping & fittings in 3" and 4" sizes are UL/ULC Listed. Note: 6" pipe and fittings are not UL/ULC Listed.

NON PIPE SIZE	PART NUMBER	PIPE LENGTH	PRICE PER FOOT	WEIGHT	LENGTHS PER BUNDLE
3"	011030-069-4	15'	5.90	0.8	6
3"	011030-069-5	22-25'	5.90	0.8	6
3"	011030-069-6	26-30'	5.90	0.8	6
4"	011040-077-5	15'	7.50	1.0	4
4"	011040-069-5	22-25'	7.50	1.0	4
4"	011040-077-6	26-30'	7.50	1.0	4
6"	011060-120-5	15'	13.50	2.4	2
6"	011060-120-4	22-25'	13.50	2.4	2
6"	011060-120-6	26-30'	13.50	2.4	2

PRIMARY FITTINGS



90° PRIMARY ELBOW, belled ends

SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2"	012020-360-4	34.30	1.2	20
3"	012030-360-4	46.80	2.3	12
4"	012040-360-4	65.80	3.3	6

FLANGE, belled end				
SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2"	012020-170-4	28.20	1.3	16
3"	012030-170-4	33.30	2.6	8
4"	012040-170-4	38.40	3.6	6



45° PRIMARY ELBOW, belled ends

SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2"	012020-310-4	34.30	0.9	20
3"	012030-310-4	46.80	1.6	15
4"	012040-310-4	59.00	2.4	6

SLEEVE COUPLING, belled ends				
SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2"	012020-101-8	10.20	1.2	25
3"	012030-101-8	15.30	2.3	12
4"	012040-101-4	21.20	3.3	5

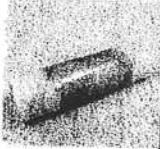


TEE, belled ends

SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2"	012020-410-4	49.70	1.9	12
3"	012030-410-4	54.80	3.6	6
4"	012040-410-4	71.90	4.9	4



END CAP				
SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2"	012020-180-4	42.00	1.4	16





NIPPLE, tapered both ends			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
2" x 4"	012020-004-5	5.90	25
2" x 6"	012020-006-5	6.60	25
2" x 8"	012020-008-5	7.20	25
2" x 10"	012020-010-5	8.50	12
2" x 12"	012020-012-5	9.40	12
3" x 6"	012030-006-5	7.20	12
3" x 8"	012030-008-5	7.30	9
3" x 10"	012030-010-5	9.40	5
3" x 12"	012030-012-5	10.80	5
4" x 6"	012040-006-4	9.20	9
4" x 8"	012040-008-4	9.40	6
4" x 10"	012040-010-4	10.70	4
4" x 12"	012040-012-4	12.60	4


THREADED ADAPTER				
SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
Bell x Male				
2"	012020-191-4	15.00	0.3	25
3"	012030-191-4	28.20	0.6	12
4"	012040-191-4	31.80	1.0	9
Bell x Female				
2"	012020-194-4	15.00	0.3	25
3"	012030-194-4	28.20	0.5	12
4"	012040-194-4	31.80	0.5	8
Spigot x Male				
2"	012020-192-4	15.00	0.3	25
3"	012030-192-4	28.20	0.6	12
4"	012040-192-4	31.80	1.0	8
Spigot x Female				
2"	012020-195-4	15.00	0.3	25
3"	012030-195-4	28.20	0.5	12
4"	012040-195-4	31.80	0.6	8

REDUCER BUSHING				
SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
*2" x 1"	012020-233-4	22.40	0.4	20
*2" x 1 1/4"	012020-232-4	22.40	0.1	20
*2" x 1 1/2"	012020-231-4	22.40	0.1	20
3" x 2"	012030-231-4	23.30	0.8	24
4" x 3"	012040-231-4	29.90	1.0	9

* Reduced opening has female NPT threads.

SADDLE, female NPT				
SIZE	PART NUMBER	PRICE	WEIGHT	PARTS PER BOX
2" x 1 1/2"	012020-516-4	35.10	0.5	1




SUMP FITTINGS



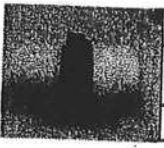
SUMP ENTRY/TERMINATION FITTING			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
Bonded(1 Port, 3 Tapered Rings)			
3"	012030-626-0	157.70	1
4"	012040-626-0	194.00	1
Gasketed(1 Port)			
3"	012030-620-0	212.30	N/A
4"	012040-620-0	303.20	N/A

CONCENTRIC REDUCER			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
4" x 3"	012040-238-3	34.90	15
5" x 4"	012050-238-3	72.80	10



4" x 3" Concentric Reducer must be ordered when using 3" sump entry/termination fitting.

5" x 4" Concentric Reducer must be ordered when using 4" sump entry/termination fitting.




SUMP ADAPTER			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-610-1	92.40	N/A

Note: 3" x 2" Termination Fitting may be used with 3" sump adapter:

TAP	PART NUMBER	PRICE	PARTS PER BOX
With 3/4" NPT Tap	012030-236-3	103.00	12
Without Tap	012030-235-3	55.60	10

SECONDARY CONTAINMENT FITTINGS



90° ELBOW			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-360-3	49.20	10
4"	012040-360-3	95.20	5
6"	012060-360-9	289.20	N/A



45° ELBOW			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-310-3	49.20	10
4"	012040-310-3	95.20	5
6"	012060-310-9	279.90	N/A



TEE			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-410-3	72.20	10
4"	012040-410-3	118.80	5
6"	012060-410-9	332.10	N/A



SLEEVE COUPLING			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-101-3	42.20	10
4"	012040-101-3	92.00	5
6"	012060-101-9	251.80	N/A



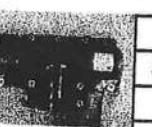
SLEEVE COUPLING, one-piece, Scarfed O.D.			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
2"	012020-101-9	20.80	25
3"	012030-101-9	22.80	12
4"	012040-101-9	28.80	5



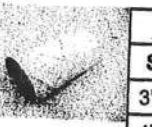
THREADED ADAPTER, Bell x Male, Scarfed O.D.			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
2"	002020-191-7	18.00	25
3"	002030-191-7	31.40	12
4"	002040-191-7	36.40	9



CROSSOVER 45° ELBOW			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-311-3	57.50	10
4"	012040-311-3	97.80	5



CROSSOVER TEE			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3"	012030-411-3	74.40	10
4"	012040-411-3	120.30	5



CROSSOVER NIPPLE			
SIZE	PART NUMBER	PRICE	PARTS PER BOX
3" x 6"	012030-006-7	8.00	12
4" x 6"	012040-006-7	9.30	9
6" x 8"	012060-008-7	14.20	N/A

TERMINATION FITTING			
SIZE	PART NUMBER	PRICE	PARTS PER BOX

With 3/4" NPT Tap

3" x 2"	012030-236-3	103.00	12
4" x 3"	012040-236-3	134.80	8
6" x 4"	012060-234-7	285.40	N/A

Without Tap

3" x 2"	012030-235-3	55.60	10
4" x 3"	012040-235-3	103.00	15
6" x 4"	012060-235-7	251.80	N/A



SADDLE			
SIZE	PART NUMBER	PRICE	PARTS PER BOX

Belled Outlet

3" x 2"	012030-521-4	47.00	1
4" x 2"	012040-521-4	53.10	1
4" x 3"	012040-531-4	63.90	1

Female NPT Outlet

3" x 1"	012030-511-4	34.80	1
3" x 1 1/4"	012030-512-4	34.80	1
3" x 1 1/2"	012030-516-4	34.80	1
4" x 1"	012040-511-4	35.10	1
4" x 1 1/4"	012040-512-4	35.10	1
4" x 1 1/2"	012040-516-4	35.10	1



REDUCER BUSHING, Scarfed O.D.			
SIZE	PART NUMBER	PRICE	PARTS PER BOX

3" x 2"	012030-231-7	18.80	24
4" x 3"	012040-231-7	26.30	9

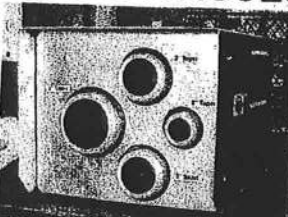


CENTRALIZER			
SIZE	PART NUMBER	PRICE	PARTS PER BOX

2" x 3"	013020-650-3	12.70	N/A
3" x 4"	013030-651-4	13.80	N/A
4" x 6"	013040-650-6	16.00	N/A



TOOLS & ACCESSORIES

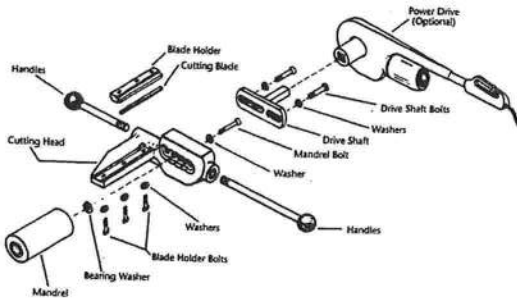


POWER TOOLS			
DESCRIPTION	PART NUMBER	PRICE	SIZE
Model 2100 Taper/Scarf	005990-795-0	1,771.70	110V
Model 2100-I Taper/Scarf	005990-797-0	2,039.60	220/240V 50 cycle
Model 2102 Taper/Scarf	005990-790-0	2,063.90	110V
Model 2102-I Taper/Scarf	005990-780-0	2,160.90	220/240V 50 cycle



T.A.B JOINT WRENCH SETS			
SIZE	PART NUMBER	PRICE	PRICE (TWO WRENCH SET)
2"	005990-712-0	193.50	387.00
3"	005990-713-0	205.60	411.20
4"	005990-714-0	217.80	435.60
6"	005990-716-0	269.60	539.20

MANUAL TOOLS & ACCESSORIES



MANUAL TOOLS		
DESCRIPTION	PART NUMBER	PRICE
2" - 4" Manual Tapering Tool	005990-800-0	569.65
Cutting Head Kit	005990-810-0	336.00
Power Adapter for Cutting Head	005990-813-0	58.80
Adapter Block for 1" & 1 1/2"	005990-812-0	74.55
Adapter Kit for 1" & 1 1/2"	005990-811-0	211.05
Scarfing Adapter Kit for 3" & 4" Secondary Containment Pipe	005990-915-0	109.75
Scarfing Adapter Kit for 6" Secondary Containment Pipe	005990-922-1	148.60
1" Mandrel	005990-820-0	57.75
1 1/2" Mandrel	005990-821-0	70.90
2" Mandrel	005990-822-0	85.60
3" Mandrel	005990-823-0	122.35
4" Mandrel	005990-824-0	138.60
6" Mandrel	005990-825-0	212.65
Tapering Blade for 1" - 6" Tool	005990-814-0	3835
Scarfing Blade for Secondary Containment	005990-916-0	71.40
Blade Holder for Secondary Containment Blade	005990-917-0	73.50

SECONDARY CONTAINMENT GAUGE NIPPLES

SIZE	PART NUMBER	PRICE
3"	012030-050-0	6.10
4"	012040-050-0	7.30
6"	012060-120-0	18.80

ELECTRIC HEATING COLLARS

SIZE	PART NUMBER	PRICE	SIZE
2"	005990-502-0	106.00	110V
3"	005990-503-0	122.25	110V
4"	005990-504-0	136.00	110V
6"	005990-505-0	168.00	110V
2"	005990-502-1	149.85	240V
3"	005990-503-1	184.10	240V
4"	005990-504-1	215.05	240V
6"	005990-505-1	264.85	240V

SMITH HEAT PACK

SIZE	PART NUMBER	PRICE	PACKAGING
2"	005990-400-1	6.40	20/case
3"	005990-401-1	8.70	18/case
4"	005990-402-1	11.00	16/case
6"	005990-403-1	14.60	12/case

ADHESIVES

DESCRIPTION	PART NUMBER	PRICE	SIZE	PACKAGING
7014	002990-000-0	16.50	6.8 oz.	10/Box
7024	002990-040-0	22.10	2.5 oz. Twin Pack	10/Box
7069	002990-030-0	22.10	9.95 oz.	10/Box
8014	002990-000-0	16.50	6.4 oz.	10/Box
8024	002990-050-0	22.10	2.7 oz. Twin Pack	10/Box
8055	002990-020-0	11.70	1.6 oz. Small Pack	20/Case
8069	002990-033-0	22.10	9.3 oz.	10/Box
FILLER				
7014-8014	002990-004-0	2.80	For Secondary Containment	50/Case
7069-8069	002990-033-0	2.80	For Secondary Containment	50/Case
SOLVENT				
Trichloroethylene	002990-008-0	10.50	12 oz.	12/Case

UL TRAINING KIT	PART NUMBER	PRICE
4-Person Training Kit	012030-000-2	330.80

- 1 Each - 8024 Kit
- 2 Each - 2" 90° Elbows, 3" S.C. Couplings, 8014 Kit, 8014 Filler Kits
- 4 Each - 2" x 12" Plain End Pipe & 3" x 12" Plain End Pipe, B2160

MINIMUM ORDER - Total Quantity \$250.00

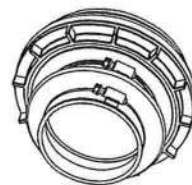
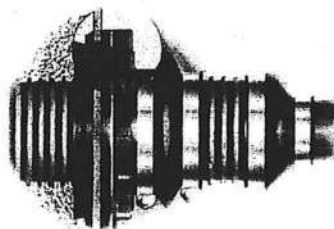
NOTE: MINIMUM ORDER TO RECEIVE DISCOUNT IS \$500.00

TERMS - F.O.B. Origin. A maximum of one pipe per bundle factory coupled lengths (joiners) may be shipped. All shipments will be to the nearest random length and billings will be made to the nearest foot shipped. Prices subject to change without notice. All sales subject to Fiber Glass Systems General Terms and Conditions of Sale.

FIBER GLASS SYSTEMS • A NATIONAL OILWELL VARCO COMPANY
2700 W. 65th ST., LITTLE ROCK, AR 72209 • 501-568-4010 • FAX 501-568-4465
25 S. MAIN ST., SAND SPRINGS, OK 74063 • 918-245-6651 • FAX 918-245-7566

PISCES™ CONICAL SEAL ENTRY FITTINGS

PISCES™ Conical Seal Entry Fittings are installed in sump walls to seal the entry of fuel pipes, conduits, and vapor pipes. Conical seal fittings require a single entry hole to be cut in the sump wall for installation, and can be replaced without excavation from inside the sump if installed with a PISCES™ Backfill Guard.

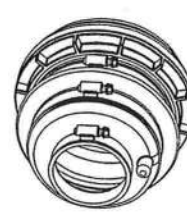
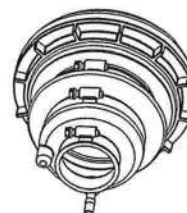


Ordering Specifications

Model No.	Conical Seal Pipe Entry Fittings	Nominal Boot ID.	Hole Saw Required	Weight lbs.	kg.	Packaging
CS-400	4" PISCES™ AP40 Access/Containment or 4" FRP Pipe Entry Fitting	4 1/8"	HS-600 (6")	1.5	0.7	6/box
CS-300	3" PISCES™ AP30 Access/Containment or 3" FRP Pipe Entry Fitting	3 1/8"	HS-600 (6")	1.5	0.7	6/box
CS-200	2" PISCES™ CP20 Double-Wall Primary Pipe Entry Fitting	2 1/8"	HS-600 (6")	1.5	0.7	6/box
CS-200F	2" FRP Pipe Entry Fitting	2 1/8"	HS-500 (5")	1.5	0.7	6/box
CS-150	1 1/2" PISCES™ CP15 Double-Wall Pipe Entry Fitting	2"	HS-500 (5")	1.3	0.6	6/box
CS-100	1" Rigid Conduit Entry Fitting	1 1/8"	HS-375 (3 3/4")	1.3	0.6	6/box
CS-075	3/4" Rigid Conduit Entry Fitting	1 1/8"	HS-375 (3 3/4")	1.3	0.6	6/box

Conical Seal Entry Fittings With Integral Test Boots

Integral Test Boots provided on these fittings isolate the interstitial space between the primary and secondary pipes for air testing. A test port is provided for use with the LTK-36 Secondary Line Test Kit, and an optional air test valve is available.



Ordering Specifications

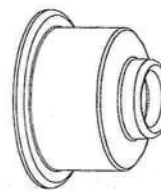
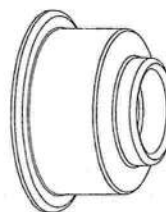
Model No.	Conical Seal Pipe Entry Fittings	Nominal Boot ID.	Hole Saw Required	Weight lbs.	kg.	Packaging
CS-420	4" PISCES™ AP40 Access/Containment or 4" FRP Pipe Entry Fitting with Test Boot for 2" PISCES™ or FRP Primary Pipe	2 1/8"	HS-600	1.5	0.7	6/box
CS-420A	4" PISCES™ AP40 Access/Containment or 4" FRP Pipe Entry Fitting with Test Boot with Air Stem for 2" PISCES™ or FRP Primary Pipe	2 1/8"	HS-600	1.5	0.7	6/box
CS-415	4" PISCES™ AP40 Access/Containment Pipe Entry Fitting with Test Boot for 1 1/2" PISCES™ Primary Pipe	2"	HS-600	1.5	0.7	6/box
CS-415A	4" PISCES™ AP40 Access/Containment Pipe Entry Fitting with Test Boot with Air Stem for 1 1/2" PISCES™ Primary Pipe	2"	HS-600	1.5	0.7	6/box
CS315	3" PISCES™ AP30 Access/Containment Pipe Entry Fitting with Test Boot for 1 1/2" PISCES™ Primary Pipe	2"	HS-600	1.5	0.7	6/box
CS-315A	3" PISCES™ AP30 Access/Containment Pipe Entry Fitting with Test Boot with Air Stem For 1 1/2" PISCES™ Primary Pipe	2"	HS-600	1.5	0.7	6/box

Conical Seal Entry Fitting Backfill Guards

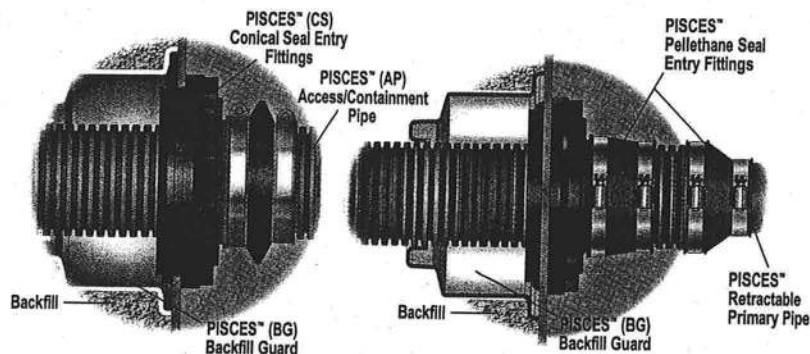
Backfill Guards are installed with conical seal fittings and enable the fittings to be replaced without excavation from inside the pump.

Ordering Specifications

Model No.	Used with Fittings	Weight lbs.	kg.	Packaging
BG-400	CS-400 Series	1	0.5	6/box
BG-300	CS-300 Series	1	0.5	6/box
BG-200	CS-200	1	0.5	6/box
BG-200F	CS-200F	1	0.5	6/box
BG-150	CS-150	1	0.5	6/box
BG-100	CS-100	0.5	0.2	6/box
BG-075	CS-075	0.5	0.2	6/box

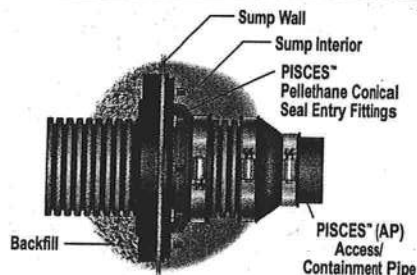


PISCES™ Entry Fittings



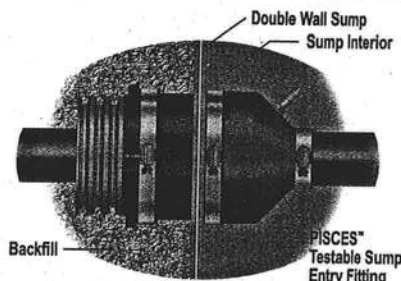
PISCES™ Conical Seal Entry Fittings

PISCES™ Conical Seal Entry Fittings provide a reliable seal for piping and conduit entries through containment sump walls, and are engineered for long-term integrity in the harsh underground environment. Featuring a single hole through the sump wall for quick installation, PISCES™ Conical Seal Entry Fittings are completely field-replaceable without excavation when installed with a PISCES™ Backfill Guard. Massive sealing forces are generated against the I.D. of the hole in the sump wall as the cone is pulled inward by tightening the nut. Molded Acme threads and a blunt starter thread provide precision "spin-on" assembly and prevent cross-threading.



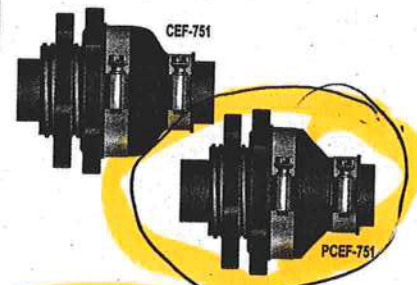
PISCES™ Bolted Flange Entry Fittings

PISCES™ Bolted Flange Entry Fittings feature a ribbed sealing surface for added sealing protection, and rubber encapsulated metallic or reinforced composite parts outside the sump for corrosion resistance. Minimum spacing between nuts ensures consistent sealing forces on uneven sump wall surfaces, and a lipped ring provides added strength and rigidity. In addition, PISCES™ Bolted Flange Entry Fittings offer a positive mechanical seal with nuts that pull the fitting body and studded ring against the outer sump wall. The boots on "BFP" fittings are replaceable from inside the sump without excavation.



PISCES™ Testable Dispenser Sump Entry Fittings

High-quality PISCES™ entry fittings provide a reliable seal for piping and conduit entries through containment sumps. PISCES™ now offers testable entry fittings specifically designed for continuous vacuum monitoring of the secondary containment system, compliant with AB-2481.



Compact Electrical Conduit Fittings

These compact, electrician-friendly conduit fittings require only one hole to be drilled in the sump wall. A captured o-ring ensures long term seal integrity. The low profile (3½" diameter) and 15° angled entry capability preserves flexibility in conduit entry locations.

PISCES™ Fuel Oil/Generator System Piping



The PISCES™ Fuel Oil Piping System is designed to provide a reliable, secondarily contained fuel supply system to generators and boilers from remote fuel tanks. Typical applications include both a ¾" supply and a 1" overflow return line running from a remote AST or UST to a generator engine or boiler day tank. Both lines are typically inserted into a common PISCES™ Access/Containment Pipe to provide retractable access to, and containment of, the fuel lines.

PISCES™ Primary Fuel Oil/Generator System Pipe Nylon-Lined Core Tube

- Excellent fuel and chemical resistance properties.
- Smooth bore ensures efficient flow characteristics.

Nylon Outer Jacket

- Unparalleled resistance to microbial attack.
- Integral braided fiber reinforcement for strength and pressure containment.

PISCES™ Double Wall Access/Containment Pipe

- Allows for retractability of primary pipe without excavation for inspection, repair or replacement.
- Superior crush and puncture resistance for added protection from backfill.
- Added layer of containment protection.



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Cincinnati, Ohio 45011
Tel: (800) 422-2525
Fax: (800) 421-3297
www.opw-fc.com

Notice: OPW/PISCES™ by OPW, Inc. products must be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. OPW/PISCES™ by OPW, Inc. makes no warranty of fitness for a particular use. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation. For complete OPW warranty information visit our web site at www.opw-fc.com.



PISCES™ Fuel Oil Pipe is UL Listed per UL 971, standard for non-metallic piping for use with flammable liquids, and for use with Diesel and Fuel Oil.

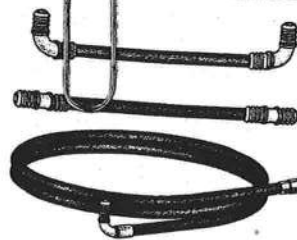
U.S. Patent Numbers

5,098,221; 5,343,738; 5,553,971; 5,567,083; 5,590,981; 5,813,797; 5,819,975; 5,950,860; 6,032,699; 6,039,201; 6,116,817; 6,729,797

PISCES™ ENTRY FITTINGS AND ACCESSORIES

Test Boots and Line Test Kits

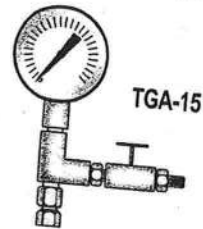
PISCES™ Test Boots and Line Test Kits are used to isolate and air-test the interstitial space between the primary and secondary pipes. One (1) Test Boot is required for each pipe end. Separate Test Boots are not required when using entry fittings with integral Test Boots. One (1) Line Test Kit LTK-36 is required per pipe section. Line Test Kits are not required when using on entry fittings with an integral Test Boot with an Air Test Stem on each pipe section.



TJ-200

TJ-300

TLT-36



TGA-15

TB-150/200



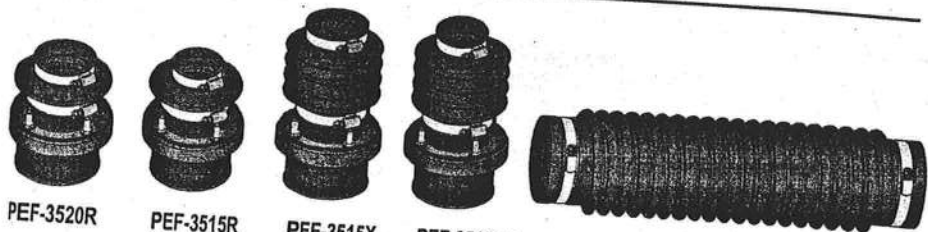
TB-315/415/420

Ordering Specifications

Model No.	Application	Weight		Packaging
		lbs.	kg.	
TB-150	Test Boot, PISCES™ 1½" (4 cm) Coaxial Pipe Interstice	0.2	0.1	12/box
TB-200	Test Boot, PISCES™ 2" (5 cm) Coaxial Pipe Interstice	0.2	0.1	12/box
TB-315	Test Boot, PISCES™ 3" (8 cm) Access Pipe to 1½" (4 cm) Primary Pipe	0.2	0.1	6/box
TB-315A	Test Boot, PISCES™ 3" (8 cm) Access Pipe to 1½" (4 cm) Primary Pipe with Air Stem	0.2	0.1	6/box
TB-320	Test Boot, PISCES™ 3" (8 cm) Access Pipe to 2" (5 cm) Primary Pipe, or 3" (8 cm) FRP to 2" (5 cm) FRP Pipe	0.2	0.1	6/box
TB-320A	Test Boot, PISCES™ 3" (8 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem	0.2	0.1	6/box
TB-415	Test Boot, PISCES™ 4" (10 cm) Access Pipe to 1½" (4 cm) Primary Pipe	0.2	0.1	6/box
TB-415A	Test Boot, PISCES™ 4" (10 cm) Access Pipe to 1½" (4 cm) Primary Pipe with Air Stem	0.2	0.1	6/box
TB-420	Test Boot, PISCES™ 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe or 4" (10 cm) FRP to 2" (5 cm) FRP Pipe	0.2	0.1	6/box
TB-420A	Test Boot, PISCES™ 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem	0.2	0.1	6/box
TB-430	Test Boot, PISCES™ 4" (10 cm) Access Pipe to 3" (8 cm) Access Pipe	0.2	0.1	6/box
TB-430A	Test Boot, PISCES™ 4" (10 cm) Access Pipe to 3" (8 cm) Access Pipe with Air Stem	0.2	0.1	6/box
TJ-300	Test Jumper Kit for Retractable Pipe (connects TB-420, TB-320, TB-415, and TB-315)	0.2	0.1	1/bag
TJ-200	Test Jumper Kit for CP Pipe (connects TB-150 and TB-200)	0.2	0.1	1/bag
TJ-200A	Test Jumper Kit with Air Stem Connections	0.2	0.1	1/bag
TLT-36	Test Line Termination Kit, 36" (91 cm)	0.2	0.1	1/bag
TLT-36A	Test Line Termination Kit for use with Airstream Boots, 36" (91 cm)	0.2	0.1	1/bag
TGA-15	Secondary Line Test Gauge/Valve Assembly - (0-15 PSIG / 0-1 bar)	0.2	0.1	1/bag
FI-1077	Reducer Insert for CS/BF-100, .77" (19.5 mm) ID. (for Small Dia. Tech Wire)	0.5	0.2	1/box
FI-1106	Reducer Insert for CS/BF-100, .1031" (2.6 mm) ID. (for ¾" / 2 cm Conduit/Large Dia. Tech Wire)	0.2	0.1	1/bag

Dispenser Pan Fittings and Accessories

PISCES™ Pan Fittings are installed in the bottom of PISCES™ Dispenser Pans to accommodate Pipe and Flex Connector Entries. The FIJ-3035 is used to isolate and contain Flex Connectors.



PEF-3520R

PEF-3515R

PEF-3515X

PEF-3515XR

FIJ-3035

Ordering Specifications

		Nominal Boot I.D.		Hole Saw Required	Weight		Packaging
		in.	cm		in.	kg.	
PEF-3520R	Pan Entry Fitting, 2" (5 cm) FRP Pipe Entry	2½"	6	HS-300 (3" / 8 cm)	2.5	1	3/box
PEF-3515R	Pan Entry Fitting, 1½" (4 cm) Pipe Entry	2"	5	HS-300 (3" / 8 cm)	2.5	1	3/box
PEF-3515X	Pan Entry Fitting, 1½" (4 cm) Flex Connector (Hex Seal)	2" (Hex)	5	HS-300 (3" / 8 cm)	2.5	1	3/box
PEF-3515XR	Pan Entry Fitting, 1½" (4 cm) Flex Connector (Round Seal)	2½"	6	HS-300 (3" / 8 cm)	2.5	1	3/box
Add "A" To Above Model Numbers for Air-Test Valve							
FIJ-3035	Flexible Isolation Jacket, 30" (76 cm) Long x 3½" (9 cm) I.D.				2	1	6/box
JI-20R	Insert, 2" / 5 cm FRP Pipe (2½" / 6 cm I.D. Seal)				0.2	0.1	1/bag
JI-20X	Insert, 2" / 5 cm Flex Connector (2½" / 6 cm Hex Seal)				0.2	0.1	1/bag
JI-15X	Insert, 1½" / 4 cm Flex Connector (2" / 5 cm Hex Seal)				0.2	0.1	1/bag

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VMI 99 LD-2000 New Series

**Highest Performance,
Most Requested Mechanical Line Leak Detector Built Today!!**

- Any Fuel*
- Any Pump*
- Any Pipeline System*
- Longest Length Pipeline System*
- Largest Volume Pipeline System*
- Integrated Check Valve / Pressure relief

*see technical specification

VMI The 99 LD-2000



The 99 LD-2000 is now the most requested mechanical line leak detector built today. New engineering and the VMI 2-year warranty (after installation) make the 99 LD-2000 more attractive to station operators today than ever before. Not only is the 99 LD-2000 less expensive to own, it is faster and less subject to field and line variables than ever before!

Integrated In-Line Check Valve / Pressure Relief

Leaking check valves in the turbine, defective submersible pump pressure relief, or a defective bypass valve will allow the line system to depressurize, resetting the leak detector. Drain-back into the pump or thermal contraction will cause vapor pockets to form. Vapor pockets increase the length of time it takes for a leak detector to open to full flow. Pump problems such as these result in slow flow and technical support calls. The resulting service costs and customer dissatisfaction all take away from the bottom line - making money.

**The 99 LD-2000 Is The Only Leak Detector
Capable Of Holding Line Pressure After the Pump Is Off—
Even With Pump Component Wear Or Failure.**

**Patent pending

In addition to the submersible pump problems encountered without an in-line check valve, the metering portion of the leak detector is hammered by hydraulic shock. This results in many leaks going undetected. Those leak detectors are just not equipped for the job you purchased them for.

The 99 LD-2000 is the answer you have been looking for. VMI leak detectors, with an integrated check valve and pressure relief valve, will save money and reduce customer frustration at the dispenser and reduce service calls.

The 99 LD-2000

Has A Higher Level Of Performance Over A broader Range of Burial Depth, Line Length, And Piping System Types Than Any Other Leak Detector

Additional Features

- Over 20% increased flow capacity
- Guaranteed for 24 months from date of installation to detect 3 GPH @10 PSI leak
- One Way Poppet flow path
- Reverse Ratio Piston / Poppet combination
- Smaller Volume - Faster Response piston size
- Shortest profile leak detector available for "tight" installations
- All fuels (gasoline - diesel - alcohol)
- All pipelines (flexible - fiberglass - steel) up to 400 ml. resiliency
- Exceeds EPA regulations (3 GPH @ 10 PSI)
- Detects leaks up to 10' above the leak detector
- Installs with 2 1/16" six point socket or pipe wrench

Increased Flow Capacity

- The 99 LD-2000 has maximized the flow and flow path in existing, older submersible pump heads. This new design allows over 20% more flow than previous LD -2000 models, maximizing pump performance for earlier pump heads.

Longest Guarantee

- The 99 LD-2000 shares the longest guarantee available in the industry, along with all other VMI 99 LD-2000 series leak detectors. For 24 months from date of installation, the LD-2000 is guaranteed to see a 3 GPH leak @ 10 PSI

One Way Poppet Flow Path

- The One Way Poppet Flow Path isolates pump turbulence from line leak detection at pump startup. The hardened stainless steel poppet does not dimensionally change because of thermal conditions encountered during station operation (precision metering change is insignificant down to -20° F).

Reverse Ratio Piston / Poppet Combination

- Reverse Ratio means the leak detector has a smaller diameter piston area (smaller than the poppet it is attached to). This smaller piston area keeps the leak detector in the fast fill position (2 GPM) to a higher pressure while compressing vapor pockets and stretching flexible lines faster. *This means less time to full flow!* The leak detector does not have to completely reset (as with competitive leak detectors) for the poppet to be forced into the reset mode at pump startup.

Smaller Volume / Faster Response Piston Size

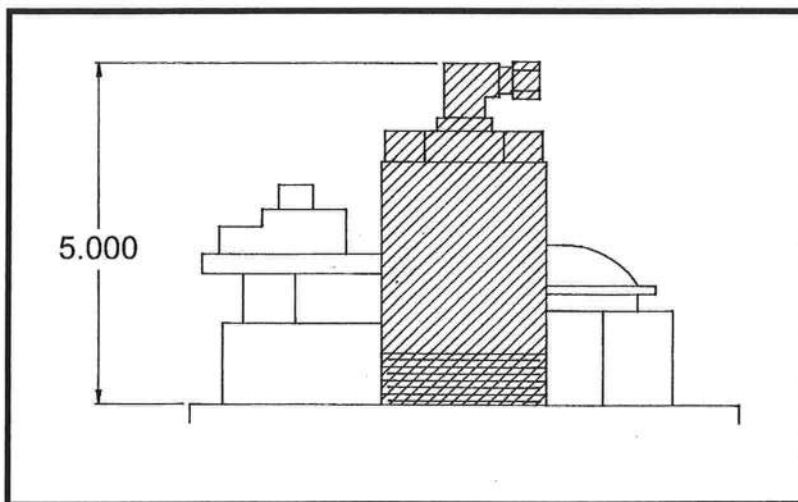
- With a reduced piston size there is one fourth the volume to replace when in leak search and one fourth the volume to return to the line when the pump turns off. This combination makes for a more responsive and faster leak detector. Less volume to leave the line for the leak detector to reset and catch leaks. *Less volume to fill and provide full flow for dispensing!*

Superior Flex-Pipe Performance

- The reduced surface area of the piston significantly reduces the surface area exposed to hydraulic line shock. This results in enhanced performance with steel and fiberglass pipe, and *especially with today's flexible pipe.*

Shortest Leak Detector Profile

- The 99 series leak detectors are the lowest profile leak detectors available.



Vaporless Manufacturing Inc.

8700 East Long Mesa Drive

Prescott Valley, Arizona 86314

1-800-367-0185 (928) 775-5191 Fax (928) 775-5309

www.vaporless.com

Technical Specifications 99 LD-2000

All Fuels

- Gasoline, 100% methanol, 100% ethanol, up to 15% MTBE
- Any combination of the above
- #1 or #2 diesel, Kerosene, (Jet A or JP 4 *consult factory for substitution of bronze parts)

Certified to meet EPA 3 GPH @ 10 PSI:

- Maximum Rigid Pipeline size: 400 ft. of 3.25 inch diameter line or up to 172 gallon volume
- Maximum Flexible Pipeline size: 415 ft. of 1.5 inch diameter line or up to 39.5 gallon volume

U.L. listed containment housing

- for pump pressures through 50 PSI
- Schedule 40 cast iron internally plated with zinc phosphate. Externally finished with oven baked powder coat

Internal Housing

- Hard Anodized, 6061 T6 Aluminum

Check Valve

- Delrin
- Tygothane® - polyurethane seal

Pressure Relief

- Stainless Steel
- 29 PSI Pressure relief (holds in addition to pump pressure relief)

Seals

- Piston / Poppet: Teflon, stainless steel spring energized
- O Rings: Mil Specification; R-83248 Fluorocarbon

Metering Pin and Poppet

- 17-4 Stainless Steel

Misc. Component Specification

- 660 Bronze
- 6061 T6 Aluminum
- 1026 cold roll steel chrome plated

Reverse Ratio Piston-Poppet

One Way Poppet Flow-Path

For Installation with variable or non-variable speed turbines.

Vent line must be unobstructed, leak tight and connected to headspace of tank, not to be subjected to pressure or vacuum.

Can be installed in submersible pump or leak detector adapter Tee.

For chemical applications other than listed above, contact factory.

For installation instructions or further information on the **99 LD-2000**

or other line leak detection equipment, contact your local distributor or call:



Vaporless Manufacturing Inc.

8700 East Long Mesa Drive

Prescott Valley, Arizona 86314

1-800-367-0185 (928) 775-5191 Fax (928) 775-5309

www.vaporless.com

*Patent pending

Made in the United States of America

6/15/01

SUBMERGED TURBINE PUMPS



...NOW, WITH OUR UNIQUE VARIABLE LENGTH
AND VARIABLE SPEED OPTIONS



FE PETRO^{INC}



Manufacturers for the Petroleum Industry

SUBMERSIBLE TURBINE PUMP SPECIFICATIONS

GENERAL

- The entire pumping assembly shall have UL listing and shall meet all requirements of UL Standard UL 79.
- The pump discharge head and manifold assembly shall be manufactured from ASTM A48 Class 30 grey iron.
- The pump shall be available in 1/3, 3/4, and 1 1/2 horsepower sizes and shall be manufactured to the proper length as determined by the tank diameter, type of tank, and bury depth.
- The pump motor shall have a thermal overcurrent overload protector with automatic reset.
- The pump motor assembly shall be clearly marked with pertinent information including Model, Horsepower, Voltage, Phase, and Manufacturer.
- The pump motor shall be a permanent split phase capacitor and type, and shall incorporate a 15 mfd capacitor.
- The pumping unit shall not incorporate any flexible diaphragms and all sealing shall be accomplished with O-rings or UL recognized fiber gaskets.
- The pump shall have a removable intake screen with openings no greater than 3/32 inch.
- The pump shall be manufactured by FE Petro, Inc., McFarland, WI.

INSTALLATION AND MAINTENANCE

- The pump shall have a two-wire field connection and an easy access ground wire terminal, and shall incorporate a wire seal plug which will accommodate three wires.
- The pump shall incorporate a port for line pressure testing that shall be sealed with a 1/4 NPT pipe plug.
- The pump unit shall have a fully extractable head in order to permit removal of the pump motor assembly without disturbing the discharge piping or the electrical wiring.
- The product in the pipelines shall be held in place by a line check valve that shall have a minimum sealing force of 170 lbs when the pump is not running.
- The line check valve shall be independent of the removable head and shall be easily accessible.
- The removal of the extractable portion of the pump shall not disturb product in the pipelines downstream of the check valve.
- During the removal of the extractable portion of the pump, product contained in the discharge manifold of the pump shall drain automatically into the storage tank.
- The pump motor shall be interchangeable by horsepower with different manufacturers products.

OPERATION

- The pump shall have an air/vapor elimination system that returns air or vapors to the underground storage tank through a tube discharging near the top of the pump motor assembly.
- The pump unit shall contain a built-in expansion relief valve that relieves pressure above pumping pressure but below 50 psi.
- The pump motor shall utilize the product being pumped for lubrication of the motor bearings and for cooling the stator, and this fluid shall discharge into the underground storage tank at the top of the motor.
- The pump shall have syphon capability built into the pump as standard.

Rev. 8/94

OPW 634 SERIES TIGHT-FILL TOP-SEAL CAPS

Tight-Fill Top-Seal Caps are installed on top seal adaptors, when not in use, to prevent gasoline vapors from escaping and to prevent water, dust and debris from entering the tank.

OPW 634TT

The OPW 634TT is designed to mate with 4" 633T, 633TE, 61SA, 633TC, and 633TCP Top-Seal Adaptors.

Heavy duty and corrosion resistant, the body is made of Duratuff® to help eliminate rust and oxidation for a long, maintenance-free life.

The toggle lever distributes downward pressure to compress its Buna-N gasket evenly, assuring a positive, water and vapor-tight seal. The 634TT can be locked with a padlock or wire seal.

Ordering Specifications

Product No.	in.	lbs.	kg.
634TT-7085	4"	1.01	.46

Replacement Parts

Part No.	Description
H-05995-M	Buna-N Gasket

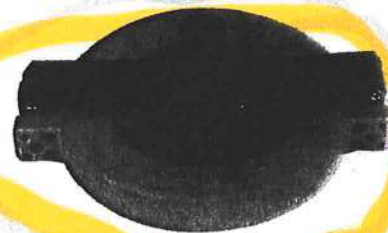
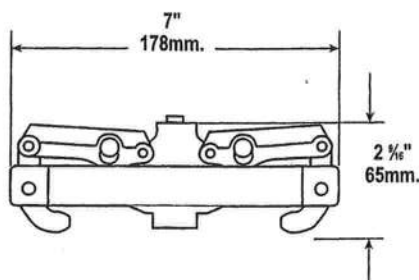
Materials

Cap & links: Duratuff®

Pins: stainless steel

Gasket: Buna-N

Color: grey



OPW 634TT

OPW 634TTP

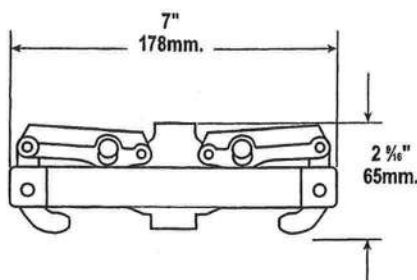
The OPW 634TTP is similar to the 634TT with the added feature of a pressure relief valve incorporated into the stem of the fill cap. A small button protrudes out of the top/center of the toggle lever, and may be manually pushed open prior to removal of the cap. If any pressure buildup occurs in the drop tube, bleed-off is possible before removing the cap.

It is important to note the use of OPW 634TTP will not release any more vapors than would be released by removing the cap normally.

Ordering Specifications

Product No.	in.	lbs.	kg.
634TTP-8076	4"	1.01	.46

Dimensions shown applicable to 634TT, 634TTP, 634TTM, 62TT and 1711T.



OPW 634TTP

OPW 634TE

The OPW 634TE is a single lever action top seal cap designed to mate with 3" OPW 633T Top Seal Adaptors.

The locking lever seats in the groove in the adaptor, providing a cam-down action on the cap for a positive water and vapor-tight seal. The 634TE can be locked with a padlock or wire seal. Patent #3,118,561.

Ordering Specifications

Product No.	in.	lbs.	kg.
634TE-7085	3"	1.11	.50

Replacement Parts

Part No.	Description
C-01094-RB	Lever
H-10765-M	Gasket
H-10731-RE	Pivot Pin

Materials

Cap: Duratuff®

Lever: brass

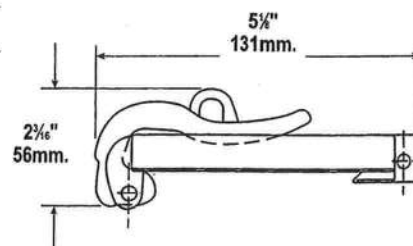
Gasket: Buna-N

Pivot pin: stainless steel

Color: grey



OPW 634TE



OPW TIGHT-FILL TOP-SEAL ADAPTORS

Tight-Fill Top-Seal Adaptors are installed in spill containment manholes on the fill riser pipe from an underground fuel storage tank. They mate with the gravity drop delivery elbow on the transport truck.

OPW 633T

OPW 633T Top-Seal Adaptors thread onto the fillpipe of underground storage tanks, and are designed to mate with top seal delivery elbows. Use OPW 634TT, 634TE or 634TTP Top Seal Caps with 633T Adaptors.

- ◆ **Easy Installation** – Integral internal wrenching lugs are provided for installing in the confined space of spill containers.
- ◆ **Manufactured from Durable, Corrosion-Resistant Materials** – Bronze, hardcoat aluminum and composite Duratuff®.

OPW 633TE

The OPW 633TE adaptor is similar to the 633T, except it does not have internal wrenching lugs.

- ◆ **Accommodate 633LC Lock Clamp** – 4" x 4" 633T (E) models incorporate dual notches in the base to accept 633LC Clamps.



OPW 633T-8076

Ordering Specifications

Product No.	Elbow Size	Riser Thread	lbs.	kg.	Material
633T-8050	3"	2"	0.54	.25	Hardcoated Al.
633T-8060	3"	3"	0.96	.44	Bronze
633T-8070	3"	4"	0.71	.32	Hardcoated Al.
633T-8075	4"	4"	0.82	.37	Hardcoated Al.
633T-8076	4"	4"	2.70	1.23	Bronze
633T-7985	4"	4"	0.45	.20	Duratuff® II
633T-8080	4"	3"	0.89	.40	Hardcoated Al.
633TE-8160	3"	3"	0.94	.43	Bronze
633TE-8180	4"	4"	0.79	.36	Hardcoated Al.
633TE-7986	4"	4"	0.48	.22	Duratuff® II

Replacement Parts

Part No.	Size	Description
H-05289-M	3" x 3"	Gasket
H-04150-M	3" x 4"	Gasket
H-04145-M	4" x 3"	Gasket
H-11199-M	4" x 4"	Gasket

Note: Maximum height of adaptor is 2 $\frac{1}{16}$ " (68mm).

OPW 61SA Swivel Adaptor

Pressure decay testing of underground storage tank systems has identified the joint between the tight-fill adaptor and the nipple or tank riser as a persistent leak point.

Considerable movement takes place along the hose while the fill elbow is connected. Walk-downs and changes from one compartment to another move the hose across the pavement, rotating the elbow along with it. The result can be a loosening of the adaptor. As the adaptor backs off, the seal between it and the nipple is relaxed and a leak path is created allowing vapors to escape to the atmosphere. Vacuum-assist dispensing systems can aggravate this situation due to the slight pressurization of the UST.

The 61SA Swivel Adaptor mates with 4" top-seal delivery elbows and features a top section that rotates with hose movement while the bottom section remains securely in place maintaining seal integrity.

- ◆ **Dual Seals** – ensure a vapor and liquid-tight seal.
- ◆ **Conductive, Self-Lubricating Retaining Rod** – ensures maintenance-free, reliable service life.
- ◆ **Same Internal Dimension as Standard 633T Adaptors** – to minimize pressure drop and maximize flow rates for quick product delivery.

Ordering Specifications

Product No.	Base Material	Adaptor Material	Weight lbs.	kg.
61SA-1000	Aluminum	Bronze	7	3.2
61SA-1010	Aluminum	Aluminum	5	2.3
61SA-1020	Bronze	Bronze	10	4.5

Certifications and Listings

61SA-1000 Series	CARB Approval Letter #95-1
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OPW 61SA-1000

Materials

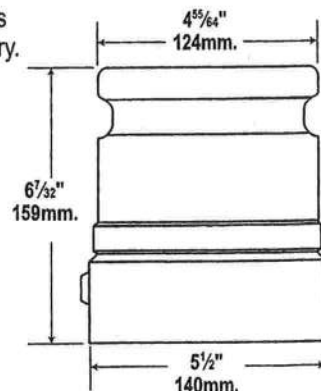
Adaptor: bronze or nickel plated aluminum

Base: bronze or nickel plated aluminum

Retaining ring: conductive nylon

Set screws: stainless steel

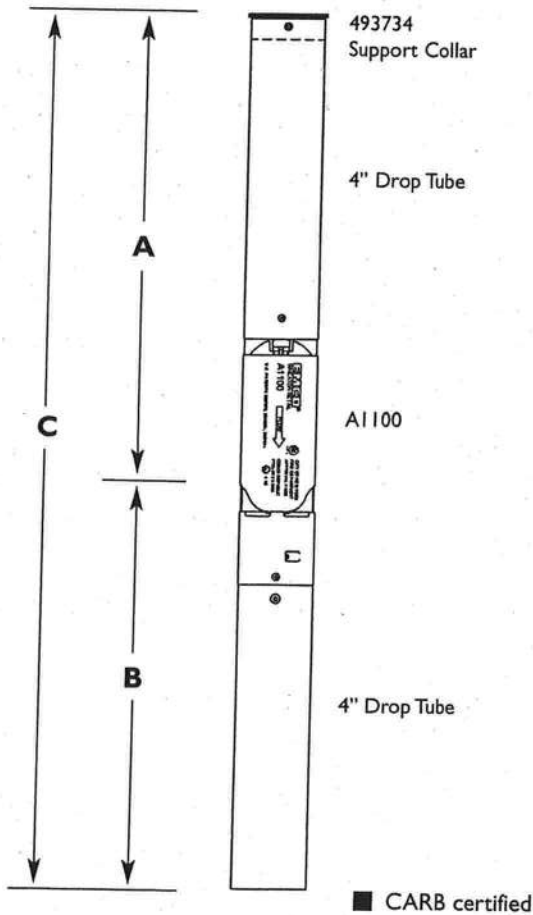
Seals: Buna-N



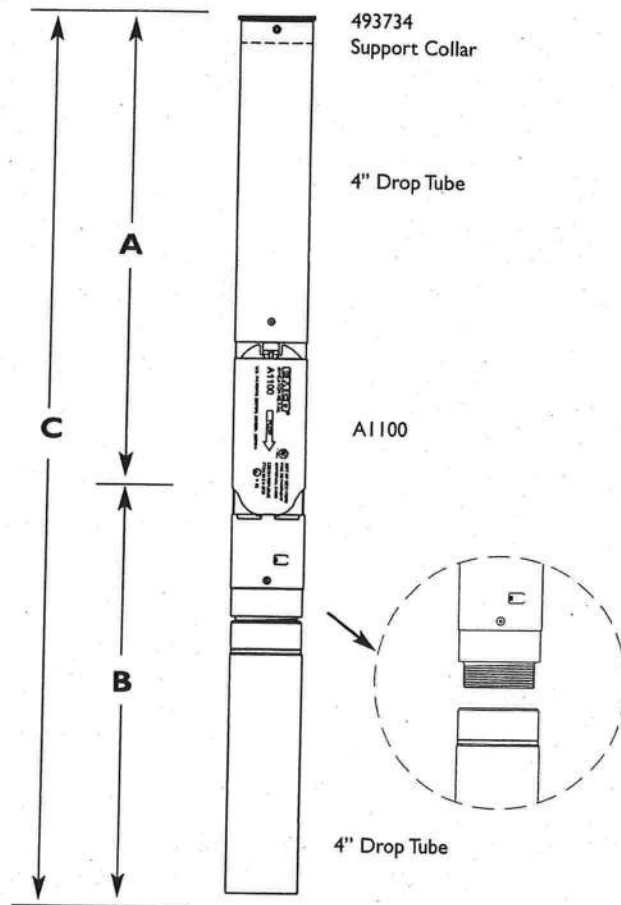
Overfill Prevention Valve

AI100 Guardian Overfill Prevention Valve Systems Stage I Vapor Recovery

Dual Point Riveted



Dual Point Screw Together



OVERFILL PREVENTION
SPILL CONTAINMENT

Model No.	Description	Upper Length A	Lower Length B	Overall Length C	Maximum Burial Depth	Nominal Tank Dia.	Weight
AI100-010	Valve Only	N/A	N/A	N/A	N/A	N/A	4.3 lbs.
AI100-055	Dual Point	77.1"	88.6"	165.8"	72.1"	96"	19.2 lbs.
AI100-056	Dual Point	89.1"	100.6"	189.8"	81.3"	120"	21.4 lbs.
AI100-057	Dual Point	89.1"	126.6"	215.8"	78.7"	144"	24.8 lbs.
AI100-058	Dual Point	127.1"	126.6"	253.8"	116.7"	144"	28.1 lbs.
AI100-055S	Dual Pt Screw Together	77.1"	91.8"	168.9"	72.1"	96"	21.5 lbs.
AI100-056S	Dual Pt Screw Together	89.1"	103.8"	192.9"	81.3"	120"	23.7 lbs.
AI100-057S	Dual Pt Screw Together	89.1"	129.8"	218.9"	78.7"	144"	27.1 lbs.
AI100-058S	Dual Pt Screw Together	127.1"	129.8"	256.9"	116.7"	144"	30.4 lbs.

All OPV systems listed above can be ordered as a package which includes an A0097-005 Tight Fill Cap and an A0030-014 Tight Fill Adapter. To order, place a P at the end of the variant number. (Example: AI100-055P)

Custom lengths available: Please contact our customer service department.

Lengths A and B are measured from the shut-off point (flapper). Maximum burial depth assumes 95% shut-off and 6" clearance between top of drop tube and inside bottom of containment manhole lid.

OPW 711SS-CSDW DOUBLE WALL STAINLESS STEEL SPILL CONTAINER

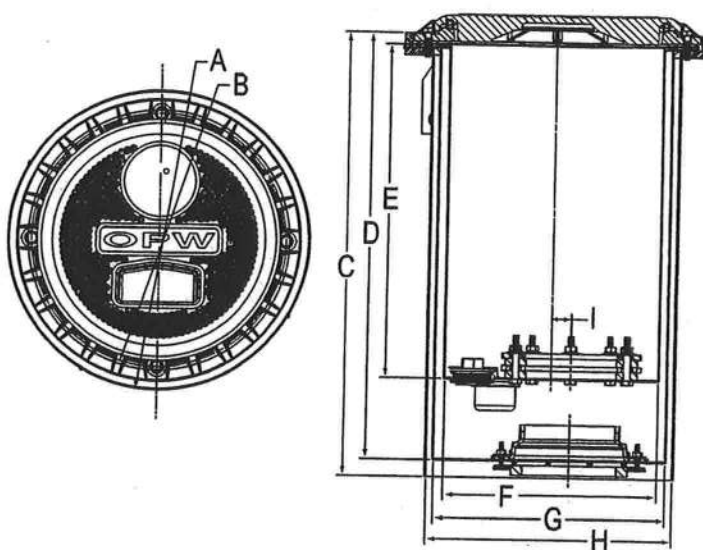
FEATURES & BENEFITS

- **Primary and Secondary Spill Buckets** are completely field replaceable without needing to break concrete.
- **Shallow Bury Applications** – At only 21-3/4" deep with a 5-gallon capacity, this spill container is great for shallow bury applications.
- **Dual Stainless Steel Construction**
- **Flat-Wall Entry Fitting** – Allows for numerous installation possibilities. Designed for 3" or 4" entry fittings, field installed to desired depth.
- **Spill Bucket Cover** – Spacious hand-grip pocket provides easy access; new cover seal prevents water and debris from entering the bucket.
- **16" center-to-center spacing** – 1" per bucket offset from center on 15-1/8" cover allows for nearly 3" of concrete between 16" center of bucket.
- **Built-In Flex Joint** – Constructed with premium Pellethane fitting to allow for ground shift while keeping secondary bucket in place in the ground.
- **Monitoring Port** – Provides quick access to the secondary bucket for monitoring or testing.
- **Stainless Steel Secondary Containment** – Isolates the spill bucket and riser from backfill, preventing a product spill from entering the soil in the event of a damaged primary unit.
- **Powder Coated Galvanized Steel Skirt** – Isolates the spill bucket from backfill, allowing both primary and secondary to be field replaceable.

MATERIALS

Primary Spill Bucket: Stainless Steel
Secondary Spill Bucket: Stainless Steel
Entry Fitting: Pellethane
Compression Seal: Nitrile
Cover and Mounting Ring: Cast Iron, Powder Coated
All Other Seals: Nitrile
All Other Components: Stainless Steel
Skirt: Powder Coated Galvanized Steel

DIMENSIONS



	inches	cm
A	15-1/8"	38.42
B	12-29/32"	32.78
C	22-5/8"	57.46
D	21-3/4"	55.25
E	17"	43.18
F	10-9/16"	26.83
G	11-1/2"	29.21
H	12-1/4"	31.12
I	1.0"	2.54

ORDERING SPECIFICATIONS

Part Number	Description
7111SS-CSDW	5 Gallon Double Wall Stainless Steel Spill Container

Note: Consult OPW for continuous interstitial monitoring option.

APPROVALS



ULC - MH27236



Florida EQ# 654

IMPORTANT: OPW/PISCES™ by OPW Inc. products must be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations, and compatibility with the environment and material to be handled. OPW/PISCES™ by OPW Inc. makes no warranty of fitness for a particular use. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation. For complete OPW warranty information visit our web site at www.opw-fc.com.



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7111SS-10/06-3M

OPEN ATMOSPHERIC VENTS

Open Atmospheric Vents are installed on the top of vent pipes from underground or above-ground fuel storage tanks. The vent cap and internal wire screen are designed to protect the tank vent lines against intrusion and blockage from water, debris or insects. These vents are always open to atmosphere and allow any pressure or vacuum in the tank to vent.

OPW 23 Series Open Atmospheric Vent Features

- ◆ **Reliable Service** – Vent cap drain spouts extend outward to deter rainwater entry.
- ◆ **Corrosion-Resistant Construction** – Aluminum body and cap assure a long service life.
- ◆ **Easy Installation** – The 23 is available in 2" and 3" slip-on models that provide for attachment to the vent line with set screws.
- ◆ **Complies with NFPA 30 Requirements** – for venting gasoline vapors upward.
- ◆ **High Maximum Flow Rate** – 7000 SCFH at 2 psi pressure drop.
- ◆ **40-Mesh Brass Wire Screen** – Helps prevent debris and insects from entering the tank vent lines.



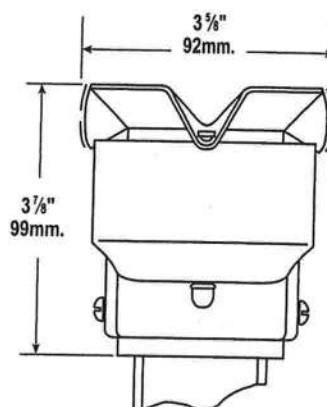
OPW 23

Ordering Specifications

Product No.	in.	oz.	kg.	Description
23-0044	1½"	3.8	.11	Open Vent
23-0033	2"	4.3	.12	Open Vent
23-0055	3"	5.0	.14	Open Vent

Replacement Parts

Part No.	Description
H-00122-M	Screw
H-01967	Nut
H-01969	Screen



Materials

Body: aluminum
Screen: 40-mesh brass
Set Screws: brass

OPW 320DV Isolation Float Vent Valves

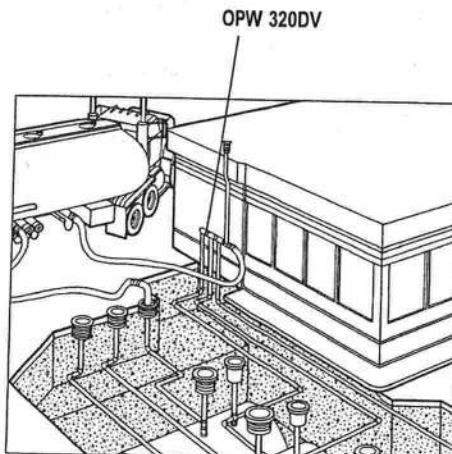
Isolation Float Vent Valves are installed aboveground on manifold vent pipes from underground fuel storage tanks. An internal stainless steel ball isolates each tank vent, should the storage tank overfill sending product into the vent lines, to help prevent intermixing of different grades of fuel.

Features

- ◆ **Stainless Steel Ball Float** – Ensures a clean, tight seal against the valve body.
- ◆ **Aluminum Valve Body** – Corrosion-resistant for a long service life.

Ordering Specifications

Product No.	in.
320DV-0130	3" x 3" x 2"



OPW 320 DV

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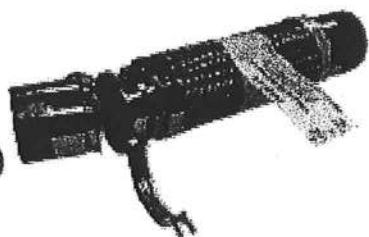
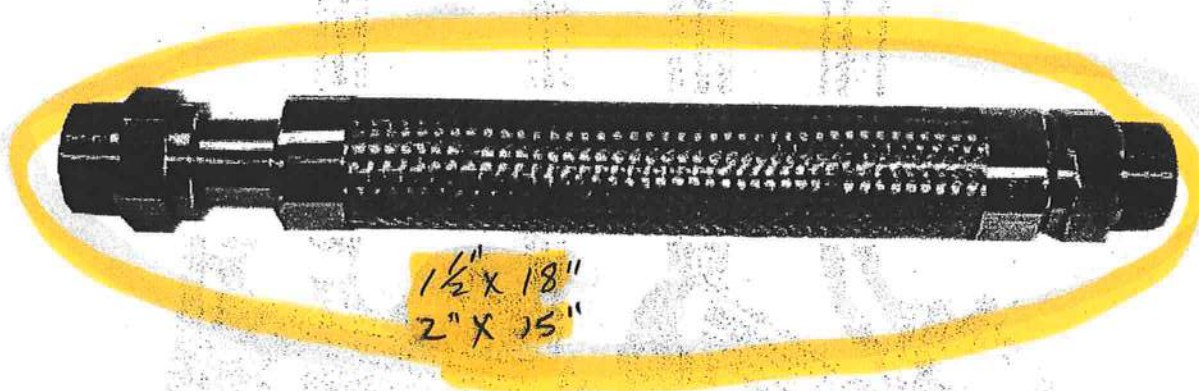
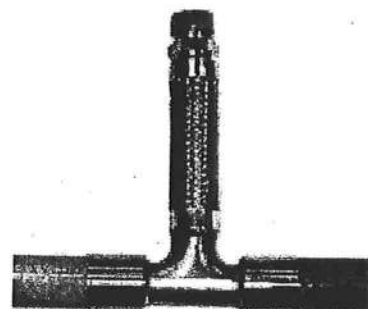
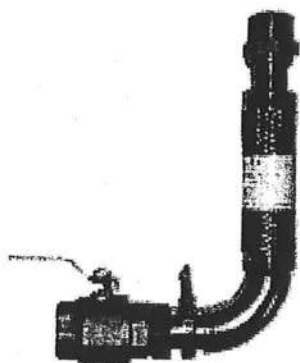
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EMERGENCY SHUT-OFF AND VAPOR LINE SHEAR VALVES/CONNECTORS/ADAPTORS

EMERGENCY SHUT-OFF VALVES AND VAPOR LINE SHEAR VALVES



OPW 10 Series Emergency Shut-Off Valves

OPW 10 Series Emergency Shut-Off Valves are installed on fuel supply lines beneath dispensers at grade-level to minimize hazards associated with collision or fire at the dispenser. If the dispenser is pulled over or dislodged by collision, the top of the valve breaks off at the integral shear groove, activating poppets and shutting off the flow of fuel. Single-Poppet models shut off supply flow, while Double-Poppet models shut off supply as well as prevent release of fuel from the dispenser's internal piping.



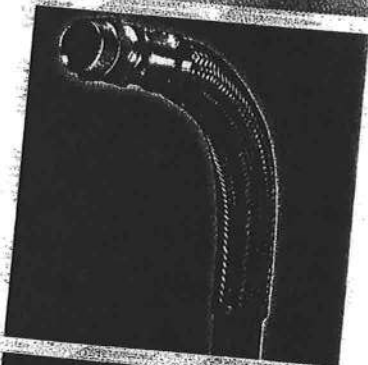
PA15 Offset Adaptor

The OPW PA15 Offset Adaptor is designed for adjusting misalignment of pipe in dispenser sumps and suction stubs. The PA15 has a low profile feature, and is designed for maximum flow.



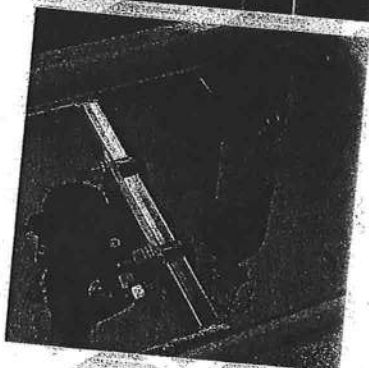
OPW 60V Series Vapor Line Shear Valves

OPW 60 Series Vapor Line Shear Valves are installed on vapor return lines beneath dispensers at grade-level to minimize hazards associated with collision or fire at the dispenser. If the dispenser is pulled over or dislodged by collision, the top of the valve breaks free at the integral shear groove to minimize damage to the dispenser piping. Poppeted models afford additional protection by preventing the release of vapors from the dispenser's internal piping and the vapor line to the tank.



OPW Stainless-Steel Flexible Connectors

Stainless Steel Flexible Connectors provide flexibility in the installation and operation of fuel piping systems. Flexible Connectors can be used as a convenient means of connecting piping to pumps and dispensers and throughout the piping systems where connections and changes of direction are necessary.



PISCES™ Sump Fire Suppression System

The FireStomper® Automatic Sump Fire Suppression System is designed to quickly and completely extinguish a fire inside a dispenser containment sump. The FireStomper® automatically discharges when the actuator temperature reaches 155° F (68° C), extinguishing a sump fire within seconds of ignition, and protecting the low-melt material piping in accordance with NFPA 30A (2001 Edition) requirements.

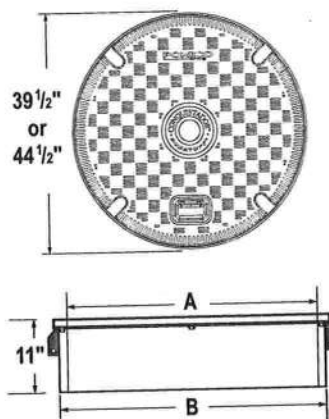
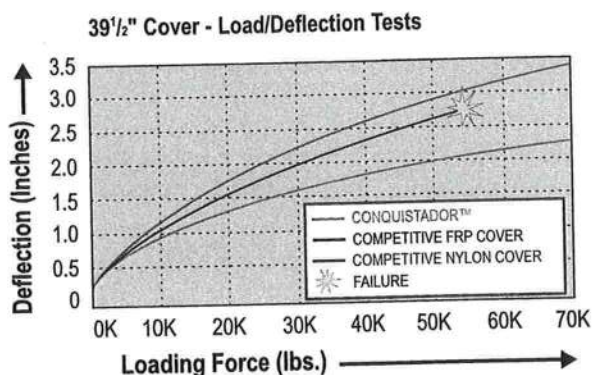
POMECO/OPW CONQUISTADOR™ COMPOSITE COVER MANHOLES

Lightweight and extremely durable, composite cover manholes make sump accessibility safer and easier than ever before. Designed for use in many service station, commercial, and industrial driveway applications, these manholes offer a wide variety of features to ensure the ultimate in user-friendly convenience and long-lasting performance.

The Conquistador Duratuff® helps put an end to the risk of back, foot and hand injuries with a slip-resistant tread pattern and lightweight, low-profile construction for easier and safer access to tank sumps and other underground equipment.

Features

- ◆ Slip-resistant tread pattern
- ◆ Easy removal and replacement
- ◆ Two lifting options
- ◆ Reduced risk of back, foot and hand injuries
- ◆ Unmatched deflection performance
- ◆ Outstanding long-term durability in rigorous cycle tests
- ◆ Three mounting options
- ◆ Unique structural fiberglass reinforcement matrix
- ◆ Water-resistant models available
- ◆ Bolt-down models available
- ◆ Interchangeable with other manufacturers' covers
- ◆ Load rated to over three times H20



Dimensions

Cover	A	B	Cover Wt.	Assembly Wt.
39 1/2"	36 11/32" 92 cm	38 5/8" 98 cm	65 lbs.	125 lbs.
44 1/4"	41 1/8" 104 cm	43 13/32" 110 cm	85 lbs.	157 lbs.

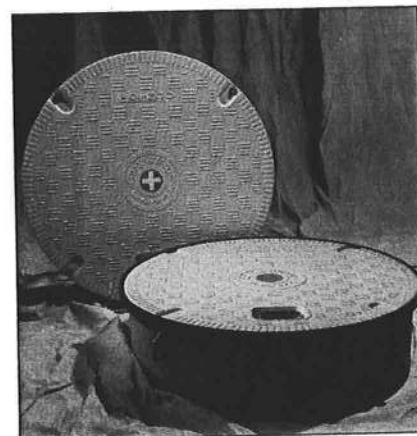
Ordering Specifications

Cover Manhole Assembly

Product No:	Description:
39 1/2" 44 1/4"	
39CD-PL10 44CD-PL10	Cover, Plain with Recessed Handle
39CD-PLKL 44CD-PLKL	Cover, Plain with Key-Lift Provision
39CD-BD10 44CD-BD10	Cover, Bolt-Down with Recessed Handle
39CD-BDKL 44CD-BDKL	Cover, Bolt-Down with Key-Lift Provision
39CD-WT10 44CD-WT10	Cover, Bolt-Down, Gasketed, Recessed Handle
39CD-WTKL 44CD-WTKL	Cover, Bolt-Down, Gasketed with Key-Lift Provision

Covers only

Product No:	Description:
39 1/2" 44 1/4"	
P39CD-PL10 P44CD-PL10	Cover, Plain with Recessed Handle
P39CD-PLKL P44CD-PLKL	Cover, Plain with Key-Lift Provision
P39CD-WT10 P44CD-WT10	Cover, Bolt-Down, Recessed Handle
P39CD-WTKL P44CD-WTKL	Cover, Bolt-Down with Key-Lift Provision
90K-KLS	Key-Lift Provision Stick



Mounting Options: Lifting Options



Choose from two easy-lifting options for one-step manhole cover removal.



(90K-KLS Stick Not Included)



OPW 104 SERIES CAST IRON MANHOLES

Heavily ribbed cast iron covers and body rings ensure maximum load bearing capacity on cast iron manholes and fill boxes. These manholes are ideal for connecting underground tank lines directly to the surface without sump enclosures. A variety of features available on cast iron manholes and fill boxes make them the perfect choice for many applications.

OPW 104A Cast Iron Manhole

A sturdy steel skirt on the standard 104A extends nearly a foot below grade to ensure trouble-free installation in deep concrete, and optional skirts that extend a full 19 1/4" below grade are available in 12" and 18" diameters for sandy soil locations.

Features:

- ◆ Full-size internal diameters for maximum access and working area
- ◆ H2O Load Rating
- ◆ Rugged cast iron covers and body rings

Dimensions

Product No.	A	B	C
104A-0800	8"	10 5/8"	11 1/4"
104A/FG-1200	12"	14 1/4"	11 1/4"
104A/FG-1219	12"	14 1/4"	19 1/4"
104A-1800	18"	20 1/8"	11 1/4"
104A-1819	18"	20 1/8"	19 1/4"

Ordering Specifications

Product No.	ID(in.)	ID(mm.)	lbs.	kg.
104A-0800	8"	203	15	6.8
104A-1200	12"	305	28	12.7
104A-1219	12"	305	33	15.0
104FG-1200*	12"	305	28	12.7
104FG-1219*	12"	305	33	15.0
104A-1800	18"	457	50	22.7
104A-1819	18"	457	57	25.9

* Finger Grip Cover Manhole

OPW 104FG Cast Iron Manhole

The 104FG provides a convenient finger grip feature on the cover to facilitate cover removal.

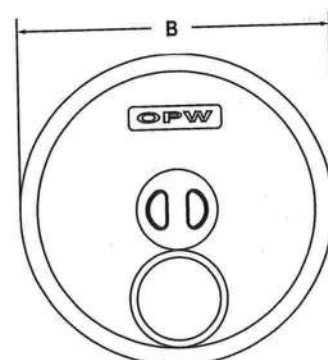
- ◆ Cast-in non-skid finish on covers
- ◆ Sturdy, extra long steel skirts
- ◆ Individually boxed for ease of handling

Materials

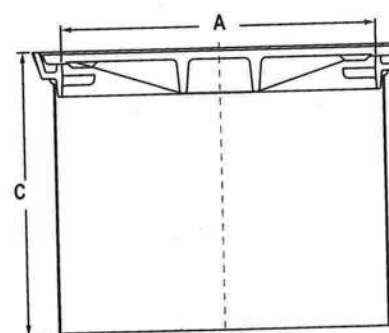
Body ring: cast iron
Cover: cast iron
Skirt: steel

Replacement Parts

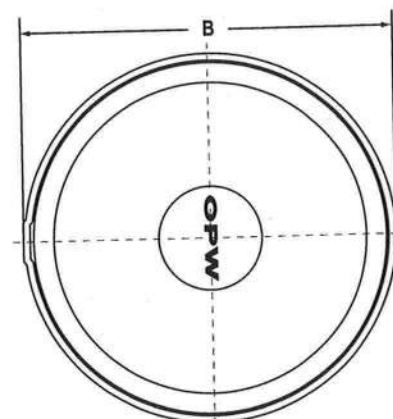
Part No.	Description
E00508M	Cover for 8" 104A-0800
E00510M	Cover for 12" 104A-1200
E00584M	Cover for 12" 104FG-1200
E00512M	Cover for 18" 104A-1800
DO1747M	Cover for 20" 104C-2000



OPW 104FG Cast Iron Manhole Cover



OPW 104A/FG Cast Iron Cover Manholes



OPW 104A Cover

OPW 233 Series Extractor Fittings thread into 4" NPT openings on underground storage tanks. A 4" riser pipe threads into the top of the 233 for use in Stage I Vapor Recovery or to access a ball float. The 233 Extractor Fittings have threaded single-outlet connections for attaching tank vent lines or multiple outlets used to manifold tank vents or accommodate Stage II vapor return lines from dispensers. Internal threads on the 233 are designed to install a ball float or test plug in the extractor.

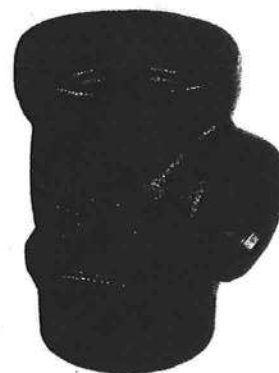
Features Include

- ◆ **Duragard® Coated Cast Iron Body** – Helps prevent rust and corrosion for long service life.
- ◆ **ZA12 Zinc/Alloy Cage Assembly** – Eases installation and removal of ball float vent valves and test plugs.

- ◆ **Precision Machined Threads** – Help prevent cross threading of the ball float or tank riser pipe.
- ◆ **Compatible with 85% Ethanol (E85) or Methanol (M85)**



Look for this label for authentic OPW EVR approved products



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233 VP Test Plug

OPW 233

The OPW 233 Extractor Fittings are designed for use with all OPW 30MV and 3" 53VML Ball Float Vent Valves that include an extractor cage (the OPW 233 does not include an extractor cage). The 233 Extractor incorporates either single-outlet or multiple-outlet threads.

OPW 233V

The OPW 233V Extractor Fittings are designed for use with all OPW 53VML 2" Ball Float Vent Valves (the OPW 233V includes an extractor cage). The 233V is a threaded single-outlet extractor designed to connect vent lines to the underground tank.

OPW 233VM

The OPW 233VM Extractor Fittings are designed for use with all OPW 53VML 2" Ball Float Vent Valves. (The OPW 233VM includes an extractor cage.) The 233VM is a multiple-outlet extractor used to manifold tank vents or accommodate Stage II vapor return lines from dispensers.

OPW 233VP Extractor Test Plug

The OPW 233VP Extractor Fitting Test Plug is used on all OPW 233, 233V and 233VM Series Extractor Fittings. The 233VP incorporates an O-ring above the threads (on the plug) to isolate the tank from the vent piping systems during a tank test.

Ordering Specifications

Product No.	Top Thread in. mm.	Outlet Thread in. mm.	Bottom Thread in. mm.	Weight lbs. kgs.
233-4420 (Tee)*	4" 102	2" 51	4" 102 Ext.	13.89 6.31
233-4430 (Tee)*	4" 102	3" 76	4" 102 Ext.	14.06 6.39
233-4422 (Cross)*	4" 102	2" x 2" 51 x 51	4" 102 Ext.	15.18 6.90
233-4433 (Cross)*	4" 102	3" x 3" 76 x 76	4" 102 Ext.	15.54 7.06
233-4432 (Cross)*	4" 102	3" x 2" 76 x 51	4" 102 Ext.	17.29 7.86
233V-4420 (Tee)	4" 102	2" 51	4" 102 Ext.	15.33 6.99
233V-4430 (Tee)	4" 102	3" 76	4" 102 Ext.	12.50 5.68
233VM-4422 (Cross)	4" 102	2" x 2" 51 x 51	4" 102 Ext.	16.62 7.55
233VM-4433 (Cross)	4" 102	3" x 3" 76 x 76	4" 102 Ext.	16.98 7.72
233VM-6045 (Cross)	4" 102	3" x 2" 76 x 51	4" 102 Ext.	16.62 8.51
233VM-604L (BSPP)	4" 102	3" x 2" 76 x 51	4" 102 Ext.	16.62 8.51

* without cage assembly

Note: Use OPW 89 Extractor Wrenches (See Page 186)

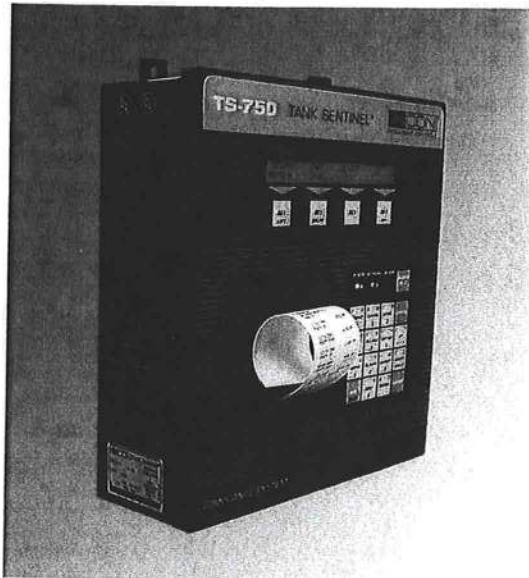
Replacement Parts

OPW 233V and 233VM

Part No.	Description
H-08932	Cage SA
233VP-6046	Test Plug

TANK SENTINEL® – Compliance Kit

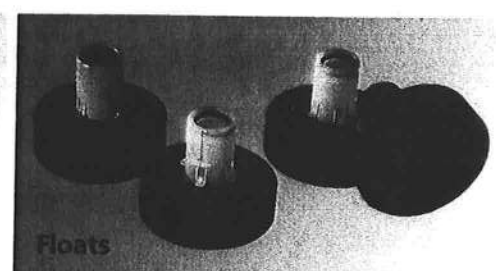
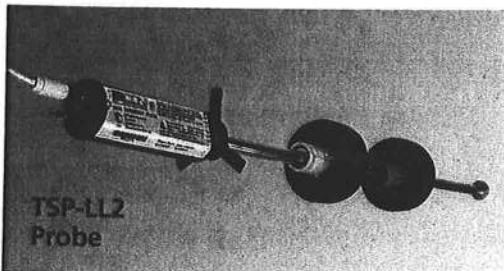
TS-750



The TS-750 kit is a complete, easy to order and cost effective solution for your environmental compliance needs. It provides inventory control and leak detection for sites with up to 4 underground storage tanks.

Features

- Designed specifically to deliver cost-effective environmental compliance
- TS-750 compliance tank gauge includes printer
- Can accommodate up to 8 sensors and 4 probes
- Provides real-time, accurate inventory and delivery information for each tank monitored
- Optional, continuous, 24 hour leak testing (SCALD)
- Capable of multiple alarm modes
- Can control remote visual and audible alarms
- Easily programmed to meet site-specific criteria
- Uses INCON's magnetostrictive technology probes for unparalleled accuracy
- Reports product and water levels in tank
- Temperature compensated
- Will accommodate tanks up to 12 feet in diameter
- Kits provide for easy ordering and great value



TANK SENTINEL® – Compliance Kit

TS-750

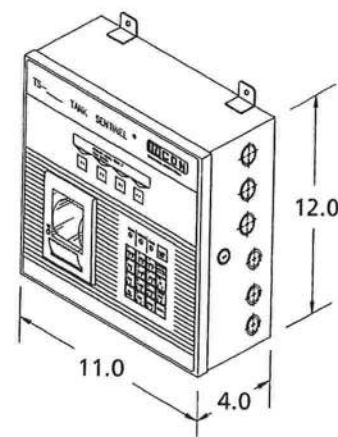
Specifications

Unit Model	TS-750	TSP-LL2-nnn
Dimensions	12"H x 11"W x 4"D	Varies (nnn+shaft Length)
Operating Temperature	32 - 122°F (0 - 50°C)	14 - 122°F (-10 - 50°C)
Storage Temperature	-4 - 140°F (-20 - 60°C)	-40 - 158°F (-40 - 70°C)
Intinsic Safety Rating		Class 1, Div. 1, Group D
Form C Relay Output Channels	2	
Leak Detection Sensor Input Channels	8	

The following specifications apply to all models:

Number of Tanks Monitored	1, 2, 3, or 4
Applicable Liquids	Petroleum
Level Units	Inches or (millimeters)
Volume Units	Gallons or (Liters)
Display Type	Alphanumeric LCD
Display size	2 lines of 40 characters
Printer type	24 column thermal
Power requirements	117 + 10% VAC 50 Watts Maximum

Console Dimensions



Order Kit Number

T750P/1	=	TS-750/Printer/1 Tank
T750P/1S	=	TS-750/Printer/1 Tank/SCALD
T750P/2	=	TS-750/Printer/2 Tanks
T750P/2S	=	TS-750/Printer/2 Tanks/SCALD
T750P/3	=	TS-750/Printer/3 Tanks
T750P/3S	=	TS-750/Printer/3 Tanks/SCALD
T750P/4	=	TS-750/Printer/4 Tanks
T750P/4S	=	TS-750/Printer/4 Tanks/SCALD

All Kits Include:

- TS-750 Tank Gauge
- Installation Kits
- Probes
- 4 inch Float Sets

Ordering Information

The TS-750 is available in kit form, designed specifically for underground fuel storage tank sites. When ordering, specify the number of tanks, the diameter of each tank, and the product type for each tank. INCON will provide the appropriate TS-750 tank gauge, probes, floats, and installation kits for each site.

INCON®



Franklin Fueling Systems

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Madison, WI 53718, U.S.A.
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Tel: USA & Canada 1 800 225 9787
Tel: Mexico 001 800 738 7610
www.franklinfueling.com



000-0191 Rev. B 3/04

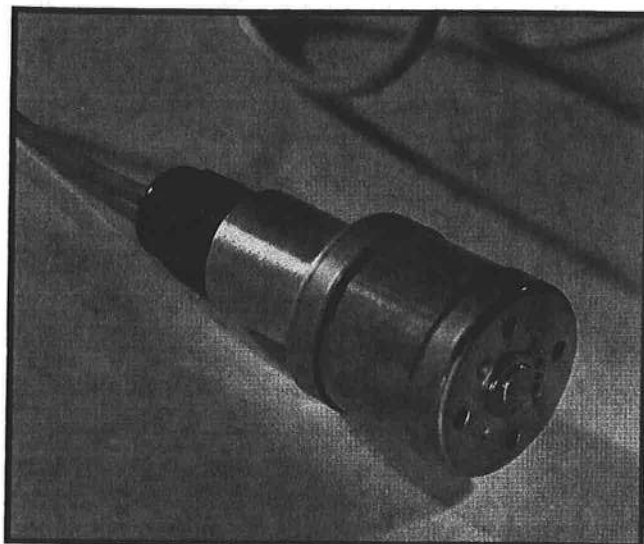


TSP-ULS

DATA SHEET

TANK SENTINEL®

BriteSensor®, Universal Liquid Sensor



The TSP-ULS Liquid Sensor is a low-cost liquid sensor which may be used with all Tank Sentinel® automatic tank gauge (ATG) consoles. Based on float-switch technology and made of chemically resistant materials, the TSP-ULS may be installed in sumps, dispenser pans, steel double-wall tanks or other locations where the presence of liquid indicates a leak has occurred.

■ **Highly reliable float technology and closed output circuit ensures that leaks are detected**

■ **Chemically-resistant materials assure compatibility with most liquids**

INCON®

INTELLIGENT CONTROLS

000-1254 Rev. F 7/99

FUNCTIONALITY

Utilizes float switch technology to indicate if a leak has occurred.

INSTALLATION

Each TSP-ULS comes with 25-foot cable. NPT thread (1/2") is provided on the compression gland fitting attached to the sensor's cable, allowing it to be suspended from standard electrical boxes and fittings. Sensor may be positioned vertically by adjusting cable length.

For steel interstitial tanks, TSP-ULS is lowered into the opening provided on the tank and is suspended by optional TSP-KI2 installation kit.

Other mounting methods available depending upon application and location.

ORDERING INFORMATION

TSP-ULS **Universal Liquid Sensor**

Optional Accessory:

TSP-KI2 Interstitial Sensor Riser Cap Kit



FOR MORE INFORMATION CALL:

800-872-3455

74 Industrial Park Road, P.O. Box 638, Saco, Maine 04072

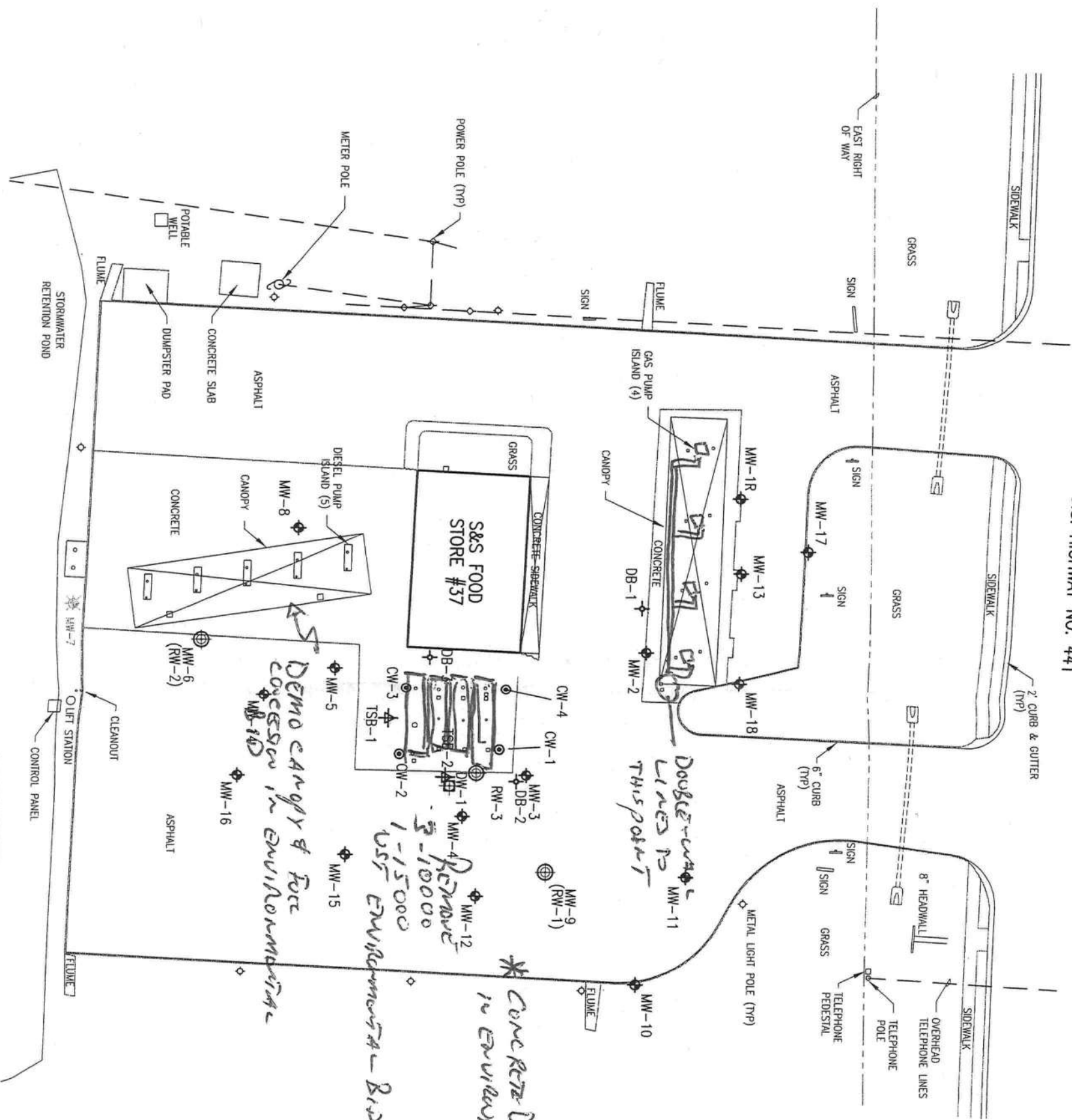
Phone: 207-283-0156/Fax: 207-283-0158

www.intelcon.com/e-mail: sales@intelcon.com

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SENSORS

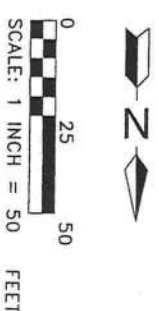
U.S. HIGHWAY NO. 441



Existing Plan

LEGEND

- MONITORING WELL
- RECOVERY WELL
- COMPLIANCE WELL
- DEEP MONITORING WELL
- DEEP BORING
- TANK BORING
- DESTROYED MONITORING WELL



SITE MAP

NO.	DATE	REVISIONS
0	Mar-07	LSRAP Implementation Proposal
	DESIGNED	CHECKED
	SGI	LMA
		PJM
		DATE
		03/16/07
		MACTEC PROJECT NUMBER: Proposal



Newberry, Florida
352-332-3318

S&S FOOD STORE #37
3519 NORTH HIGHWAY 441
LAKE CITY, COLUMBIA COUNTY, FLORIDA
FAC ID: 12/8944278

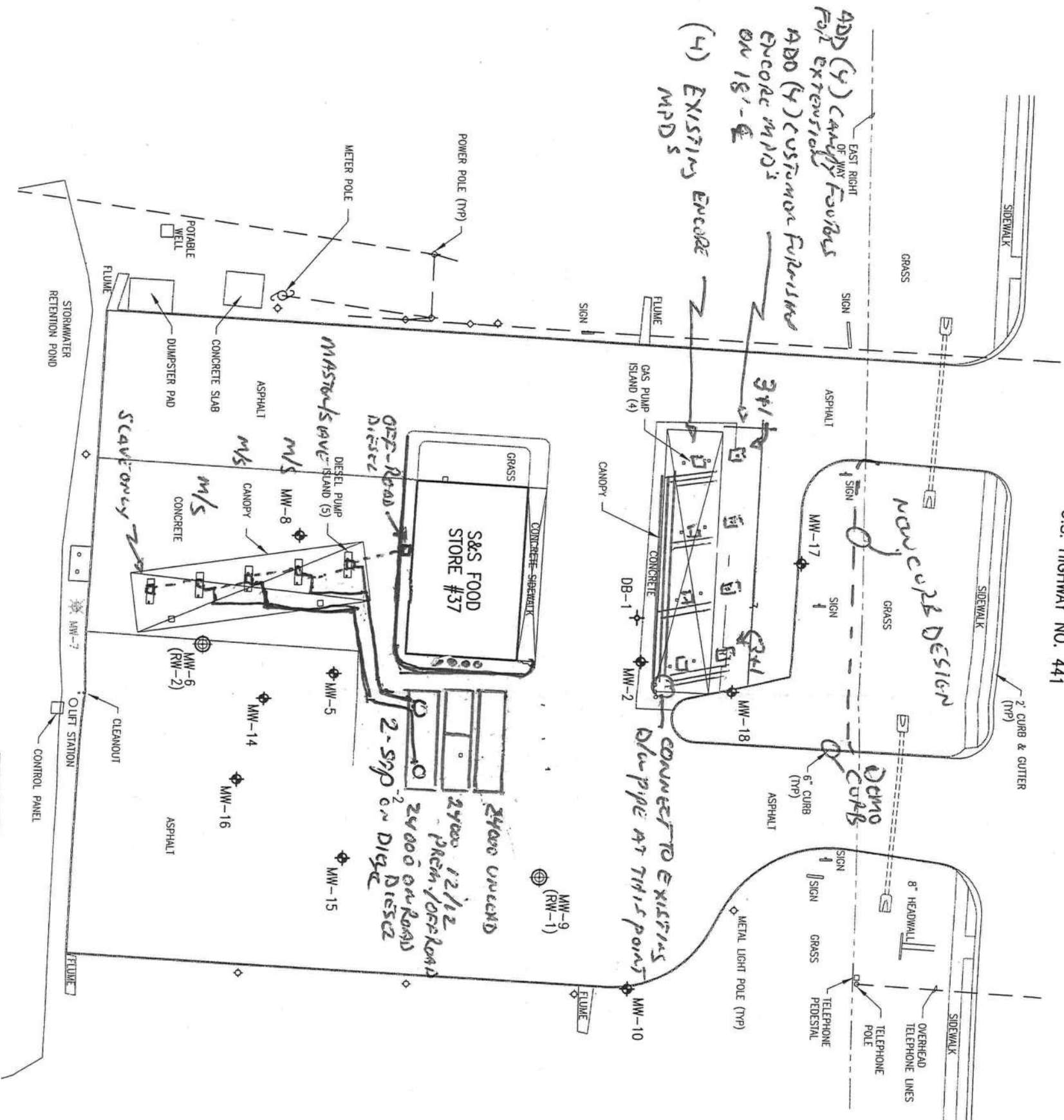
**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

FIGURE:

2

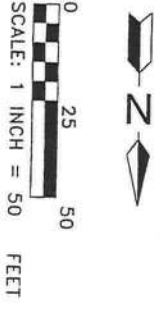
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U.S. HIGHWAY NO. 441



Proposed Plan

- LEGEND**
- MONITORING WELL
 - RECOVERY WELL
 - COMPLIANCE WELL
 - DEEP MONITORING WELL
 - DEEP BORING
 - TANK BORING
 - DESTROYED MONITORING WELL



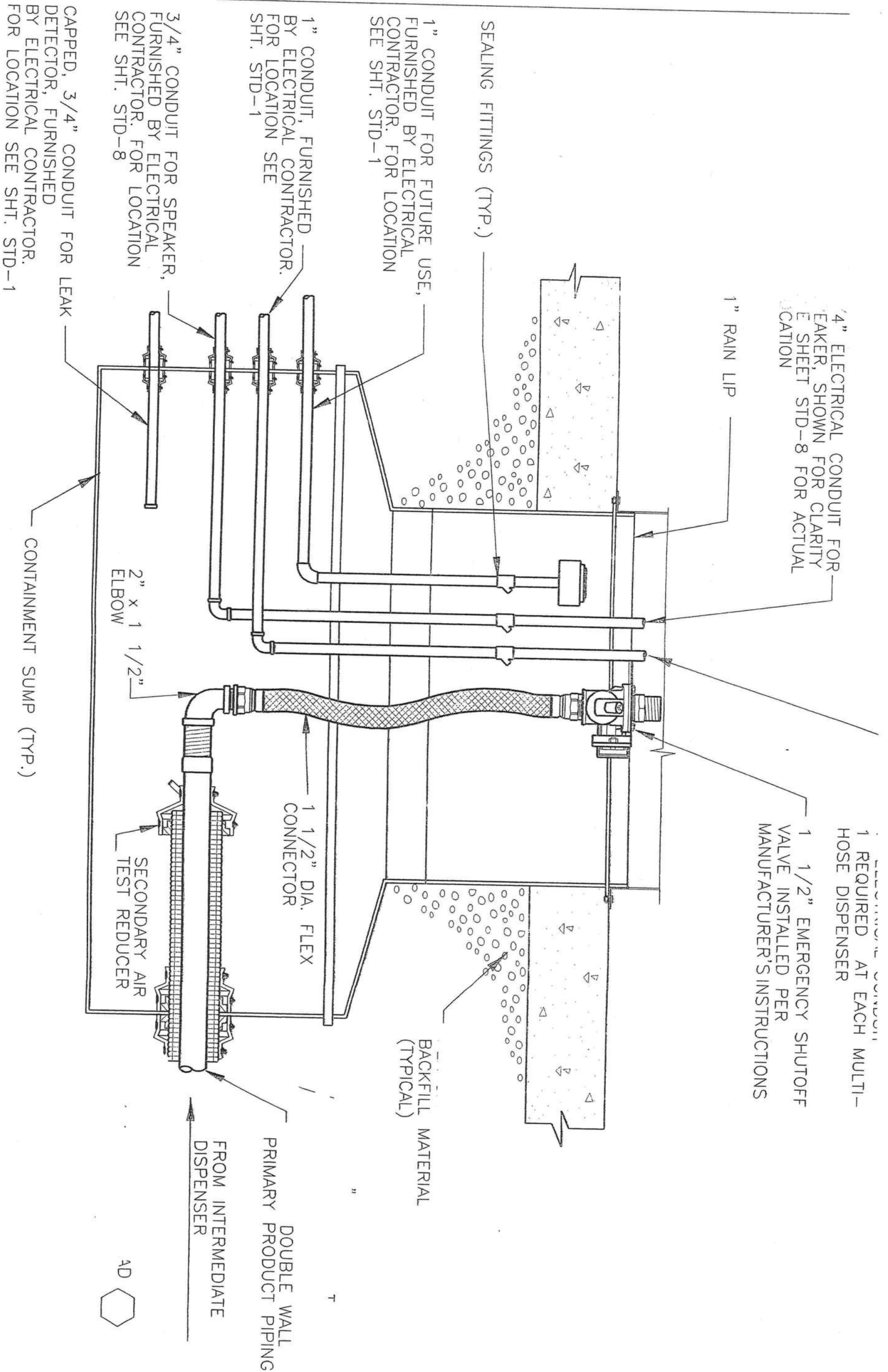
SITE MAP

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MACTEC
Newberry, Florida
352-332-3318

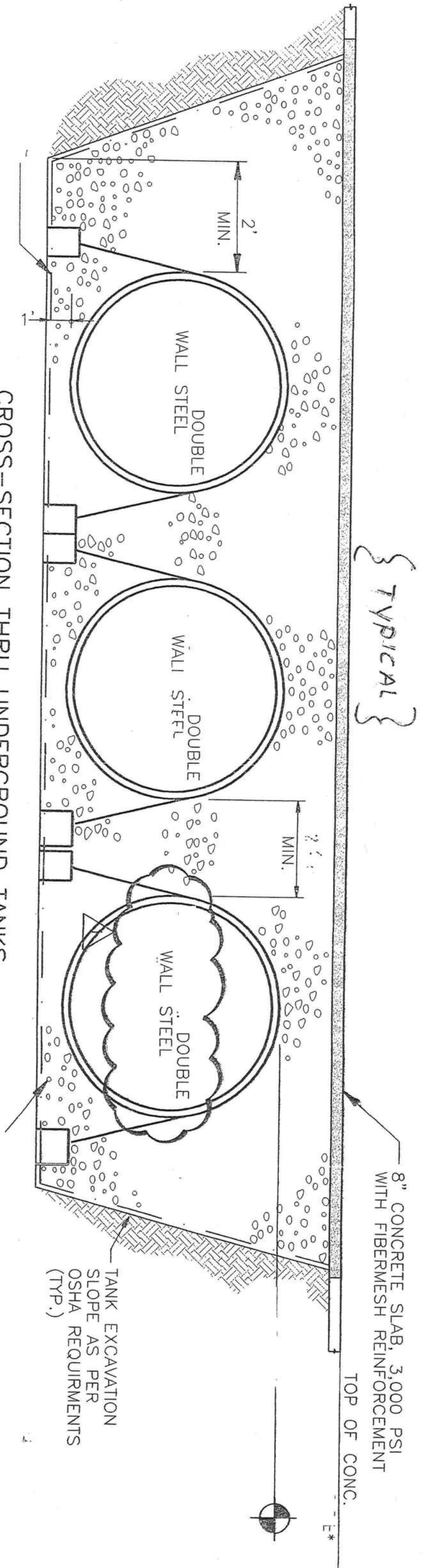
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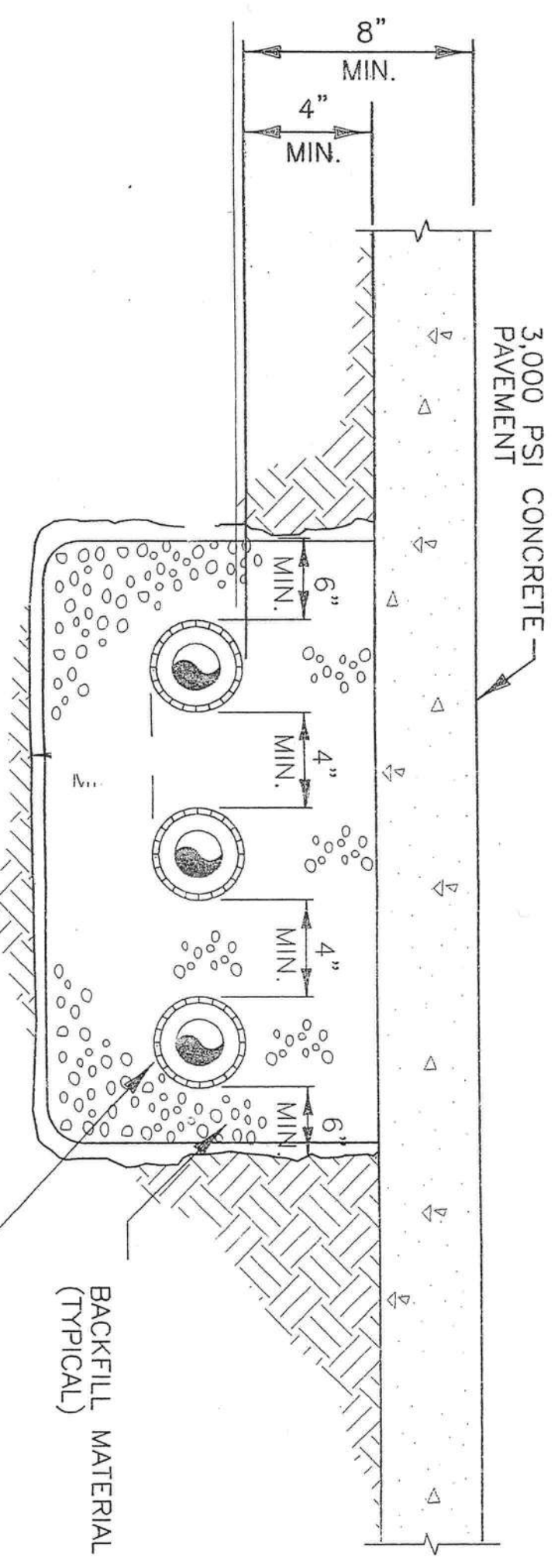


Typical
SUMP SECTION AT END GASOLINE DISPENSER

NOT TO SCALE



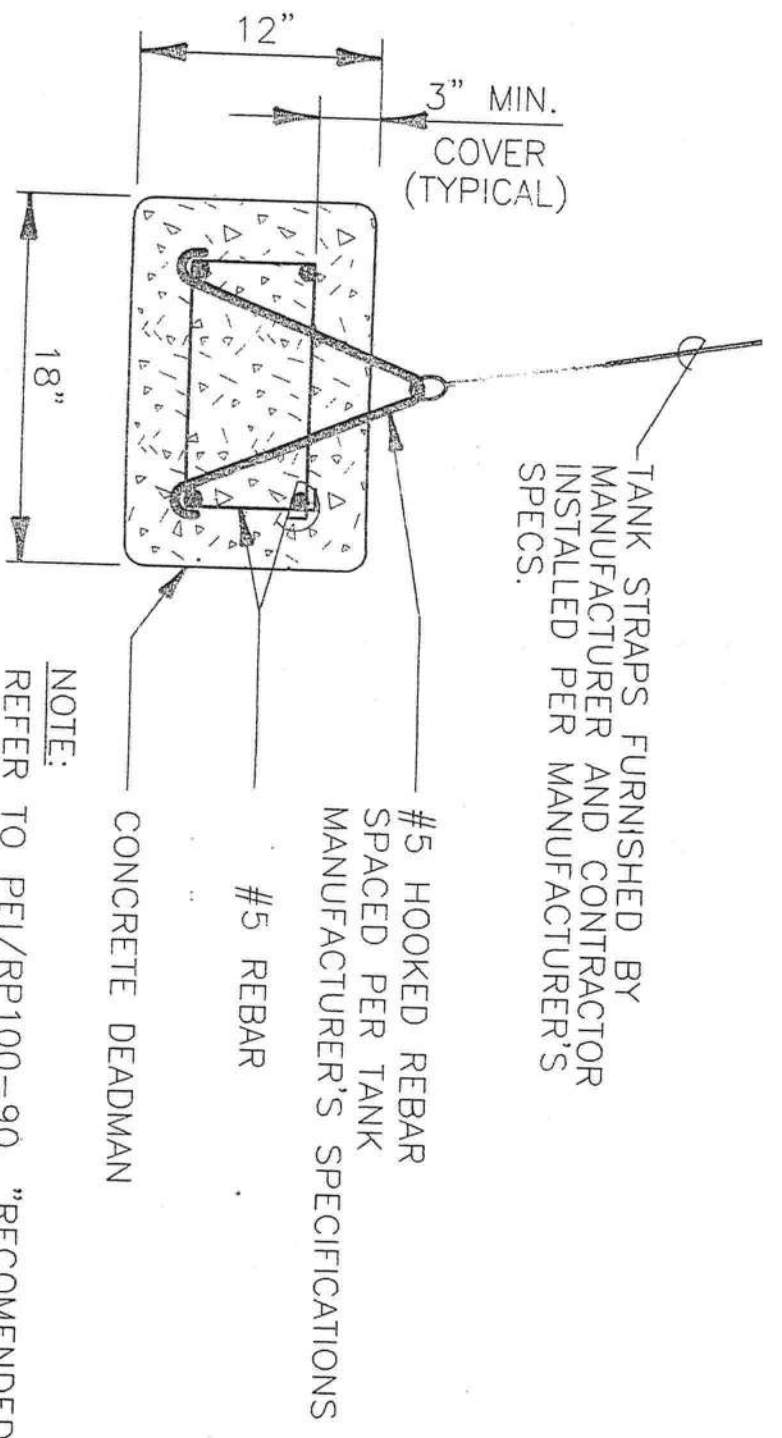
CROSS-SECTION THRU UNDERGROUND TANKS
NOT TO SCALE



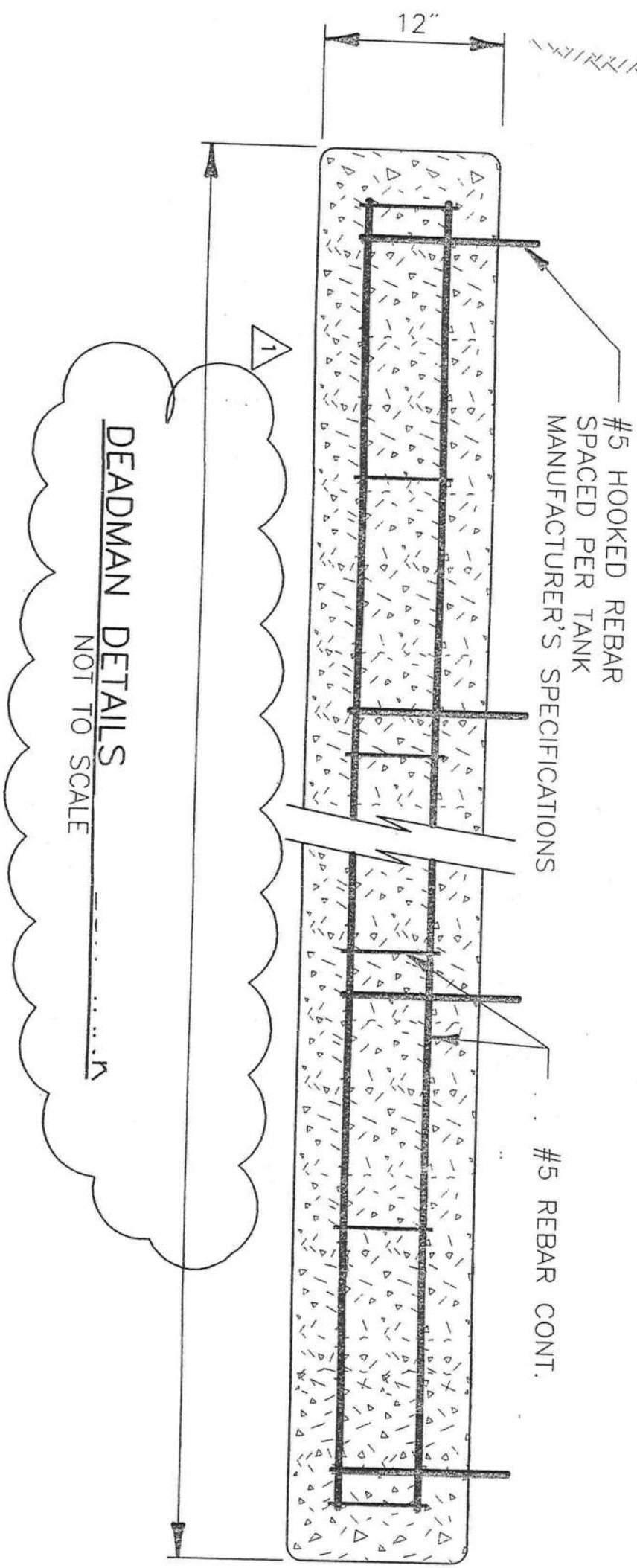
DEPTH MUST PERMIT SLOPING OF PIPE TO TANK AREA

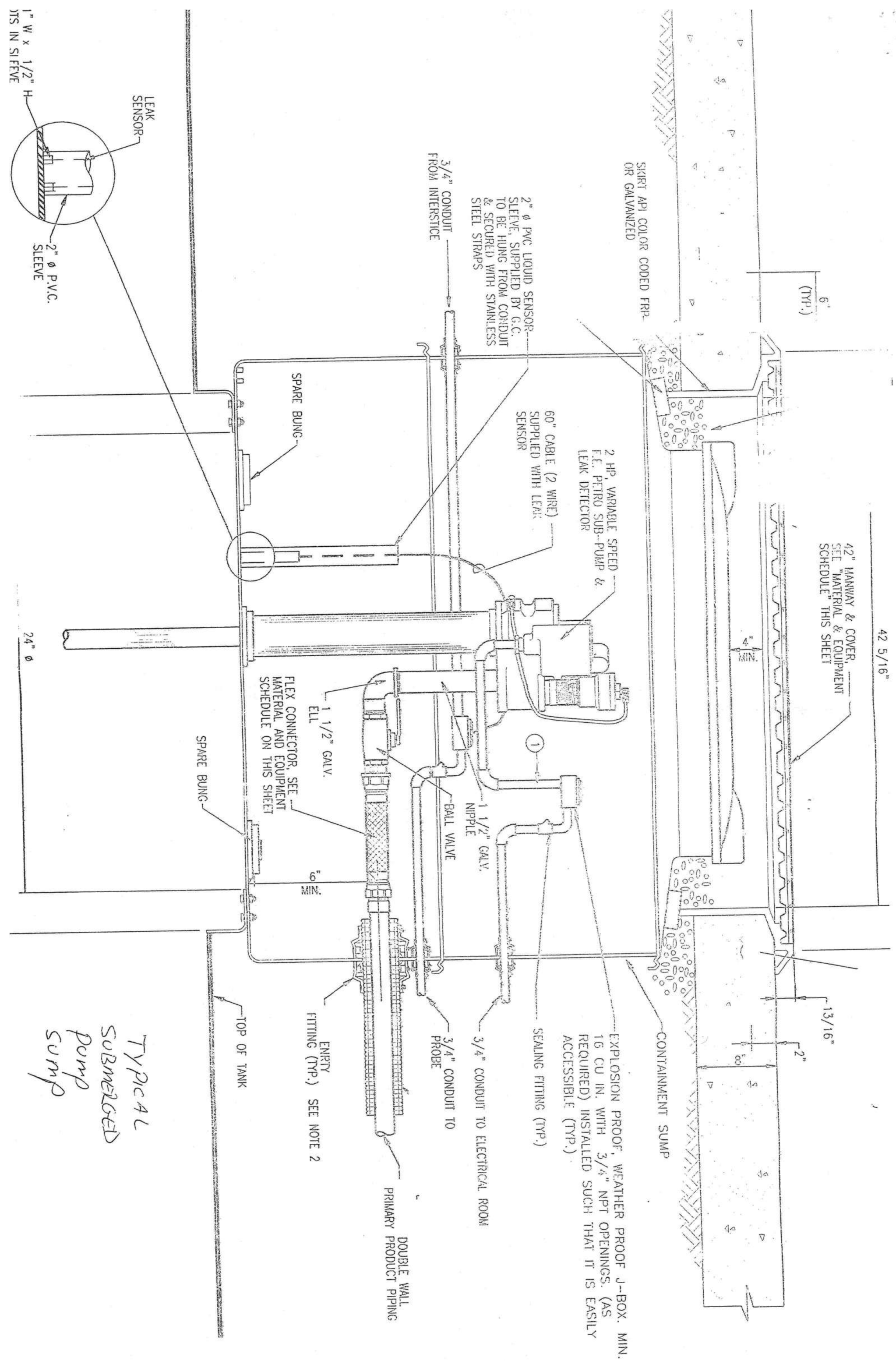
TYPICAL PIPE BURIAL DETAIL
NOT TO SCALE

BACKFILL MATERIAL (TYPICAL)
PIPING - DOUBLE WALL PRODUCT

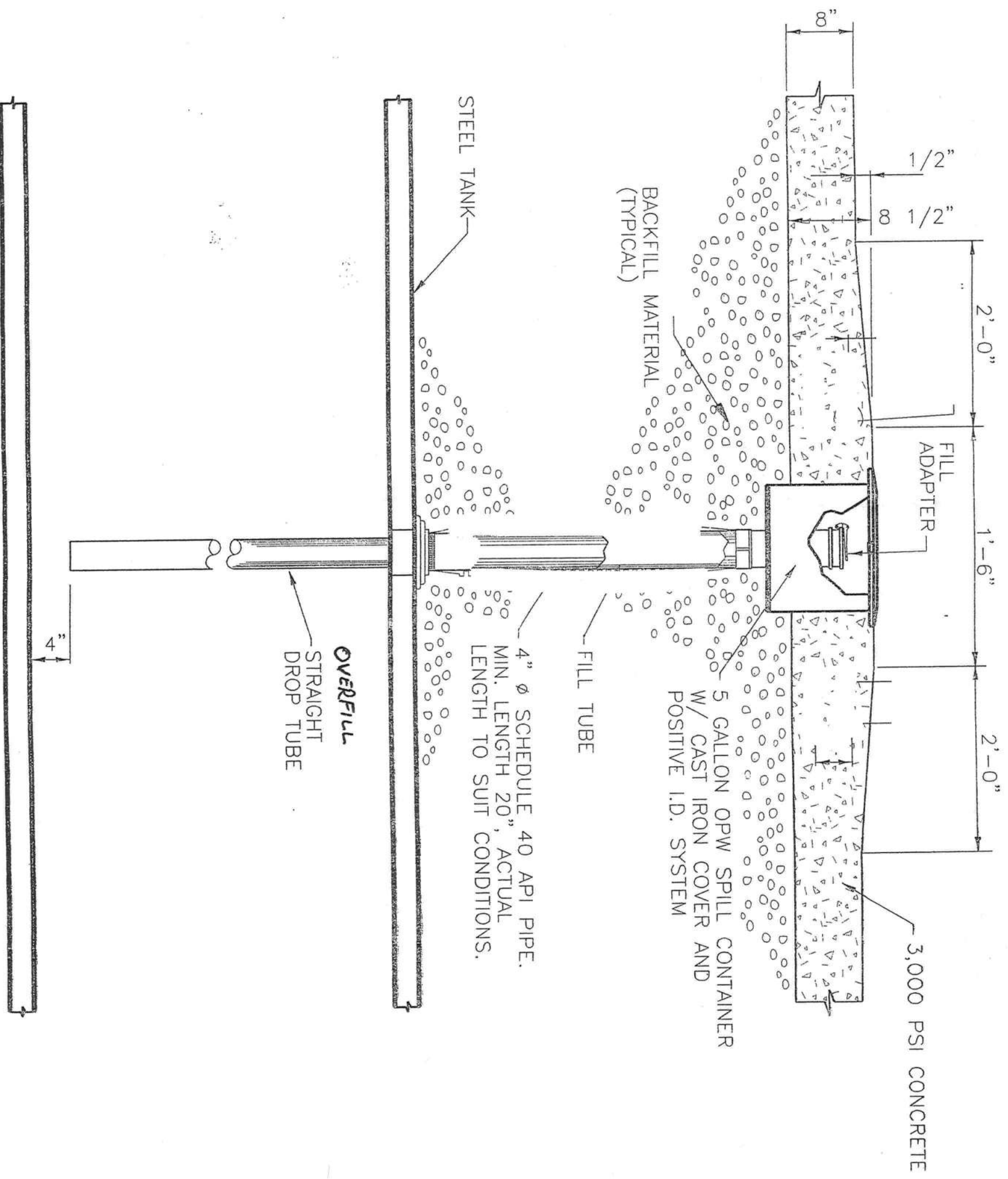


NOTE:
REFER TO PEI/RP100-90, "RECOMMENDED PRACTICES FOR THE INSTALLATION OF UNDER-GROUND LIQUID STORAGE TANKS", SECTION 5.





Typical
Submerged
Pump
Sump



Y9033J17

TANK FILL DETAIL

Y9033J17