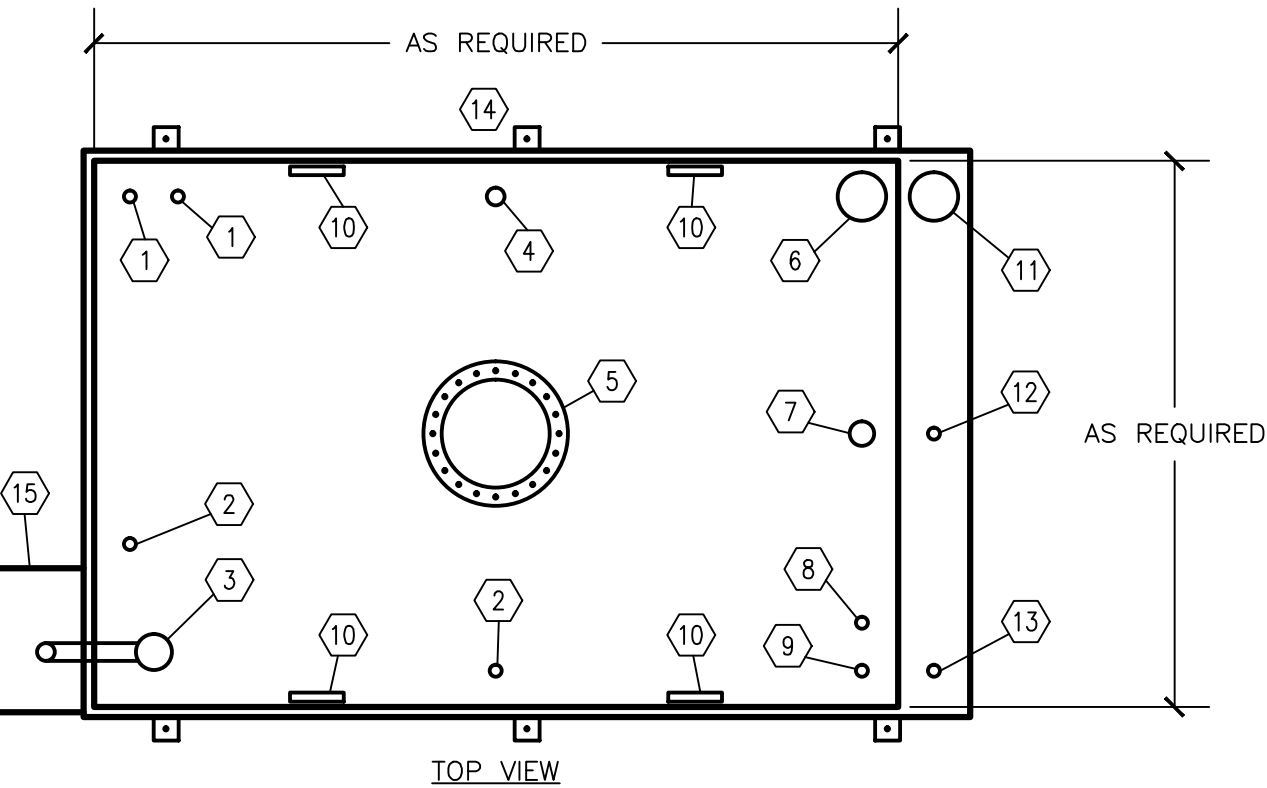
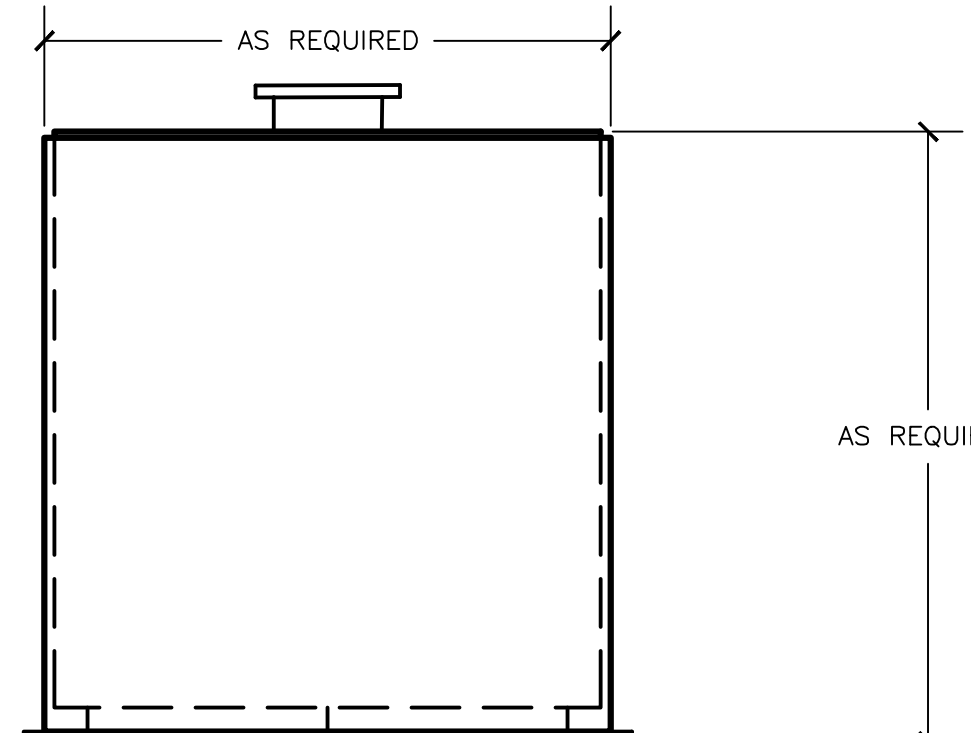
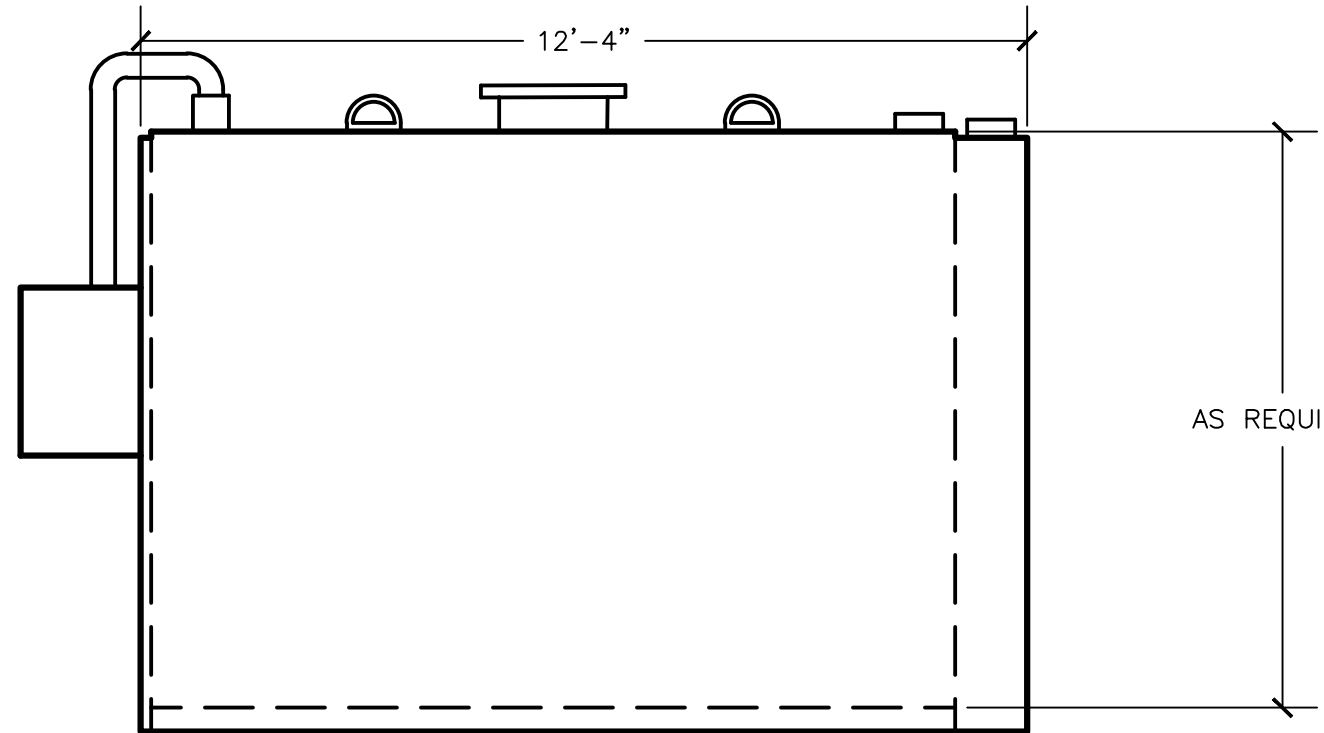


1 FUEL OIL PIPING DIAGRAM - DEMOLITION & NEW WORK



ITEM	SIZE	SUGGESTED USE
1	2"	SPARE
2	2"	MECHANICAL GAUGE/ SPARE
3	6"	FILL
4	3"	PRIMARY TANK WORKING VENT
5	18"	ABOVE LIQUID MANHOLE
6	8"	PRIMARY TANK EMERGENCY VENT
7	4"	SPARE
8	2"	RETURN
9	2"	SUPPLY
10	LARGE	LIFTING LUG
11	8"	SECONDARY CONTAINMENT EMERGENCY VENT
12	2"	SECONDARY MONITOR PORT
13	2"	SECONDARY WORKING VENT
14	2"	EXTENDED CHANNEL FOR ANCHORING (TYP 6)
15	3" PIPE	MORRISON 3QBB REMOTE FILL BOX



2 FUEL TANK (FT-3) DETAIL

GENERAL NOTES:

A. TANK REMOVAL

- VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- PRIOR TO REMOVAL OF EXISTING TANK, REMOVE ALL LIQUID FROM TANK, DISCONNECT AND DRAIN ALL PIPING AND SENSORS EXCEPT FOR VENT PIPING, TRIPLE RINSE TANKS, TAKE LEL READING IN PRESENCE OF LOCAL FIRE MARSHAL, AND IF RATING IS ABOVE 20%, CONTRACTOR SHALL PURGE TANK w/ DRY ICE AT A RATE OF 1.5# PER 100 GALLON TANK CAPACITY. WHEN READING IS BELOW 20%, REMOVAL WORK MAY PROCEED. COMPLETE REMOVAL PROCESS SHALL BE IN ACCORDANCE WITH API 1604.
- COMPLETE REMOVAL PROCESS SHALL BE IN STRICT ACCORDANCE WITH STATE OF NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) AND WASHOE COUNTY DISTRICT HEALTH DEPARTMENT. CONTACT WCDHD AT 328-2434 30 DAYS PRIOR TO REMOVAL & FOR MOST CURRENT REQUIREMENTS.

B. INSTALLATION

- INSTALL NEW TANK PER MANUFACTURERS RECOMMENDATIONS AND AS SHOWN ON DRAWINGS.
- ANCHOR NEW TANK SUPPORTS TO NEW CONCRETE SLAB AS NOTED ON STRUCTURAL DRAWINGS.

C. FUEL

- CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSFERRING AND/OR STORAGE OF ALL FUEL, FROM THE EXISTING TANKS BEING REMOVED, TO THE NEW TANK. COMPLETE TRANSFER OF FUEL AND ANY REQUIRED CLEAN-UP SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

D. DISPOSAL

- CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL REMOVED FUEL OIL AND ANY CONTAMINATED SOILS IN COMPLETE ACCORDANCE WITH STATE OF NEVADA HEALTH DEPARTMENT AND ALL EPA STANDARDS.

GENERAL NOTES CONT'D:

E. TESTING

- ISOLATE PIPING FROM TANK AT TANK FITTING AND SUBJECT SUPPLY AND RETURN PIPING TO AN AIR TEST AT 60 PSI FOR A 4-HOUR PERIOD WITH NO LOSS OF PRESSURE.
- TEST BOTH INNER AND OUTER TANK PRIOR TO INSTALLATION AND AFTER INSTALLATION AS RECOMMENDED BY MANUFACTURER.
- TEST RUN ALL EQUIPMENT.
- AFTER EXISTING, BELOW GRADE FUEL TANK IS REMOVED, CONTRACTOR TO INSPECT HOLE FOR EVIDENCE OF SOIL CONTAMINATION AND SHALL BE RESPONSIBLE FOR SOIL TESTS IN ACCORDANCE WITH MOST CURRENT NDEP REQUIREMENTS. TEST SHALL INCLUDE AS A MINIMUM A TPH (TOTAL PETROLEUM HYDROCARBON) TEST AT TWO LOCATIONS. TEST SHALL BE DONE BY A LICENSED TESTING AGENCY, ALPHA ANALYTICAL, INC., (355-1044) OR EQUAL.
- IF TESTS INDICATE CONTAMINATION, ADDITIONAL EXCAVATION WILL BE REQUIRED TO CLEAN UP SITE, CONTACT VA COTR REPRESENTATIVE TO MAKE ARRANGEMENTS FOR ADDITIONAL COSTS INCLUDED FOR SITE CLEAN UP.
- CONTRACTOR TO OBTAIN WRITTEN CERTIFICATION FROM GOVERNING AUTHORITIES THAT NEW TANK INSTALLATION IS IN COMPLETE COMPLIANCE WITH ALL CURRENT REQUIREMENTS.

Plumbing Legend

ABBR.	SYMBOL	DESCRIPTION
S OR W	---	SEWER OR WASTE BELOW GRADE / FLOOR
S OR W	---	SEWER OR WASTE ABOVE GRADE / FLOOR
V	---	VENT
CW	---	COLD WATER
HW	---	HOT WATER SUPPLY
HWR	---	RECIRCULATING HOT WATER
	MA	MEDICAL AIR
	MV	MEDICAL VACCUUM
	O	OXYGEN
	NO	NITROUS OXIDE
	N	NITROGEN
	G	GAS - LOW PRESSURE
	HA	WATER HAMMER ARRESTOR, LETTER = SIZE
WHA	HA	WATER HAMMER ARRESTOR, LETTER = SIZE
HB	HB	HOSE BIBB
VTR	VTR	VENT THRU ROOF
CO, WCO	CO, WCO	CLEANOUT, WALL CLEANOUT
GCO, FCO	GCO, FCO	GRADE, FLOOR CLEANOUT
FD	FD	FLOOR DRAIN
WH	WH	WATER HEATER
	D	DRAIN PIPING
GV, SOV	GV, SOV	GATE VALVE, SHUT OFF VALVE
BV	BV	BALL VALVE
TDV	TDV	TRIPLE DUTY VALVE
CV	CV	CHECK VALVE
FCV	FCV	FLOW CONTROL VALVE
STR	STR	STRAINER
	U	UNION
BFP	BFP	BACKFLOW PREVENTER
BFV	BFV	BUTTERFLY VALVE
	+	RISER DOWN
	+	RISER UP
	+	DROP
	+	RISER UP
	+	BRANCH - TOP CONNECTION
	+	BRANCH - BOTTOM CONNECTION
	+	BRANCH - SIDE CONNECTION
	+	CAP ON END OF PIPE
DIA	Ø	DIAMETER
TYP	TYP	TYPICAL
GPM	GPM	GALLONS PER MINUTE
AFF, BFF	AFF, BFF	ABOVE, BELOW FINISHED FLOOR
AFG, BFG	AFG, BFG	ABOVE, BELOW FINISHED GRADE
POC	POC	POINT OF CONNECTION
POD	POD	POINT OF DISCONNECT
F.H.C.	F.H.C.	FIRE HOSE CABINET
W.S.P.	W.S.P.	WET STANDPIPE
S.C.	S.C.	SILVER COLLECTION
ODL	ODL	OVERFLOW DRAIN LEADER
RDL	RDL	ROOF DRAIN LEADER
RD	RD	ROOF DRAIN
OFD	OFD	OVERFLOW DRAIN
CRD	CRD	COMBINATION MAIN AND OVERFLOW DRAIN
F.A.	F.A.	FROM ABOVE
F.B.	F.B.	FROM BELOW
T.B.	T.B.	TO BELOW
FOS	FOS	FUEL OIL SUPPLY
FOR	FOR	FUEL OIL RETURN

Sheet Index

Plumbing	PP000	Plumbing Legend, Schedules, Details and Sheet Index
Plumbing Remodel	PP101	Fuel Oil Piping Demolition & New Work Plans

PLUMBING FIXTURE SCHEDULE

FT-3
CUSTOM PROTECTED 5,000 GALLON, ABOVE GRADE VAULT TANK, UL 2085 LABELED DOUBLE WALL FUEL STORAGE TANK WITH EPOXY EXTERIOR FINISH. SUPPLY WITH MORRISON 3QBB REMOTE FILL BOX WITH 2" FILL LIMITER VALVE WITH DROP TUBE, QUICK CONNECT AND LOCKABLE COVER, 6" EMERGENCY VENT FOR BOTH PRIMARY AND SECONDARY TANKS, EMERGENCY GENERATOR PACKAGE INCLUDING 2" UPFLOW VENT WITH RISER PIPE, DOUBLE TAPPED BUSHING WITH 1" INTERNAL SUCTION AND RETURN LINE, MORRISON BROS. 818-0100AG CLOCK GAUGE, AND SEISMIC ANCHORS. CONTAINMENT SOLUTIONS HOOVER VAULT OR EQUAL.

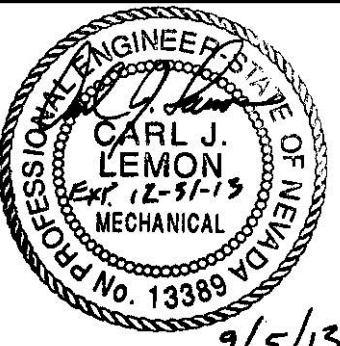


DT-2
100 GALLON, ABOVE GRADE, UL 142 LABELED, DOUBLE WALL FUEL STORAGE TANK WITH EPOXY COATING INSIDE AND EXTERIOR PAINT. SUPPLY WITH DUPLEX SUPPLY PUMPS AND MOTORS, AUTOMATIC TRANSFER SWITCH FOR LEAD/LAG CONFIGURATION, PISTON TYPE HAND PUMP (DUAL ACTION), REVERSE FLOW CONTROLLER COMPLETE WITH PUMP AND MOTOR, 60 MESH FUEL FILTER. PRYCO MODEL PY100ULDW WITH LISTED ACCESSORIES, OR EQUAL.

ELEC: (2) 20AMPS/ 115VOLT/ 1PHASE

NOTES

COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY PARAGRAPH, SUBMITTALS. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED.

Bid Documents

CONSULTANTS:  1/5/13  PETTY & ASSOCIATES, INC. MECHANICAL ENGINEERING CONSULTANTS 1375 GREG STREET, SUITE 106 SPARKS, NEVADA 89431 (775) 358-5777 FAX: 358-1119		ARCHITECT/ENGINEERS: H+K ARCHITECTS 5485 Reno Corporate Dr., Ste. 100 Reno, Nevada 89511-2262 P 775-332-6640 F 775-332-6642 hkarchitects.com		Drawings Title PLUMBING LEGEND, SCHEDULES, DETAILS & SHEET INDEX Approved: Project Director	Project Title UPGRADE EMERGENCY POWER FOR SPECIALTY CLINIC Location 975 Kirman Avenue, Reno, NV. 89502 Date September 11, 2013 Checked RA Drawn EM	Project Number 654-12-904 Building Number 10 Drawing Number PP000	Office of Construction and Facilities Management  Department of Veterans Affairs
--	--	--	--	---	--	---	---