

ABANDON UNDERGROUND PIPELINES

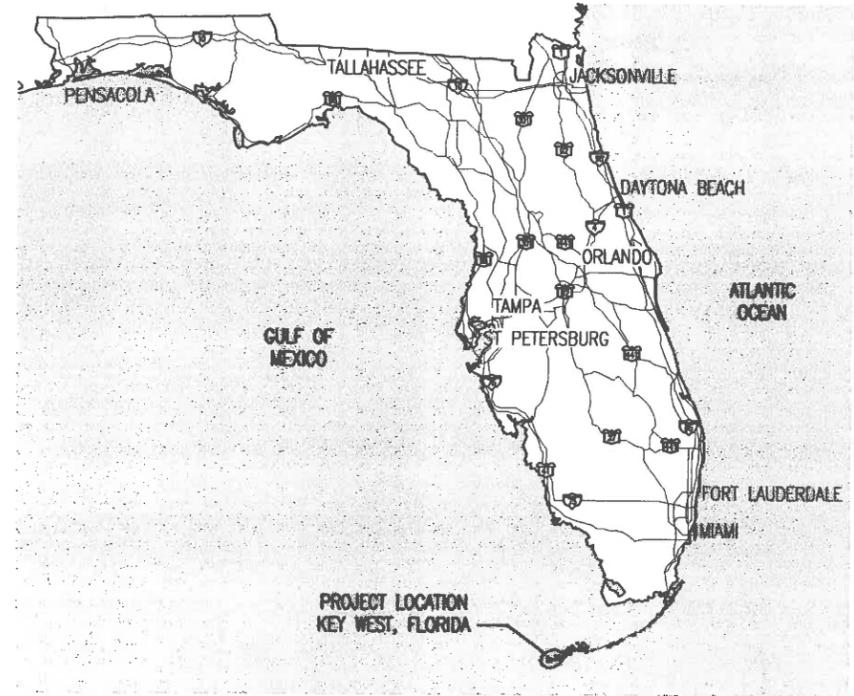
NAVAL AIR STATION KEY WEST, FLORIDA

CONSTRUCTION CONTRACT NUMBER: N62467-96-C-0850
CONSTRUCTION SPECIFICATION NUMBER: 06-96-0850

DRAWING INDEX

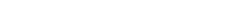
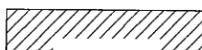
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* 2	M-1	KEY WEST FUEL PIPELINES ROUTE	
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19	M-18	TRUCK FILL PIPELINES PHOTOGRAPHS II	

* SHEETS PROVIDED WITH 20% SUBMISSION

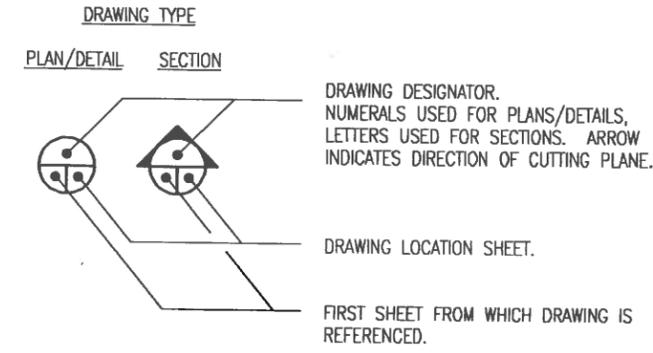


STATE OF FLORIDA
NOT TO SCALE

LEGEND

-  EXISTING UNDERGROUND PIPING
-  EXISTING ABOVEGROUND PIPING
-  REMOVE PIPING
-  PROVIDE PIPING
-  BUILDING
-  BITUMINOUS PAVEMENT
-  WATER
-  CONNECT TO EXISTING
-  CHAIN LINK FENCE
-  DOUBLE BLOCK AND BLEED PLUG VALVE
-  PLUG VALVE

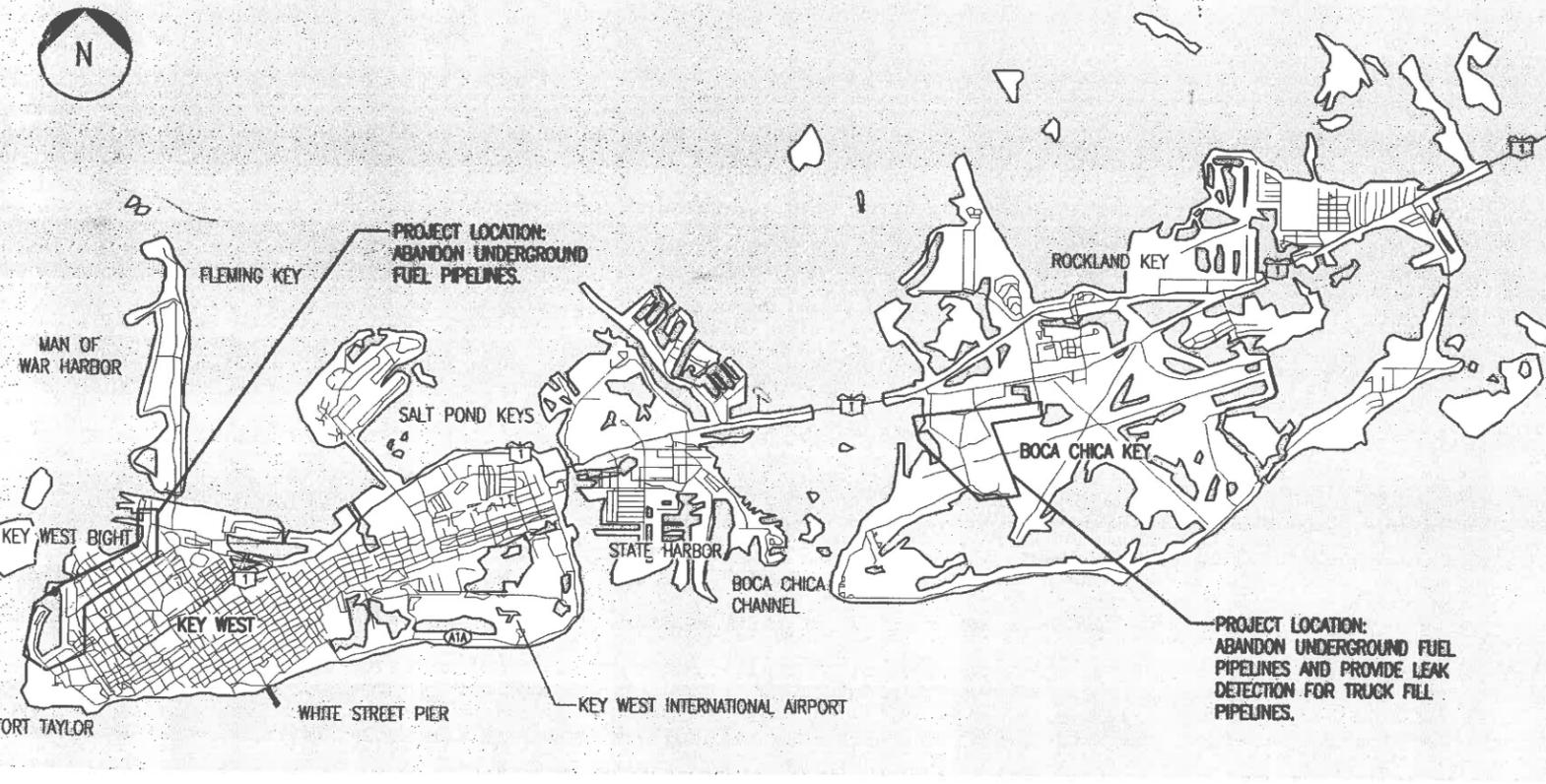
DRAWING REFERENCE SYSTEM



NOTE: SHEET DESIGNATORS ARE DISCIPLINE SHEET NUMBERS.

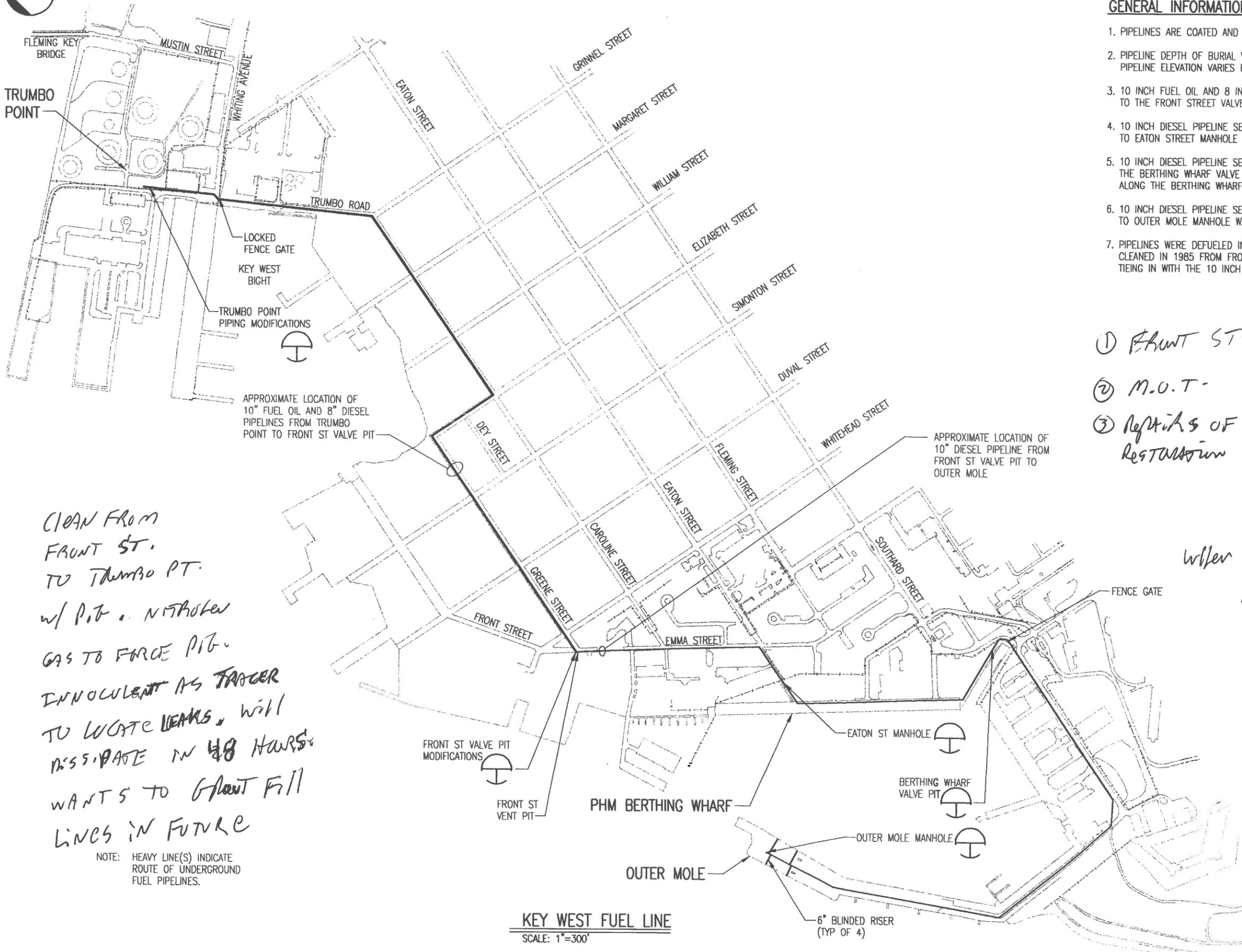
ABBREVIATIONS

AG	ABOVEGROUND
BLDG	BUILDING
CL	CENTERLINE
DB&B	DOUBLE BLOCK AND BLEED
DIA	DIAMETER
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
MFGR	MANUFACTURER
MIN	MINIMUM
NO.	NUMBER
PSIG	POUNDS PER SQUARE INCH GAGE
RPM	REVOLUTIONS PER MINUTE
S/N	SERIAL NUMBER
TDH	TOTAL DYNAMIC HEAD
TYP	TYPICAL
UG	UNDERGROUND
VP	VALVE PIT
WN	WELD NECK



KEY WEST
NOT TO SCALE

ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK
 YARMOUTH, ME.
 DOUBERTY BEANE
 MEMBER OF THE BURNS & MCDONNELL GROUP
 PREP BY DATE APPROV
 NAVFAC DRAWING NO.
 SOUTHERN DIVISION CHARLESTON, S.C.
 DEPARTMENT OF THE NAVY
 NAVAL AIR STATION KEY WEST, FLORIDA
 ABANDON UNDERGROUND PIPELINES COVER SHEET
 RECORD DRAWING DATE
 CODE LA. NO. 80091
 DRAWING SIZE: D
 SPEC. NO. 06-96-0850
 CONSTRUCTION CONTRACT NO. N62467-96-C-0850
 NAVFAC DRAWING NO.
 SHEET 1 OF 18
 T-1



GENERAL INFORMATION:

1. PIPELINES ARE COATED AND CATHODICALLY PROTECTED SCH 40 STEEL.
2. PIPELINE DEPTH OF BURIAL VARIES FROM 2 FEET TO 4 FEET AND PIPELINE ELEVATION VARIES FROM -1 FOOT TO +3 FEET MEAN SEA LEVEL.
3. 10 INCH FUEL OIL AND 8 INCH DIESEL PIPELINES FROM TRUMBO POINT TO THE FRONT STREET VALVE PIT WERE INSTALLED IN 1968-69.
4. 10 INCH DIESEL PIPELINE SEGMENT FROM FRONT STREET VALVE PIT TO EATON STREET MANHOLE WAS INSTALLED IN 1987.
5. 10 INCH DIESEL PIPELINE SEGMENT FROM EATON STREET MANHOLE TO THE BERTHING WHARF VALVE PIT WAS INSTALLED IN 1985. THE SECTION ALONG THE BERTHING WHARF WAS RELOCATED IN 1986 USING EXISTING PIPE.
6. 10 INCH DIESEL PIPELINE SEGMENT FROM BERTHING WHARF VALVE PIT TO OUTER MOLE MANHOLE WAS INSTALLED IN 1985.
7. PIPELINES WERE DEFUELED IN 1985. THE 8 INCH DIESEL PIPELINE WAS CLEANED IN 1985 FROM FRONT STREET TO TRUMBO POINT PRIOR TO TIEING IN WITH THE 10 INCH DIESEL PIPELINE.

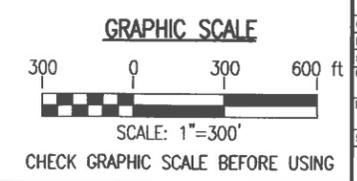
① FRONT ST.
 ② M.O.T.
 ③ REPAIRS OF LINE PROCEDURE & RESTORATION

When TO CONSTRUCT?
 Feb. 1, 97

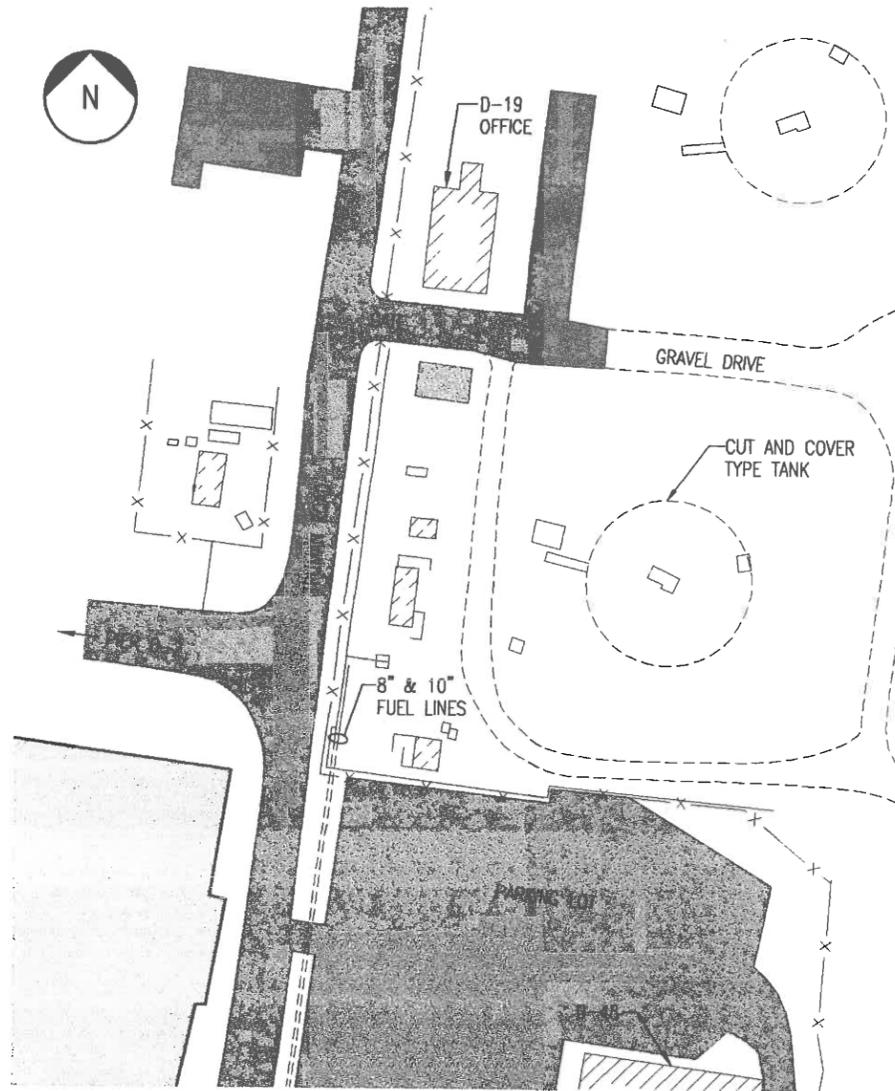
CLEAN FROM FRONT ST. TO TRUMBO PT. w/ Pit. Nitrogen GAS TO FORCE PIT. INNOCUENT AS TARGER TO WORSE LEAKS. WILL DISSIPATE IN 48 HOURS. WANTS TO GRANT FILL LINES IN FUTURE

NOTE: HEAVY LINE(S) INDICATE ROUTE OF UNDERGROUND FUEL PIPELINES.

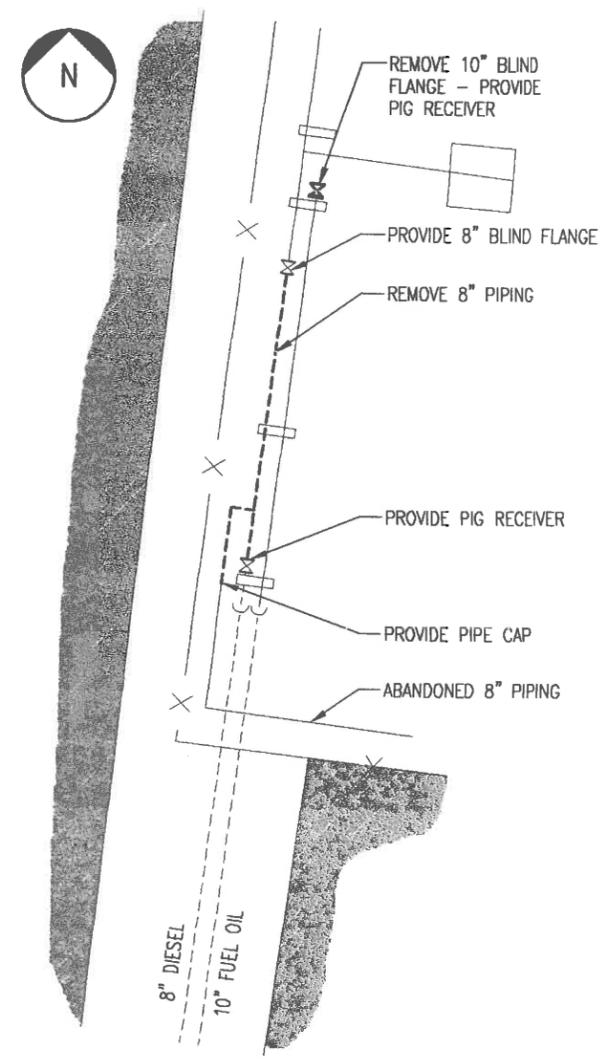
KEY WEST FUEL LINE
 SCALE: 1"=300'



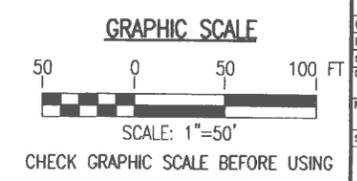
ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK	
YAKOVOUTH, ME. DOUGHERTY, ME. BEANE, ME.	SHEET NO. 2 OF 2 DATE
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CONROBERTON, S.C.	KEY WEST, FLORIDA ABANDON UNDERGROUND PIPELINES KEY WEST FUEL PIPELINES ROUTE
RECORD DRAWING DATE: CODE LD. NO.: 80001 DRAWING SIZE: D SPEC. NO.: 00-00-0000 CONTROL CENTER NO.: N62467-96-C-0850 NAWFAC DRAWING NO.:	APPROVED: M-1



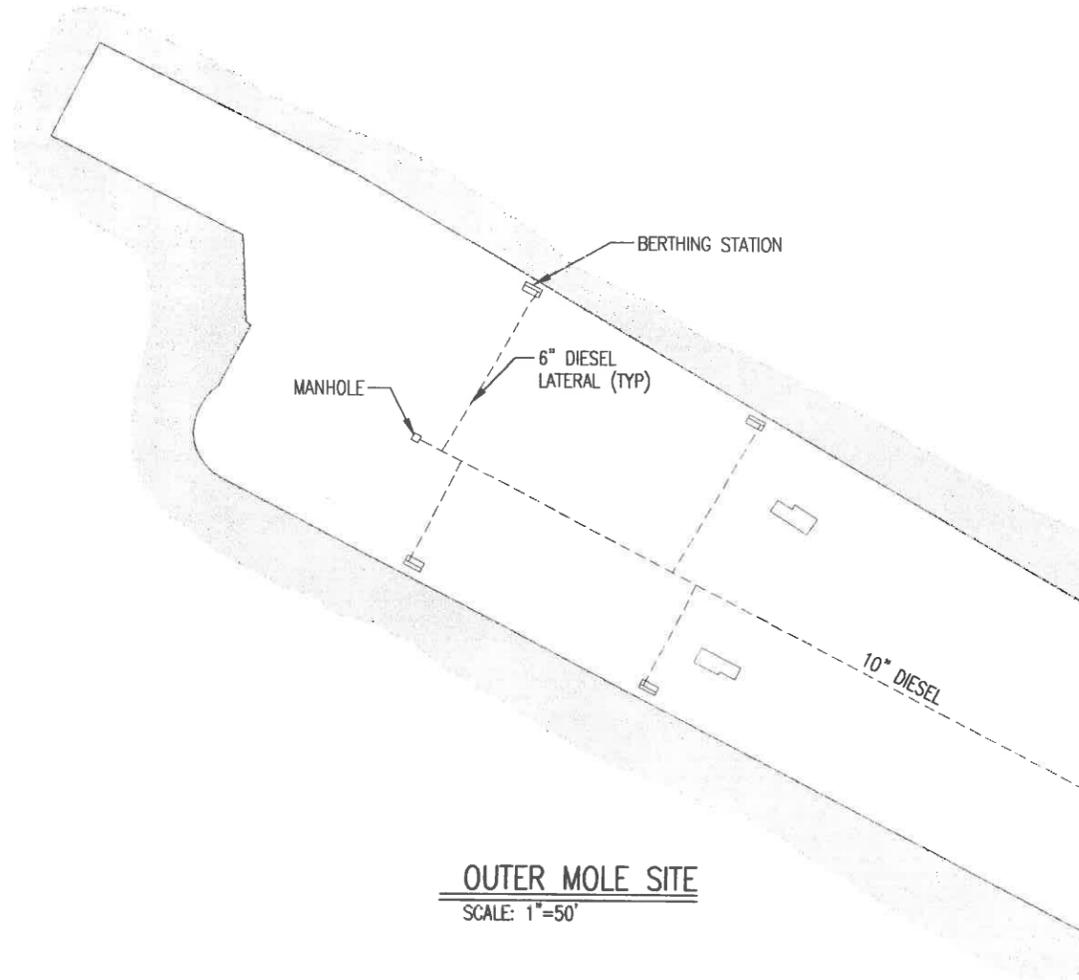
TRUMBO POINT SITE PLAN
SCALE: 1"=50'



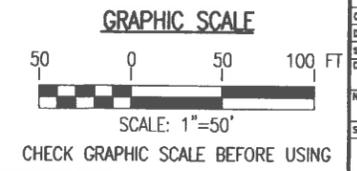
TRUMBO POINT PIPING MODIFICATION
SCALE: NOT TO SCALE



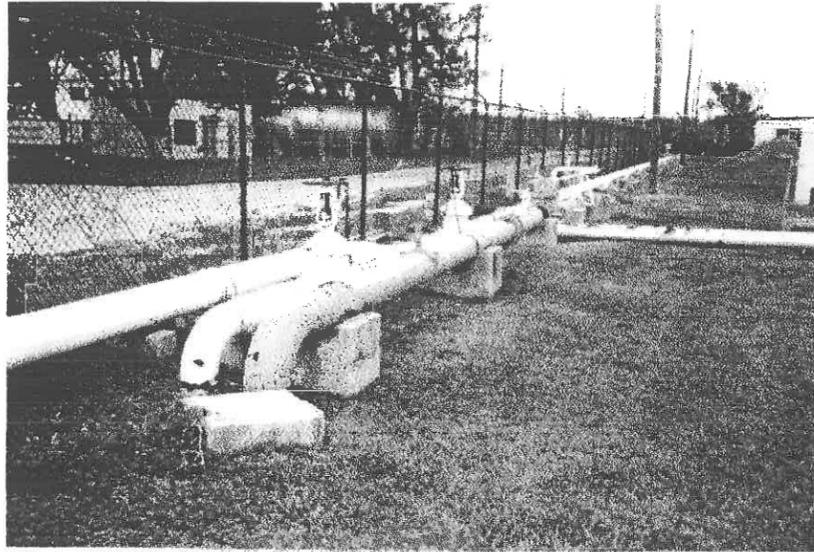
DEPARTMENT OF THE NAVY NAVAL AIR STATION ABANDON UNDERGROUND PIPELINES TRUMBO POINT PIPING MODIFICATIONS ETO FOR COMMANDER, WPTIC		SOUTHERN DIVISION CHARLESTON, S.C.		NAVAL FACILITIES ENGINEERING COMMAND KEY WEST, FLORIDA		ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK YARMOUTH, ME. DOUGHERTY BEANE MEMBER OF THE BEANE - HALL GROUP	
RECORD DRAWING DATE:	CODE LD. NO. 80091	DRAWING SIZE: D	SPEC. NO. 06-88-0200	CONSTRUCTION NO. N62467-96-C-0850	INSTRUMENT DRAWING NO.	SHEET 3 OF	DATE
SEAL AREA						APPROVED M-2	



OUTER MOLE SITE
SCALE: 1"=50'



DEPARTMENT OF THE NAVY NAVAL AIR STATION ABANDON UNDERGROUND PIPELINES KEY WEST WEST FUEL PIPELINES DETAILS		SOUTHERN DIVISION CHARLESTON, S.C. KEY WEST, FLORIDA KEY WEST FUEL PIPELINES DETAILS		NAVY FACILITIES ENGINEERING COMMAND REV. DESCRIPTION DATE APPROVED		ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK YARMOUTH, ME DAUGHERTY BEANE SHOOKS		
RECORD DRAWING DATE	CODE LD. NO.	80091	DRAWING SIZE:	D	SYTC. NO.	09-86-0800	CONSTRUCTION NO.	N62467-96-C-0850
NAVFAC DRAWING NO.	SHEET	5	OF					
M-4								

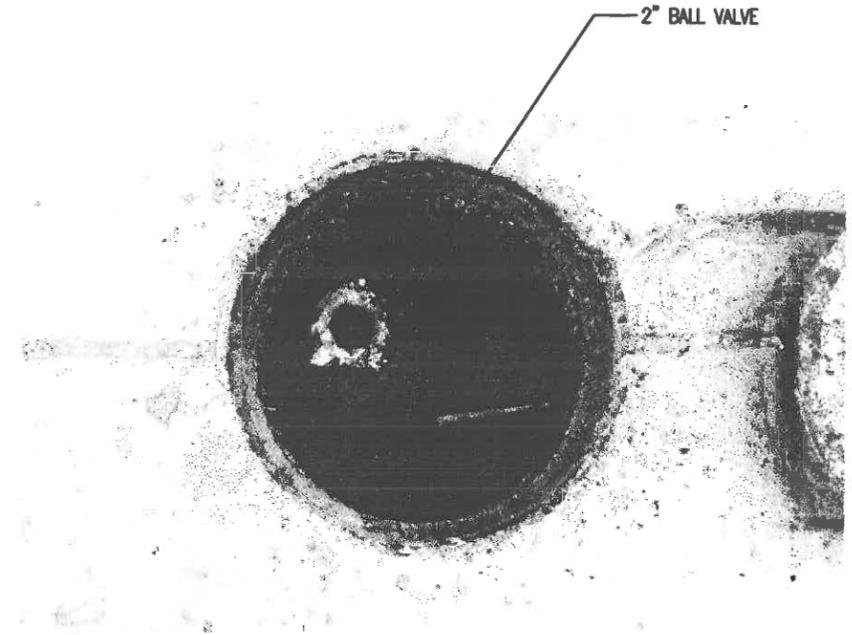


TRUMBO POINT PIPING - LOOKING NORTH



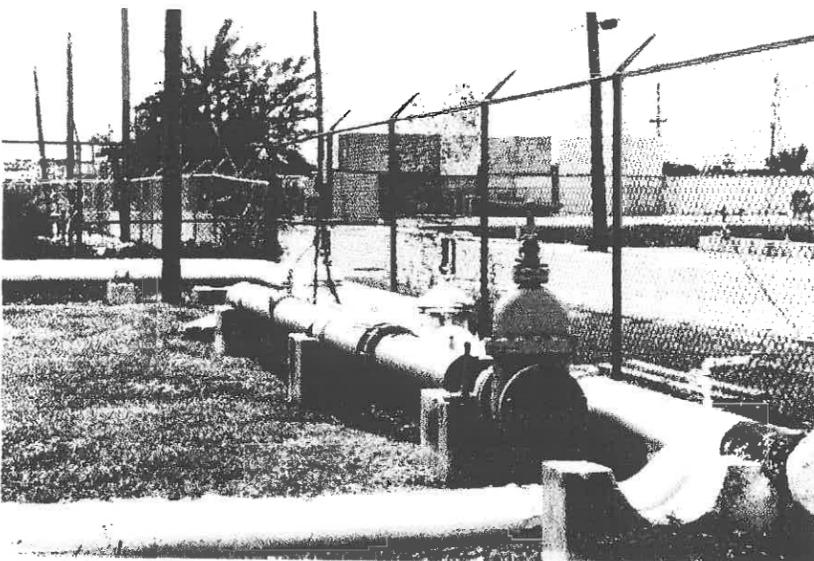
FRONT ST VALVE PIT SITE - LOOKING NORTH

FRONT STREET VALVE PIT
 8" DIESEL PIPELINE TO TRUMBO POINT
 10" FUEL OIL PIPELINE TO TRUMBO POINT
 FRONT STREET VENT
 10" DIESEL PIPELINE FROM OUTER MOLE

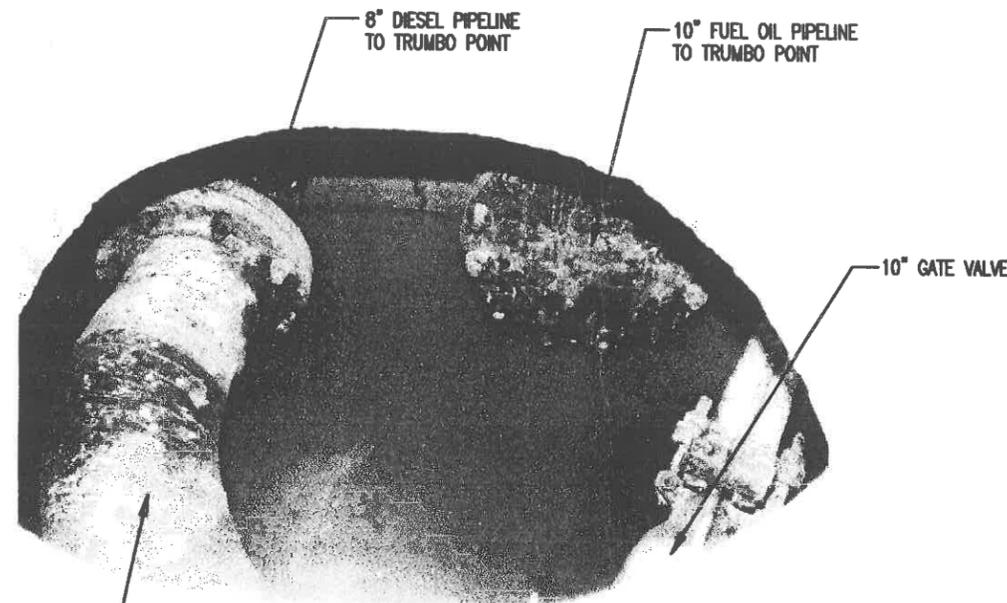


FRONT ST VENT PIT

2" BALL VALVE



TRUMBO POINT PIPING - LOOKING SOUTH



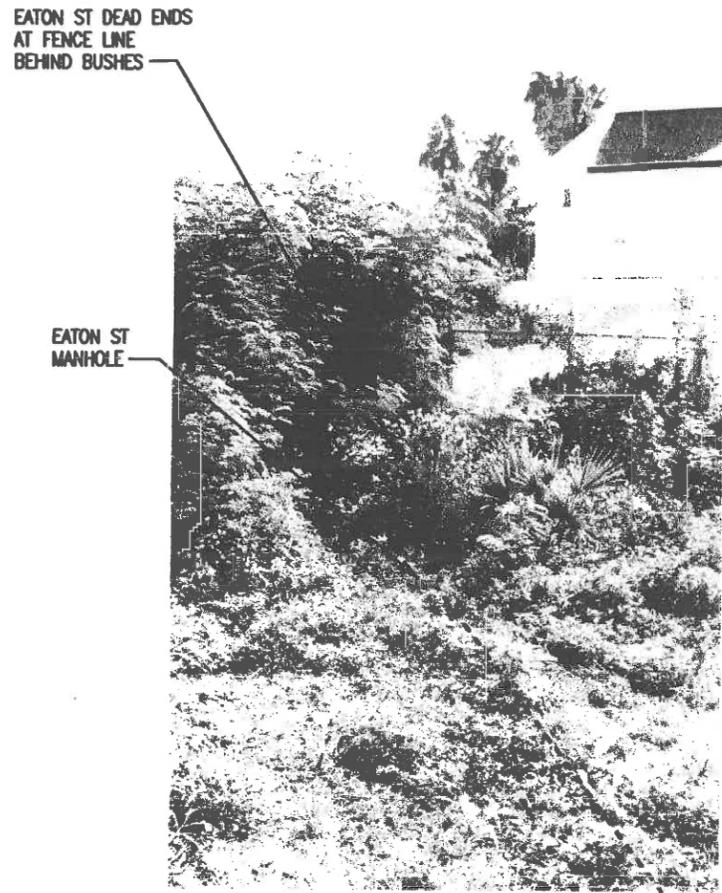
FRONT ST VALVE PIT

10"x8" REDUCER

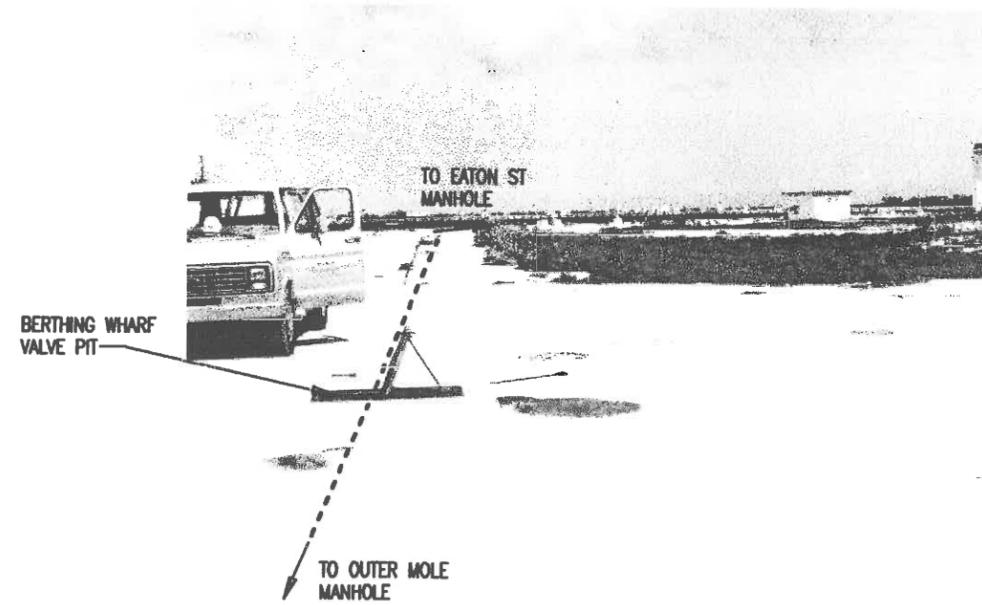
8" DIESEL PIPELINE TO TRUMBO POINT
 10" FUEL OIL PIPELINE TO TRUMBO POINT

10" GATE VALVE

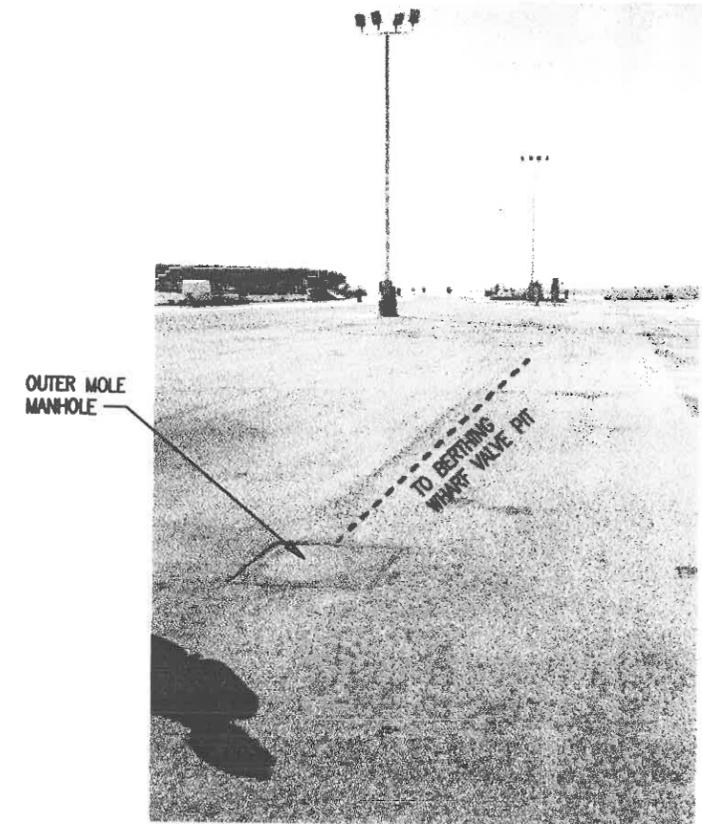
ENTERPRISE ENGINEERING, INC. JACKSONVILLE, FLORIDA 904-766-1111 FAX: 904-766-1112	
DEPARTMENT OF THE NAVY NAVY AIR STATION ABANDON UNDERGROUND PIPELINES KEY WEST FUEL PIPELINES - PHOTOGRAPHS I	NAVY FACILITIES ENGINEERING COMMAND SOUTHERN DIVISION KEY WEST, FLORIDA
RECORD DRAWING DATE CODE LA. NO. DRAWING SIZE SPEC. NO. CHECKING CODE NO. NAVY DRAWING NO.	REV. DESCRIPTION PREP BY DATE APPROV REV. DESCRIPTION PREP BY DATE APPROV
SHEET 0 OF	M-5



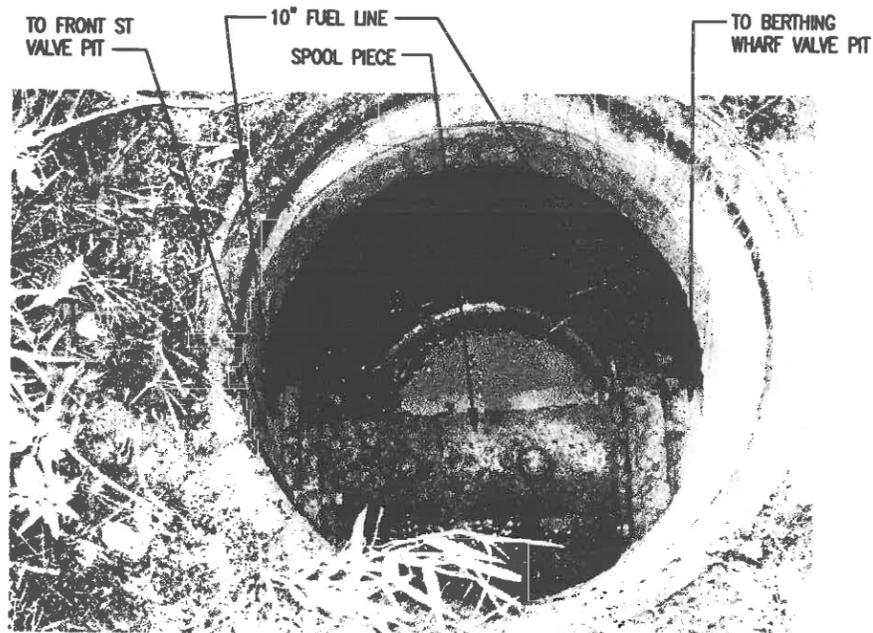
EATON ST MANHOLE SITE - LOOKING EAST



BERTHING WHARF VALVE PIT SITE - LOOKING WEST

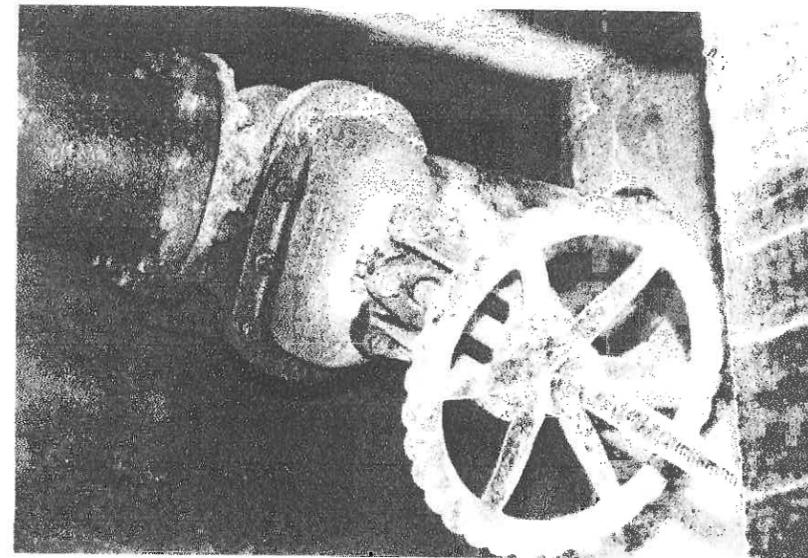


OUTER MOLE SITE - LOOKING SOUTH



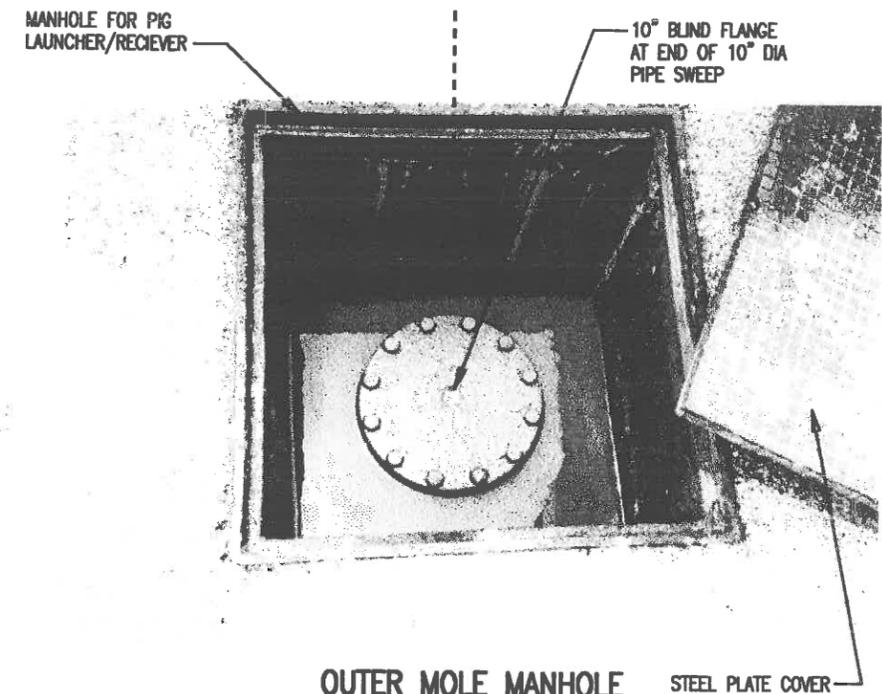
EATON ST MANHOLE

NOTE: AT COMPLETION OF PIPELINE CLEANING, REMOVE SPOOL PIECE, PRESSURE TEST SEGMENTS, PROVIDE BLIND FLANGES, BACKFILL MANHOLE, AND REINSTALL COVER.



BERTHING WHARF VALVE PIT

NOTE: AT COMPLETION OF PIPELINE CLEANING, REMOVE VALVE, PRESSURE TEST SEGMENTS, PROVIDE BLIND FLANGES, AND REINSTALL COVER.

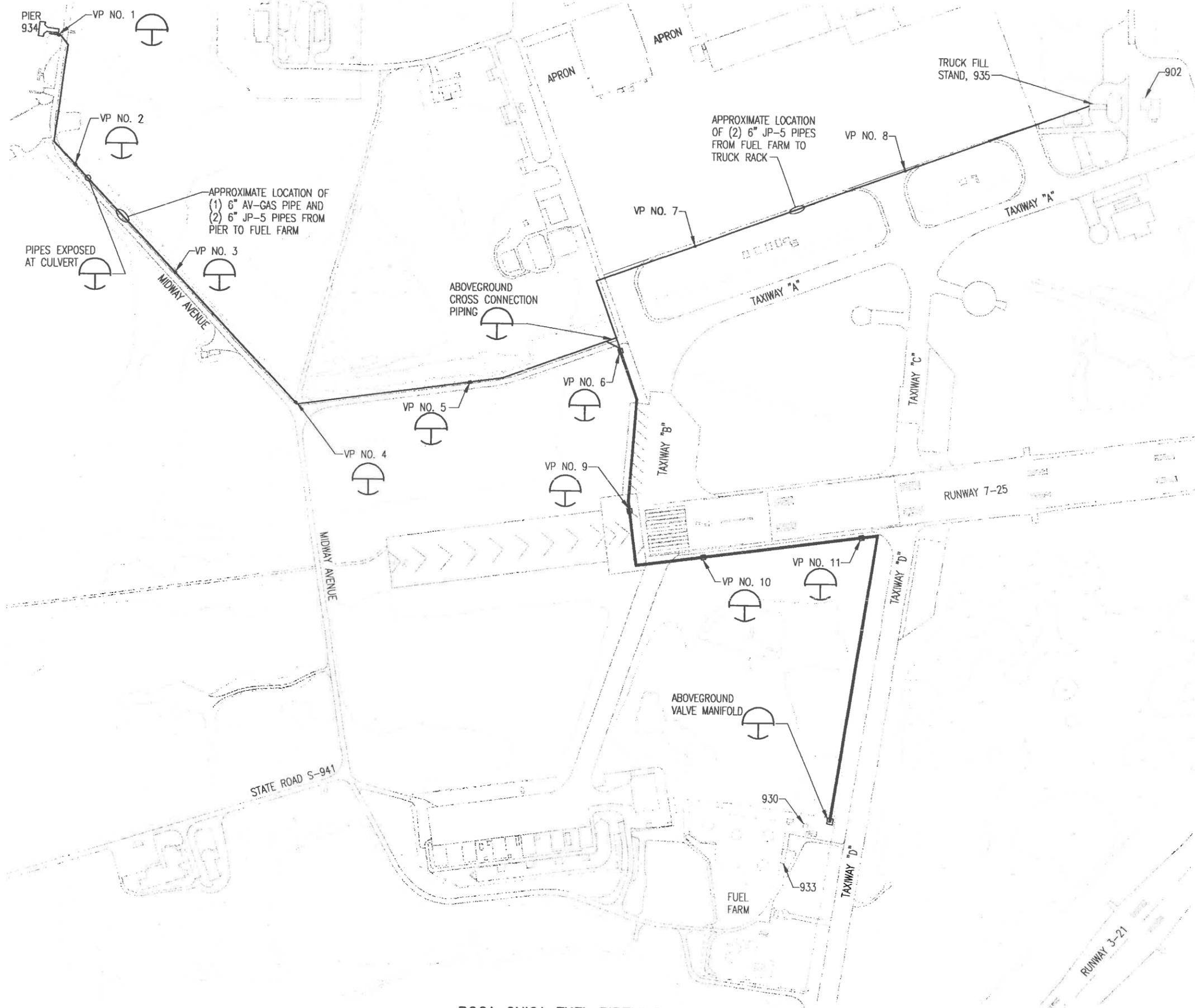


OUTER MOLE MANHOLE

STEEL PLATE COVER

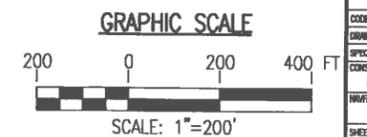
NOTE: REMOVE BLIND FLANGE AND CONNECT PIG RECEIVER TO CLEAN PIPELINE. AT COMPLETION OF PIPELINE CLEANING, PRESSURE TEST SEGMENTS, THEN REINSTALL BLIND FLANGE AND COVER.

<p>ENTERPRISE ENGINEERING, INC ANCHORAGE, AK</p>	
<p>YANHOOTH, ME DORRISSEY, ME ANCHORAGE, AK</p>	<p>DATE: _____ BY: _____ CHECKED BY: _____ APPROVED BY: _____</p>
<p>REV. DESCRIPTION</p>	<p>PREP BY: _____ DATE: _____ APPROV: _____</p>
<p>NAVAL FACILITIES ENGINEERING COMMAND SOUTHERN DIVISION CHICKLAUSA, LA</p>	<p>KEY WEST, FLORIDA ABANDON UNDERGROUND PIPELINES KEY WEST FUEL PIPELINES - PHOTOGRAPHS II</p>
<p>DEPARTMENT OF THE NAVY NAVAL AIR STATION</p>	<p>DATE: _____ BY: _____ FOR COMMAND: _____</p>
<p>RECORD DOWNSHIP DATE</p>	<p>CODE LA. NO. 00001 DRAWING SIZE: D SPEC. NO. 00-00-0000 CONTRACTOR CODE NO. H02467-00-C-0050 PHONE DOWNSHIP NO.</p>
<p>SHEET 7 OF</p>	<p>M-6</p>



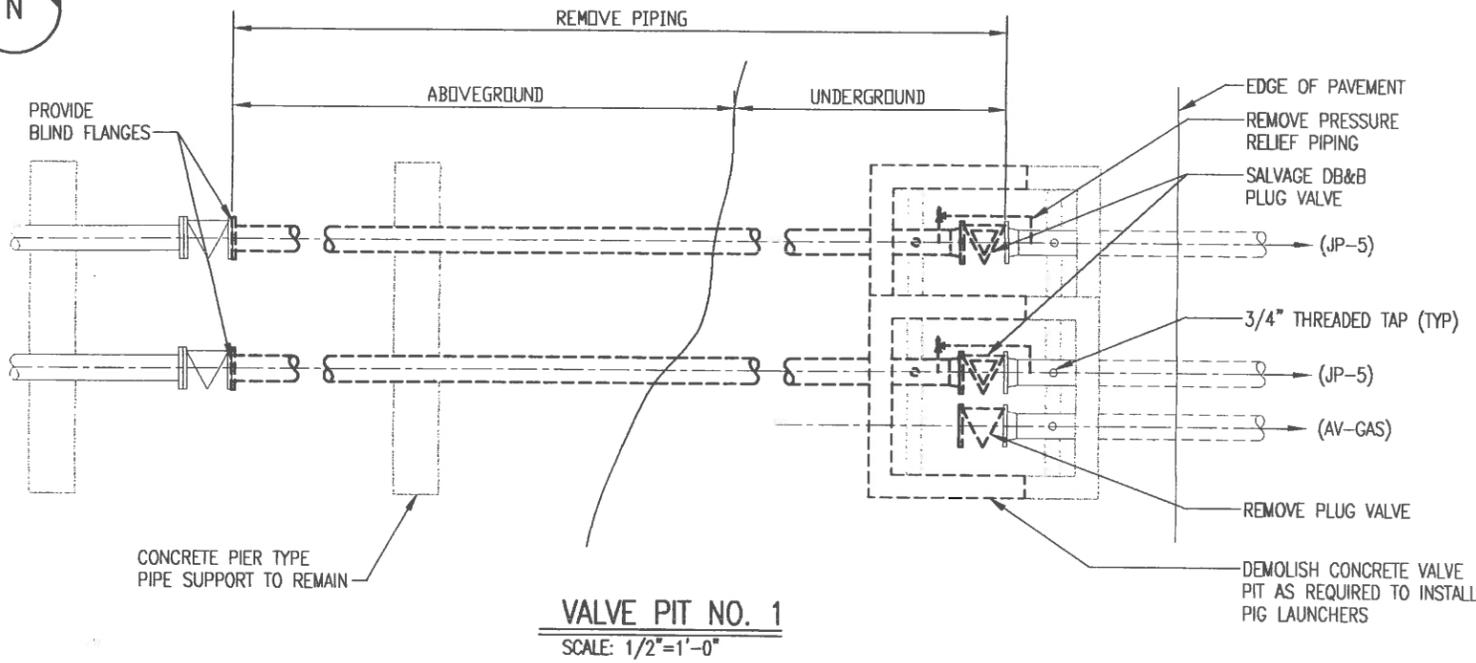
BOCA CHICA FUEL PIPELINES
SCALE: 1"=200'

NOTE: HEAVY LINE(S) INDICATE ROUTE OF UNDERGROUND PIPELINES.



CHECK GRAPHIC SCALE BEFORE USING

DEPARTMENT OF THE NAVY SOUTHERN DIVISION CHARLESTON, S.C.		NAVAL FACILITIES ENGINEERING COMMAND REV. DESCRIPTION		ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK	
NAVAL AIR STATION ABANDON UNDERGROUND PIPELINES BOCA CHICA FUEL PIPELINES ROUTE		KEY WEST, FLORIDA		YAMAGUCHI, M.E. DOUGHERTY, M. BEANE	
APPROVED		DATE		SHEETS	
RECORD DRAWING DATE		CODE LIA. NO. 80091		DRAWING SIZE: D	
SPECIAL NO. 09-00-0850		CONSTRUCTION CONTROL NO. NS2467-96-C-0850		NAVAL DRAWING NO.	
SHEET 8 OF		M-7		DATE	



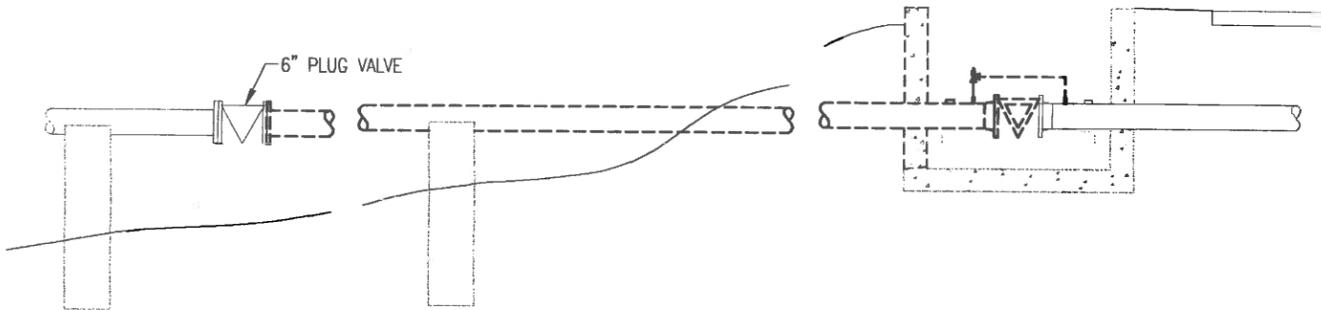
VALVE PIT NO. 1
SCALE: 1/2"=1'-0"

GENERAL NOTES:

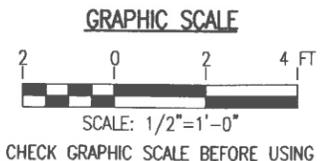
1. PIPELINES ARE COATED AND CATHODICALLY PROTECTED 6 INCH SCH 40 STEEL.
2. PIPELINES WERE ORIGINALLY INSTALLED IN 1961.
3. PIPELINE DEPTH OF BURIAL AVERAGES 3 FEET AND IS AT OR BELOW THE WATER TABLE FOR THE ENTIRE LENGTH.
4. PIPELINES ARE PRESENTLY FULL OF AV-GAS AND JP-5 FUEL AS INDICATED.

WORK PLAN:

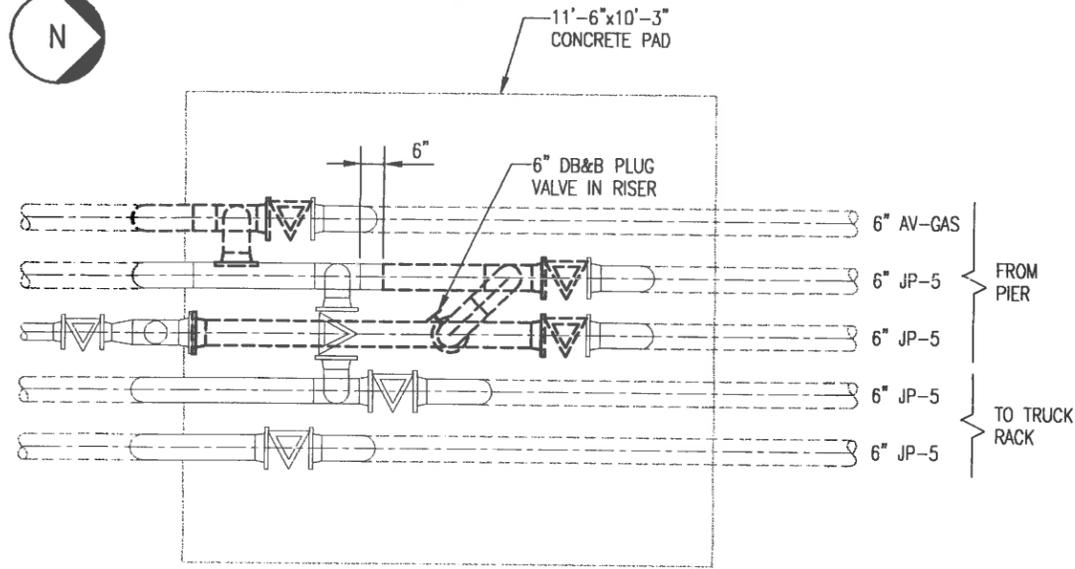
1. DEFUEL PIPELINES USING EXISTING 3/4 INCH TAPS ON EITHER SIDE OF THE VALVES WITHIN THE VALVE PITS. DISPOSE OF FUEL.
2. PROVIDE REMOVALS AT VALVE PIT 1 IN ORDER TO CONNECT PIG LAUNCHER.
3. DEWATER VALVE PITS. REMOVE PLUG VALVES AND RELIEF PIPING WITHIN VALVE PITS. PROVIDE SPOOL PIECES AT EACH LOCATION. DOUBLE BLOCK AND BLEED VALVES (18 TOTAL) SHALL BE SALVAGED AND DELIVERED TO THE GOVERNMENT. CONTRACTOR SHALL DISPOSE OF OTHER (9 TOTAL) PLUG VALVES.
4. PROVIDE MODIFICATIONS AT FUEL FARM MANIFOLD PIPING IN ORDER TO CONNECT PIG RECEIVER.
5. PROVIDE TEMPORARY PIG LAUNCHER(S) AND RECEIVER(S)
6. USING NITROGEN TO PROPEL THE CLEANING PIG(S), CLEAN EACH OF THE 3 PIER PIPELINES FROM VALVE PIT 1 TO THE TANK FARM MANIFOLD PIPING. COLLECT AND DISPOSE OF FUEL AND SLUDGE.



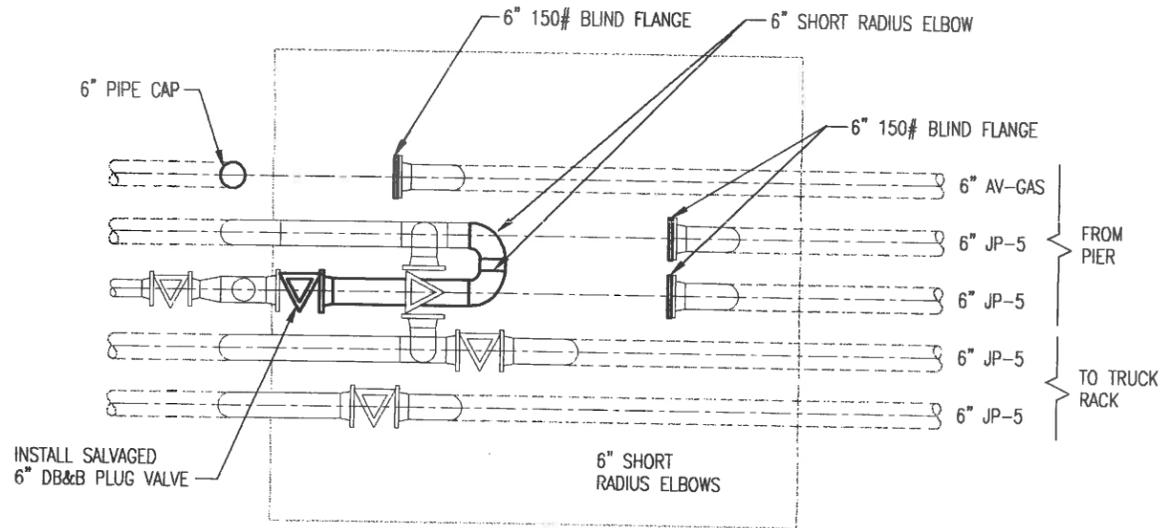
ELEVATION
SCALE: 1/2"=1'-0"



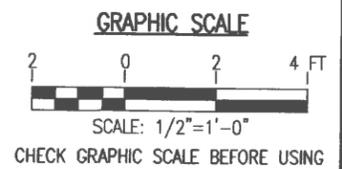
	ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK YAKOUTH, AK DOUGHERTY, BEANE MEMBER OF THE BURNS & MCDONNELL GROUP P.O. BOX 50000 ANCHORAGE, AK 99505
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHERN DIVISION CHARLESTON, S.C.	KEY WEST, FLORIDA ABANDON UNDERGROUND PIPELINES PIER PIPELINES VALVE PIT 1 MODIFICATIONS
NAVAL AIR STATION APPROVED: _____ DATE: _____	EPD FOR COMMANDER, NAVFAC
RECORD DRAWING DATE: _____ CODE LA. NO. 80091 DRAWING SIZE: D SPEC. NO. 06-88-0850 CONTROL CENTER NO. N62467-96-C-0850 NAVFAC DRAWING NO. _____ SHEET 8 OF _____	M-8



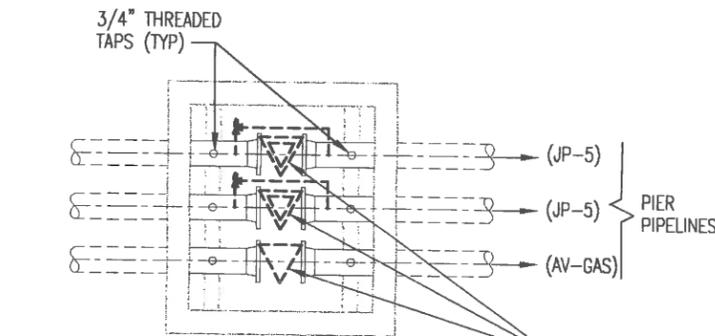
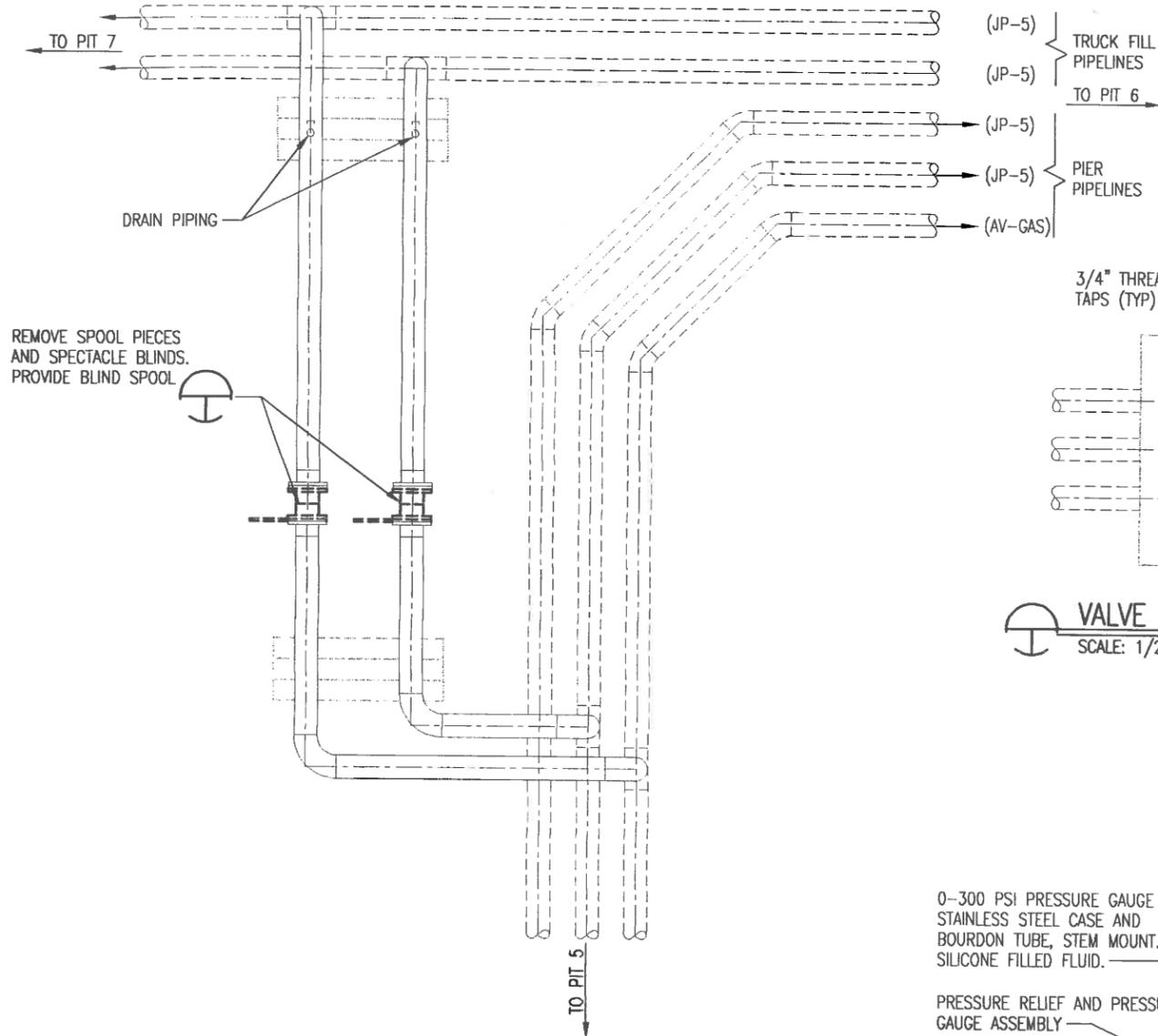
MANIFOLD PIPING REMOVALS
SCALE: 1/2"=1'-0"



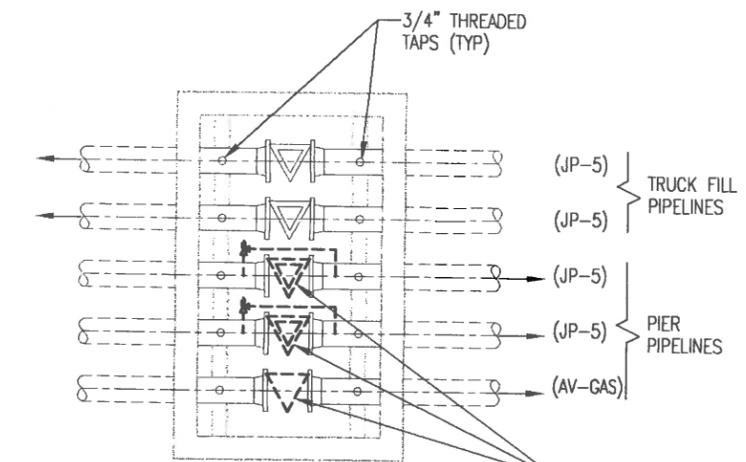
MANIFOLD PIPING MODIFICATIONS
SCALE: 1/2"=1'-0"



DEPARTMENT OF THE NAVY NAVAL AIR STATION ABANDON UNDERGROUND PIPELINES FUEL FARM VALVE MANIFOLD MODIFICATIONS		SOUTHERN DIVISION CHARLESTON, S.C.	NAVAL FACILITIES ENGINEERING COMMAND REV. DESCRIPTION	ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK YARMOUTH, ME. DORCHESTER, MA BOSTON, MA WASHINGTON, DC
APPROVED DATE	PREP BY DATE	APPROVED DATE	DRAWING NO. 80001	SHEET NO. M-9
RECORD DRAWING DATE	CODE ID. NO. 80001	DRAWING SIZE D	SPEC. NO. 08-08-0850	CONTROL CENTER NO. N62467-96-C-0850
SEAL AREA	NAVAL FACILITIES ENGINEERING COMMAND	SOUTHERN DIVISION CHARLESTON, S.C.	NAVAL AIR STATION ABANDON UNDERGROUND PIPELINES FUEL FARM VALVE MANIFOLD MODIFICATIONS	ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK YARMOUTH, ME. DORCHESTER, MA BOSTON, MA WASHINGTON, DC



VALVE PITS NO. 2, 3, 4, & 5
SCALE: 1/2"=1'-0"

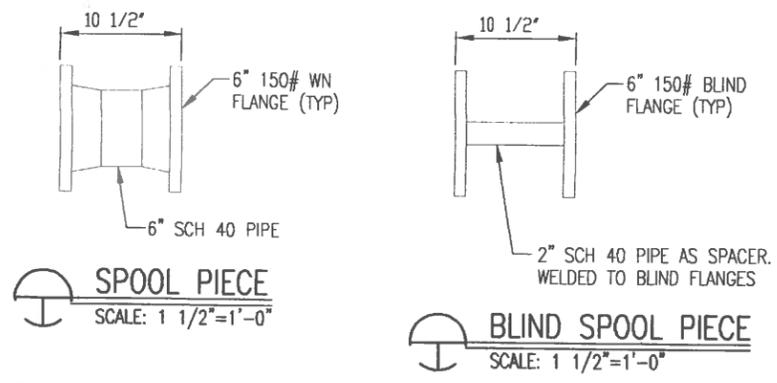


VALVE PITS NO. 6, 9, 10, & 11
SCALE: 1/2"=1'-0"

PRIOR TO PIPELINE CLEANING, REMOVE VALVES AND THERMAL RELIEF PIPING. SALVAGE DB&B PLUG VALVES. PROVIDE SPOOL PIECES.

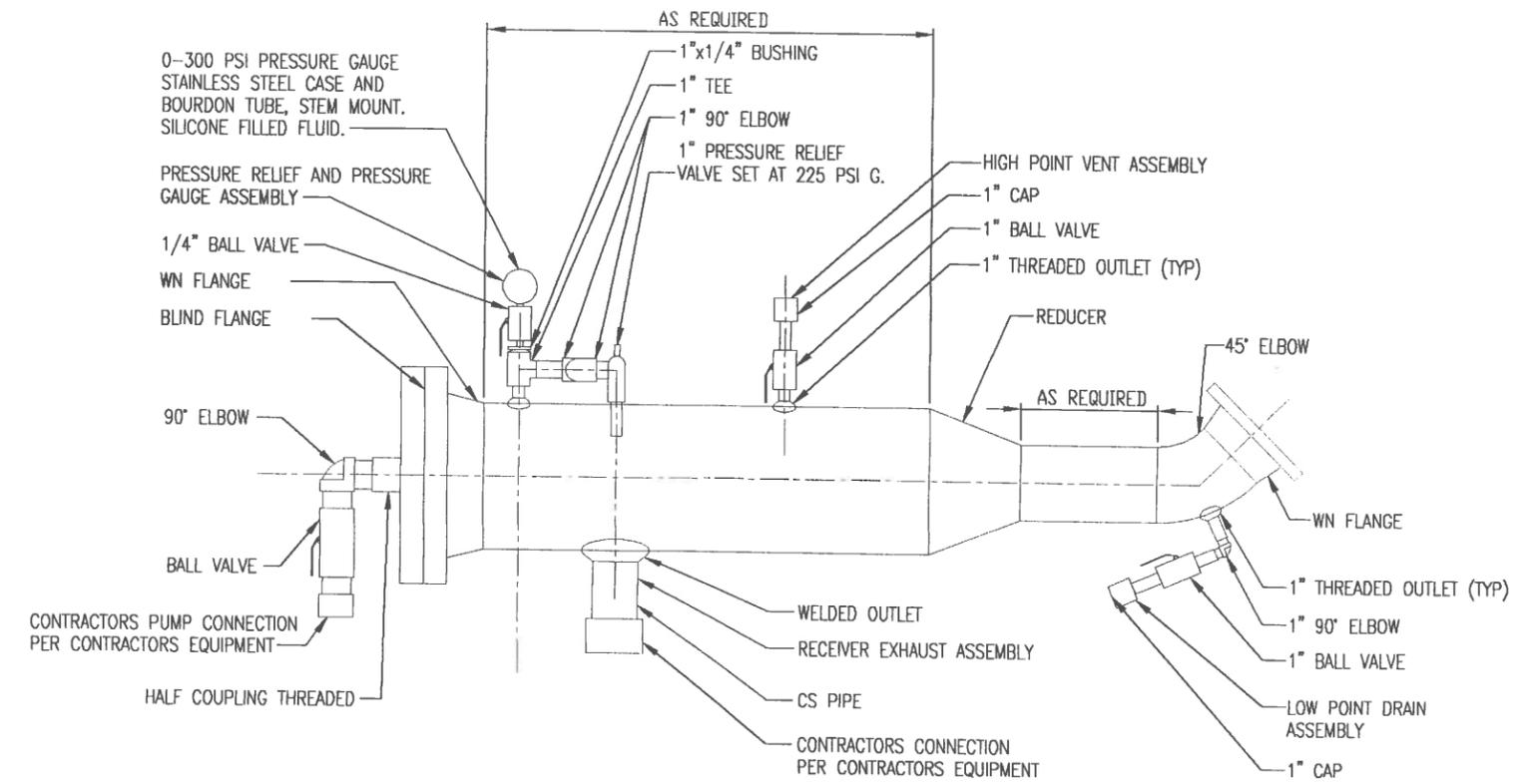
FOLLOWING CLEANING, REMOVE SPOOL PIECES AND PROVIDE BLIND SPOOLS.

CROSS CONNECTION PIPING
SCALE: 1/2"=1'-0"



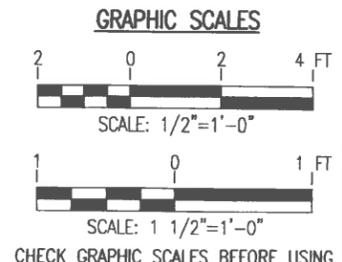
SPOOL PIECE
SCALE: 1 1/2"=1'-0"

BLIND SPOOL PIECE
SCALE: 1 1/2"=1'-0"

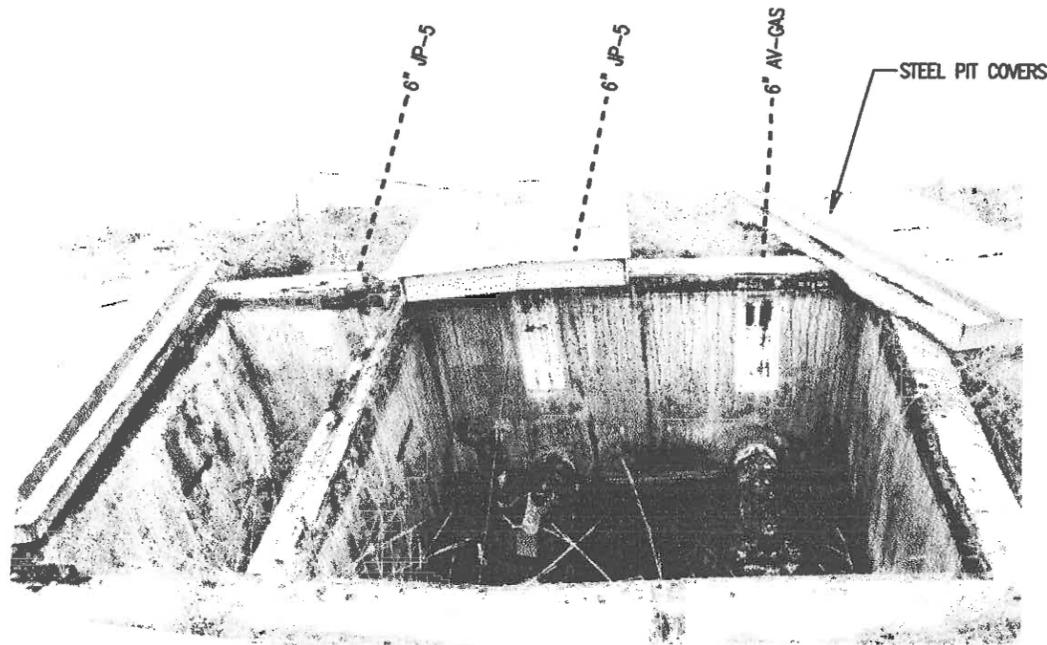


PIG LAUNCHER/RECEIVER DETAIL
NOT TO SCALE

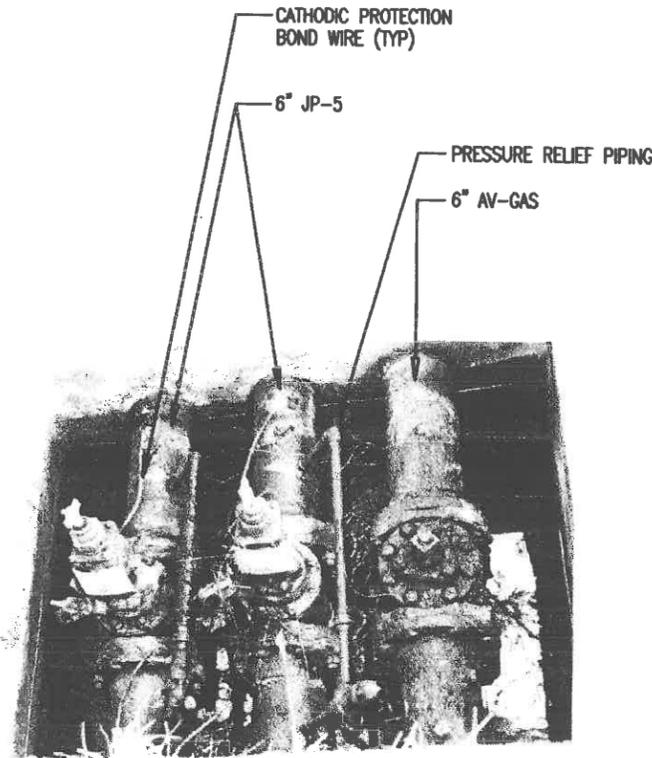
NOTE: CONTRACTOR SHALL DETERMINE LENGTHS AND CONNECTION SIZES.



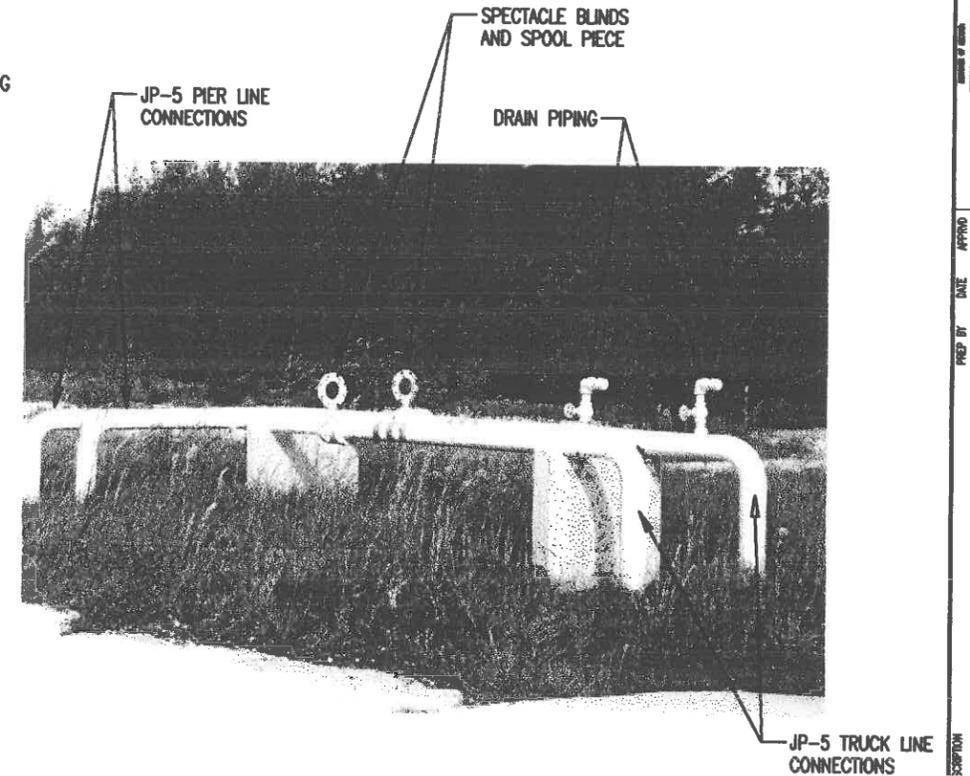
ENTERPRISE ENGINEERING, INC. ANCHORAGE, AK VANKOVICH, INC. BEANE DOUGHERTY MEMBER OF THE WYOMING GROUP	
DEPARTMENT OF THE NAVY SOUTHERN DIVISION CHARLESTON, S.C.	KEY WEST, FLORIDA ABANDON UNDERGROUND PIPELINES PIER PIPELINES DETAILS
RECORD DRAWING DATE CODE ID. NO. 80091 DRAWING SIZE: D SPEC. NO. 09-06-0850 CONTROL. CONTR. NO. NS2467-96-C-0850 DRAWING TITLE SHEET 11 OF	APPROVED EPT FOR COMMANDER, NAVFAC



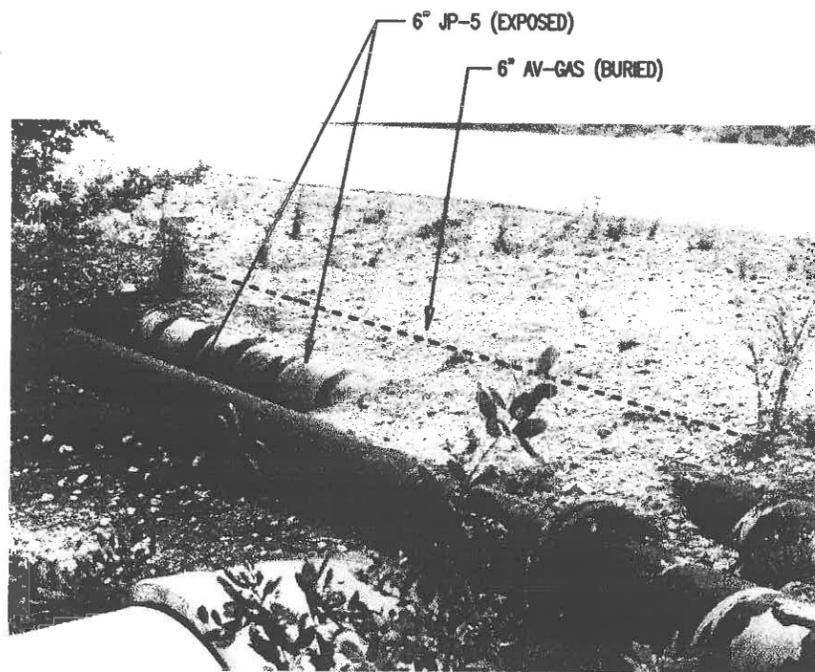
VALVE PIT 1 - LOOKING EAST



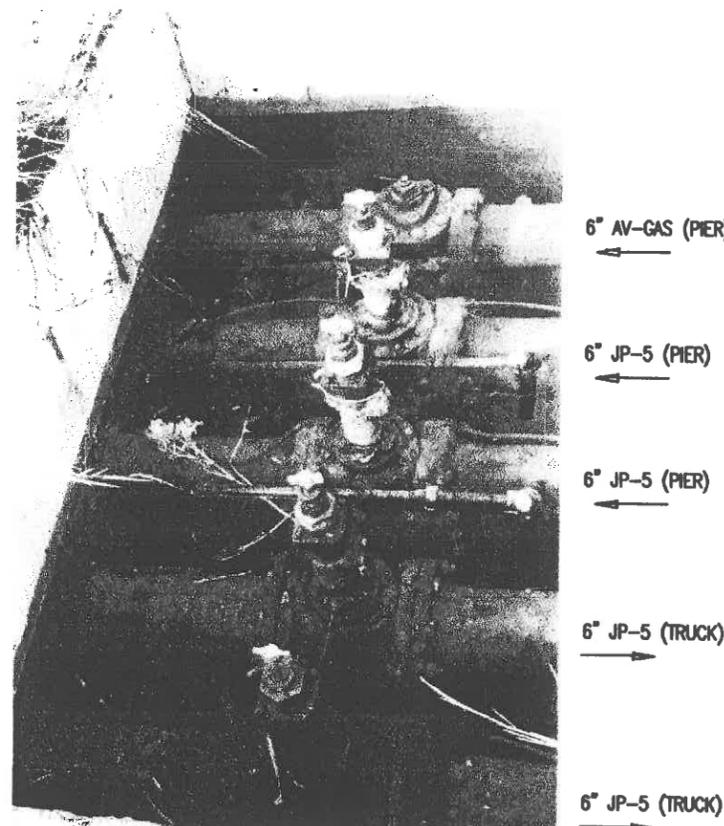
TYPICAL OF VALVE PITS 2,3,4,5



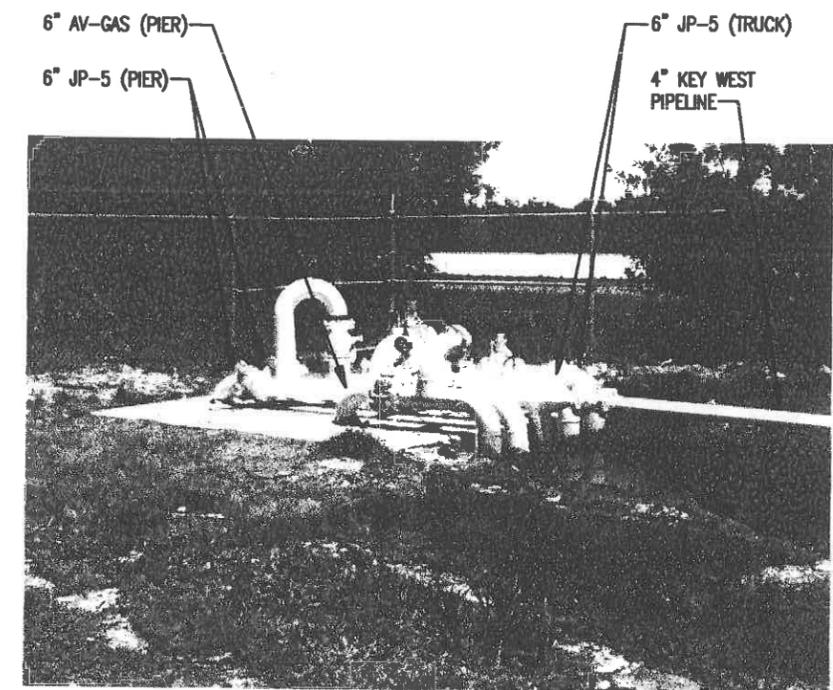
CROSS CONNECTION PIPING - LOOKING WEST



EXPOSED JP-5 PIPES AT CULVERT - LOOKING NORTH



TYPICAL OF VALVE PITS 6,9,10,11



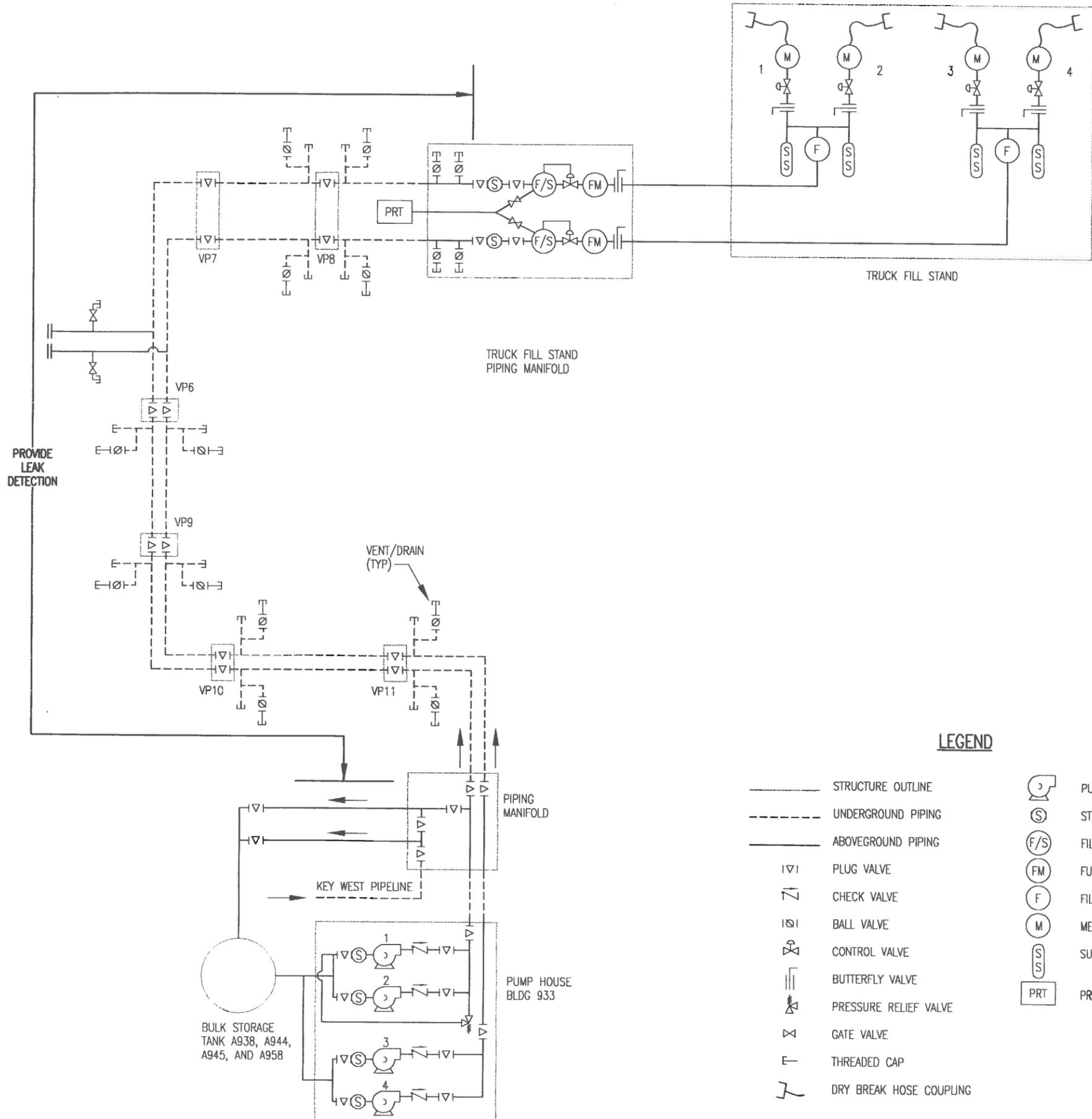
ABOVEGROUND VALVE MANIFOLD - LOOKING EAST

ENTERPRISE
ENGINEERING, INC.
ANNAPOLIS, MD
CORPORATE OFFICE
10000 RIVER ROAD
ANNAPOLIS, MD 21406
TEL: 410-291-1100
FAX: 410-291-1101

PREP BY: DATE: APPROV:
REV. DESCRIPTION

NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHICKLAUGA, ALA
NAVAL AIR STATION
KEY WEST, FLORIDA
ABANDON UNDERGROUND PIPELINES
PIER PIPELINES PHOTOGRAPHS I

RECORD DRAWING DATE:
CASE NO. 00000
DRAWING NO. 00-00-0000
SHEET NO. 00-00-0000
CONTRACT NO. NS2467-96-C-0850
DRAWING NO.
SHEET 12 OF
M-11



SYSTEM INFORMATION

FILL STAND PUMPS 1 & 2

MFGR: PEERLESS PUMP
 MODEL: 3TU13 1/2
 S/N: 114512 (PUMP 1)
 GPM: 250
 TDH: 231 FT
 RPM: 1750

FILL STAND PUMPS 3 & 4

MFGR: PEERLESS PUMP
 MODEL 3TU13
 S/N: 103508 (PUMP 4)
 GPM: 250
 TDH: 240 FT
 RPM: 1750

MOTOR DATA: ALL PUMPS

MFGR: US ELECTRIC MOTORS
 HP: 20 HP
 VOLTS: 220/440 3 PHASE
 TYPE: SE
 FRAME: 364

OPERATING CONDITIONS

- a) STATIC SYSTEM PRESSURE = 0 PSIG
- b) ONE PUMP RUNNING PER LINE
 FLOW = 320 GPM
 PRESSURE = 60 PSIG (PUMP 1 OR 2)
 = 80 PSIG (PUMP 3 OR 4)
- c) BOTH PUMPS RUNNING PER LINE
 FLOW =
 PRESSURE =

OPERATING SEQUENCE

1. TRUCK OPERATOR CONNECTS SCULLY GROUND PROVER/OVERFILL PROTECTION SYSTEM.
2. TRUCK OPERATOR CONNECTS HOSE.
3. TRUCK OPERATOR SQUEEZES "DEADMAN" CONTROL WHICH STARTS TRANSFER PUMP.
4. TRUCK FILLS UNTIL FUEL CONTACTS INTERNAL LEVEL SENSOR.
5. LEVEL SENSOR SHUTS OFF TRANSFER PUMP.
6. TRUCK OPERATOR DISCONNECTS HOSE AND SCULLY SYSTEM.

LEGEND

- STRUCTURE OUTLINE
- - - UNDERGROUND PIPING
- ABOVEGROUND PIPING
- ∇ PLUG VALVE
- ∇ CHECK VALVE
- ⊘ BALL VALVE
- ⊘ CONTROL VALVE
- ⊘ BUTTERFLY VALVE
- ⊘ PRESSURE RELIEF VALVE
- ⊘ GATE VALVE
- ⊘ THREADED CAP
- ⊘ DRY BREAK HOSE COUPLING
- ⊘ PUMP
- ⊘ STRAINER
- ⊘ F/S FILTER SEPARATOR
- ⊘ FM FUEL MONITOR
- ⊘ F FILTER
- ⊘ M METER
- ⊘ S S SURGE SUPPRESSER
- ⊘ PRT PRODUCT RECOVERY TANK

ENTERPRISE
ENGINEERING, INC.
ANCHORAGE, AK

YARWOOD, ME. BEHNE
DOUGHERTY
SPECIALIST OF THE NORTH - TALS
CORPORATE
FROM THE SHORES

RECORD DRAWING DATE: _____
 CODE LA. NO.: 80001
 DRAWING SIZE: D
 SPEC. NO.: 08-08-0850
 CONTROL. CONTROL NO.: N62467-96-C-0850
 NAVFAC DRAWING NO.: _____
 SHEET 14 OF _____
 M-13