

SEP 13 1983

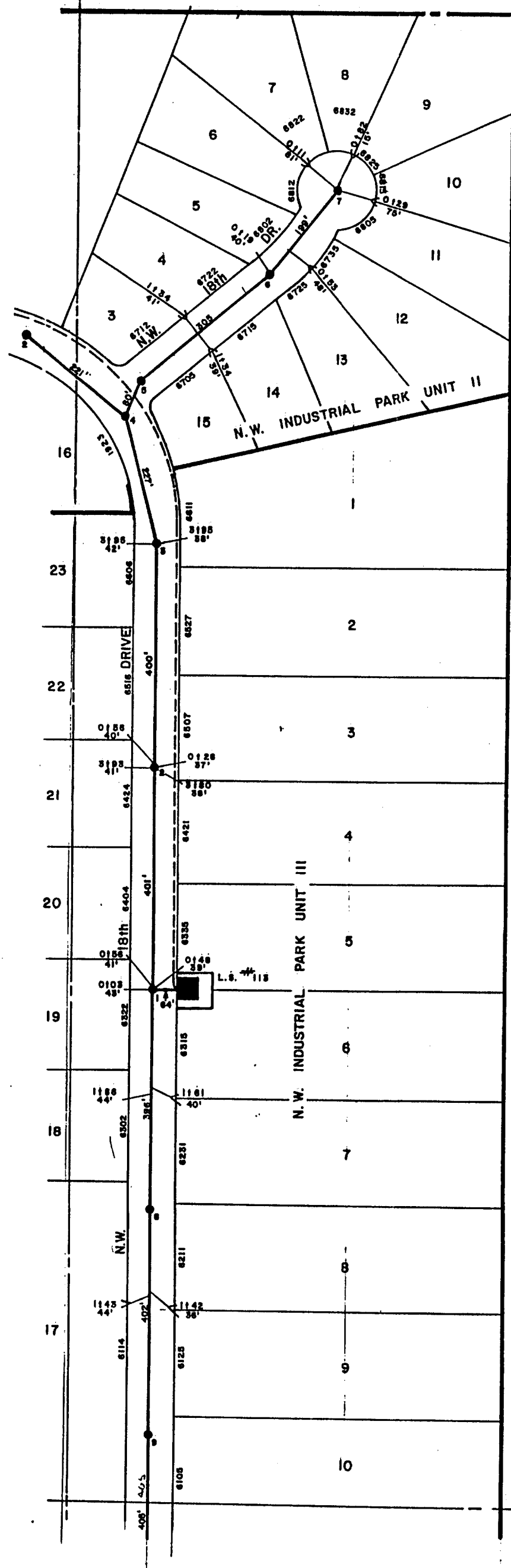
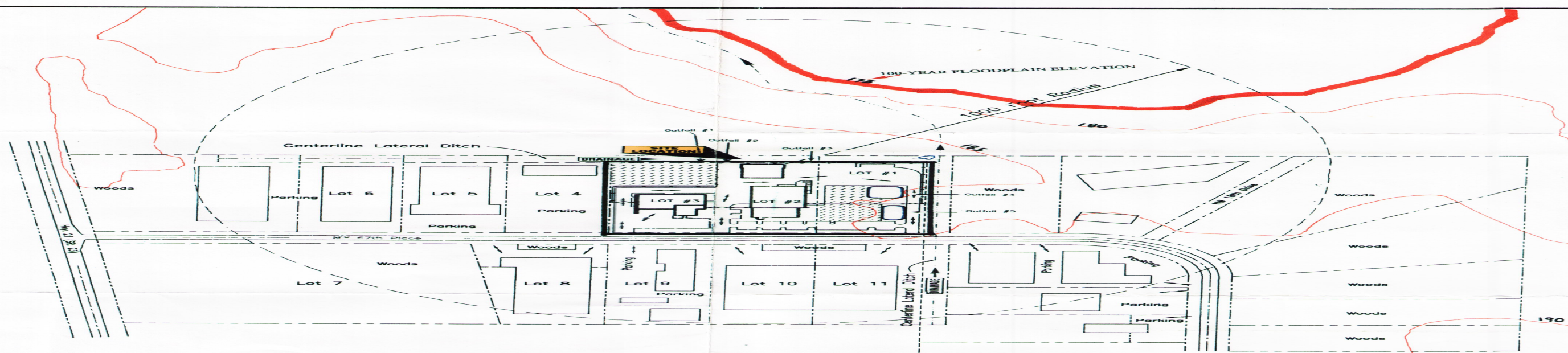


Figure II.A.9

CITY OF GAINESVILLE
SANITARY SEWER
279 N.E. 1/4 OF
SECTION 18 T9S R20E



NOTE: 100 YEAR FLOODPLAIN ELEVATION/LOCATION
INFORMATION OBTAINED FROM FEMA FLOOD
INSURANCE MAP # 1200010280A (9/29/84)

100-YEAR FLOODPLAIN ELEVATION
PROPERTY LINE
DRAINAGE EASEMENT
TRAFFIC PATTERN
WOODED AREA



PERMA-FIX
ENVIRONMENTAL SERVICES

TITLE: 100-YEAR FLOODPLAIN AREA & NPDES STORMWATER OUTFALLS			
PREPARED FOR: PERMA-FIX OF FLORIDA, INC. 1946 NW 57th Place Gainesville, FL 32623			
SCALE: 1"=200'	APPROVED BY:		DRAWN: SYA
DATE: JUNE 15, 1998	PROJECT NUMBER: PFI FLA970343		REVISION: Figure I.B.1.

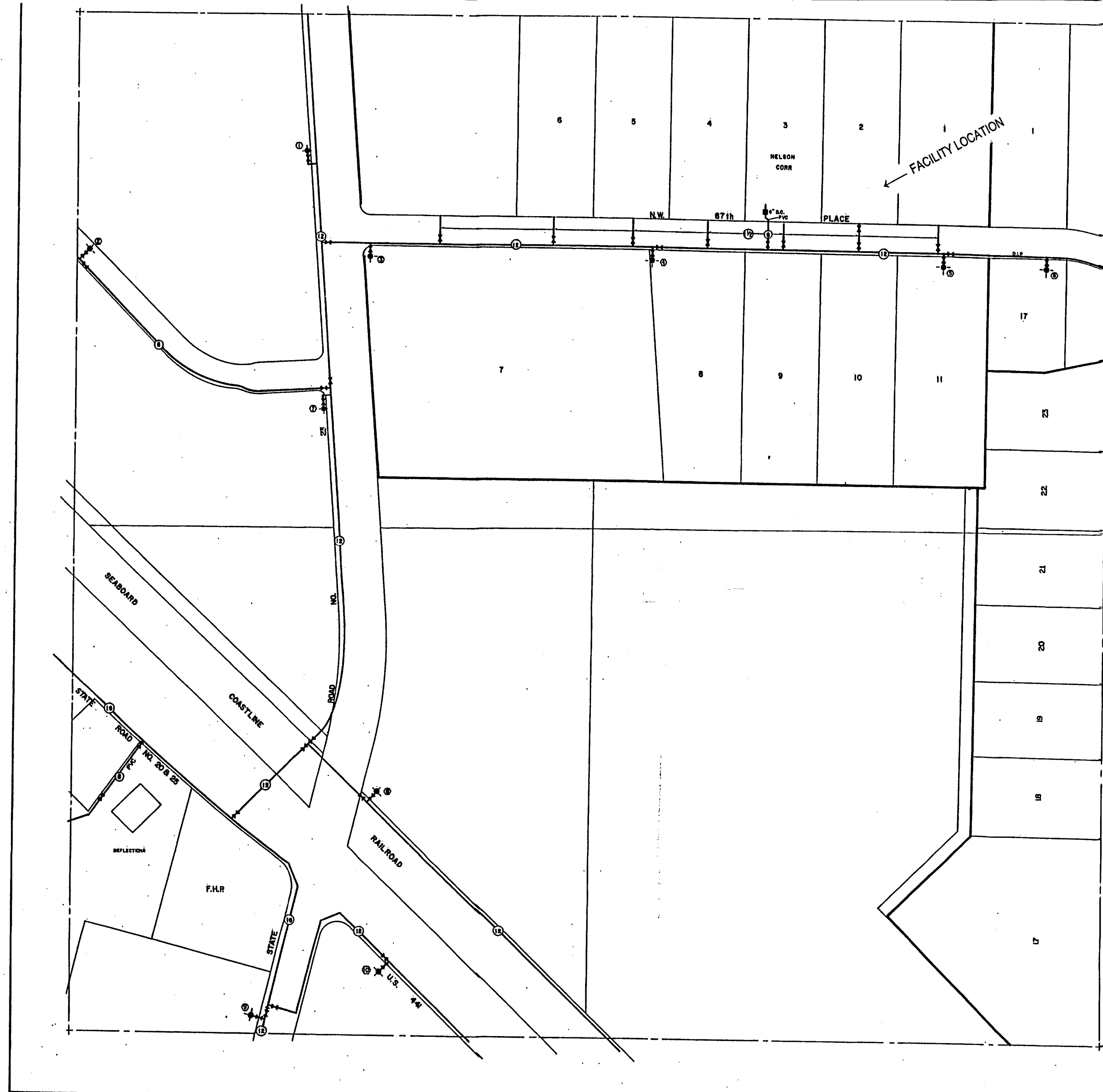
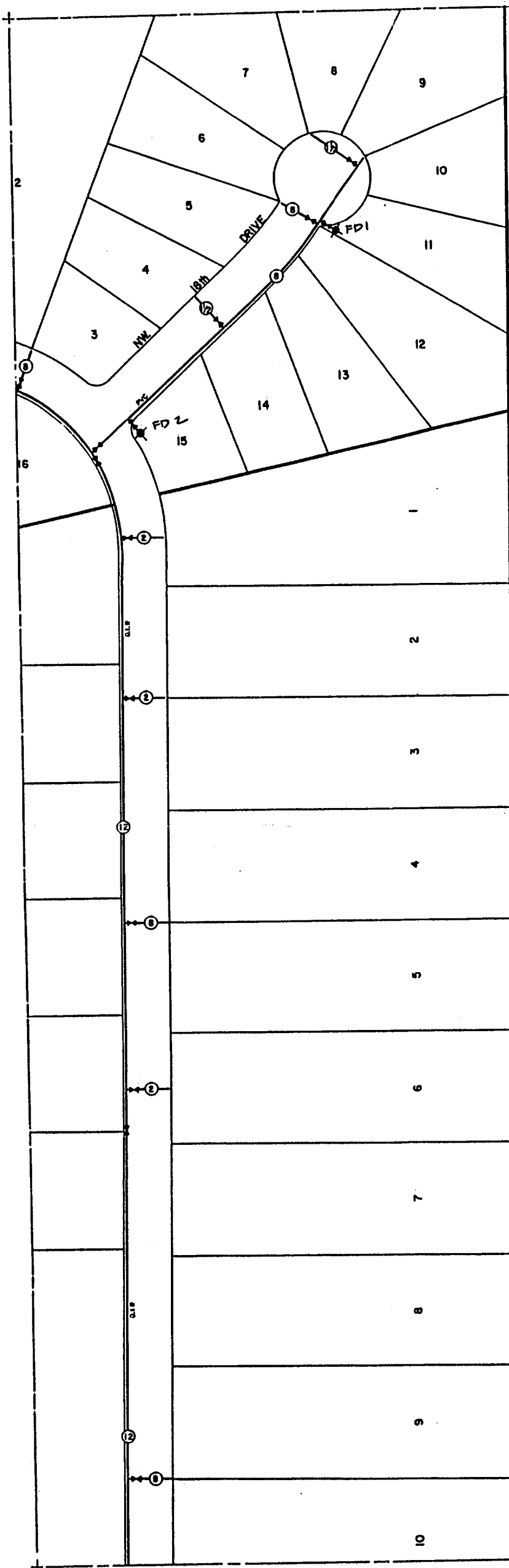


Figure II.A.13



2/16/96	
FH Map Num -	O
EG -	3148-6
TOTAL FH -	10
CITY OF	GAINESVILLE
WATER	3148
278 N.W. 1/4 OF	
SECTION 18 T9S R20E	



9/30/82

Figure II.A.14

CITY OF GAINESVILLE	
WATER	3149
279 NE 1/4 OF	
SECTION 18 T9S R20E	



Figure II.A.11



SEP 13 1983

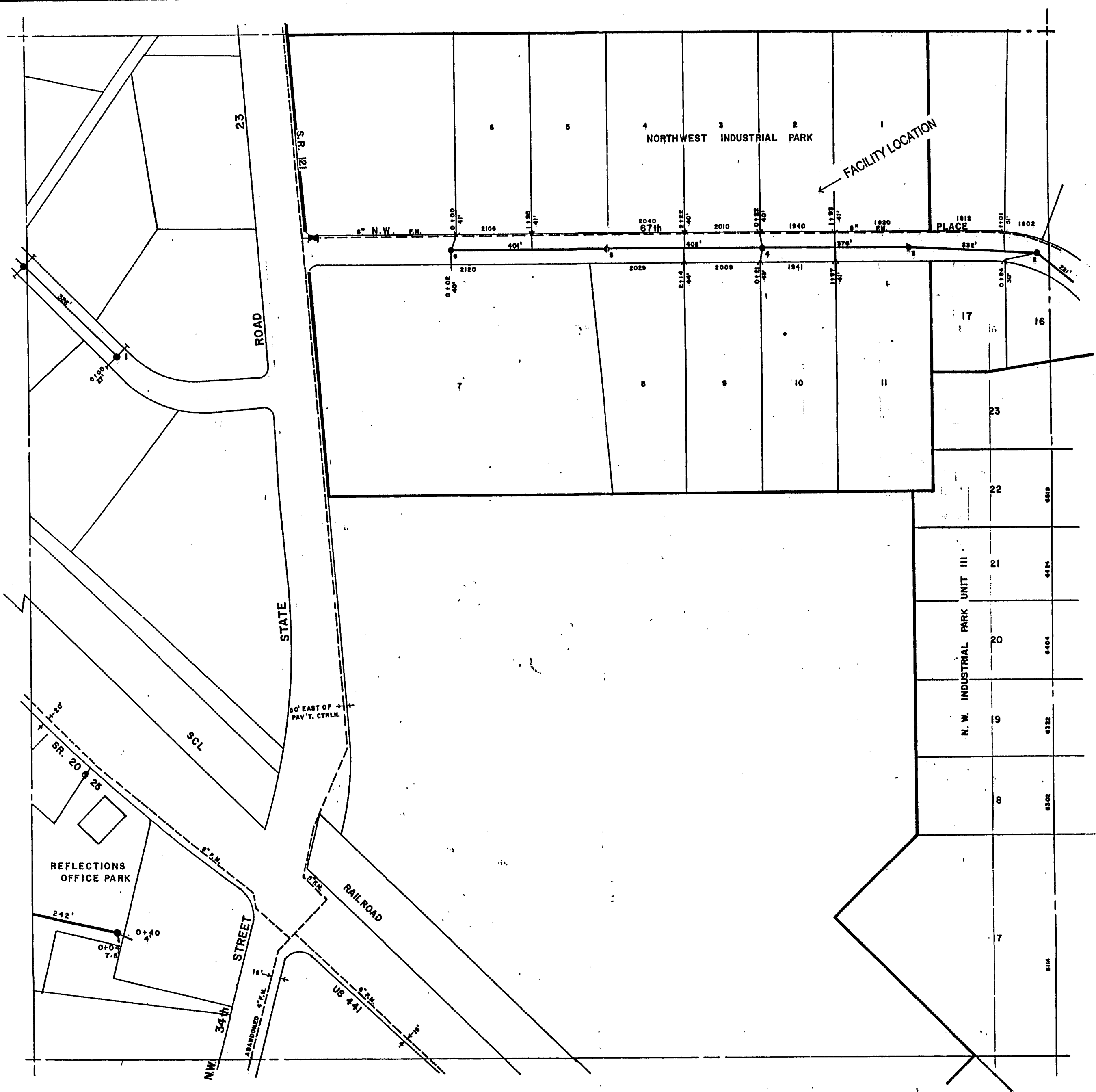
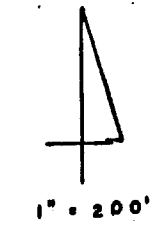


Figure II.A.10

NOTE: LOCATION AND DIMENSIONS ARE GIVEN FOR UTILITIES' STAFF USE ONLY. ENGINEER/CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.



"CITY"
CITY OF GAINESVILLE
SANITARY SEWER
278 NW 1/4 OF
SECTION 18 T9S R20E

CONFIDENTIAL

CONFIDENTIAL

LEGEND

- | | |
|-----------------------------|-------------------|
| MOTOR | LIQUID FLOW METER |
| KAMLOCK HOSE CONNECTION | HAND SWITCH |
| HORN | INTERLOCK |
| PRESSURE RELIEF VALVE | ACTUATED VALVE |
| SIGHT GLASS | PUMP |
| TEMPERATURE INDICATOR | CHECK VALVE |
| TEMPERATURE CONTROLLER | BALL VALVE |
| DIAPHRAGM PUMP | |
| DIFFERENTIAL PRESSURE GAUGE | |

CT-1
Marley 4821 Aquatower 20 ton
50 gpm of water to be cooled
from 95°F to 85°F. Based on
80°F wet bulb temperature.

P-1
Ingersoll Dresser SMP 1000
Size 1.25 x 1.25 x 4
centrifugal pump. 50 gpm
at 40' TDH

P-2
1/4" ARO Air Diaphragm Pump
Model PD02P-APS-PTT
Max GPM 4.6

P-3
1 1/2" ARO Air Diaphragm Pump
Model 666151-244C, SS
Max GPM 90

P-4
Ingersoll Dresser IDP SMP
1.25 x 0.75 x 6
centrifugal pump. 20 gpm
at 60 psi, 139' TDH

I-1
Heat Sink Tank
350 gal SS tote tank

I-2
Propane tank
500 gallon, CS

I-3
Accumulator Tank
Nominal 300 gallon, 304SS
3' dia. x 5' straight side

I-4
Separator Tank
Nominal 50 gallon, 304SS
16" dia. x 6' straight side

T-5
Absorber Tank
Nominal 35 gallon, 304SS
12" dia. x 6' straight side

C-1
Condenser 65" ft mfg. by Ohmsted Co.
316 SS, 83 tubes single pass
10" dia x 48" long tube sheets

B-1
10 Hp Fulton boiler package.
150 psi steam PRV set at 65 psi.
Capacity 345 lbs/hr for 335,000 BTU/hr
Fuel consumption 170 ft³/hr

HEPA-A
Flanders Model E-4 1X1 GCF(409) type 1
Pre-Filter T-00A-D-04-00-12-13-E0281
Pre-Filter Bag PVC-Y-TSP-8 Size 70C x 108
Filter T-007-W-04-05-NU-51-13-GG-FU5
Filter Bags PVC-Y-TSP-8 Size 90C x 108
Motor 2 HP 230/460 V 3 Phase @ 3,500 rpm
Rated for 1,050 cfm

HEPA-B
Flanders Model E-4 1X1 GCF(409) type 1
Pre-Filter T-00A-D-04-00-12-13-E0281
Pre-Filter Bag PVC-Y-TSP-8 Size 70C x 108
Filter T-007-W-04-05-NU-51-13-GG-FU5
Filter Bags PVC-Y-TSP-8 Size 90C x 108
Motor 2 HP 230/460 V 3 Phase @ 3,500 rpm
Rated for 1,050 cfm

HEPA-C
Forced Air System Model FA2000HD
Pre-Filter H2001-50
Secondary Filter H2002-12
HEPA Filter H2010E
Motor 1.5 HP 230/460 V 3 Phase @ 3,500 rpm
Rated for 1,540 cfm

PS-1
Lodge Mixer Model FKM 1200 D, 304SS
Jacket Rated at 72 psi @ 304°F
Working Capacity 150 Gallons @ 50% Loading.

SH-1
Screen Hopper with Vibrating Screen
Mfg. by Perma-Fix Environmental Engineering

HLD-1
High Level Dumper
Mfg. by ALM Corporation or equal

ELL-01
Penberthy Jet Pump
Model ELL-1 1/4

SL-1
Scissor Lift Table
Mfg. by Presto
Model # XS24-10

SL-2
Scissor Lift Table
Mfg. by Presto
Model # XS24-10

SK-1
PF-1 Process - Skid Mixer Unit
Mfg. by Perma-Fix Environmental Engineering

DS-1
Drum Shroud @ the Drum Opening Station
Mfg. by Perma-Fix Environmental Engineering

DS-2
Drum Shroud @ the Skid Mixer
Mfg. by Perma-Fix Environmental Engineering

DS-3
Drum Shroud @ the Lodge Unloading
Figure # 31
Mfg. by Perma-Fix Environmental Engineering

FM-1
Dwyer Flow Meter
Model # RMC-107-BV
Range 120-1200 SCFH

RV-01
Victory Regulator
Model # VTS250A-580

AAF-1
American Air Filter Dust Collector
Mfg. by American Air Filter Model AR-35

CV-01
Groth Pressure/Vacuum Relief
Model # 1220A-02-555-T-00
Pressure Setting 1 psig
Vacuum Setting 4 oz.

HPU-1
Hydraulic Power Unit
Rexroth Pressure Compensated Pump
20 gpm @ 1750 RPM
With a 60 Gallon Reservoir

LC-01
Drexelbrook Multipoint II Level Control
Model # 506-3000-704

LC-02
Drexelbrook Z-tron Level Control
Model # 502-3000-901

PRV-01
Pressure Relief Valve Mfg. by Consolidated
Model # 1905 FC-1XM42
Set @ 12 psi

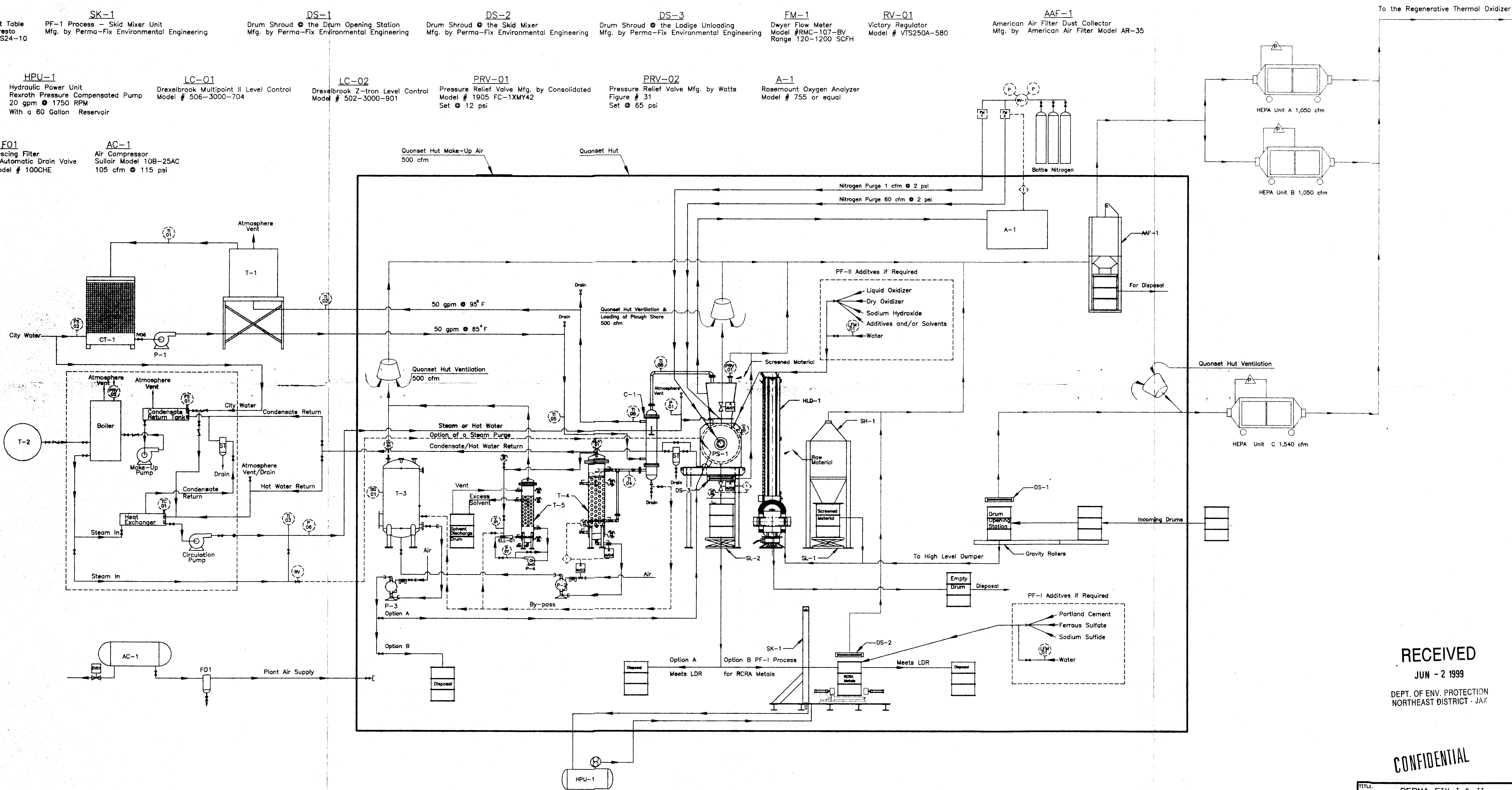
PRV-02
Pressure Relief Valve Mfg. by Watts
Figure # 31
Set @ 65 psi

A-1
Rosemount Oxygen Analyzer
Model # 755 or equal

EV01
Auto Electrical
Condensate Drain Valve
IR Model # ADV-1811

F01
Cooling Filter
With Automatic Drain Valve
IR Model # 100CHE

AC-1
Air Compressor
Sullair Model 10B-25AC
105 cfm @ 115 psi



RECEIVED

JUN - 2 1999

DEPT. OF ENV. PROTECTION
NORTHEAST DISTRICT - JAX

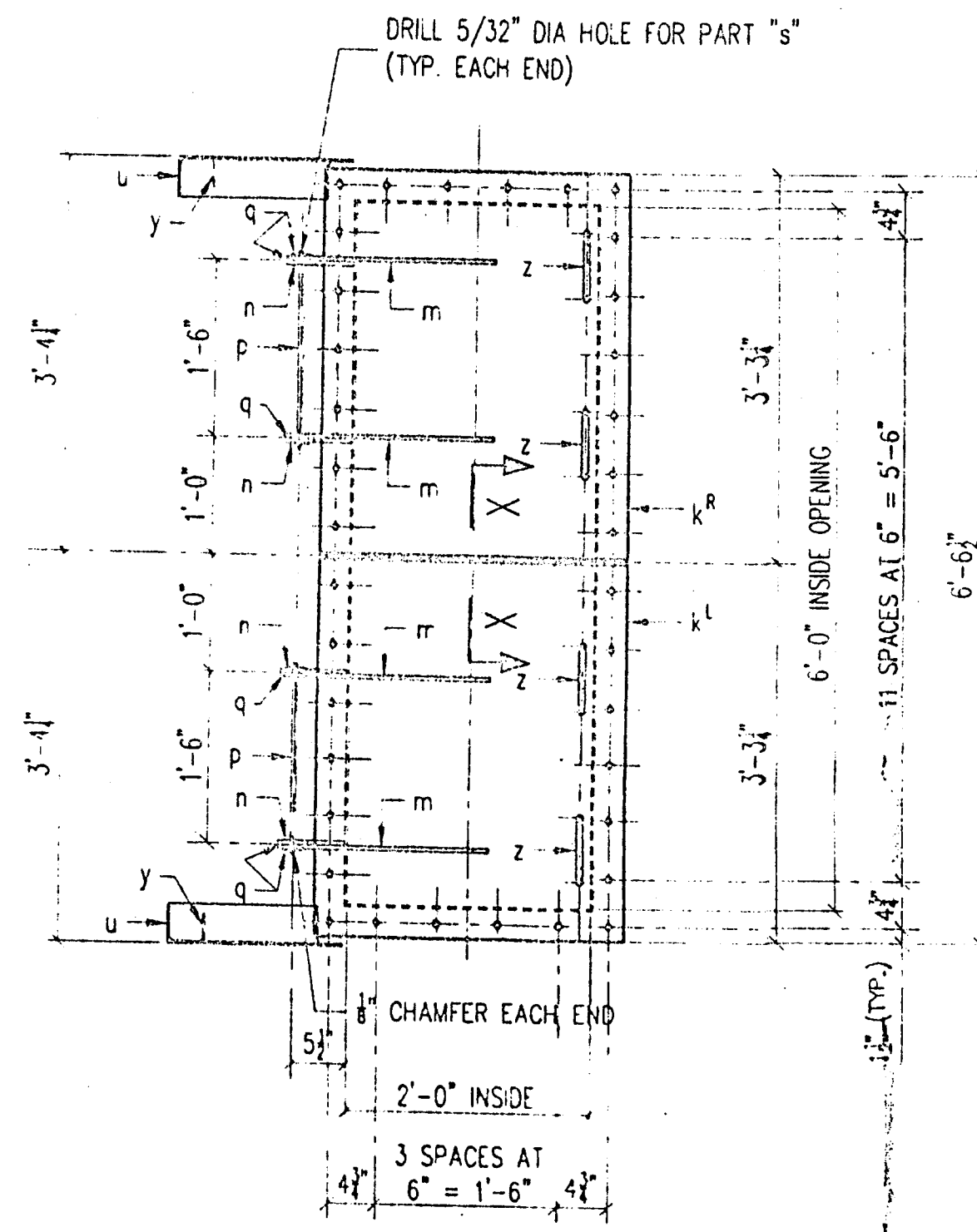
CONFIDENTIAL

CONFIDENTIAL

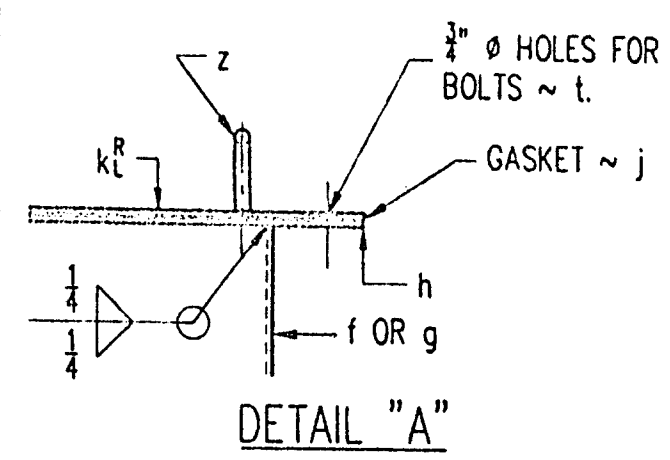
TITLE: PERMA-FIX I & II PROCESS FLOW DIAGRAM			
PREPARED FOR: PERMA-FIX OF FLORIDA			
SCALE: N.T.S.	APPROVED BY: T.Kinball	DRAWN: D.R.	
DATE: 5/3/99	REVISED:		
ACAP FILE:	FIGURE NUMBER:		
DATE: 4/26/99	APPROVAL:	COMMENTS:	

PERMA-FIX
ENVIRONMENTAL ENGINEERING

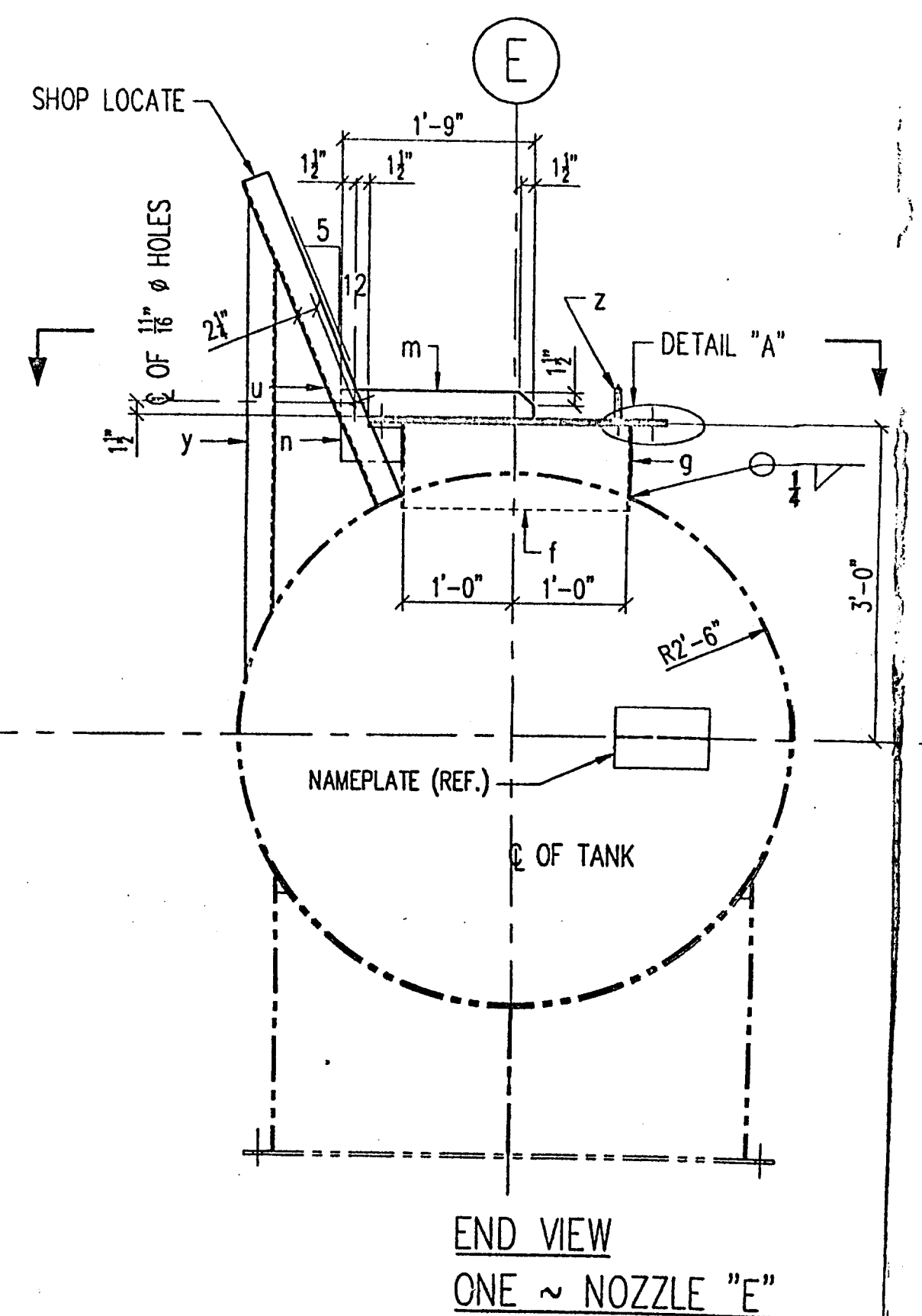
4/1/99	D.R.	Added bypass line to accumulator
5/10/99	D.R.	Corrected Spelling
5/2/99	D.R.	Added dust collector
4/26/99	D.R.	Added absorber tank and ejector
DATE:	APPROVAL:	COMMENTS:



PLAN VIEW
NOZZLE "E"

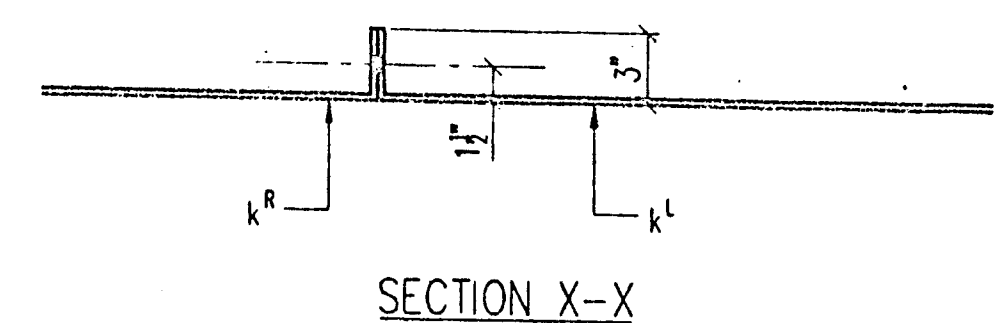


DETAIL "A"

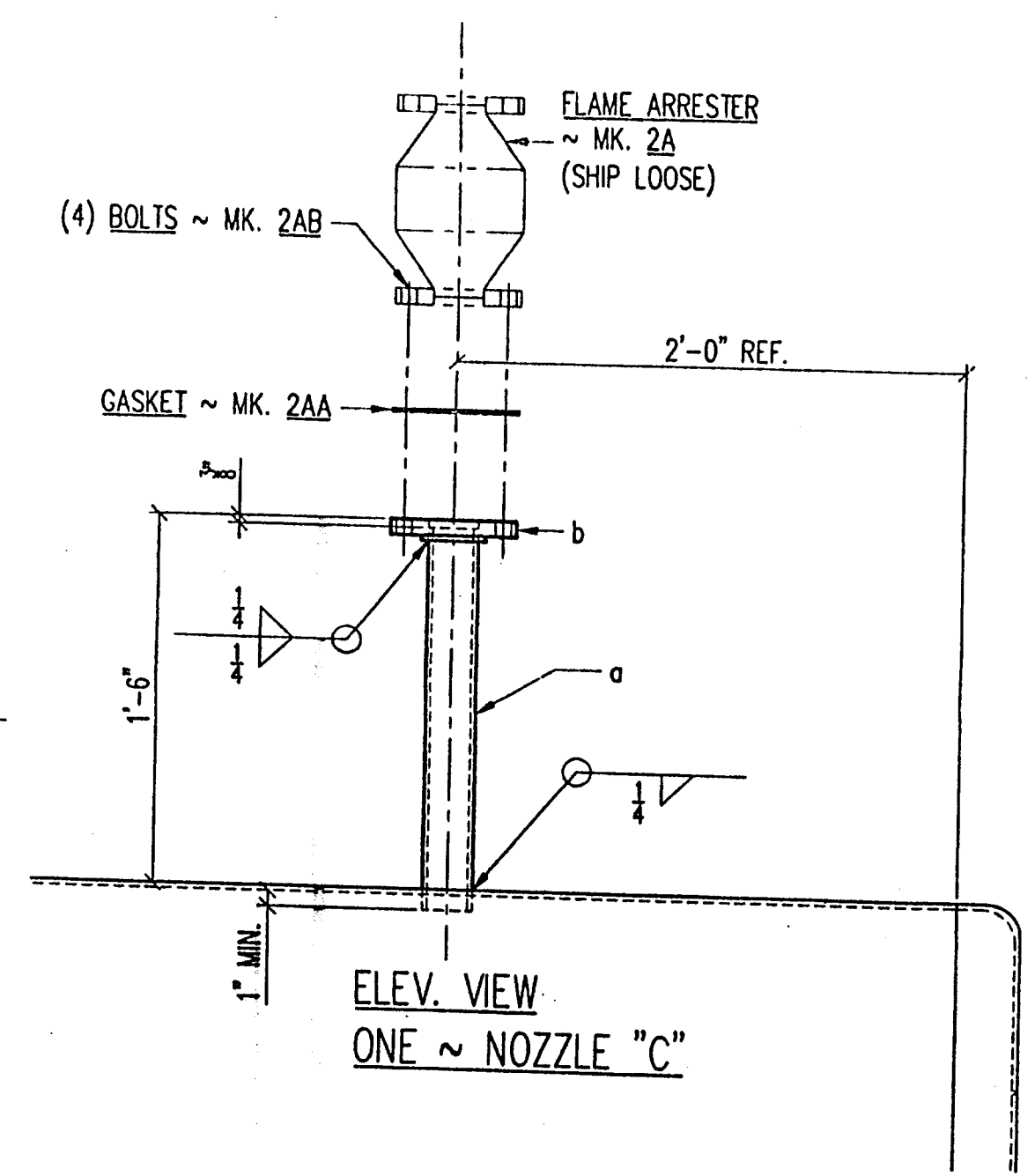


END VIEW
ONE ~ NOZZLE "E"

- NAMEPLATE NOTES:
1. LETTERING TO BE AT LEAST 5/32" HIGH
 2. NAMEPLATE TO BE POP-RIVETED TO BRACKET WITH (4) 1/8" DIA. POP-RIVETS ~ ac.



SECTION X-X



ELEV. VIEW
ONE ~ NOZZLE "C"

NAMEPLATE

PURCHASER: PERMA-FIX ENVIRONMENTAL SERVICES

PURCHASE ORDER NO.: P 14363 B

MFG'S. SERIAL NO.: 99085 YEAR COMPLETED: 1999

PURCHASER'S TANK NO.: ---

PRODUCT STORED: TOLUENE, XYLENE, ETHANOL

DESIGN TEMP.: AMBIENT

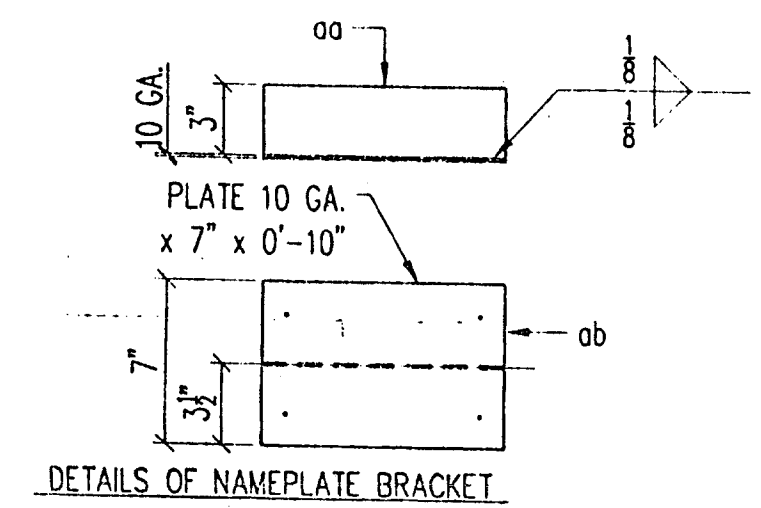
NOMINAL DIA.: 5'-0" SPECIFIC GRAVITY: C.865

NOMINAL LENGTH: 21'-5" (±) DESIGN PRESSURE: ATM

NOMINAL CAPACITY: 3,000 GAL CORROSION ALLOW.: NONE

FABRICATED BY: TAMPA TANK, INC.

DETAILS OF NAMEPLATE



BILL OF MATERIAL				
QTY	PART	QTY	DESCRIPTION	MATERIAL
-	-	-	2" NOZZLE ASSEMBLY (AT NOZZLE "C")	-
-	a	1	PIPE 2" SCH. 80S x 1'-7 1/2"	A312, TYPE 316 S/S
-	b	1	FLANGE 2" - 150# R. F., SLIP-ON	A182, TYPE 316 S/S
ONE	2AA	-	GASKET 1/8" THK. x 6" O. D. x 28" I. D. w/(4) 1/2" Ø HOLES	VITON FILLED/
-	-	-	ON 4 1/2" DIA. BOLT CIRCLE	TEFLON ENVELOPE
ONE	2A	-	2" FLAME ARRESTER 150# R. F. FLANGE - WHESSEY VAREC	316 S/S
-	-	-	5400-2-6 SERIES WITH 316 S/S HOUSING, CORE, AND	-
-	-	-	ELEMENT (SHIP LOOSE)	-
4	2AB	-	BOLT 1/8" Ø x 2 1/2" HEX. HEAD W/(1) HEX. NUT EACH	316 S/S
-	-	-	24" x 72" HATCH ASSEMBLY (AT NOZZLE "E")	-
f	2	-	NECK - PLATE 1/2" x 11 1/2" x 24"	A-240, TYPE 316 S/S
g	2	-	NECK - PLATE 1/2" x 11 1/2" x 72"	A-240, TYPE 316 S/S
h	1	-	FLANGE - PLATE 1/2" x 30 1/2" x 78 1/2" (SHOP LAYOUT)	A-240, TYPE 316 S/S
j	1	-	GASKET 1/8" THK. x 30 1/2" x 78 1/2" (LAYOUT TO MATCH DRILL	VITON FILLED/
-	-	-	WITH PART "h")	TEFLON ENVELOPE
k	1/1	-	COVER PLATE - PLATE 1/2" x 30 1/2" x (39" + 2 1/2") (SHOP TO	A-240, TYPE 316 S/S
-	-	-	MATCH DRILL WITH PART "h")	-
m	4	-	HINGE - BAR 3" x 1/2" x 1'-9"	A-240, TYPE 316 S/S
n	4	-	HINGE - PLATE 1/2" x 6 1/2" x 0'-8 1/2"	A-240, TYPE 316 S/S
p	2	-	HINGE PIN - BAR 1/2" x 1'-9"	316 S/S
q	8	-	1/8" FENDER WASHER	316 S/S
s	4	-	COTTER PIN ~ 1/8" Ø x 2" LONG	316 S/S
t	40	-	BOLT 1/8" Ø x 1 1/2" HEX. HEAD W/(1) HEX. NUT EACH.	316 S/S
z	4	-	HINDLES ~ BAR 1/2" Ø x (3" + 6" + 3")	316 S/S
-	-	-	COVER STOP (AT NOZZLE "E")	-
u	2	-	ANGLE 3 x 3 x 1/2 x 3'-2 1/2"	316 S/S
y	2	-	ANGLE 3 x 3 x 1/2 x 4'-4 1/2" (SHOP LAYOUT)	316 S/S
-	-	ONE	NAMEPLATE SUPPORT ASSEMBLY	-
aa	1	-	PLATE 10 GA. x 3" x 0'-10"	316 S/S
ob	1	-	PLATE 10 GA. x 7" x 0'-10"	316 S/S
oc	4	-	1/8" DIA. POP-RIVETS	316 S/S
-	-	ONE	NAMEPLATE	-
-	-	1	BLANK PLATE SIZE = 22 GA. x 5" x 0'-8 1/2"	316 S/S

Figure H.C.3

DATE	10-14-99
CUST.	3P
SHOP	

INTERIOR FINISH:
NONE.

EXTERIOR FINISH:
CLEAN MILL FINISH.

STATUS	BY	DATE	REV.	DESCRIPTION	DATE
RELEASED TO FIELD					
RELEASED FOR FABRICATION					
APPROVAL RECEIVED					
ISSUED FOR APPROVAL	RSU	10-14-99			
CHECKED	RSU	10-12-99			
DRAWING	ROW	9-29-99			

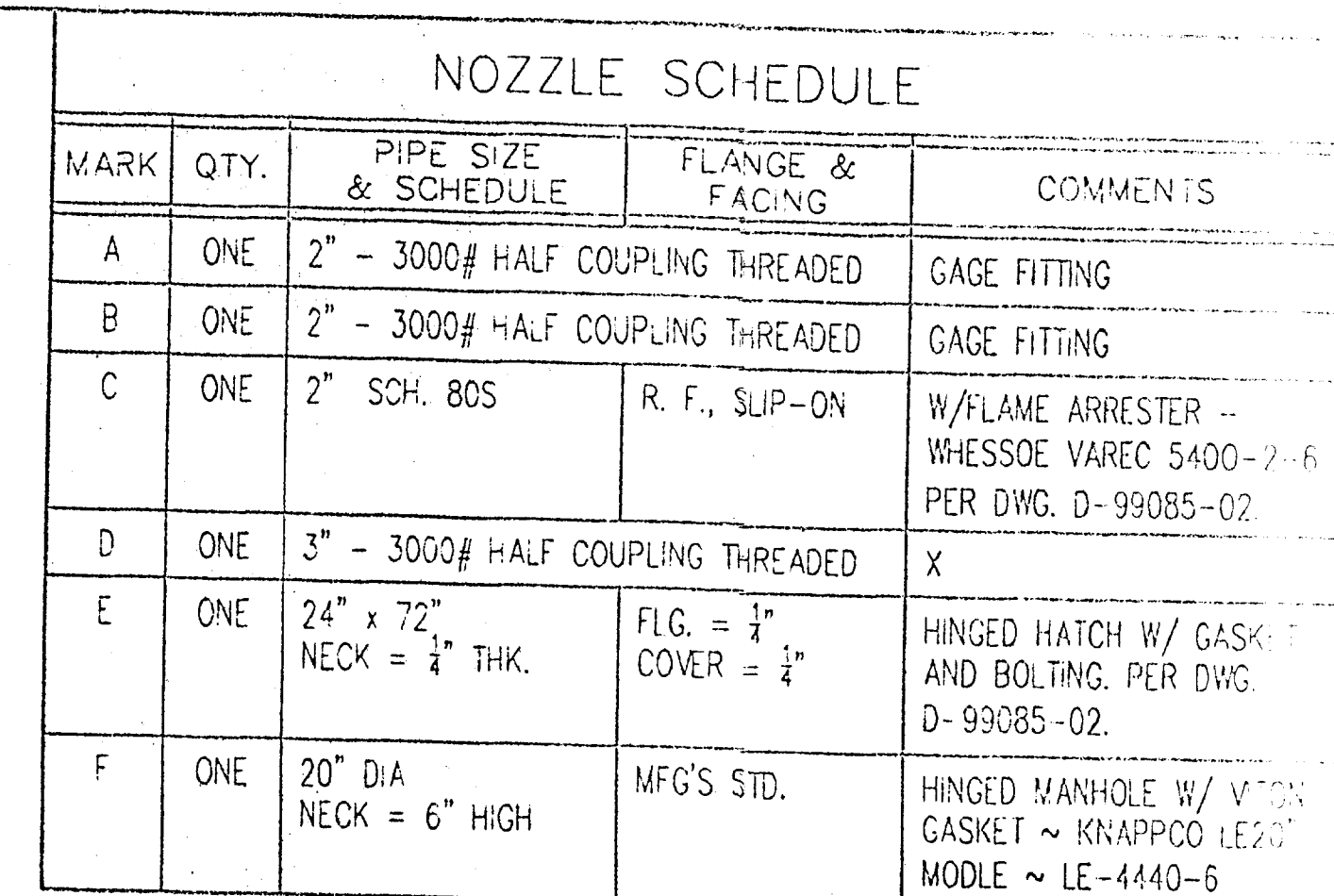
TAMPA TANK, INC.
TAMPA, FLORIDA

DETAILS OF NOZZLES "C" AND "E" AND NAMEPLATE
FOR HORIZONTAL STORAGE TANK
60" DIA. x 21'-0" (3,000 GALLON)

CUSTOMER: PERMA-FIX ENVIRONMENTAL SERVICES
1940 N. W. 67th PLACE
GAINESVILLE, FLORIDA 32653

JOB SITE: PERMA-FIX ENVIRONMENTAL SERVICES
1940 N. W. 67th PLACE
GAINESVILLE, ALACHUA COUNTY, FLORIDA 32653

CUSTOMER'S P.O. NO.:	P 14363 B
FIELD WORK NUMBER	-
CONTRACT NUMBER	TTI - 99085
SHEET NUMBER	1 OF 1
DRAWING NO.:	D-99085-02
REV.	0



TANK DATA	
DESIGNED AND FABRICATED PER: NONE CODE	
NUMBER OF TANKS REQ'D.: ONE	TANK CONTENTS: TOLUENE
NOMINAL CAPACITY: 3,000 GAL. (U.S.)	TANK CONTENTS: XYLENE
DESIGN PRESSURE: ATMOSPHERIC	TANK CONTENTS: ETHANOL
DESIGN TEMPERATURE: AMBIENT	SPECIFIC GRAVITY: 0.86 TOLUENE
WIND VELOCITY: N/A	SPECIFIC GRAVITY: 0.865 XYLENE
PLATE STRESS: 20,000 P.S.I.	SPECIFIC GRAVITY: 0.7942 ETHANOL
RADIOGRAPHY: NONE	OPERATING PRESSURE: ATMOSPHERIC
JOINT EFFICIENCY: 80%	OPERATING TEMPERATURE: AMBIENT
SEISMIC ZONE: ZONE 0	CORROSION ALLOWANCE: NONE

SPECIFIC HEAD DATA	
HEAD TYPE: FLAT - FLANGED	HEAD DIA.: 60" O. D.
NOMINAL THICKNESS: 1/4"	KNUCKLE RADIUS: 1 1/2"
MATERIAL: A-240, TYPE 316L S/S	STRAIGHT FLANGE: 1 1/2"

NOTES:

1. NOZZLES TO HAVE FLANGE BOLT HOLES STRADDLE MAIN CENTERLINES.
2. REPADS ARE NOT REQUIRED.
3. REMOVE ALL SLAG AND WELD SPATTER GRIND IF NECESSARY.
4. FLAME ARRESTER FOR NOZZLE "C" SHALL BE SHIPPED LOOSE.
5. TWO (2) SHOP STD. LIFTING LUGS (316 S/S).
6. SEE DWG. NO'S. D-99085-02 FOR NAMEPLATE.
7. ALL NOZZLES TO BE PROTECTED FOR SHIPMENT.

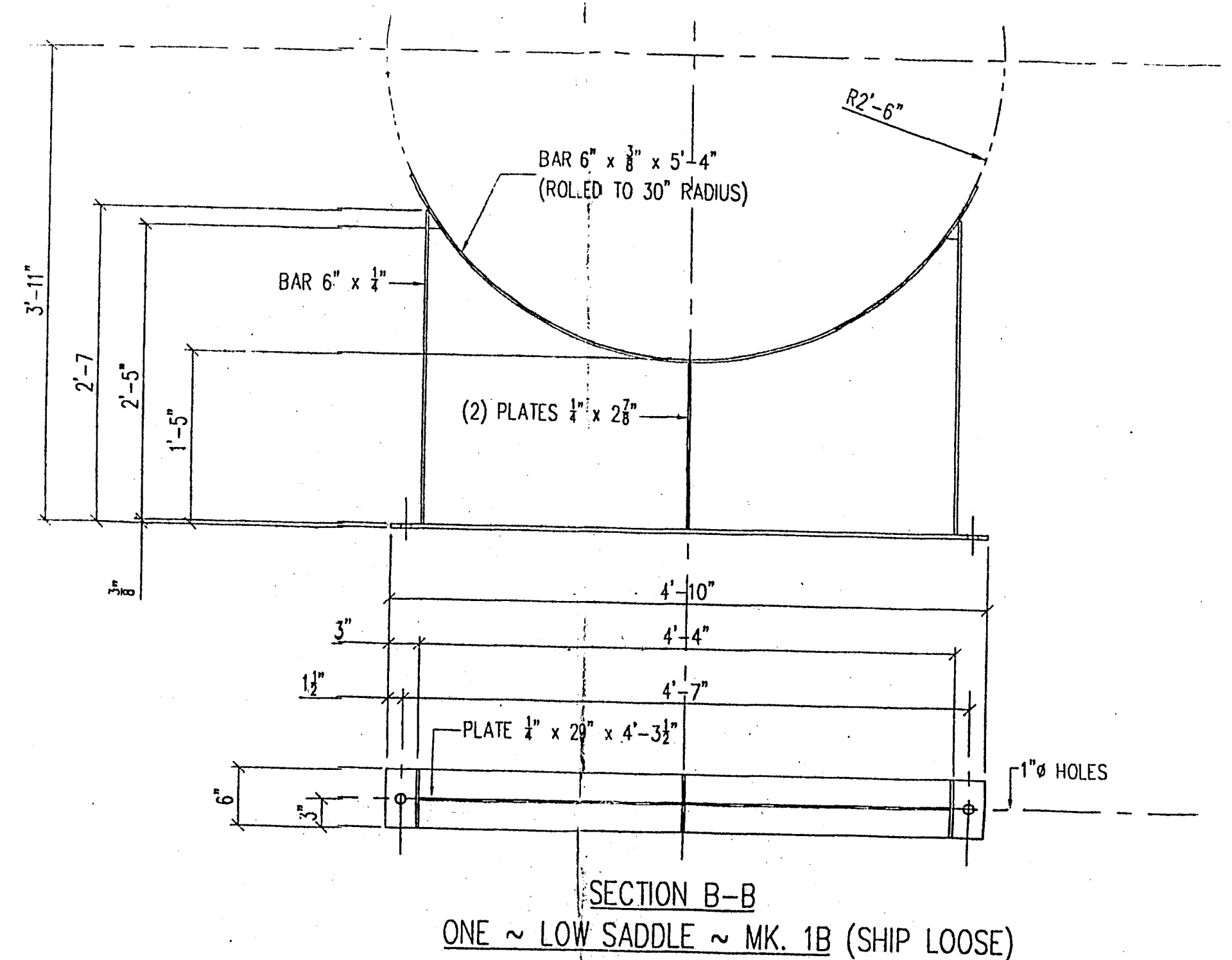


Figure II.C.2

DATE:	10-14-99		
CUST:	3p		
SHOP:			

MATERIAL OF CONSTRUCTION (UNLESS OTHERWISE NOTED)	
PLATE:	ASTM A-240, TYPE 316 S/S
SHAPES:	A-240, TYPE 316 S/S
PIPE:	A312, TYPE 316 S/S
FLANGES:	A182, TYPE 316 S/S
COUPLINGS:	A182, TYPE 316 S/S
GASKETS:	VITON FILLED/TEFLON ENVELOPE
BOLTING:	TYPE 316 S/S

INTERIOR FINISH:
NONE.

EXTERIOR FINISH:
CLEAN MILL FINISH.

RELEASED TO FIELD									
RELEASED FOR FABRICATION									
APPROVAL RECEIVED									
ISSUED FOR APPROVAL	RSU	10-14-99							
CHECKED	RSU	10-11-99							
DRAWING	ROW	9-28-99							
STATUS	BY	DATE	REV.	DESCRIPTION				BY FW	DATE

TAMPA TANK, INC.
TAMPA, FLORIDA

ARRANGEMENT AND DETAILS OF
HORIZONTAL STORAGE TANK
60" DIA. x 21'-0" (3,000 GALLON)

CUSTOMER: PERMA-FIX ENVIRONMENTAL SERVICES
1940 N. W. 67th PLACE
GAINESVILLE, FLORIDA 32653

JOB SITE: PERMA-FIX ENVIRONMENTAL SERVICES
1940 N. W. 67th PLACE
GAINESVILLE, ALACHUA COUNTY, FLORIDA 32653

CUSTOMER'S P.O. NO.: P 14363 B	
FIELD WORK NUMBER -	
CONTRACT NUMBER TII - 99085	
SHEET NUMBER 1 OF 1	
DRAWING NO.: D-99085-01	REV 0