

7th Avenue

Southern Pacific Railroad

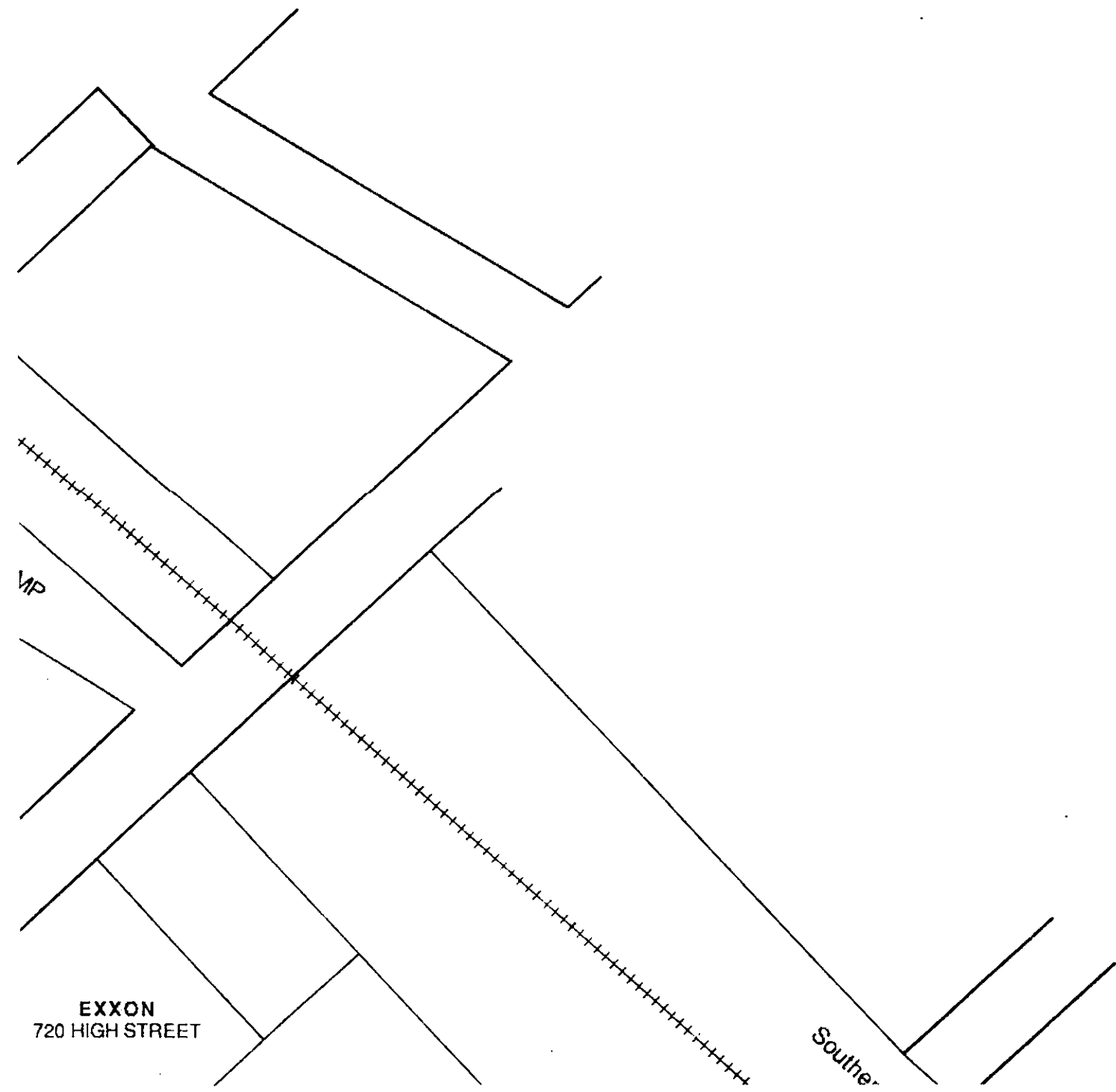
8th Street

HIGHWAY 880
(Elevated)

AMERICAN CAN COMPANY
3801 EAST 8TH STREET

EKO-TEC
4200 ALAMEDA AVENUE

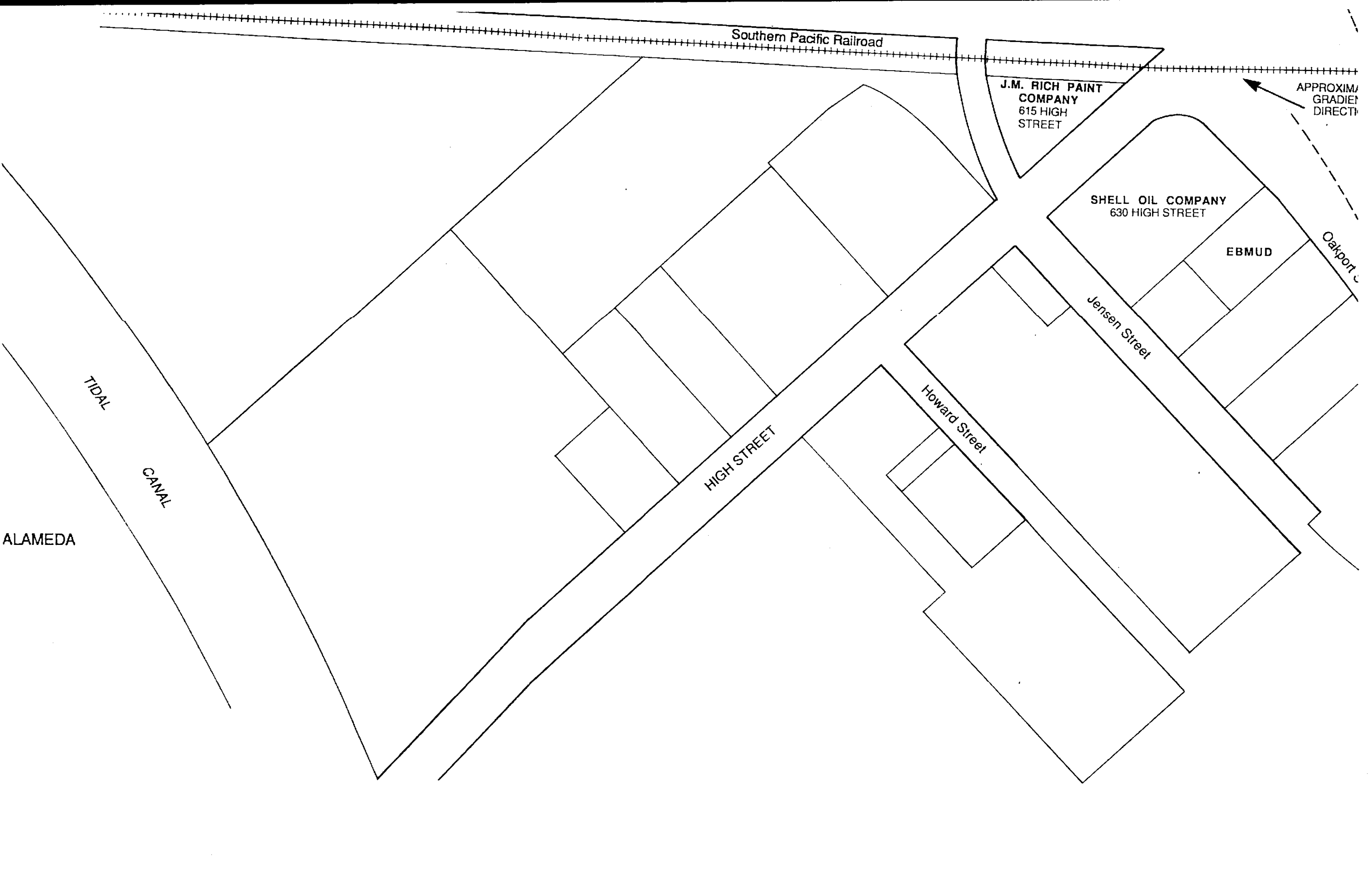
ALAMEDA AVENUE



EXXON
720 HIGH STREET

Southern

MP



Southern Pacific Railroad

J.M. RICH PAINT
COMPANY
615 HIGH
STREET

SHELL OIL COMPANY
630 HIGH STREET

EBMUD

APPROXIMATE
GRADIENT
DIRECTION

Oakport

Jensen Street

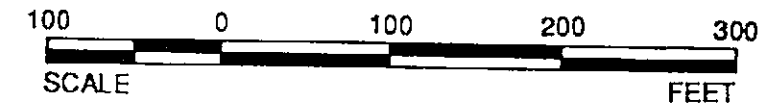
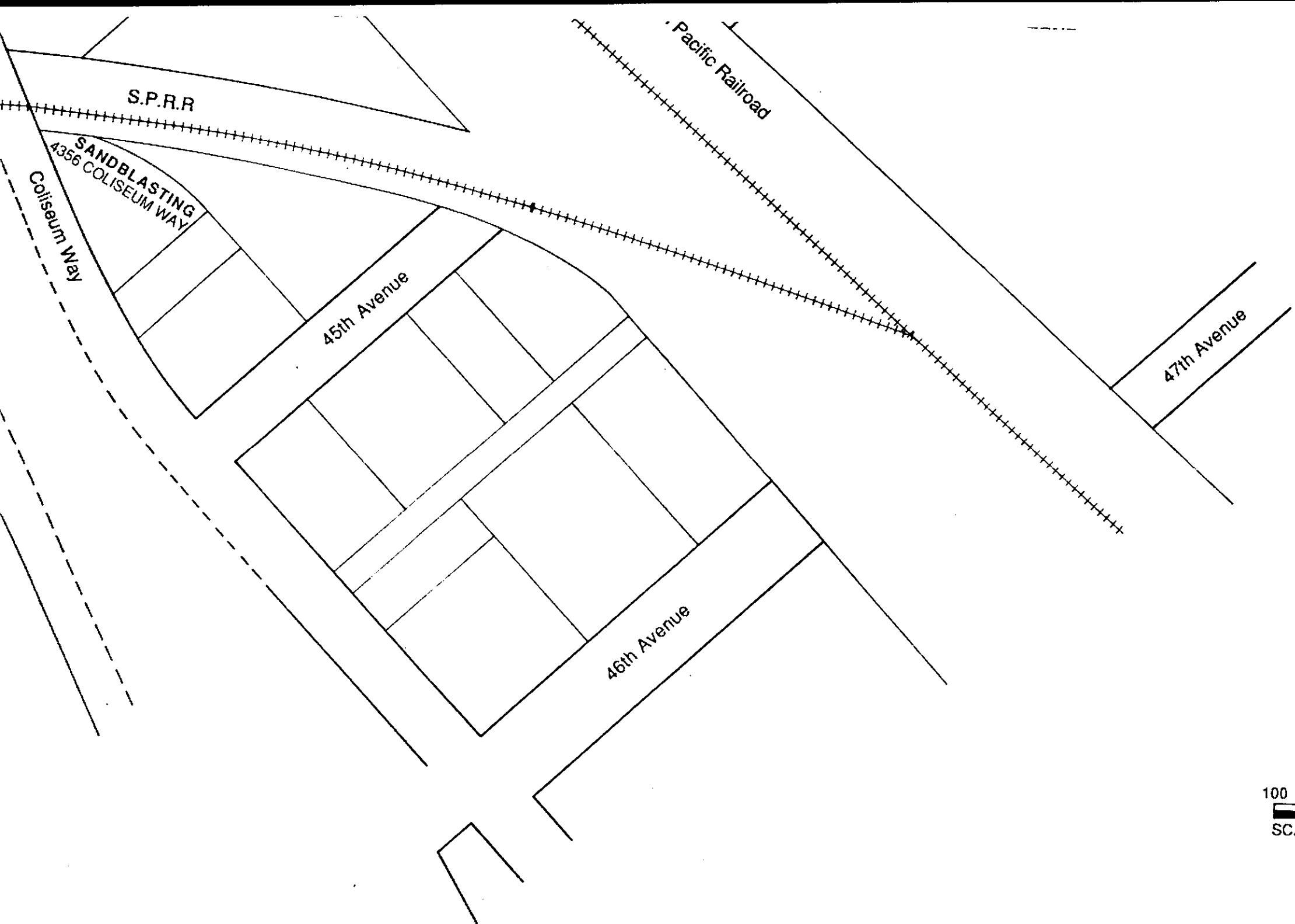
Howard Street

HIGH STREET

TIDAL

CANAL

ALAMEDA



**NEIGHBORING PROPERTIES: REPORTED OR POTENTIAL
UNDERGROUND TANK RELEASES**

SHELL OIL COMPANY
630 High Street
Oakland, California

Scale	Project No
<u>AS SHOWN</u>	
Date	
<u>1/18/90</u>	<u>88-44-369-</u>
Prepared By	Drawing No

LEET DRIVE

EXISTING APPROACH

$R=347'$ $\Delta 12^\circ 47' 14''$ $L=77.44'$

8 12 7 6

5

9

10

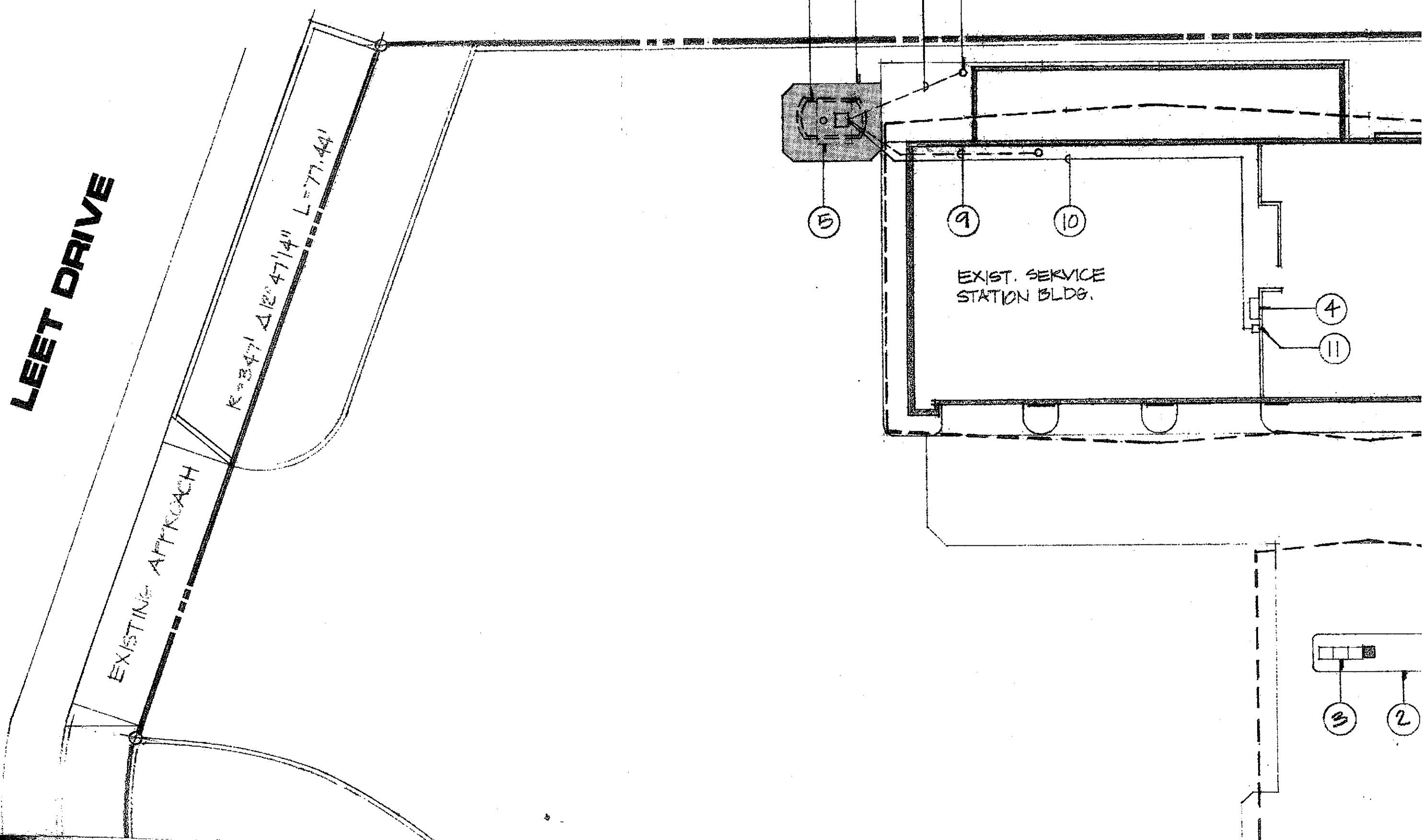
EXIST. SERVICE
STATION BLDG.

4

11

3

2



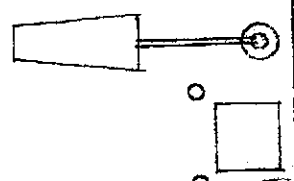
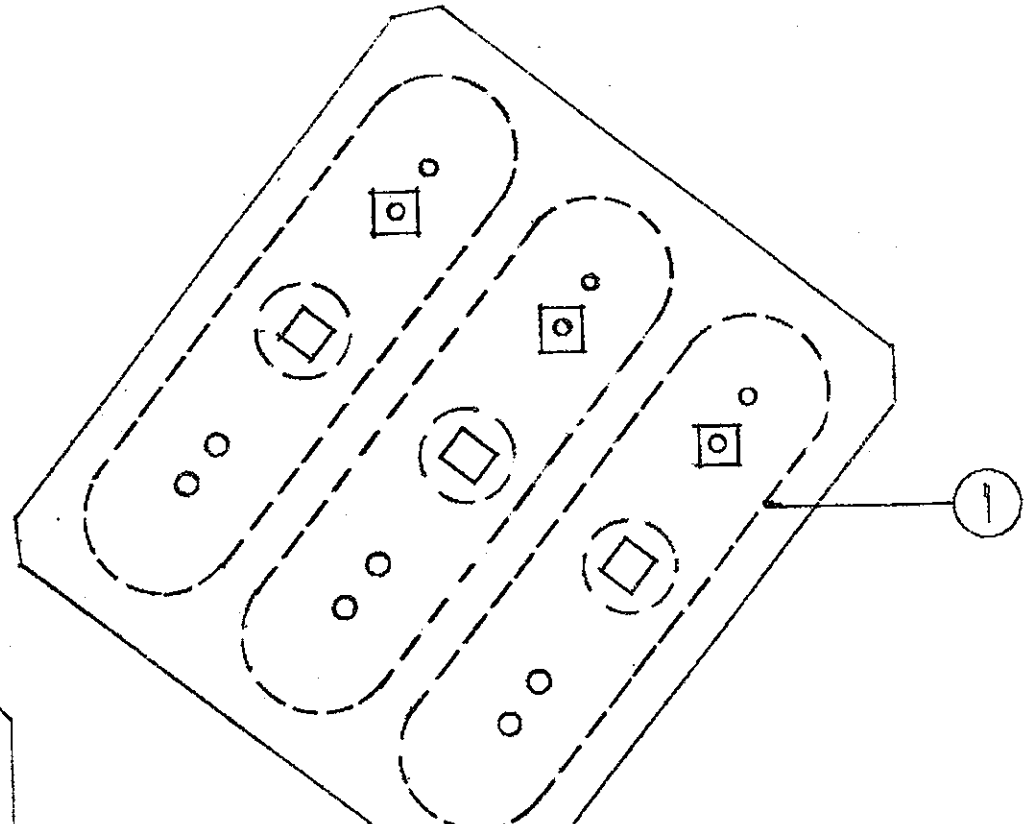
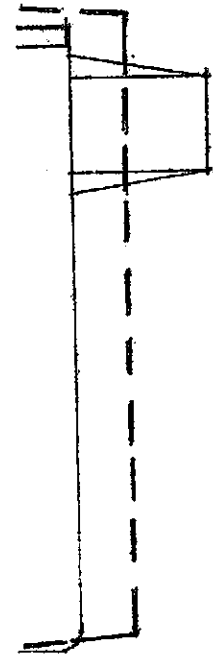


119° 54' 54" E

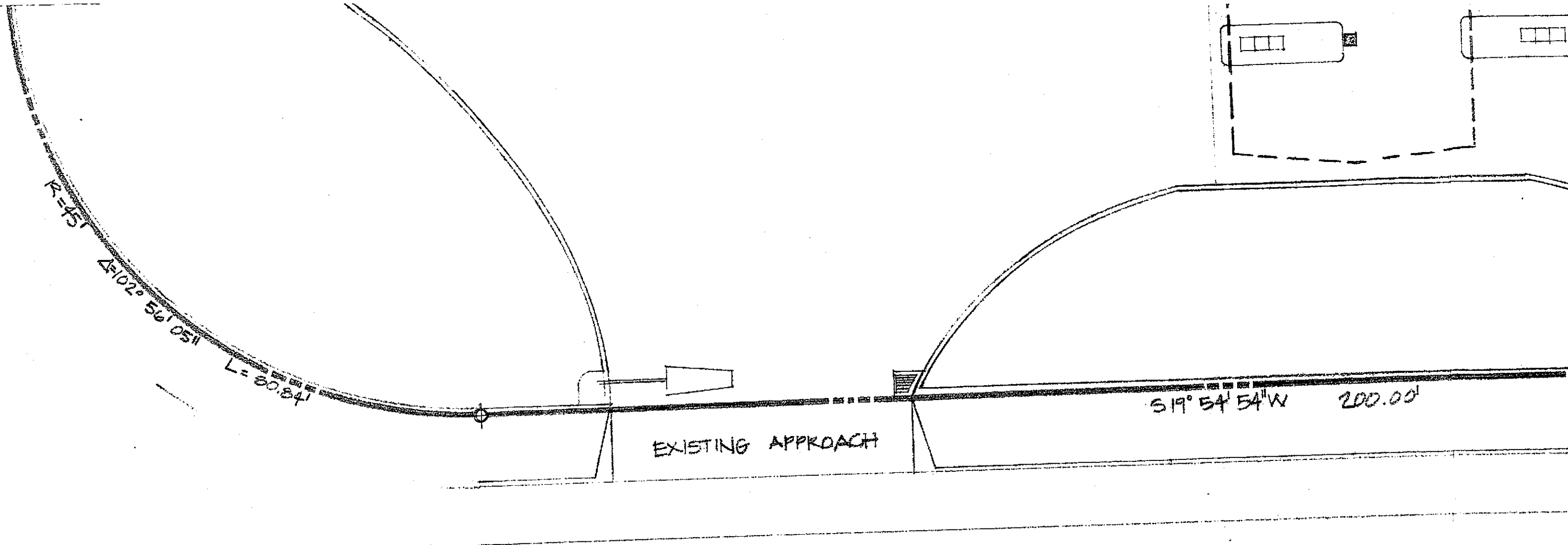
NOTES:

1. Existing underground storage tanks (TYP of 4).
2. Existing dispenser island (TYP of 3).
3. Existing dispenser (TYP of 3).
4. Existing electrical panel - verify location in field.
5. Contractor shall gas free, remove and dispose of existing waste oil tank in accordance with local regulations.
6. New galv. vent riser. Connect new vent line with swing joints per Shell Oil specifications.
7. New 2" dia. fiberglass vent line. Minimum slope of 1/4" per foot to tank.
8. New 550 gallon double-wall Owens-Corning fiberglass tank with 6" thick reinforced concrete slab above per Shell Company specifications. See typical tank installation details (tanks furnished by Shell, installed by general contractor).
9. New double wall fiberglass fill line to waste oil receiver. Exact location of receiver to be determined by Shell engineer.
10. New 1" conduit FROM TANK ANNULAR SPACE TO MONITOR PANEL. Conduit to run overhead at building interior.
11. NEW MONITOR PANEL
12. New concrete pad - see drawing D-1 for dimensions.

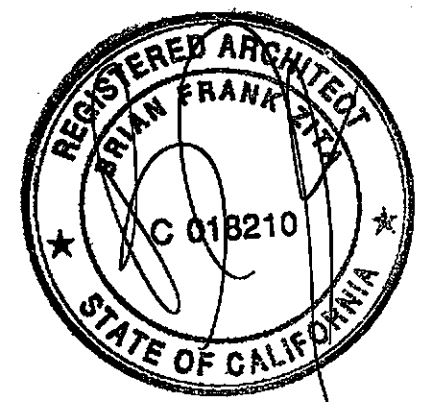
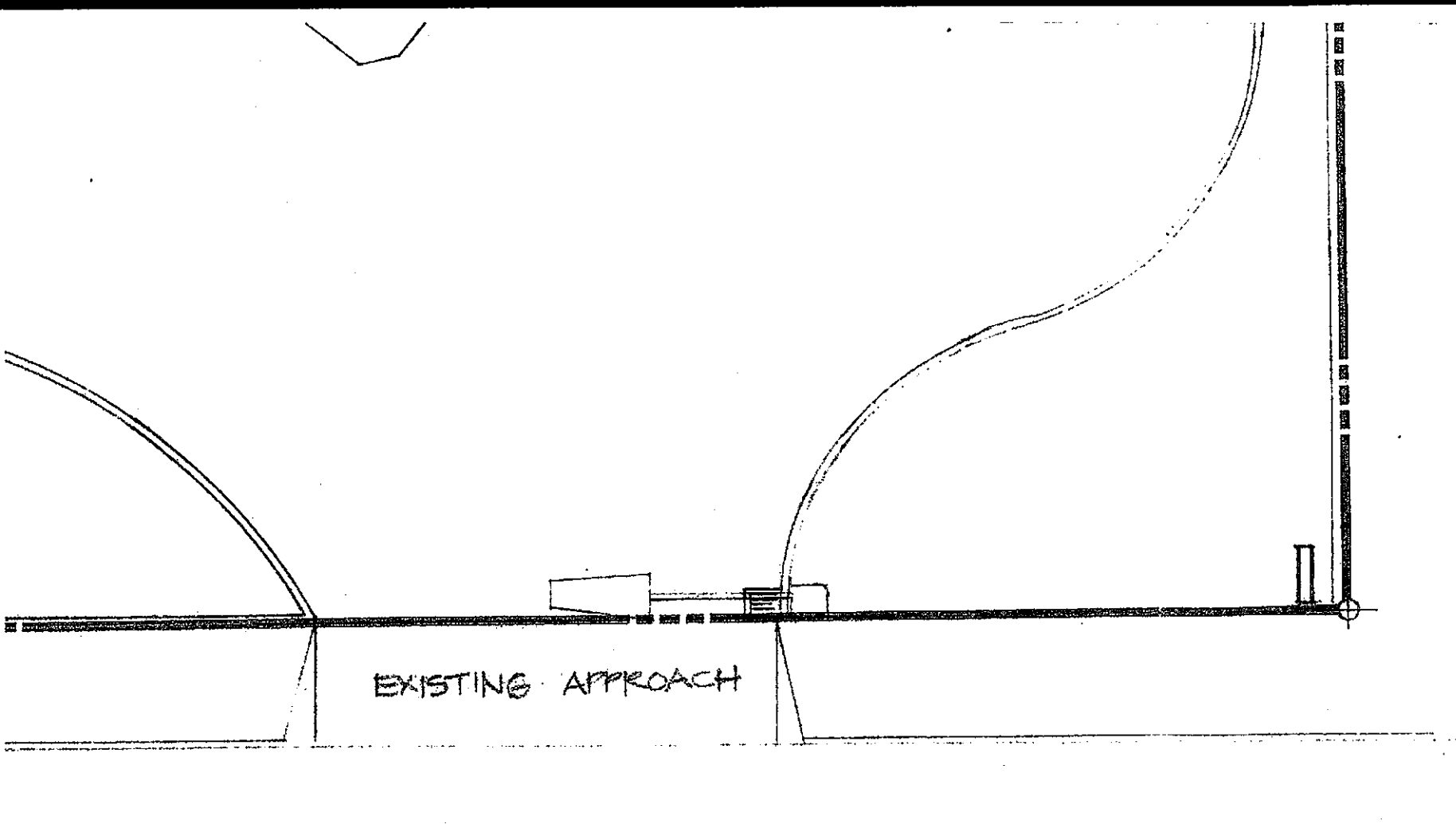
- 1) MAKE TANK ACCESS WAYS VANDALISM PROOF
- 2) CONNECT MONITOR PANEL TO INSEP BREAKER
- 3) SLOPE CONCRETE PAD AWAY FROM ACCESS WAYS



PL 570° 05' 06" E 128.0'



HEGENBERGER ROAD



MARK	DATE	REVISIONS	BY	DATE	APRVD

SITE PLAN

**285 HEGENBERGER ROAD AT LEET DRIVE
 OAKLAND, CA**

 <p>SHELL OIL COMPANY EAST BAY DISTRICT</p>	SCALE 1:10
	DWN. BY LMR
	RHL# 6571
	W.I.C.#

B-200 TELESCOPIC VALVE INSTALLATION

With the B-200 in position on the island and the dispenser in place, the inlet should be in line with the impact valve. Determine dimension 'X' and connect with a single nipple or nipple and union.

Loosen the four nuts holding the impact valve support bracket; two at the 'U' clamp (1) and two at the pan (2). Loosen sealing bracket nut (3). The entire impact valve assembly is free to move up and down approximately 1 inch.

If vertical movement is required, loosen four bolts on the impact valve bracket (4). DO NOT REMOVE COMPLETELY. This will allow for vertical movement of approximately 1/16 of a inch, in all directions.

After the dispenser riser pipe has been connected to the impact valve, proceed in the following order:

First, tighten the four bolts on the impact valve bracket (4), to approximately equal torque.

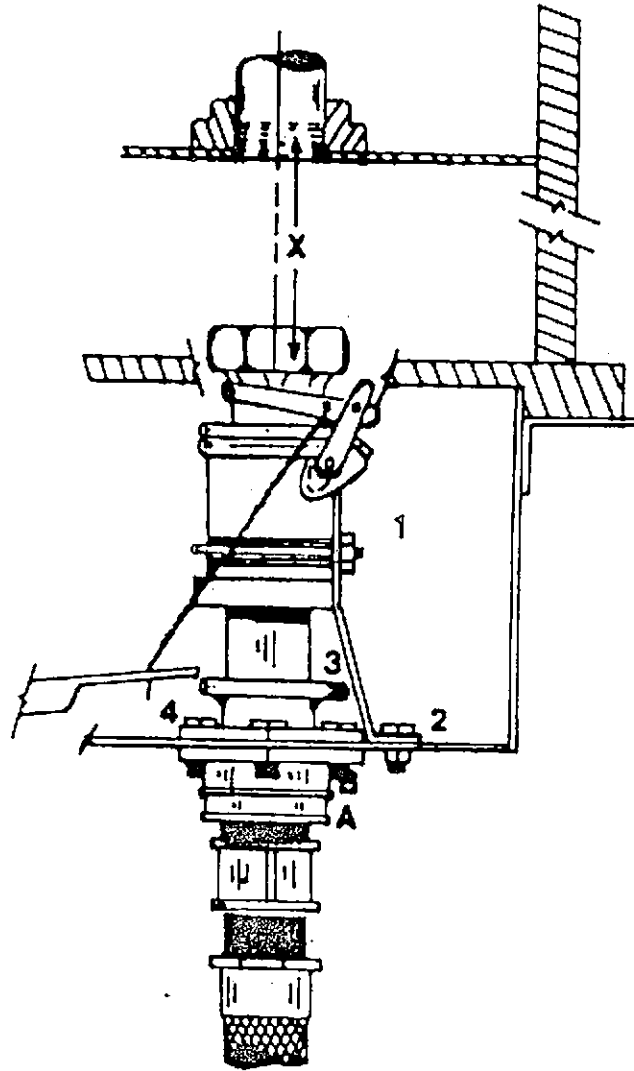
Second, tighten the two nuts holding impact valve support bracket to the pan (2).

Third, tighten the two 'U' clamp nuts (1).

Fourth, tighten the sealing bracket nut (3) snugly.

Last, attach the float chain to the impact valve lever arm (4). Chain should be almost tight. Check float operation and cut off excess chain, so as not to interfere with valve operation.

Four ounces of liquid in the float reservoir should trigger the valve.

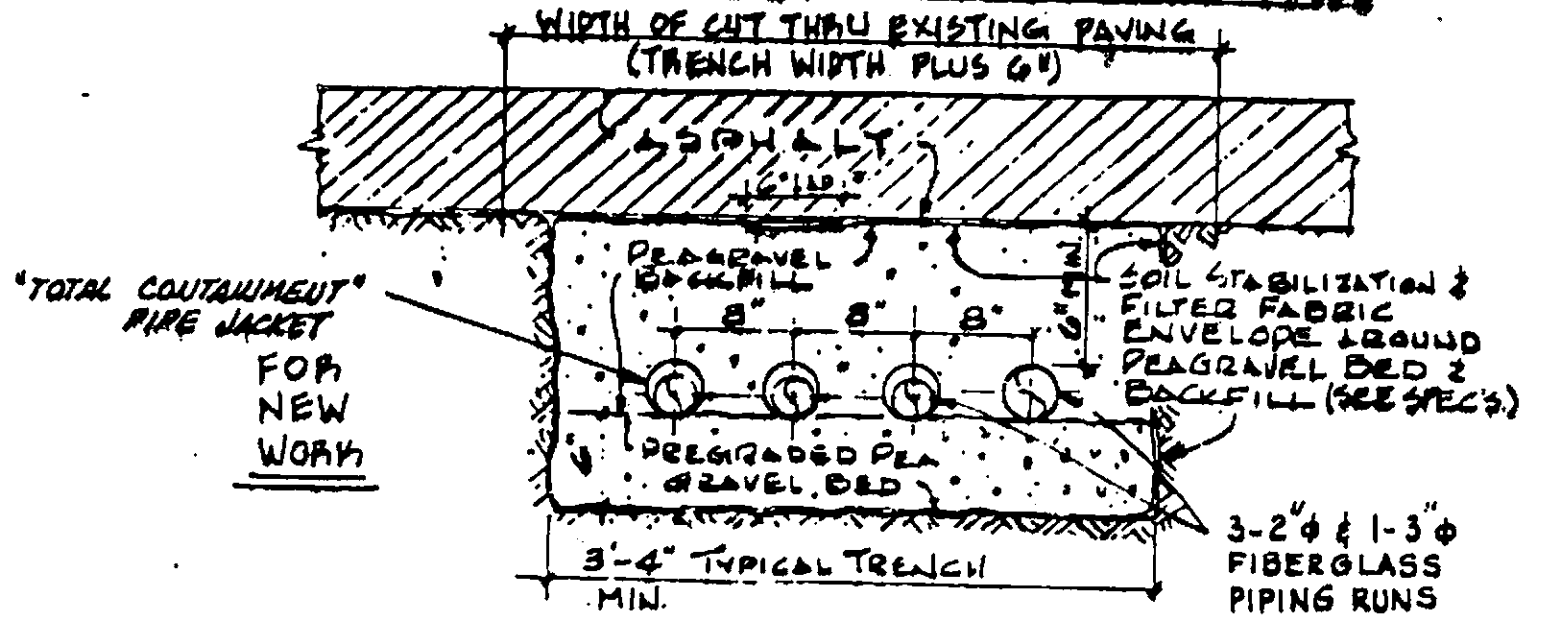


Secondary Containment piping can be terminated at:

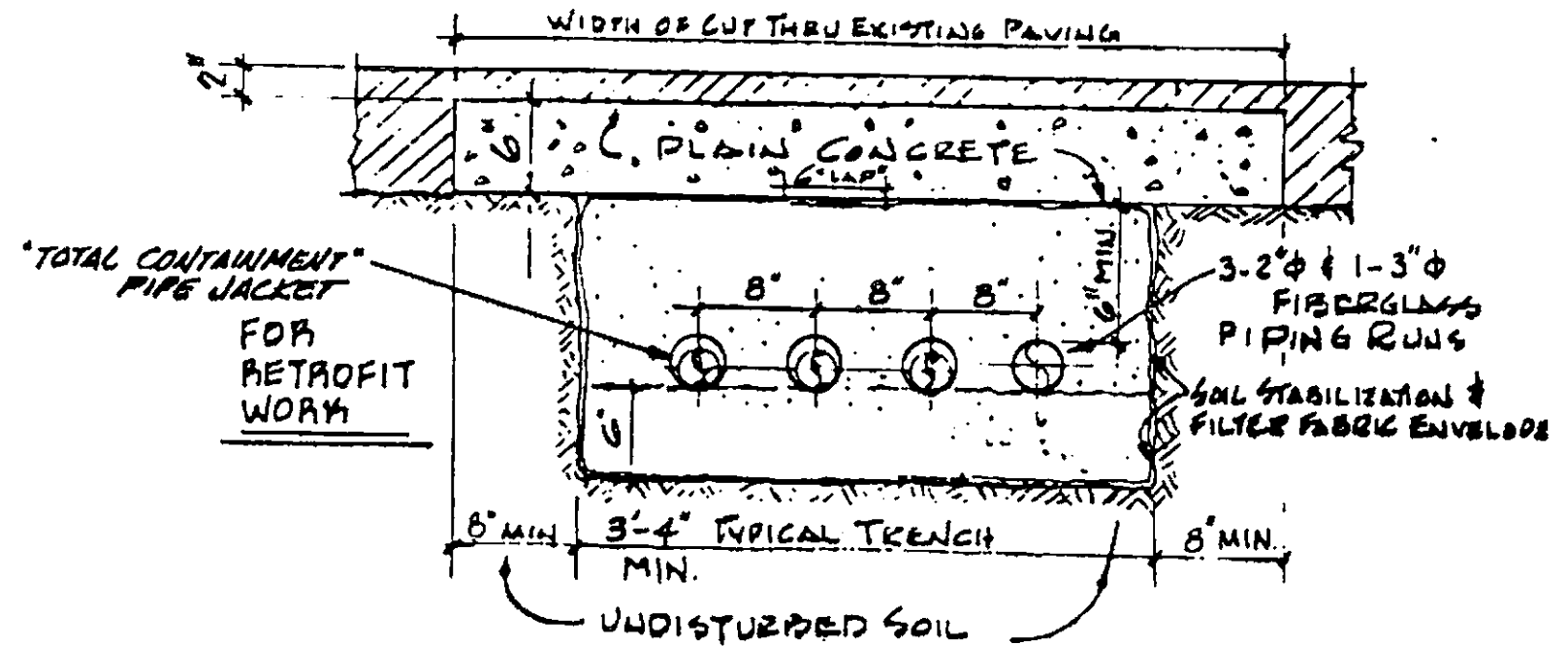
Point A.....AO Smith or Ameron Fiberglass Pipe.

Point B.....Total Containment Piping.

TYPICAL STANDARD PIPE TRENCH & COVER IN YARD AREA WHEN PEAGRAVEL BED & BACKFILL IS USED



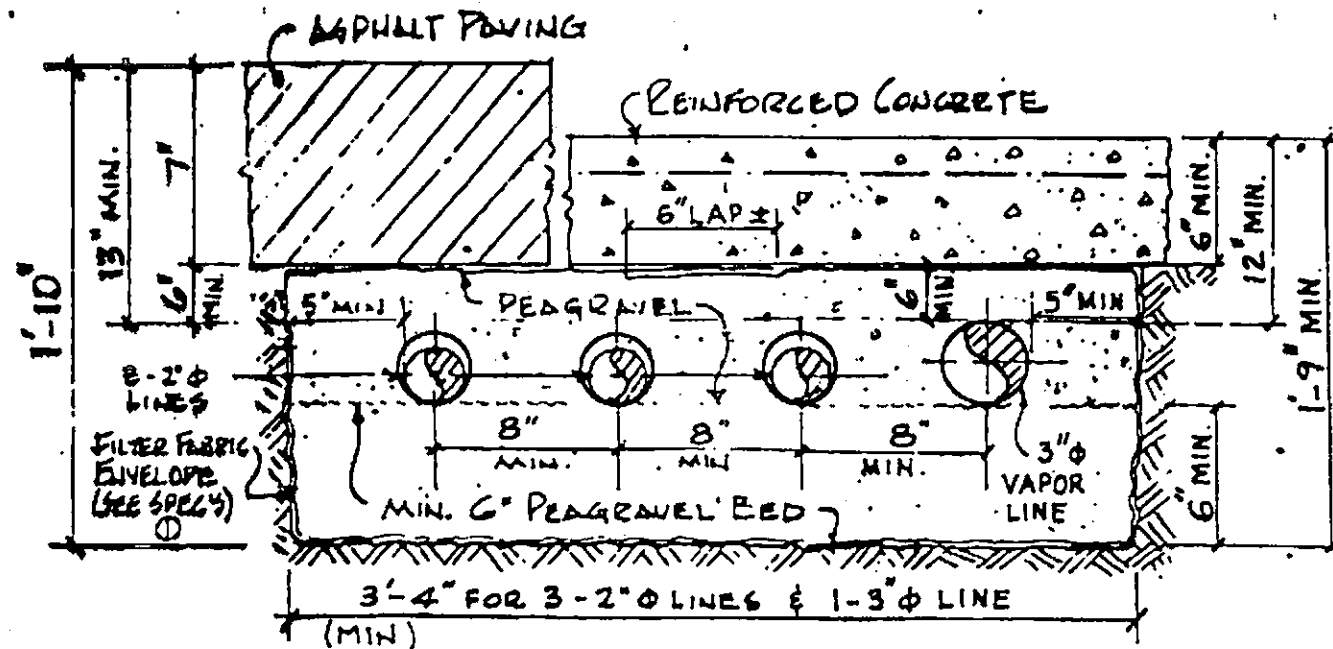
TYPICAL ALTERNATE PIPE TRENCH & COVER IN YARD AREA WITH EITHER PEAGRAVEL OR SAND BACKFILL



FOR NEW CONSTRUCTION OR INSTALLATION OF NEW PIPING IN EXISTING ASPHALT YARD AREAS.

TYPICAL STANDARD PIPE TRENCH & COVER IN YARD AREA

TYPICAL MINIMUM TRENCHING & BURIAL REQUIREMENTS FOR FIBERGLASS PIPE



STANDARD BEDDING AND BACKFILL MATERIAL & INSTALLATION

PEAGRAVEL SPECIFICATION IS THE SAME AS FOR FIBERGLASS TANKS. THE MINIMUM 6" DEEP BED MUST BE LAID AND GRADED TO THE PROPER PITCH BEFORE THE PIPE RUNS ARE INSTALLED. FABRICATE PIPE RUNS AT GRADE AND INSTALL IN THE PREGRADED (COMPACTED) BED. AFTER MAKING NECESSARY CONNECTIONS OF RUNS, BRANCHES OR FITTINGS WHICH MUST BE MADE UP IN THE TRENCH, REGRADE AND COMPACT BED UNDER THESE CONNECTIONS.

3" OR 4" DIAMETER PIPE COVER & SPACING

UNDER CONCRETE THE MINIMUM OVERALL DEPTH TO TOP OF PIPE IS 10", UNDER ASPHALT - 13". MINIMUM SPACING BETWEEN ADJACENT PIPES OR SIDES OF DITCH IS 5".

GASOLINE PIPING - REMOTE PUMPING SYSTEMS

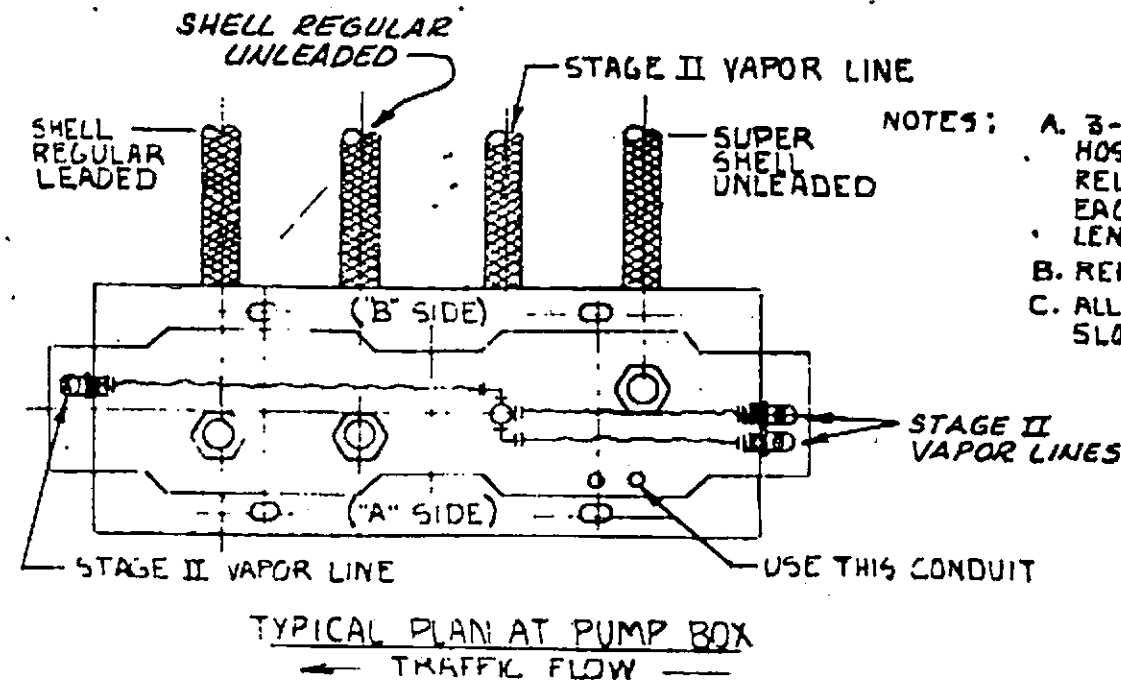
THE MINIMUM COVER TO FINISH GRADE OVER PRODUCT LINES OUTSIDE THE CONCRETE ISLAND MAT AREA IS 18".

ALTERNATE BEDDING & BACKFILL MATERIAL

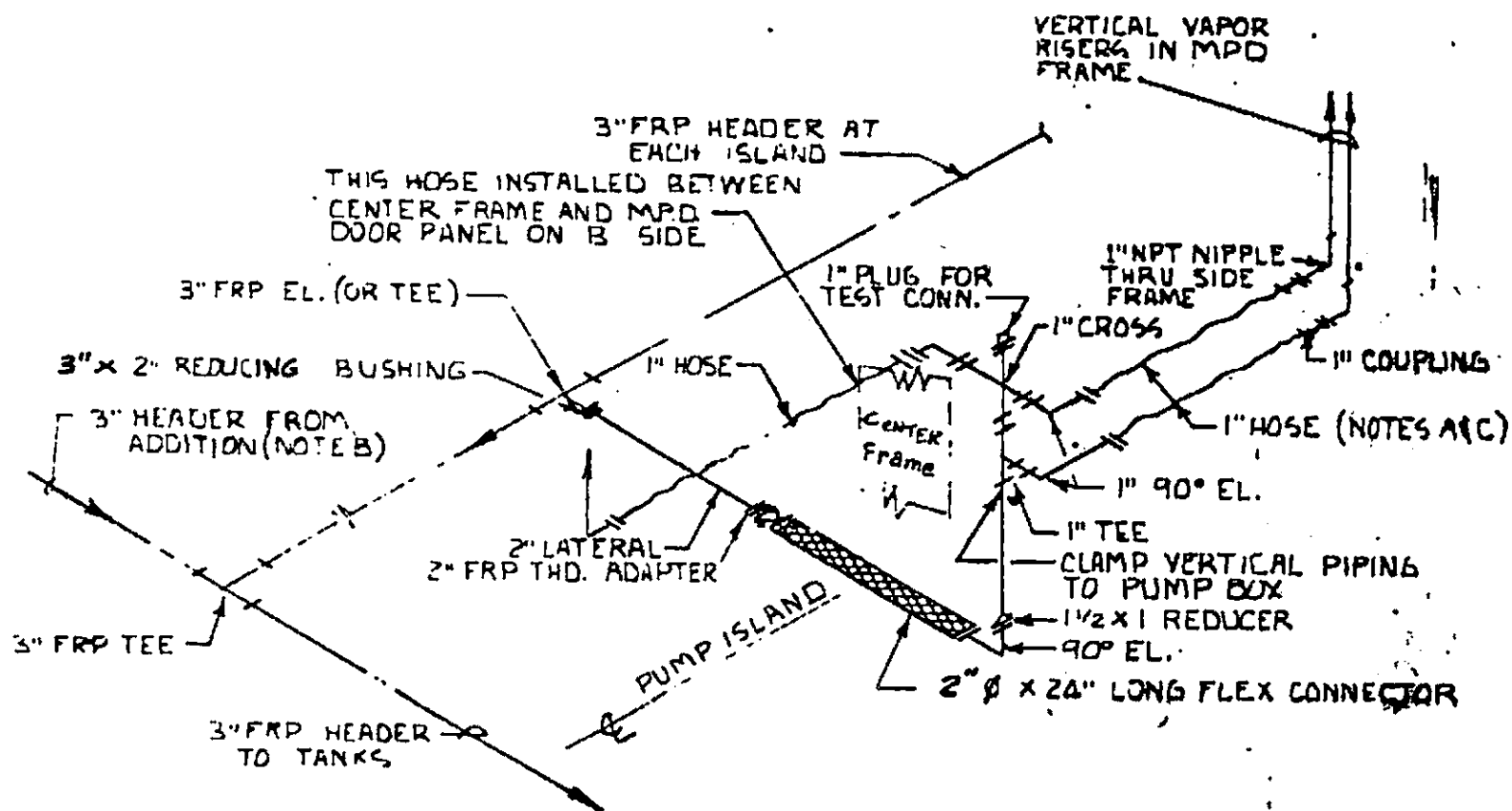
IF PEAGRAVEL IS NOT AVAILABLE, CLEAN MECHANICALLY COMPACTED SAND MUST BE USED. MINIMUM BED IS 6". SAND BACKFILL OVER THE PIPING AFTER COMPLETION OF NECESSARY TESTING SHOULD BE MECHANICALLY COMPACTED IN LAYERS OF 12" OR LESS. THE MINIMUM CLEARANCES BETWEEN TOP OF PIPE AND UNDERSIDE OF PAVING MUST BE INCREASED AS FOLLOWS:

PIPE SIZE	UNDER CONCRETE	UNDER ASPHALT
2"	5" (9" MIN. TOTAL COVER)	6" (12" MIN. TOTAL COVER)
3-4"	6" (10" MIN. TOTAL COVER)	6" (13" MIN. TOTAL COVER)

TYPICAL MINIMUM TRENCHING & BURIAL REQUIREMENTS FOR FIBERGLASS PIPE

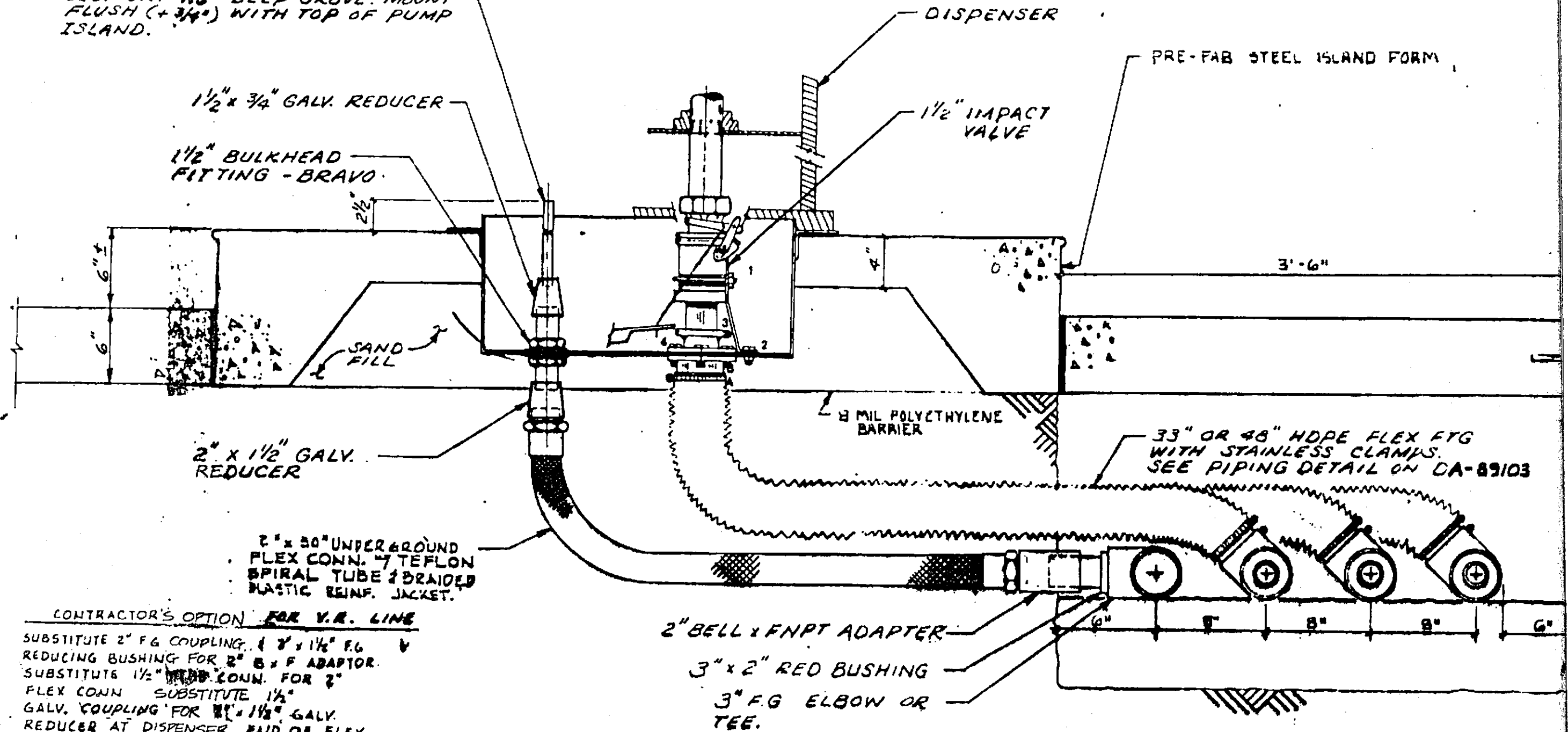


- NOTES:
- A. 3-1" U.L. LISTED GASOLINE HOSES REQUIRED WITH 1" NPT REUSABLE SWIVEL FITTINGS AT EACH END FIELD CUT TO LENGTH.
 - B. REFER TO PLOT LAYOUT.
 - C. ALL HOSES & PIPING MUST SLOPE DOWN-NO TRAPS



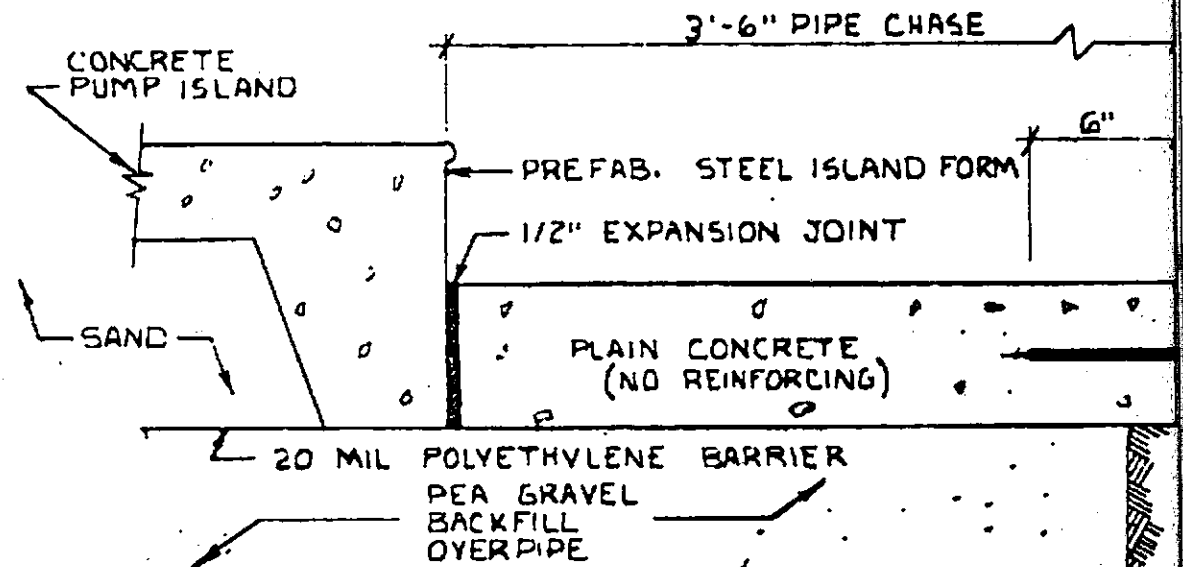
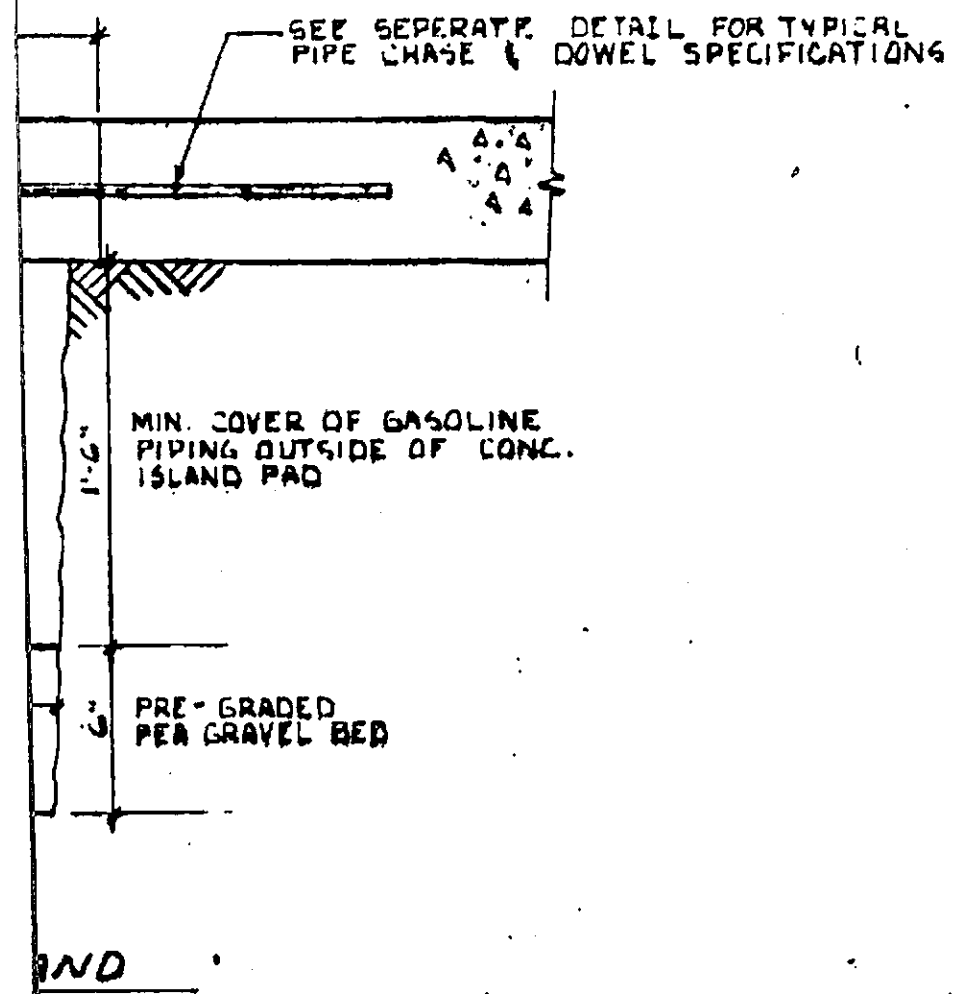
STAGE II VAPOR PIPING - GILBARCO MPD & DRESSER WAYNE MGD - 3" Ø VAPOR PIPING

3/4" Ø x 3 1/2" LG NIPPLE W/ SHEAR SECTION. 1/16" DEEP GROVE. MOUNT FLUSH (+ 3/4") WITH TOP OF PUMP ISLAND.



CONTRACTOR'S OPTION FOR V.R. LINE
 SUBSTITUTE 2" FG COUPLING & 2" x 1 1/2" FG REDUCING BUSHING FOR 2" B x F ADAPTOR.
 SUBSTITUTE 1 1/2" FLEX CONN. FOR 2" FLEX CONN. SUBSTITUTE 1 1/2" GALV. COUPLING FOR 1 1/2" GALV. REDUCER AT DISPENSER END OF FLEX CONNECTOR.

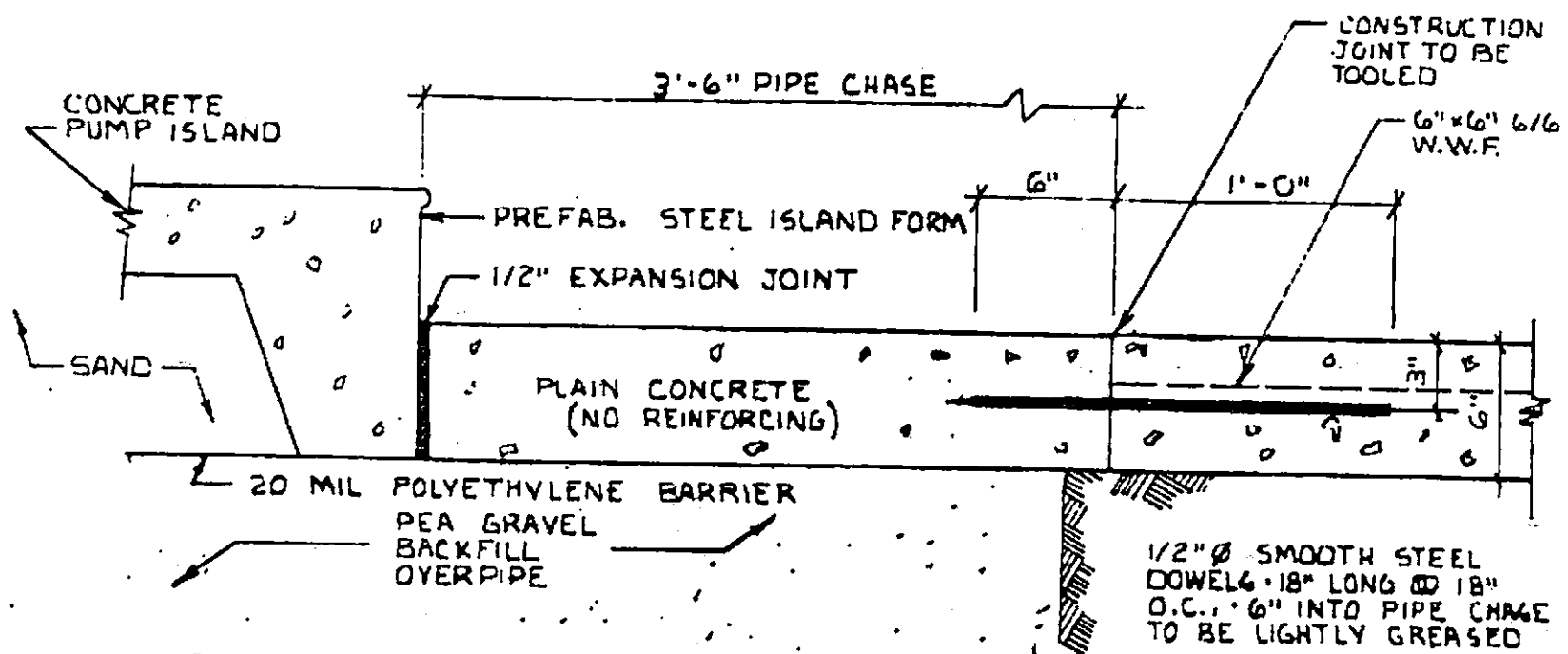
TYPICAL DISPENSER PIPING AND CONSTRUCTION DETAIL AT PUMP ISL



* PIPE CHASE WIDTH - 2'-6" MIN. FOR PRODUCT LINES, 2'-0" V.R. LINE. SEE PLOT LAYOUT FOR LOCATION, EXTEND CHA

TYPICAL PIPE CHASE SECTION ADJACENT T


TYPICAL
CONFIGURATIONS



* PIPE CHASE WIDTH: 2'-6" MIN. FOR PRODUCT LINES, 2'-0" MIN. FOR 3" Ø V.R. LINE. SEE PLOT LAYOUT FOR LOCATION, EXTEND CHASE BEYOND EDGE OF TRENCH

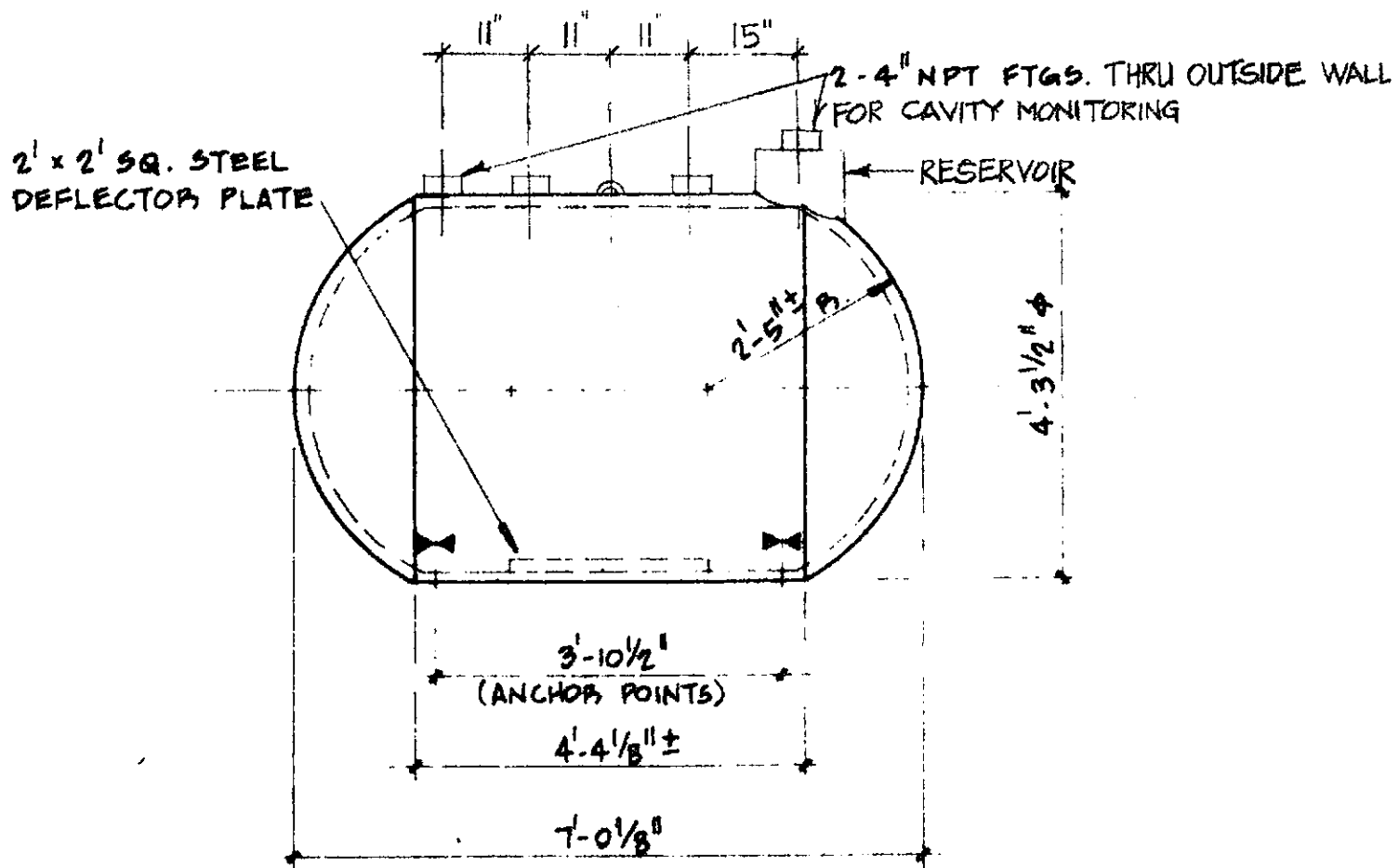
HEGENBERGER ROAD & LEET DRIVE
OAKLAND, CALIFORNIA

MARK	DATE	REVISION	BY	APY'D

	SHELL OIL COMPANY HOUSTON, TEXAS
	PIPE BEDDING, DISPENSER PIPING, PUMP ISLAND, & BRAVO B-200 BOX INSTALLATION DETAILS

TYPICAL PIPE CHASE SECTION ADJACENT TO PUMP ISLAND

SCALE	NONE	CHECKED/APP'D	
DATE	2-20-89	APPROVED	
DWN. BY			
CHEK. BY			DA-89104



NOTE:

ANCHORING NOT REQUIRED UNDER 6" CONC. PAD PLUS MIN. 18" PEAGRAVEL BACKFILL. THIS GIVES MIN. F/S OF 1.2 AGAINST FLOATOUT. TYPAR HOLE LINER SHOULD BE USED.

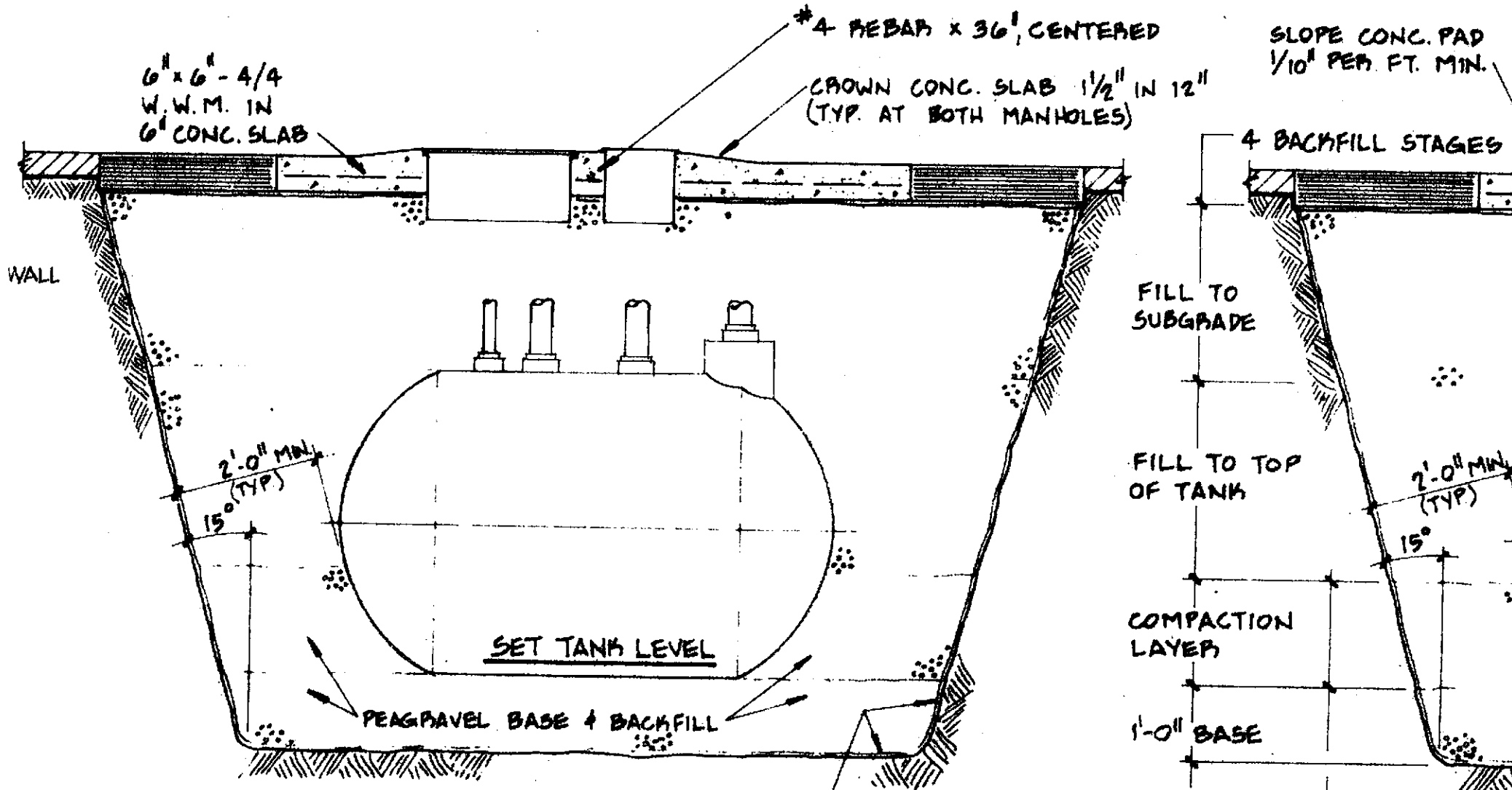
OWENS/CORNING DWT-4 550 GALLON DOUBLE WALL TANK - ACTUAL CAPACITY 548 GALLONS, CAVITY VOLUME APPROX. 50 GALLONS, WEIGHT 600 LBS, DISPLACEMENT VOLUME 643 GALLONS

$\frac{1}{2}'' = 1'-0''$

6" x 6" - 4/1
W.W.M. IN
6" CONC. SL

T.
FI
S-

WASTE OI
PANEL. M
RECEIVE
W.



LINE BOTTOM & SIDE WALLS OF TANK HOLE WITH TYPAR FILTER FABRIC IN ALL CASES, UNLESS IN SOLID ROCK (SEE SPECS)

REFER TO SITE PLAN, PIPING INSTALLATION DETAIL, SPECIFICATIONS & ADDENDA FOR LOCATION OF TANK(S) TO BE INSTALLED, INSTALLATION & TESTING PROCEDURES AND DETAILS OF TANK MONITORING SYSTEM TO BE INSTALLED.

TYPICAL INSTALLATION OF A 550 GALLON, 4' FIBERGLASS UNDERGROUND TANK FOR WASTE OIL STABLE WALLS—GOOD SOIL CONDITIONS—PEAGRAV

1/2" = 1'-0"

WASTE OIL MONITOR CONTROL PANEL MOUNT ON WALL NEAR RECEIVER
WASTE OIL RECEIVER

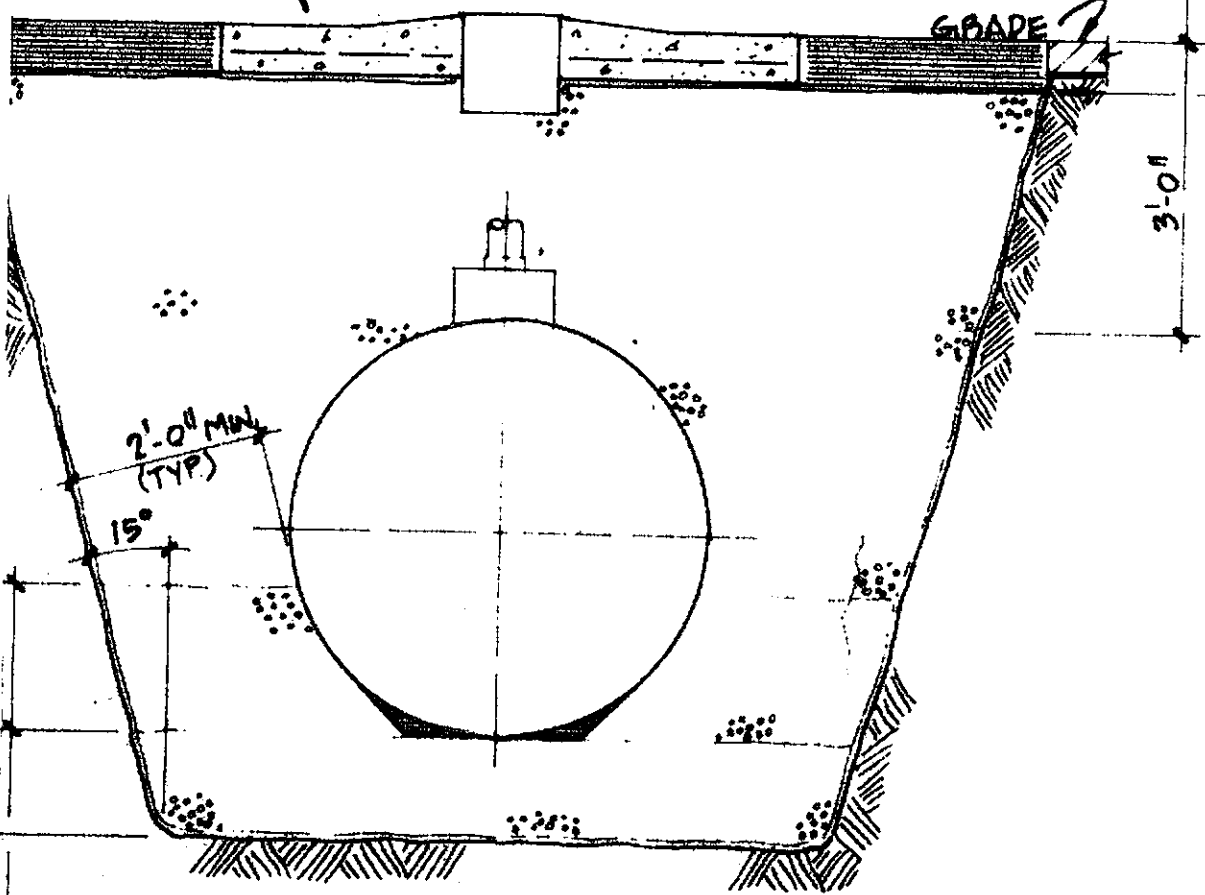


24" x 3" SPAC
2" SP
1

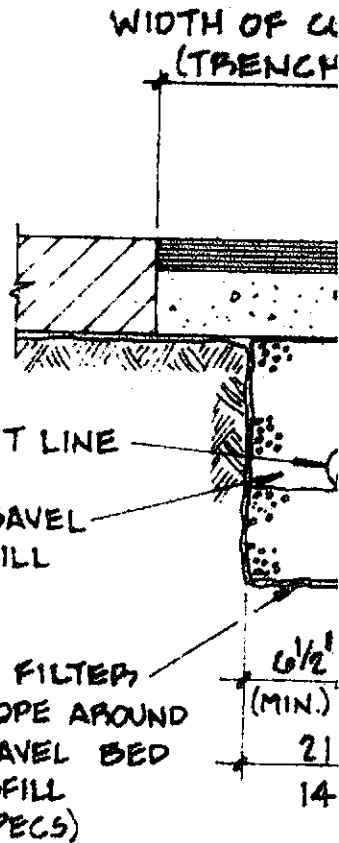
E CONC. PAD
PER FT. MIN.

NO ANCHORING REQUIRED FOR
2' MIN. UNDER 6" CONCRETE
MAT (6' x 9' MIN.)

5 FILL STAGES



INSTALL 8 MIL.
POLYETHYLENE
BARRIER BETWEEN
BACKFILL & PAVING



2" VENT LINE

PEAGRAVEL
BACKFILL

TYPAR FILTERED
ENVELOPE AROUND
PEAGRAVEL BED
& BACKFILL
(SEE SPECS)

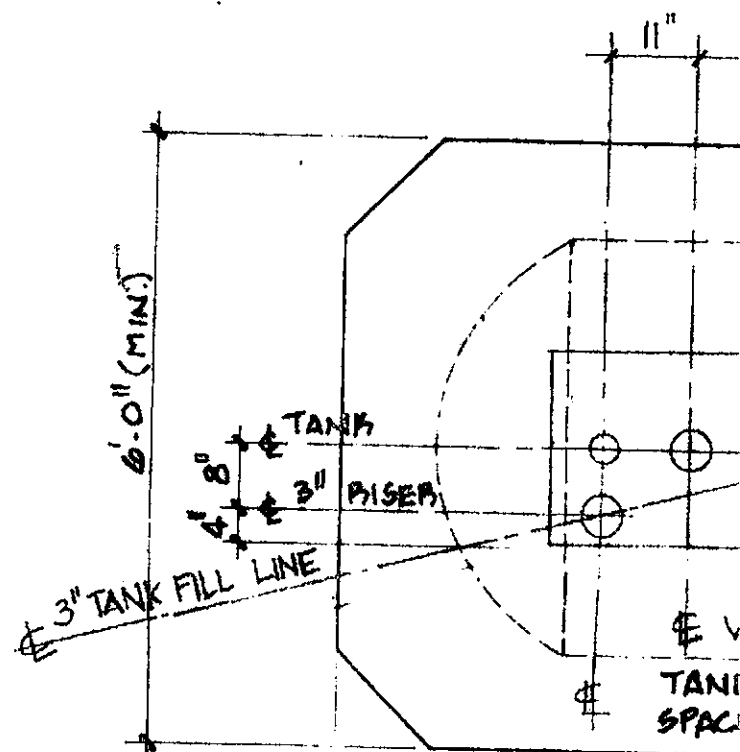
6 1/2"
(MIN.)
2"
14"

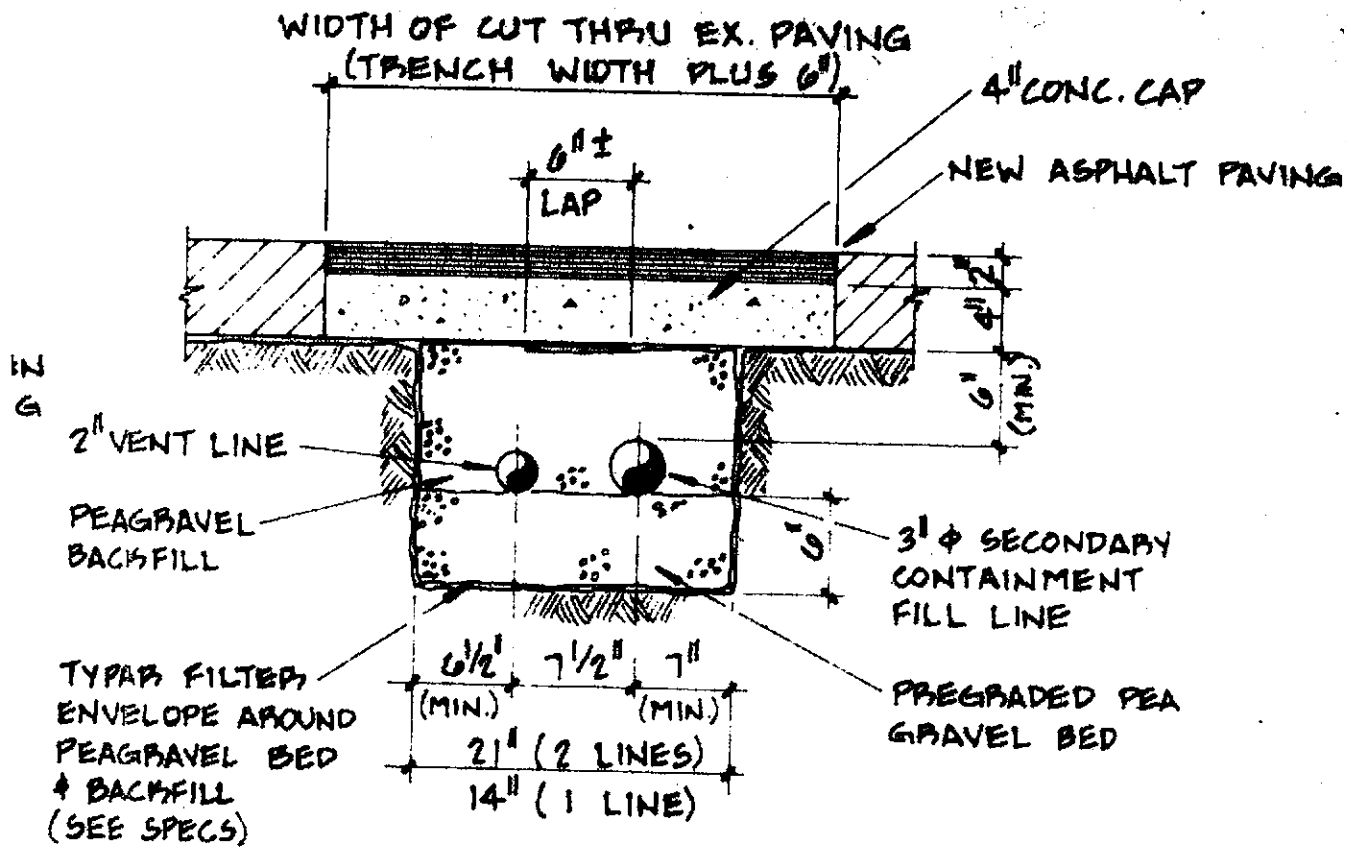
TYPICAL PIPE TR
WITH EITHER PEAGRAVEL

SHADED AREAS UNDER TANK SHOW WHERE
SELF-COMPACTING PEAGRAVEL WILL NOT
FLOW NATURALLY AND MUST BE WORKED
INTO THE VOID AREA AFTER APPROXIMATELY
15"-18" OF FILL ABOVE THE BASE LAYER
HAVE BEEN PLACED.

ON 4' I.D., DOUBLE WALL
ASTE OIL OR FUEL OIL
EAGRAVEL BACKFILL

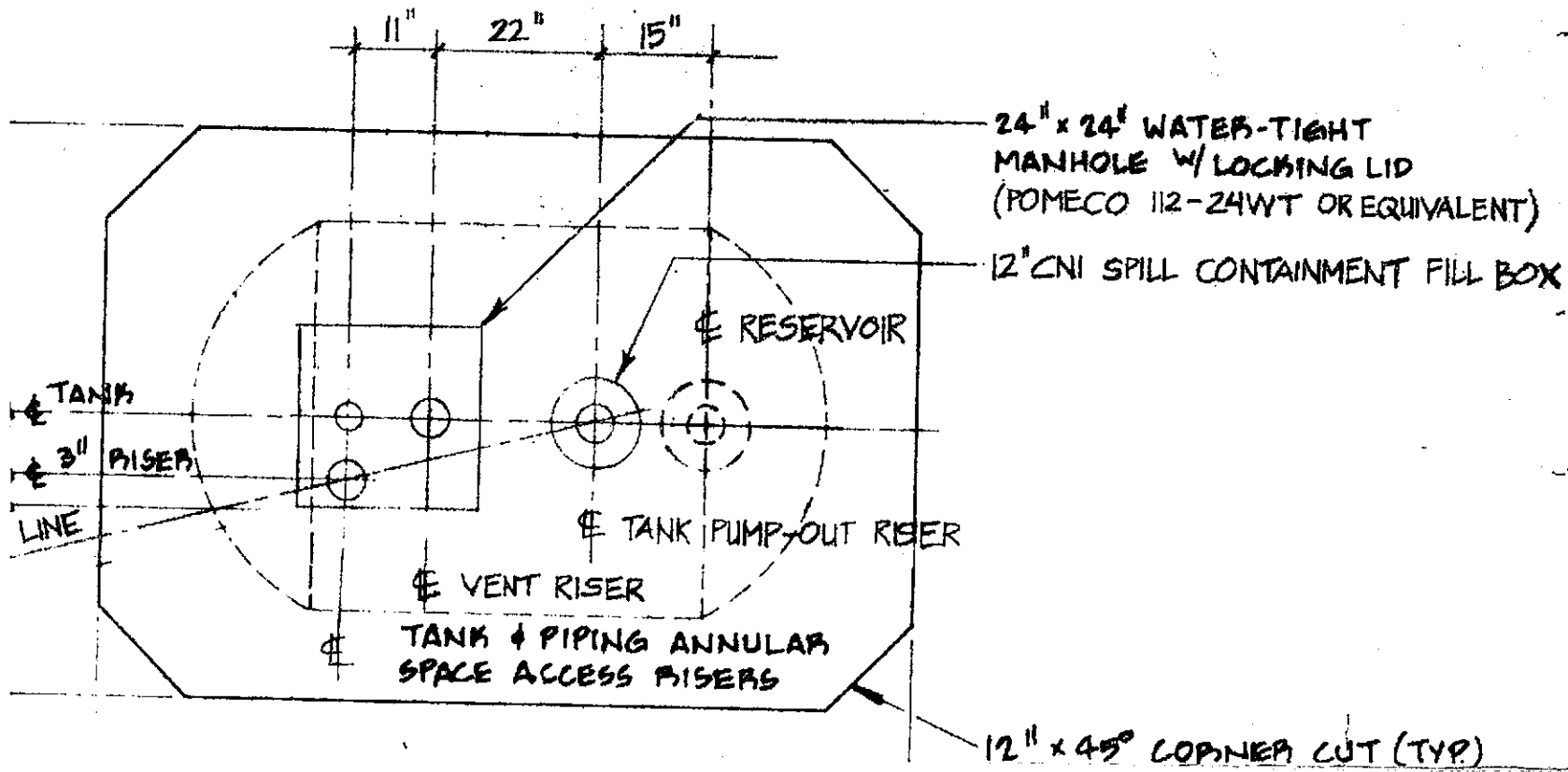
- 24" x 24" WATER-TIGHT MANHOLE W/ LOCKING LID
- 3" RISER WITH PIPE CAP (PIPE ANNULAR SPACE ACCESS)
- 2" RISER WITH PIPE CAP. (TANK ANNULAR SPACE ACCESS)
- EXPL. PROOF/WATER-TIGHT JUNCTION BOX - "CROUSE"





TYPICAL PIPE TRENCH & COVER IN YARD AREA WITH EITHER PEAGRAVEL OR SAND BACKFILL

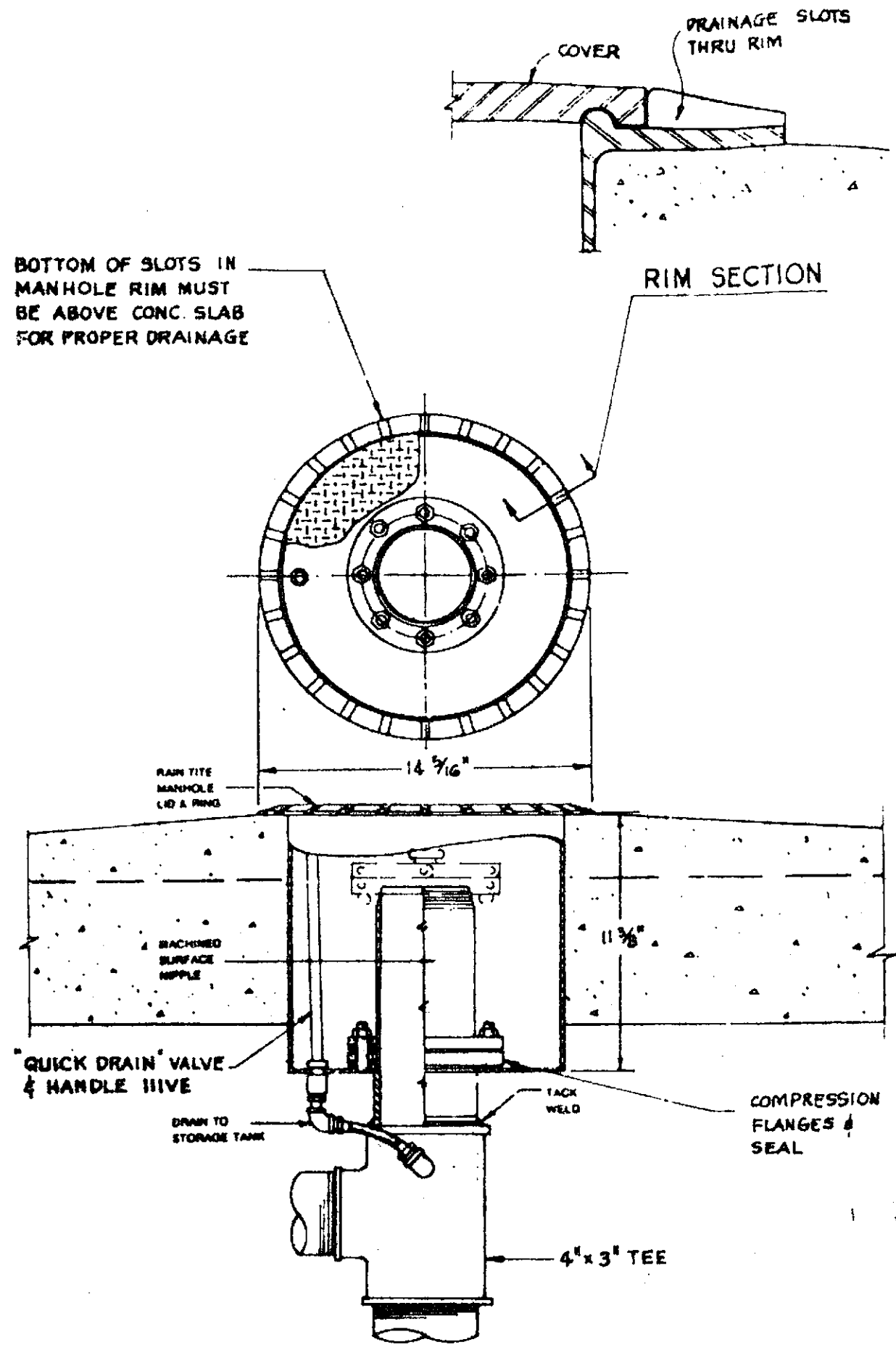
1" = 1'-0"



SPECI
OIL P

SERVICE
FLOOR

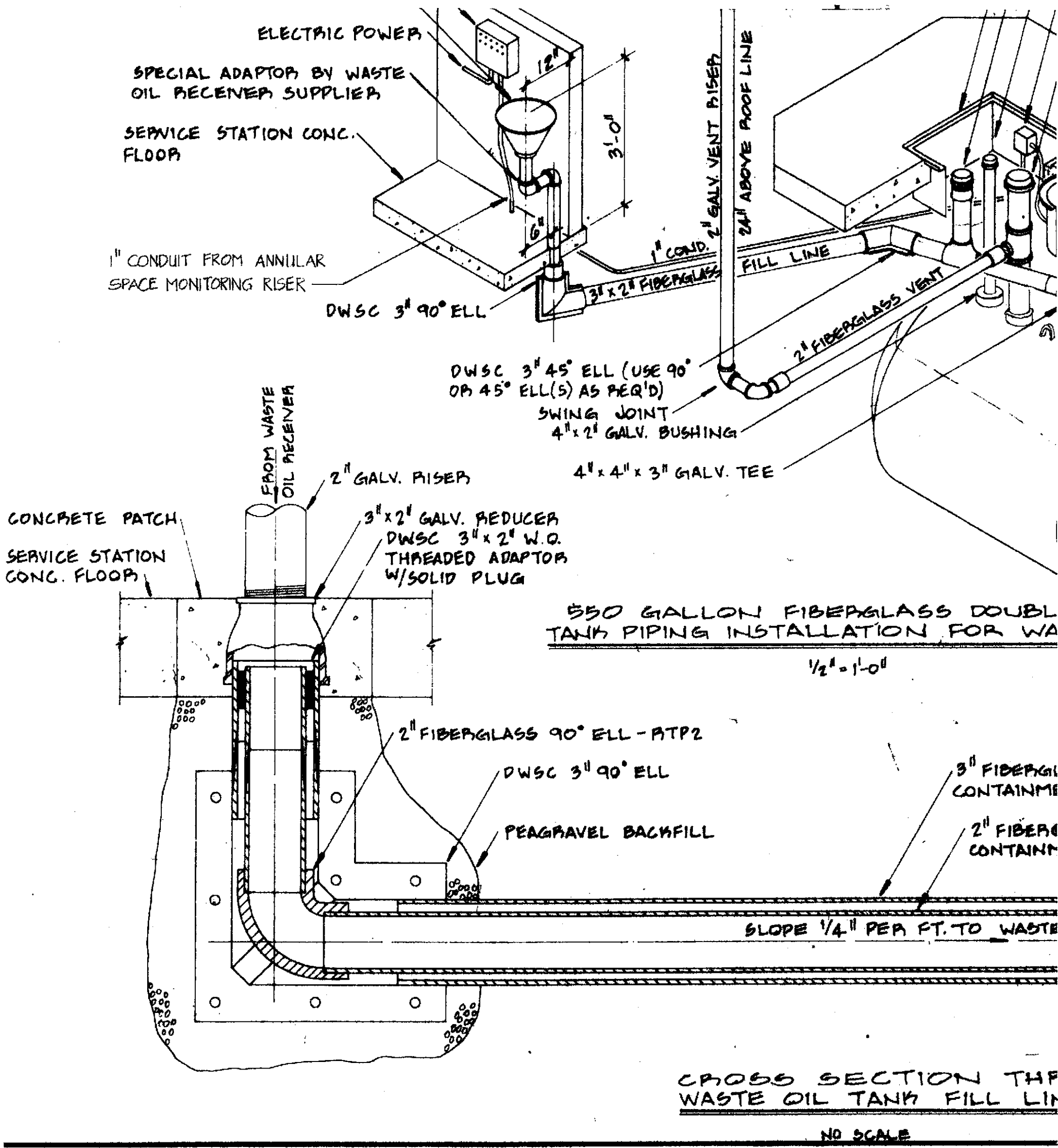
1" CONDUIT
SPACE MC



CONCRETE PATCH
SERVICE STATION
CONC. FLOOR

CNI SPILL PROTECTION
MANHOLE (OR EQUAL)

NO SCALE



550 GALLON FIBERGLASS DOUBLE TANK PIPING INSTALLATION FOR WA

1/2" = 1'-0"

CROSS SECTION THE WASTE OIL TANK FILL LINE

NO SCALE

HINDS' GUP 214 OR 215 WITH O-RING GASKETED COVER
 INSTALL EYS CONDUIT SEAL UNDER

4" VENT RISER WITH 4" x 4" x 3" x 3" EXTRACTOR ASSY. W/FLOAT
 VENT VALVE & PIPE CAP.
 4" PUMP OUT RISER, ADAPTOR & CAP. (THREADED
 TYPE) CENTERED IN A CNI FILL BOX.

4" ANNULAR SPACE MONITORING PORT.

RESERVOIR

NOTE:
 VENT & FILL LINES
 TO SLOPE UNIFORMLY
 TOWARD TANK - MIN.
 1/4" PER FT.

3'-0"

DOUBLE WALL
 OR WASTE OIL

1" FIBERGLASS SECONDARY
 CONTAINMENT LINE - RTP2

2" FIBERGLASS PRIMARY
 CONTAINMENT FILL LINE - RTP2

TO WASTE OIL TANK

THRU
 FILL LINE

DWSC 3" x 2" W.O. THREADED
 ADAPTOR W/SOLID PLUG

26 1/4"

3" GALV. PIPE CAP

3" FIBERGLASS SOCKET
 x MPT ADAPTOR - RTP2

3" FIBERGLASS RISER
 RTP-2

3" FIBERGLASS TEE
 RTP2

PUMP OUT

4" GALV
 OUT RI

4' x 3"
 TEE

TO WASTE OIL TANK

JAY & ASSOCIATES
 900 ORANGE FAIR LANE, ANAHEIM,
 TEL. (714) 870-1233 - 1234

TYPICAL MANHOLE & PIPE

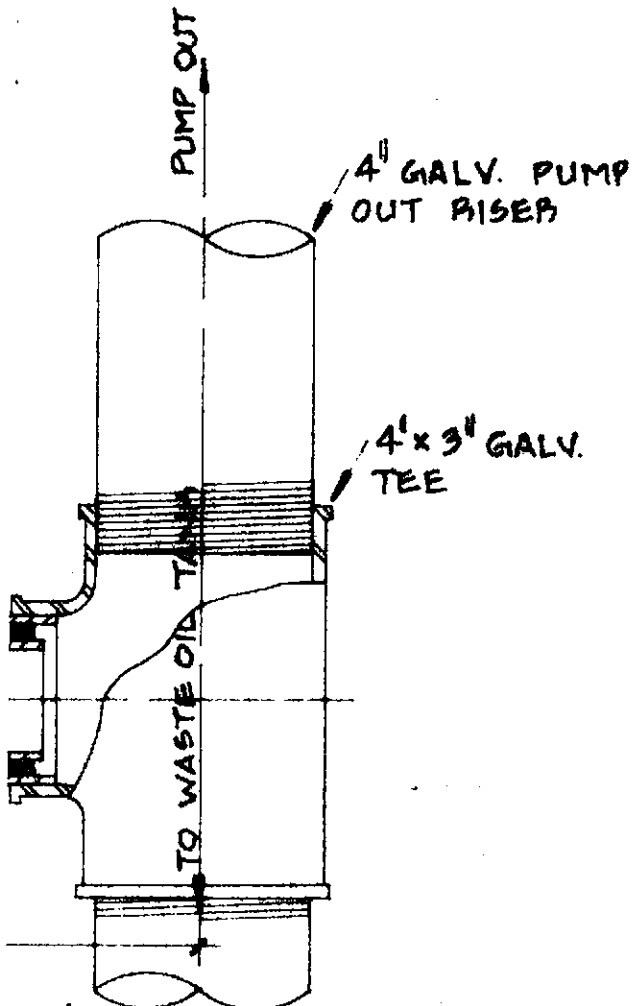
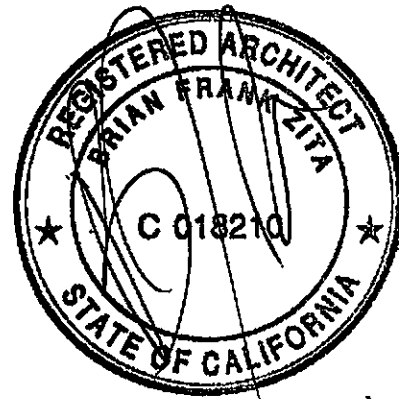
1/2" = 1'-0"

9'-0" (M)

9'-0" (MIN.)

AL MANHOLE + PIPING ORIENTATION

1/2" = 1'-0"



MARK	DATE	REVISION	BY	APPROVED

	SHELL OIL COMPANY HOUSTON, TEXAS
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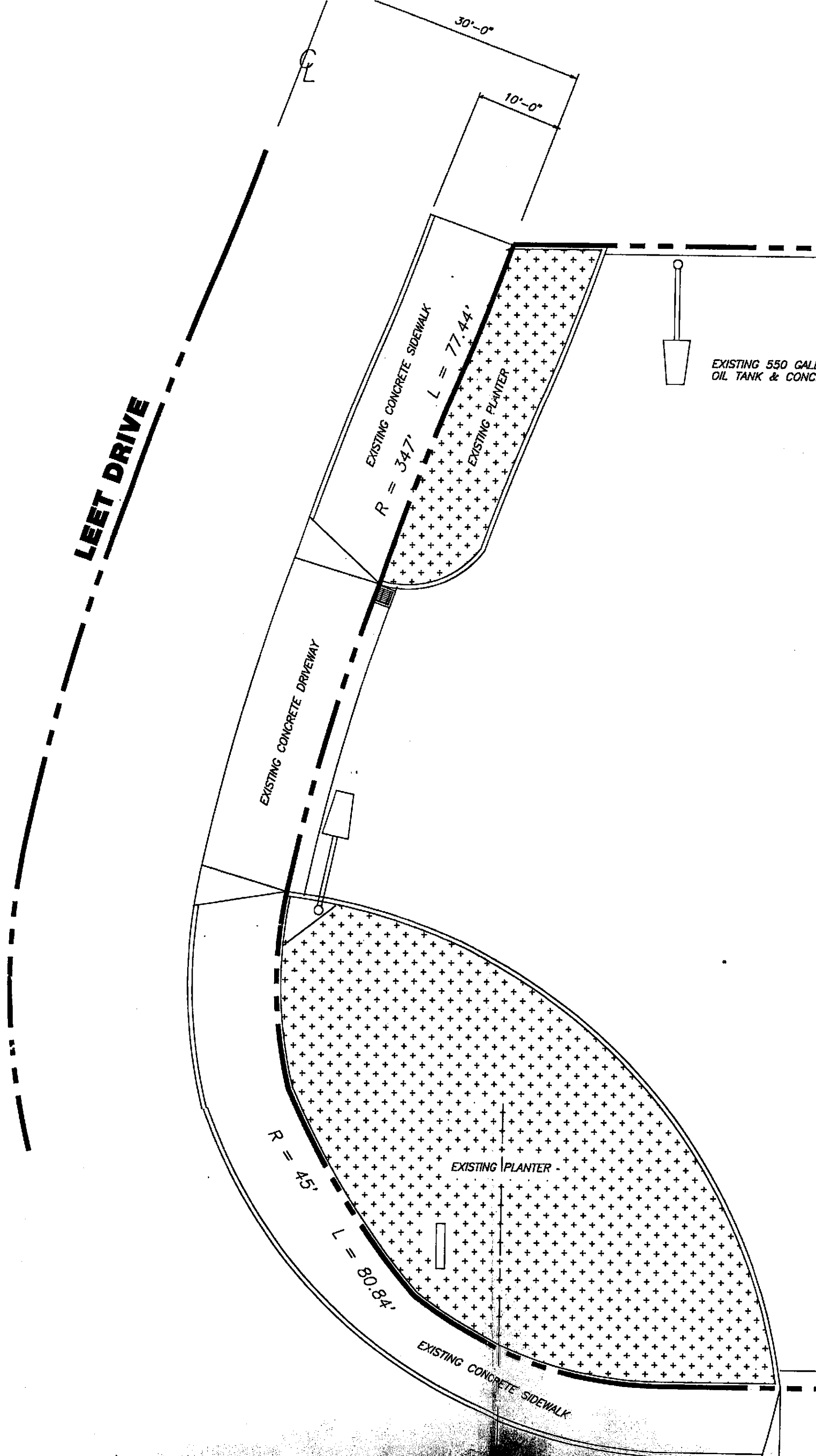
FIBERGLASS U/G TANKS
WASTE OIL DETAILS

SCALE NOTED	CHKD./AP'VD
DATE 1-15-86	APPROVED
OWN. BY W. DUREE	6571 D-1
CHKD. BY JOAN KOPPAL	

JAY & ASSOCIATES INC.
900 ORANGEFAIR LANE, ANAHEIM, CALIFORNIA 92801
TEL. (714) 870-1292 - (313) 880-8995

AR

KERN, TULARE, FRESNO CO.



LEET DRIVE

EXISTING CONCRETE DRIVEWAY

EXISTING CONCRETE SIDEWALK

$L = 77.44'$

$R = 347'$

EXISTING PLANTER

EXISTING 550 GALLON OIL TANK & CONCRETE

$R = 4.5'$

$L = 80.84'$

EXISTING PLANTER

EXISTING CONCRETE SIDEWALK

N 19° 54' 54" E PL. 218.28'

EXISTING 550 GALLON WASTE OIL TANK & CONCRETE PAD

EXISTING 8' x 40' METAL CONTAINER

EXISTING TANK VENTS

EXISTING 3-BAY RANCH STYLE LUBE BLDG.

NEW LOCATION OF EXISTING MULTI-GRADE DISPENSER

NEW LOCATION OF EXISTING PLANTER & GUARD POSTS (TYPICAL 2 PLACES)

NEW 4' x 15' ISLAND TO MATCH EXISTING OUTSIDE ISLAND

EXTEND CONCRETE DRIVE SLAB TO LINE-UP w/ EXISTING

EXISTING PLANTER & (2) GUARD POSTS TO REMAIN (TYP. 2 PLACES)

EXISTING ISLAND, DISPENSER & CANOPY COL. TO REMAIN

SAWCUT & DRIVE SLAB

TRENCH AS INSTALLED NEW & EXISTING

NEW 4' x 12' ISLAND & MULTI-GRADE DISPENSER

NEW PATCH DRIVE SLAB AS REQ'D.

NEW DRIVE SLAB

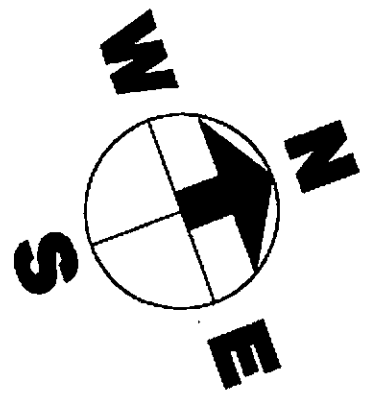
19'-0"
4'-0"
27'-0"
4'-0"
20'-3"
11'-3"

6'-0" 9'-0" 6'-0"
15'-0" 9'-0" 12'-0"

EXISTING CONCRETE DRIVEWAY

S 19° 54' 54" W PL. 200.00'
EXISTING CONCRETE SIDEWALK

EXISTING PLANTER



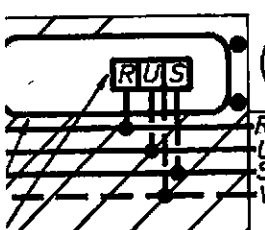
18.28'

ANK VENTS

SAWCUT & PATCH EXISTING CONCRETE DRIVE SLAB AS REQ'D. FOR PIPING

TRENCH AS REQ'D FOR NEW PIPING
INSTALL DOWELLED JOINT BETWEEN
NEW & EXISTING CONCRETE

EXISTING (3) 10,000 GALLON FIBERGLASS U.G. TANKS w/ 8" REINFORCED CONCRETE SLAB



NEW DRIVE SLAB

GENERAL CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPING & HOOK-UP NEW PIPING @ DISPENSERS TO EXISTING PIPING

EXISTING ISLAND & DISPENSER TO REMAIN

EXISTING CONCRETE DRIVE SLAB TO REMAIN

6'-0"
12'-0"

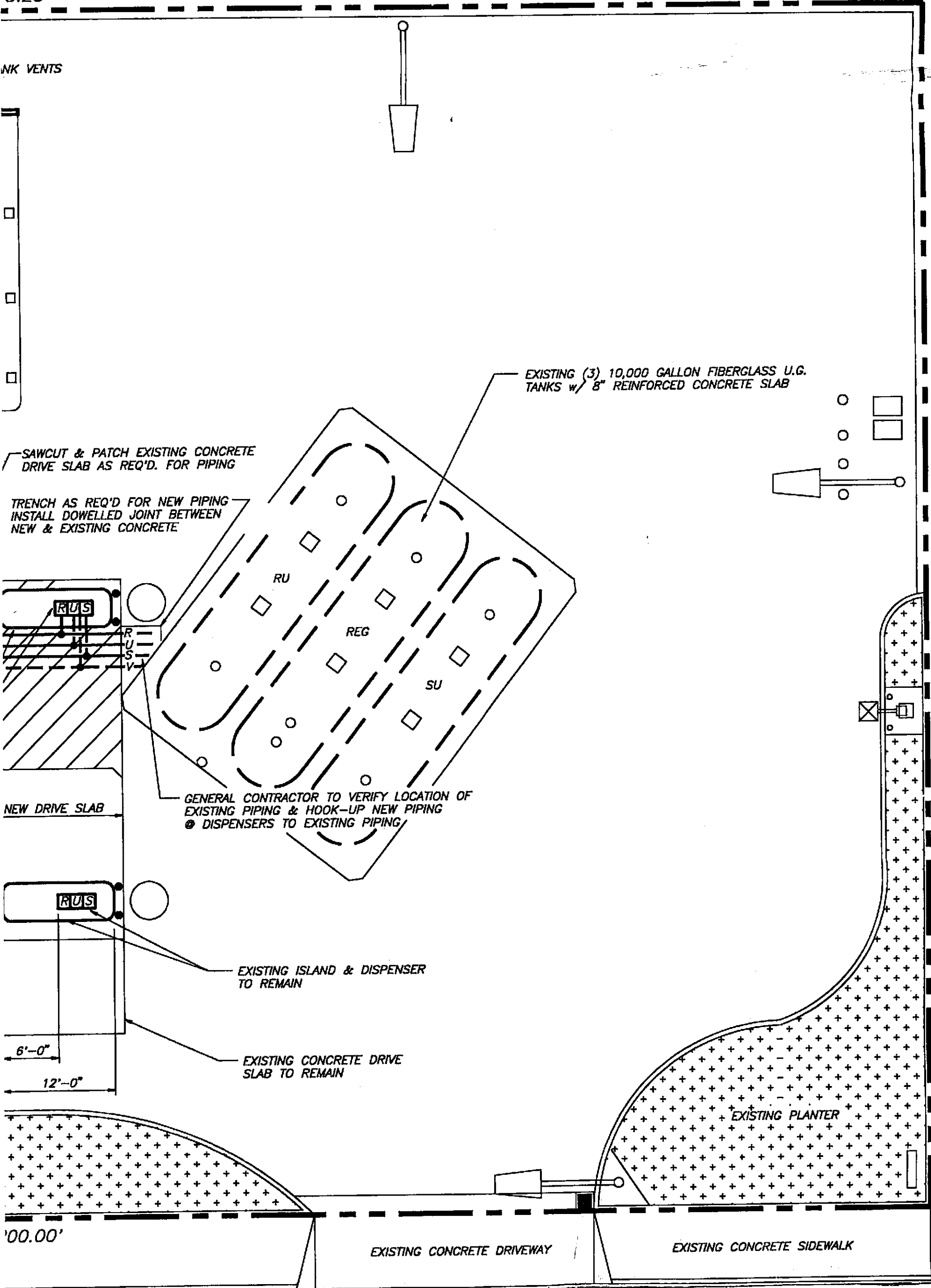
EXISTING PLANTER

'00.00'

EXISTING CONCRETE DRIVEWAY

EXISTING CONCRETE SIDEWALK

S 70° 05' 06" E PL. 128.00'



UNDERGROUND PIPING NOTES

1. ALL WORK, INCLUDING PLUMBING AND ELECTRICAL, SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL ADOPTED BUILDING CODES AND SUPPLEMENTARY ORDINANCES. ALL AS DIRECTED BY COMPANY REPRESENTATIVE.
2. CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. NOTIFY COMPANY REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND INFORMATION SHOWN ON DRAWINGS, PRIOR TO COMMENCING WORK.
3. SHELL SERVICE STATION SPECIFICATIONS ARE TO BE FOLLOWED FOR ALL WORK PERFORMED AT THIS SITE.
4. ALL BACKFILL OF UTILITY TRENCHES IS TO BE CLEAN WASHED SAND.
5. ALL EXISTING UNDERGROUND PIPING & PLUMBING LINES TO BE FIELD VERIFIED FOR EXACT DEPTH & LOCATION PRIOR TO TRENCHING.

LEGEND

- NEW UNDERGROUND FIBERGLASS PRODUCT LINES
2" DIA. FIBERGLASS PRODUCT LINE.
(SLOPE 1/4" PER 12" MIN. UPWARD FROM TANK)
- - - - - NEW UNDERGROUND FIBERGLASS VENT/VAPOR LINES
2" OR 3" DIA. FIBERGLASS VAPOR RETURN LINE.
(SLOPE 1/4" PER 12" MIN. UPWARD FROM TANK)
- R REGULAR
- U UNLEADED
- S SUPER UNLEADED

MARK	
1	
2	
3	
4	
5	
6	



60'-0"

GL

ER ROAD

NOTE! ALL EXISTING ITEMS ARE TO REMAIN
UNLESS NOTED OTHERWISE.

REVISIONS	DATE	BY

APPROVALS		 SHELL OIL COMPANY HOUSTON, TEXAS	
AREA ENGINEERING MANAGER _____	DATE _____		
DISTRICT MANAGER _____	DATE _____		
AREA DISTRIBUTION MANAGER _____	DATE _____		
TERRITORY MANAGER _____	DATE _____	PIPING PLAN HEGENBERGER ROAD & LEET DRIVE OAKLAND, CALIFORNIA	
 PLANS PREPARED BY: A & S ENGINEERING 49 QUAIL COURT, ST. #303, WALNUT CREEK, CA. PHONE: 415-933-0578 FAX: 415-933-0588			SCALE: 1" = 10'-0"
			DATE: SEPTEMBER 1991
		DWN. BY: VP	
		DRWG. NO. PP-1	
		SHEET 2 OF 2	

LEET DRIVE



EXISTING 550 GALLON WASTE OIL TANK & CONCRETE PAD

EXISTING CONCRETE SIDEWALK

$L = 77.44'$

$R = 34.7'$

EXISTING CATCH BASIN (TYP.)

EXISTING CONCRETE SWALE (TYP.)

EXISTING AREA LIGHT (TYPICAL OF 5)

EXISTING CONCRETE DRIVEWAY

EXISTING PLANTER

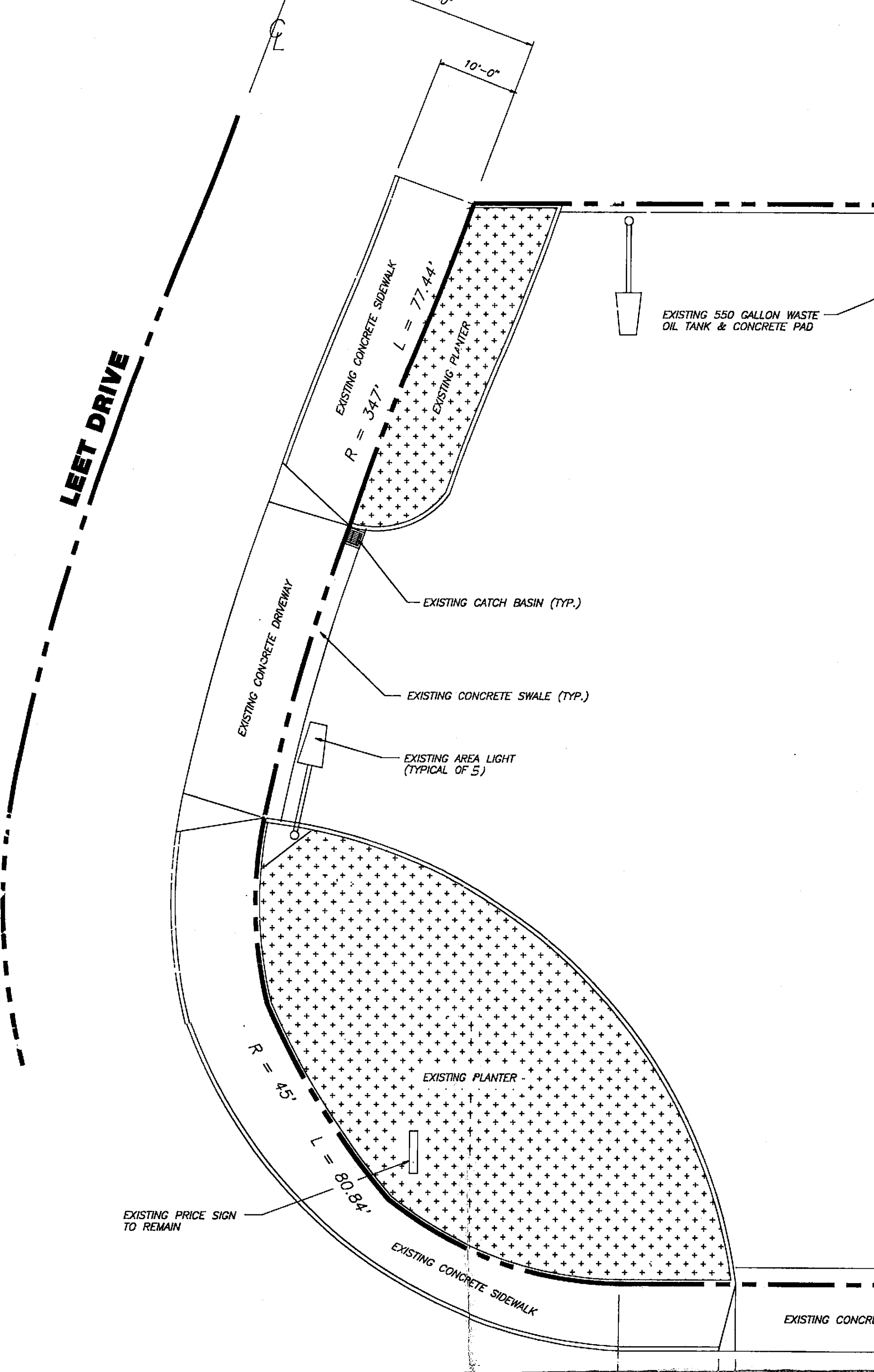
$R = 45'$

$L = 80.84'$

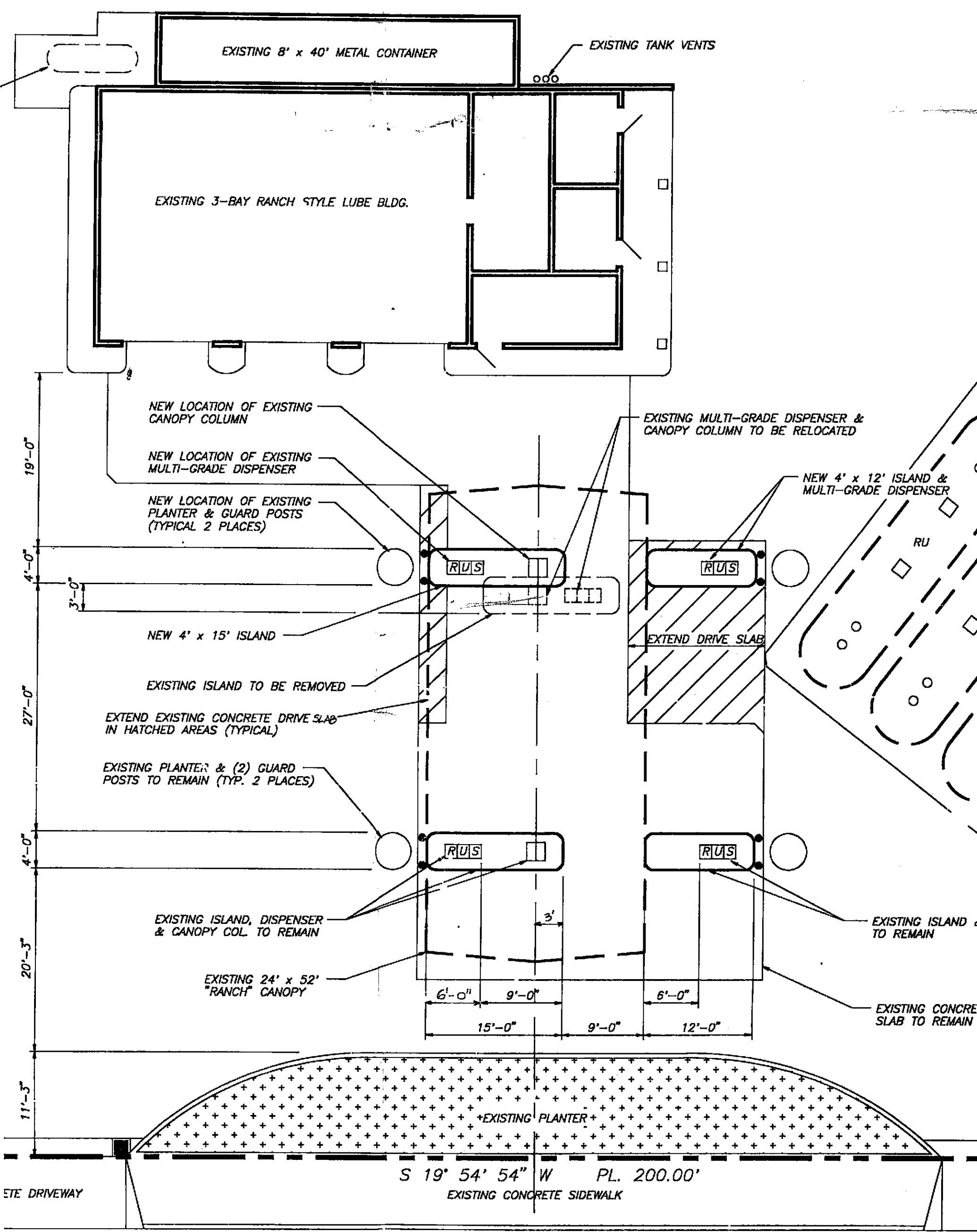
EXISTING PRICE SIGN TO REMAIN

EXISTING CONCRETE SIDEWALK

EXISTING CONCRETE



N 19° 54' 54" E PL. 218.28'



S 19° 54' 54" W PL. 200.00'

EXISTING CONCRETE RETAINING WALL
w/ 3' HIGH REDWOOD FENCE

EXISTING (3) 10,000 GALLON FIBERGLASS U.G.
TANKS w/ 8" REINFORCED CONCRETE SLAB

EXISTING TELEPHONE BOOTHS

EXISTING GUARD POST
(TYPICAL OF 4)

PL. 128.00'

EXISTING AIR/WATER TOWER
w/ LIGHT & GUARD POSTS

S 70° 05' 06" E

65'-0"

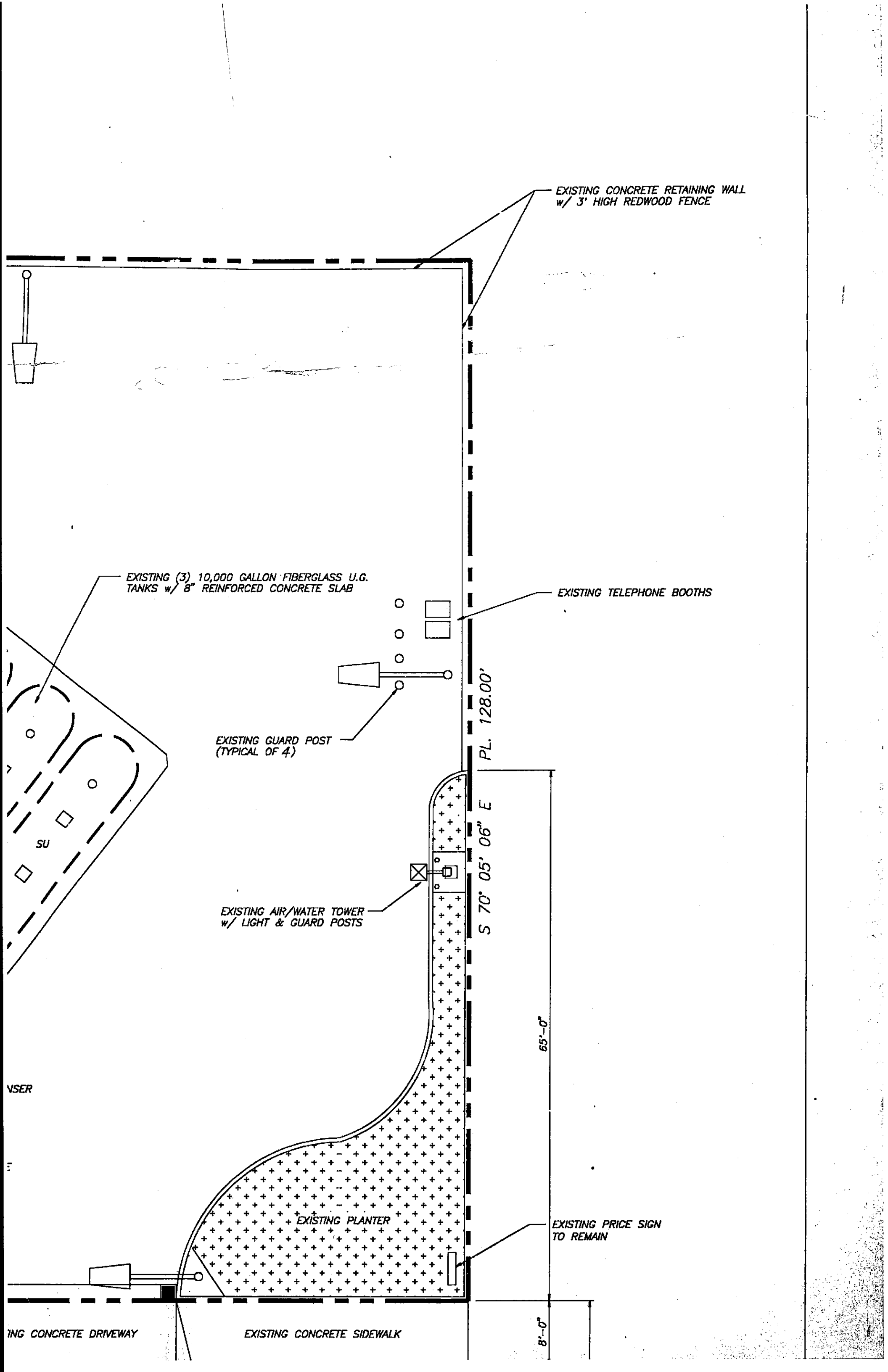
EXISTING PLANTER

EXISTING PRICE SIGN
TO REMAIN

ING CONCRETE DRIVEWAY

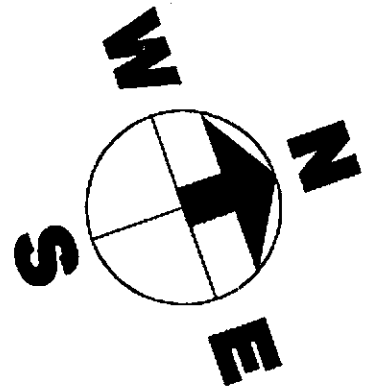
EXISTING CONCRETE SIDEWALK

8'-0"





----- **HEGENBERGER** -----



MARK	
①	
②	
③	
④	
⑤	
⑥	

43'-0"

2'

30'-0"

2'

34'-0"

60'-0"

DAD

NOTE! ALL EXISTING ITEMS ARE TO REMAIN
UNLESS NOTED OTHERWISE.

REVISIONS	DATE	BY

APPROVALS	
AREA ENGINEERING MANAGER	DATE
DISTRICT MANAGER	DATE
AREA DISTRIBUTION MANAGER	DATE
TERRITORY MANAGER	DATE



SHELL OIL COMPANY
HOUSTON, TEXAS

PLOT PLAN
HEGENBERGER ROAD & LEET DRIVE
OAKLAND, CALIFORNIA



PLANS PREPARED BY:
A & S ENGINEERING
49 QUAIL COURT, ST. #303, WALNUT CREEK, CA.

SCALE: 1" = 10'-0"
DATE: SEPTEMBER 1991

DRWG. NO. P-1

PERMIT SHEET

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be available to all contractors and craftsmen involved in the construction and installation.

Any change or alterations of these plans must be submitted to this Department for approval. Building Inspection Department to do the same. Changes must be submitted to this Department at least 48 hours prior to the following required inspections:

Pressure Test
 Pre-Covering of Tank and Piping
 Final Inspection

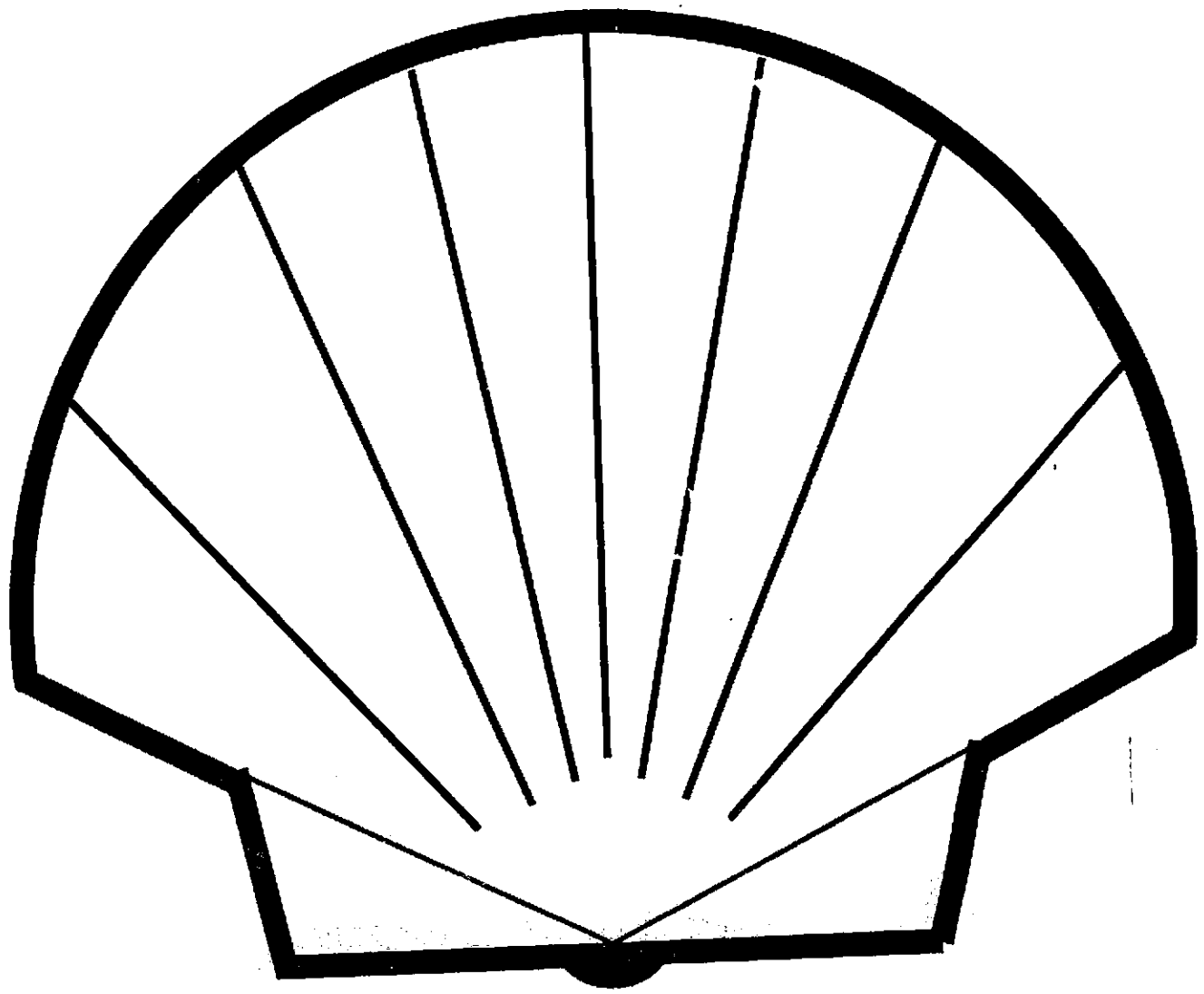
Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS

11/13/91

OK Belva

OIL CO



DRAWING INDEX

SHT. #	DRWG. #	DRAWING DESCRIPTION
1	T-1	COVER SHEET
2	P-1	PLOT PLAN
3	PP-1	PIPING PLAN
4	PP-2	DISPENSER INSTALLATION DETAILS
5	S-5	CANOPY FOUNDATION - STRUCTURAL
6	S-6	CANOPY FRAMING/DETAILS-STRUCTURAL
7		
8		
9		
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11		
12		
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WY

MISC. NOTES

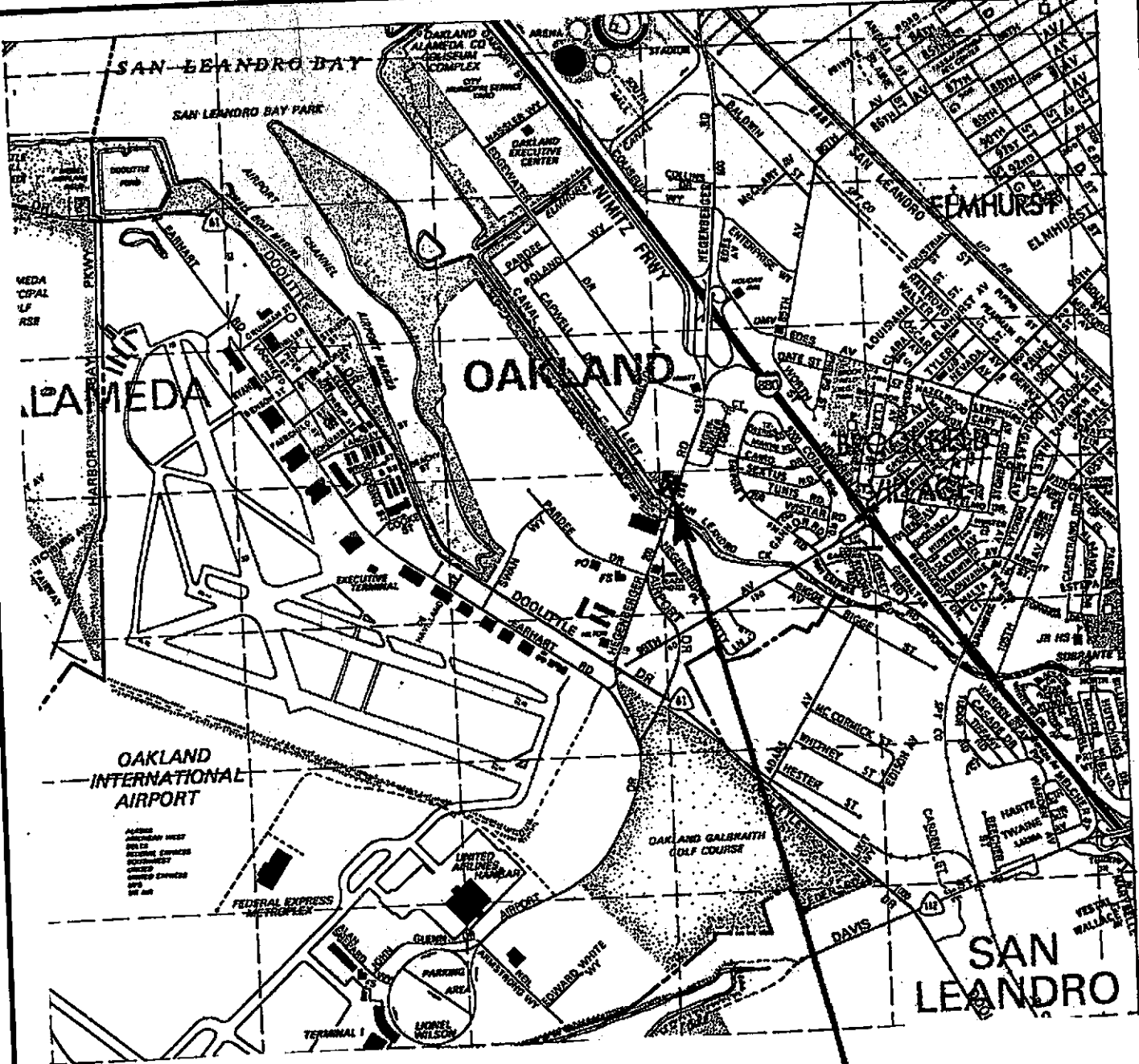
PROJECT CONTACTS

AGENCY	REPRESENTATIVE	PHONE NUMBER
A & S ENGINEERING	Vince Padilla	415-933-0578
SHELL OIL COMPANY	Dan Kirk	415-675-6134
STEEL FABRICATOR:		
GENERAL CONTRACTOR:		
ELECTRIC:		
WATER:	N/A	
TELEPHONE:	N/A	
SEWER:	N/A	
PLANNING DEPARTMENT:		415-273-3911
BUILDING DEPARTMENT:		415-273-3443
PUBLIC WORKS:	N/A	
ENV. HEALTH:		
FIRE DEPARTMENT:		415-930-5500
BAY AREA A.Q.M.D.:		415-771-6000

MARK	REVISIONS	DATE	BY
①			
②			
③			
④			
⑤			

VICINITY MAP

PROJ



PROJECT ADDRESS:

OWNER:

ZONING:

PARCEL #:

OCCUPANCY:

CONSTRUCTION TYPE:

BUILDING AREA:

CANOPY AREA:

LANDSCAPE AREA:

SITE AREA:



PL
A
49
PH

PROJECT DATA

SCOPE OF WORK

HEGENBERGER RD. & LEET DR.
OAKLAND, CALIFORNIA

SHELL OIL COMPANY
1390 WILLOW PASS ROAD
CONCORD, CALIFORNIA 94524

EXISTING INSIDE ISLAND TO BE REMOVED
& REPLACED WITH (2) NEW ISLANDS TO
MATCH OUTSIDE ISLANDS. (1) EXISTING
MULTI-GRADE DISPENSER TO BE RELOCATED
& (1) NEW MULTI-GRADE DISPENSER
TO BE INSTALLED ON NEW ISLANDS.
(1) EXISTING CANOPY COLUMN IS TO BE
MOVED 3'-0" TOWARDS LUBE BLDG.

N/A

N/A

N/A

N/A

N/A

N/A



SHELL OIL COMPANY

HOUSTON, TEXAS

COVER SHEET

PROJECT LOCATION

HEGENBERGER ROAD & LEET DRIVE
OAKLAND, CALIFORNIA

PLANS PREPARED BY:

A & S ENGINEERING

9 QUAIL COURT, ST. #303, WALNUT CREEK, CA.
PHONE: 415-933-0578 FAX: 415-933-0588

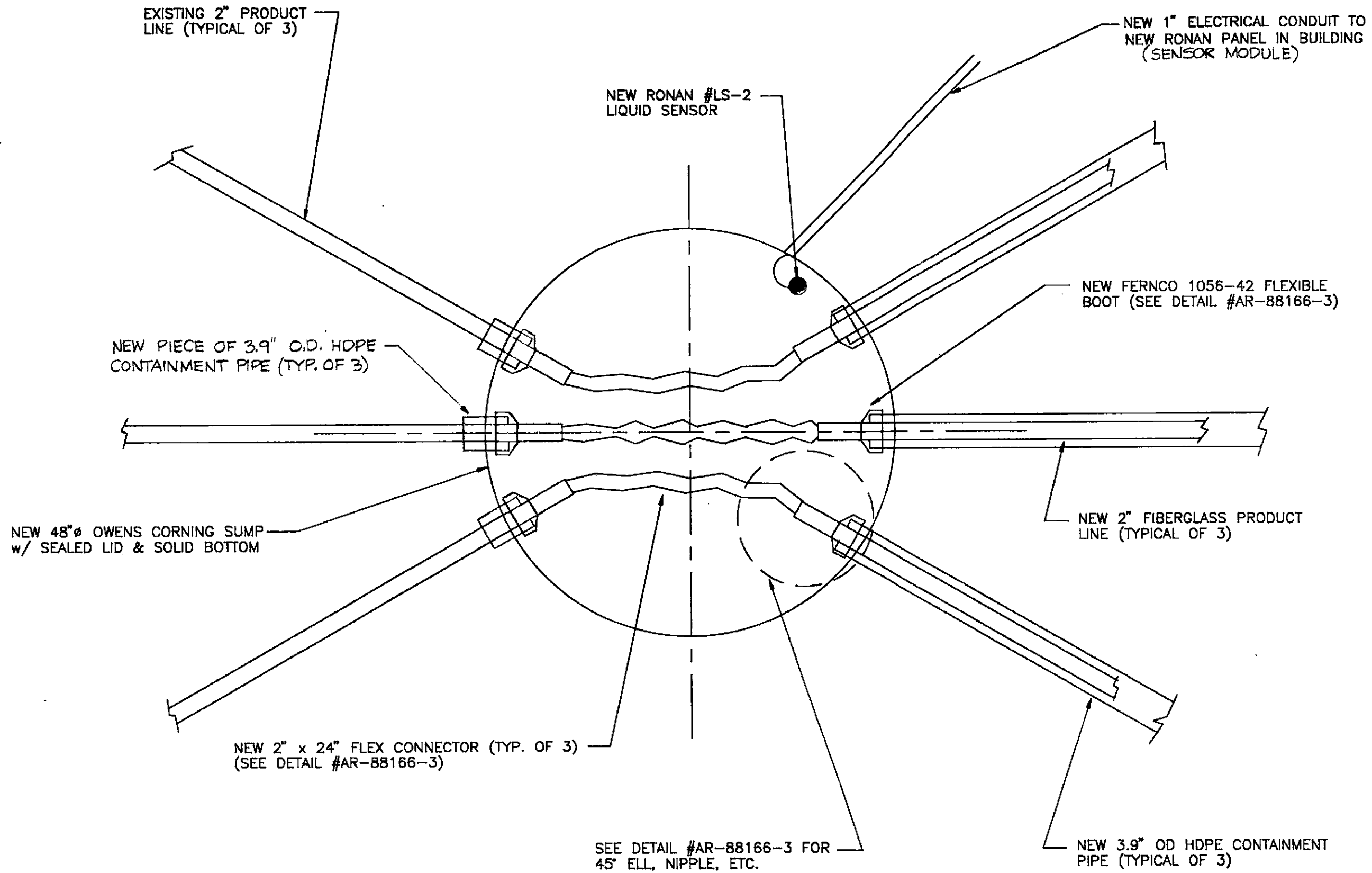
DATE: SEPTEMBER 1991

DRWG. NO. T-1

DWN. BY: VP

SHEET 1 OF

CHKD. BY:



SUMP PLAN VIEW

NEW SEALED PRESSURE TIGHT LID
(SEE DETAIL #AR-88169-1 ALSO)

NEW 36" DIA. ACCESS BOX

CONCRETE DRIVE SLAB
OR ASPHALT PAVING

NEW 1" ELECTRICAL CONDUIT TO
BLDG. FOR LIQUID SENSOR
(PROVIDE UNISEAL @ PENETRATION)

NEW 2" FIBERGLASS PRODUCT
LINE (TYPICAL OF 3)
(SLOPE 1/4" TO SUMP)

2 - LAYERS OF 1" FOAM PADDING w/
DRAINAGE SLOTS IN BOTTOM LAYER
(SEE DETAIL #AR-88169-1 ALSO)

NEW PIECE OF 3.9" O.D. HDPE
CONTAINMENT PIPE (TYP. OF 3)

TO NEW DISPENSERS

NEW 3.9" OD HDPE CONTAINMENT
PIPE (TYPICAL OF 3)

EXISTING 2" FIBERGLASS PRODUCT
LINE FROM TANKS (TYPICAL OF 3)

NEW FERNCO 1056-42 FLEXIBLE
BOOT w/ AIR TEST STEM
SEE DETAIL #AR-88166-3

NEW SEALANT & CAULK
(SEE DETAIL #AR-88166-3)

SEE DETAIL #AR-88166-3 FOR
45° ELL, NIPPLE, ETC.

NEW RONAN #LS-2
LIQUID SENSOR

NEW 48" Ø OWENS CORNING FIBERGLASS
SUMP w/ SEALED LID & SOLID BOTTOM

NEW 2" x 24" FLEX CONNECTOR (TYP. OF 3)
(SEE DETAIL #AR-88166-3)

SUMP DETAIL

NOTE! FOR ANY REFERENCE TO DETAILS NOT SHOWN ON THIS DRAWING, PLEASE SEE DRAWING #SD-2

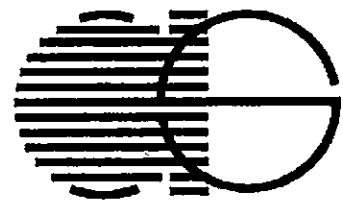
REVISIONS			
NO.	DATE	BY	COMMENTS

APPROVALS	
_____	_____
AREA ENGINEERING MANAGER	DATE
_____	_____
DISTRICT MANAGER	DATE
_____	_____
AREA DISTRIBUTION MANAGER	DATE
_____	_____
TERRITORY MANAGER	DATE

	SHELL OIL COMPANY HOUSTON, TEXAS
---	--

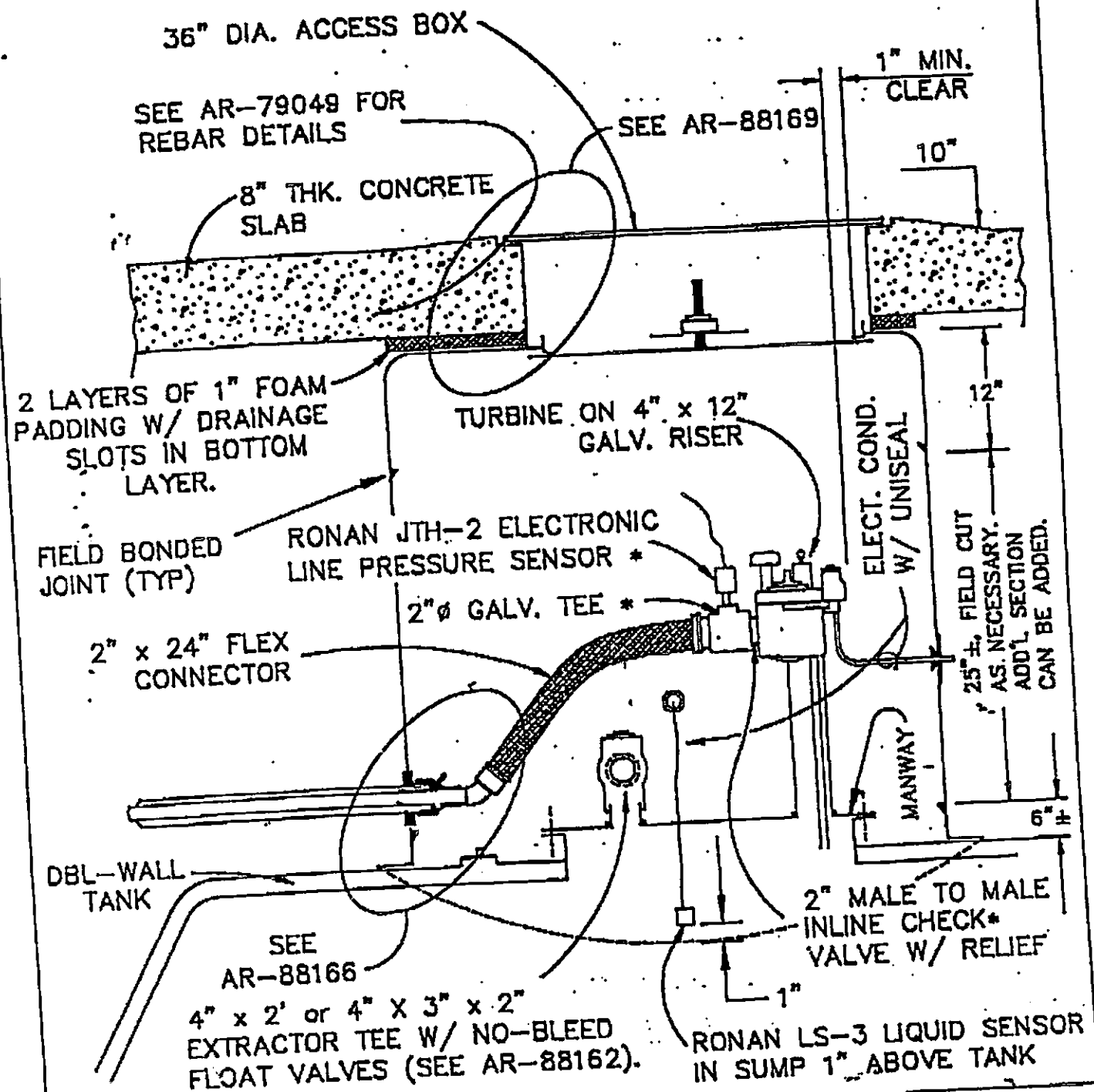
SUMP DETAILS

 285 HEGENBERGER RD. & LEET DRIVE
 OAKLAND, CALIFORNIA

	PLANS PREPARED BY: A & S ENGINEERING
	207 W. ALAMEDA AVE. STE.202, BURBANK, CA. 91502 PHONE: 818-842-3644 FAX: 818-842-3760

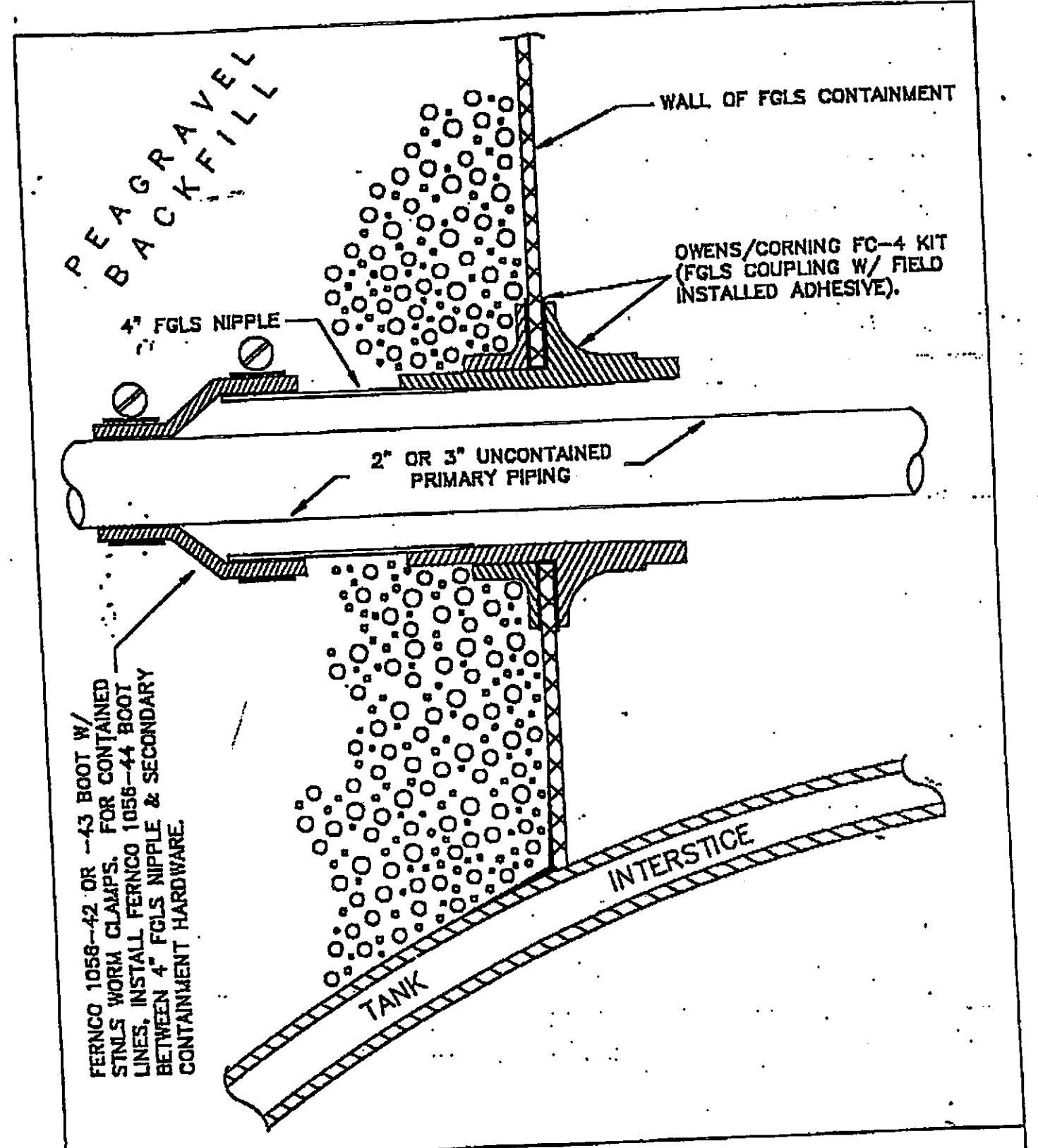
SCALE: 1" = 1'-0"	DRAWING # SD-1
DATE: MAY 1992	WIC #
DWN. BY: VP	SHEET 1 OF 2
CHKD. BY:	

* - OPTIONAL ON CONTAINED PRODUCT PIPING.



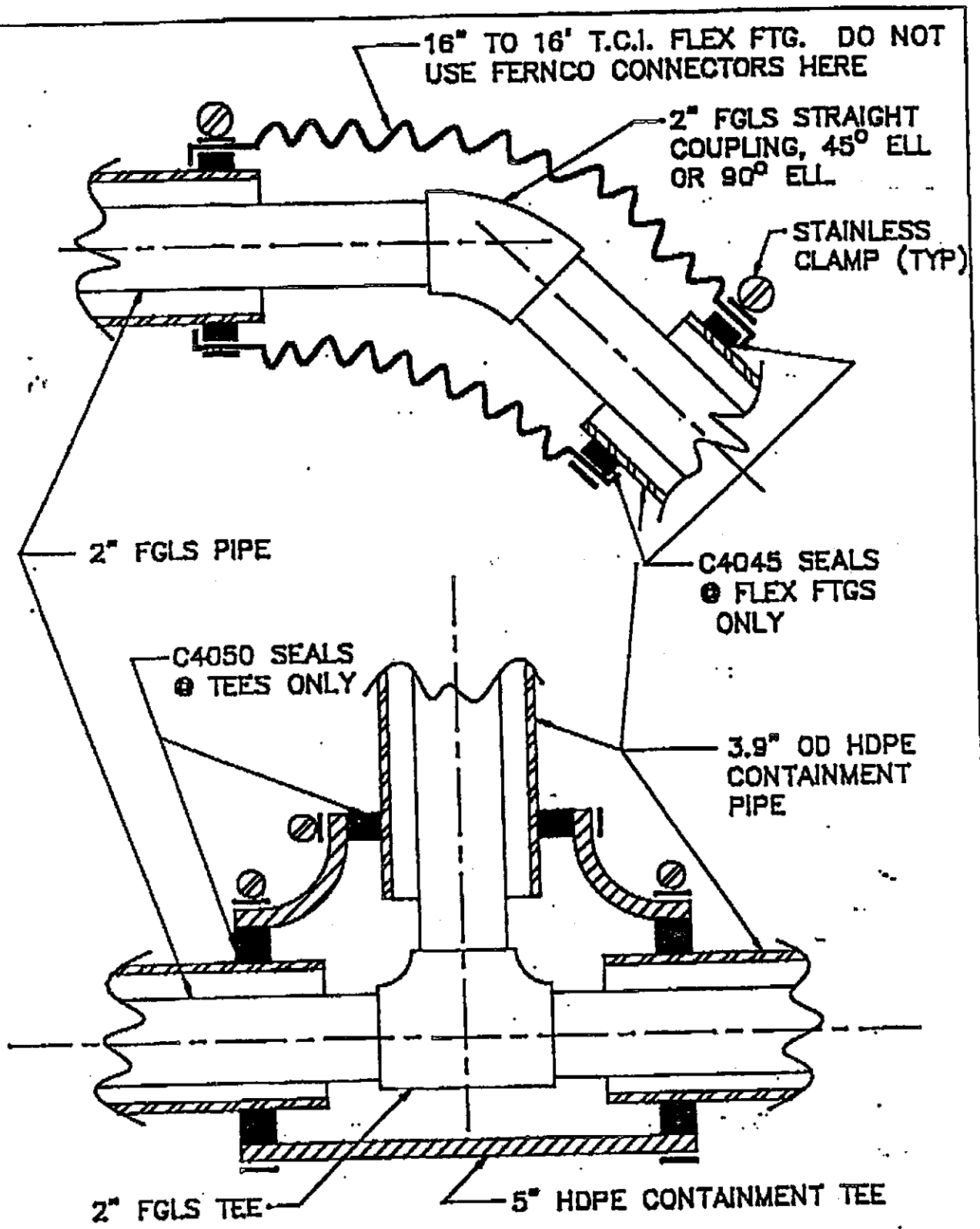
PIPE CONNECTION ARRANGEMENT DOUBLEWALL TANK W/COMBINATION CONTAINMENT/ACCESS SUMP (SIDE VIEW)

SCALE: NONE	ENGINEERING SKETCH PAD <input type="checkbox"/> OIL <input type="checkbox"/> CHEMICAL <input type="checkbox"/> DEVELOPMENT	DWG. NO. AR-88165-4
DATE DRAWN: FEB 88		APPROVED BY: <i>[Signature]</i>
DATE REVISION: DEC 89		





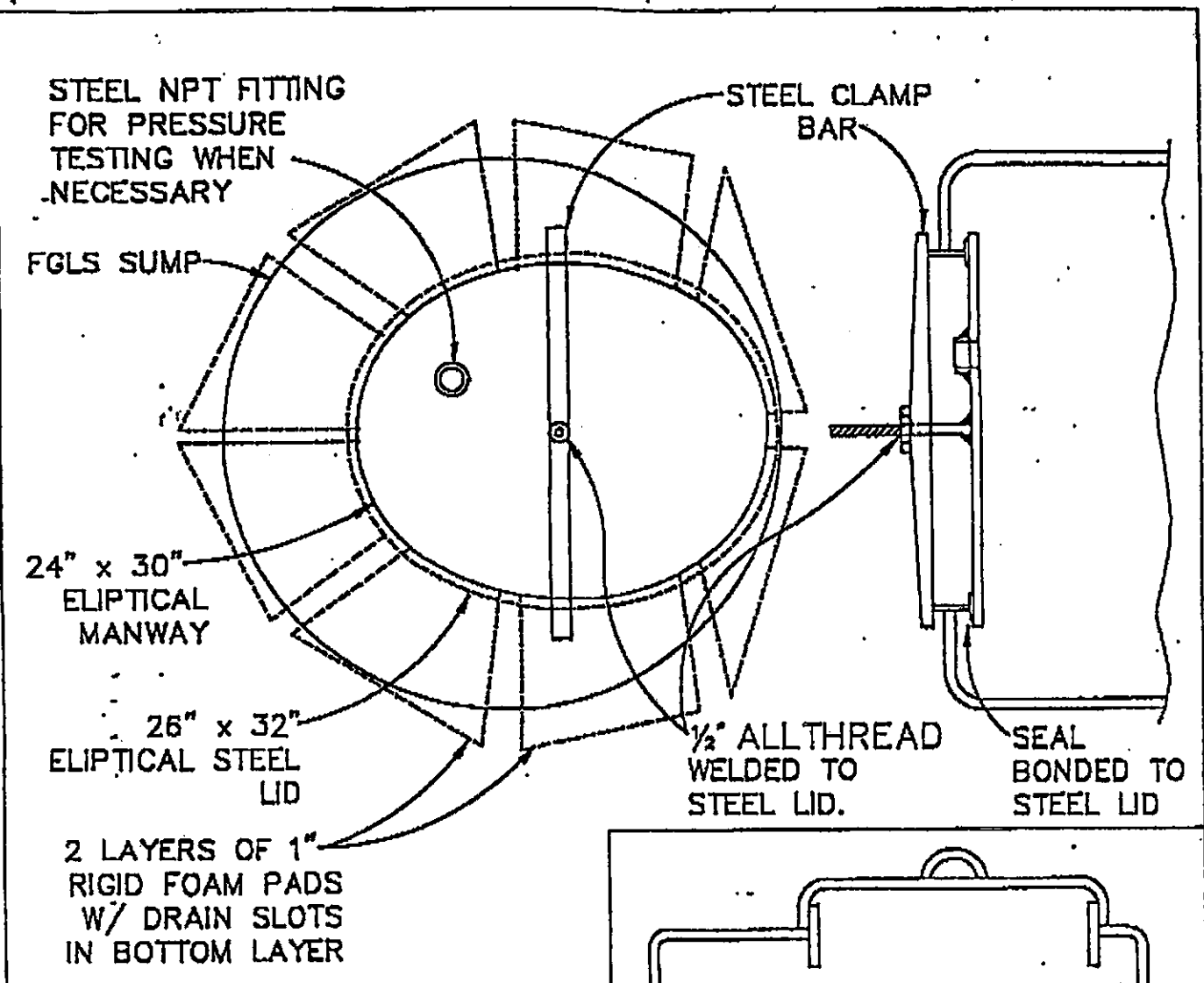
PIPE PENETRATION OF SECONDARY CONTAINMENT ALTERNATE METHOD FOR HIGH GROUNDWATER PROBLEMS

SCALE: NONE	ENGINEERING SKETCH PAD <input checked="" type="checkbox"/> OIL <input type="checkbox"/> CHEMICAL <input type="checkbox"/> DEVELOPMENT	DWG. NO. AR-90035-0
DATE DRAWN: JAN 90		APPROVED BY: <i>[Signature]</i>
DATE REVISION:		



SYSTEM "A" FITTING DETAILS—CONTAINED 2" FGLS PIPING
 (DETAILS SIMILAR FOR SYSTEM "B"—CONTAINED 3" & 4" PIPING)

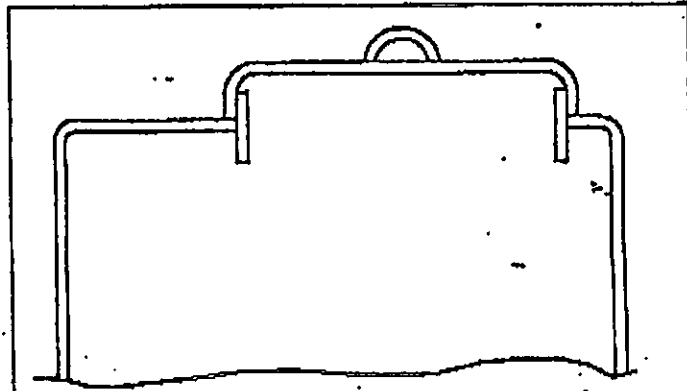
SCALE: NONE	 ENGINEERING SKETCH PAD <input checked="" type="checkbox"/> DEV. <input type="checkbox"/> DESIGN <input type="checkbox"/> DEVELOPMENT	DWG. NO. APPROVED BY 
DATE DRAWN: FEB 88		AR-88170-2
DATE REVISION: JAN 89		



SEALED LID REMOVAL PROCEDURE



LOOSEN NUT AND WASHER ON ALLTHREAD STUD. ROTATE BAR 90° & LOWER ENTIRE ASSEMBLY INTO SUMP. TURN LID EDGEWISE & REMOVE THROUGH ELLIPTICAL OPENING.

OPENING MUST BE LARGE ENOUGH FOR MECHANIC TO ENTER SUMP WITHOUT REMOVING TURBINE.




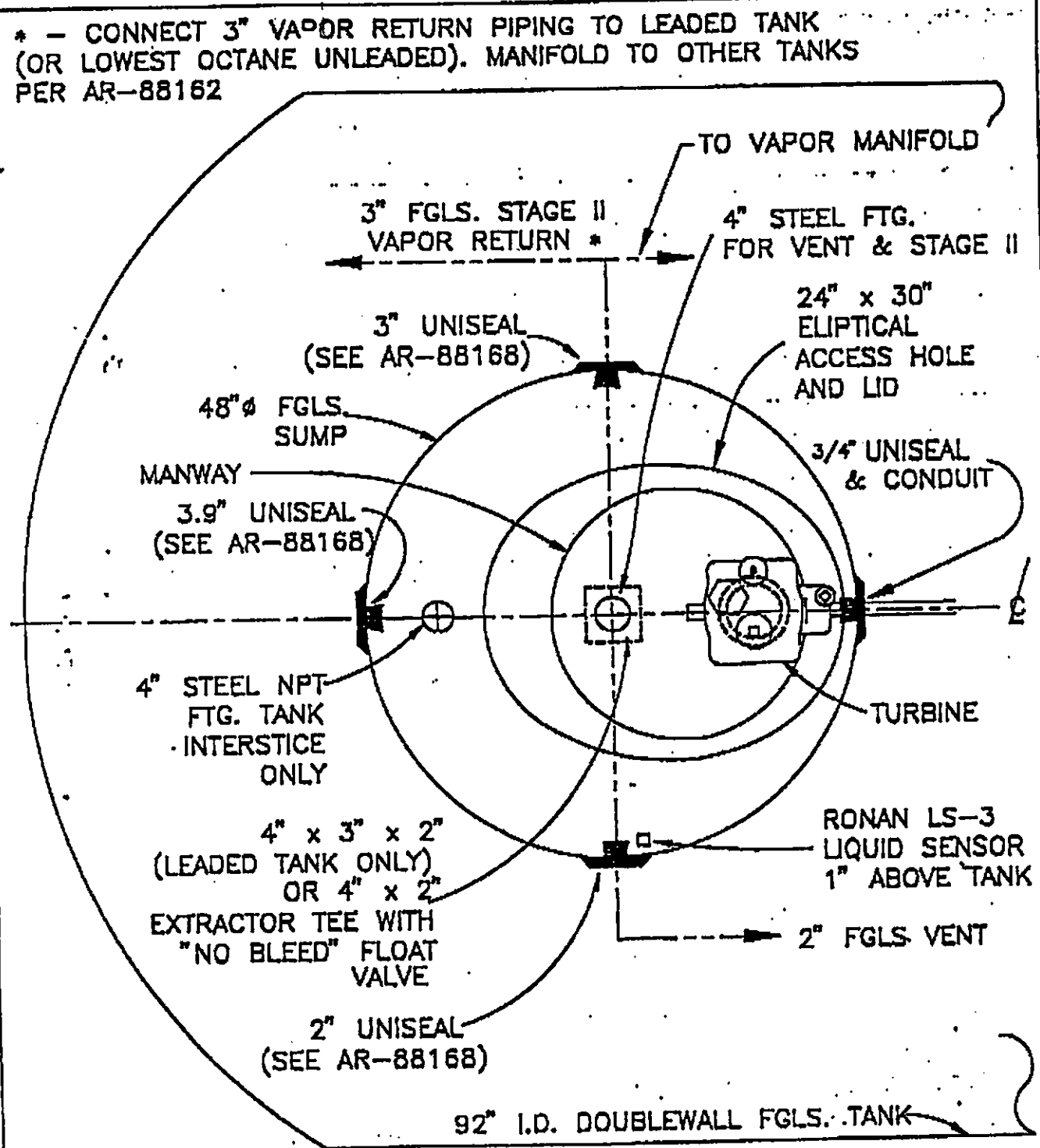
NOTE:
 STANDARD SUMP LID TO BE FRICTION COVER AS SHOWN. RETROFITABLE TO SEALED PRESSURE TIGHT LID IF NECESSARY FOR TEST OR GROUNDWATER.


SUMP LID DETAILS

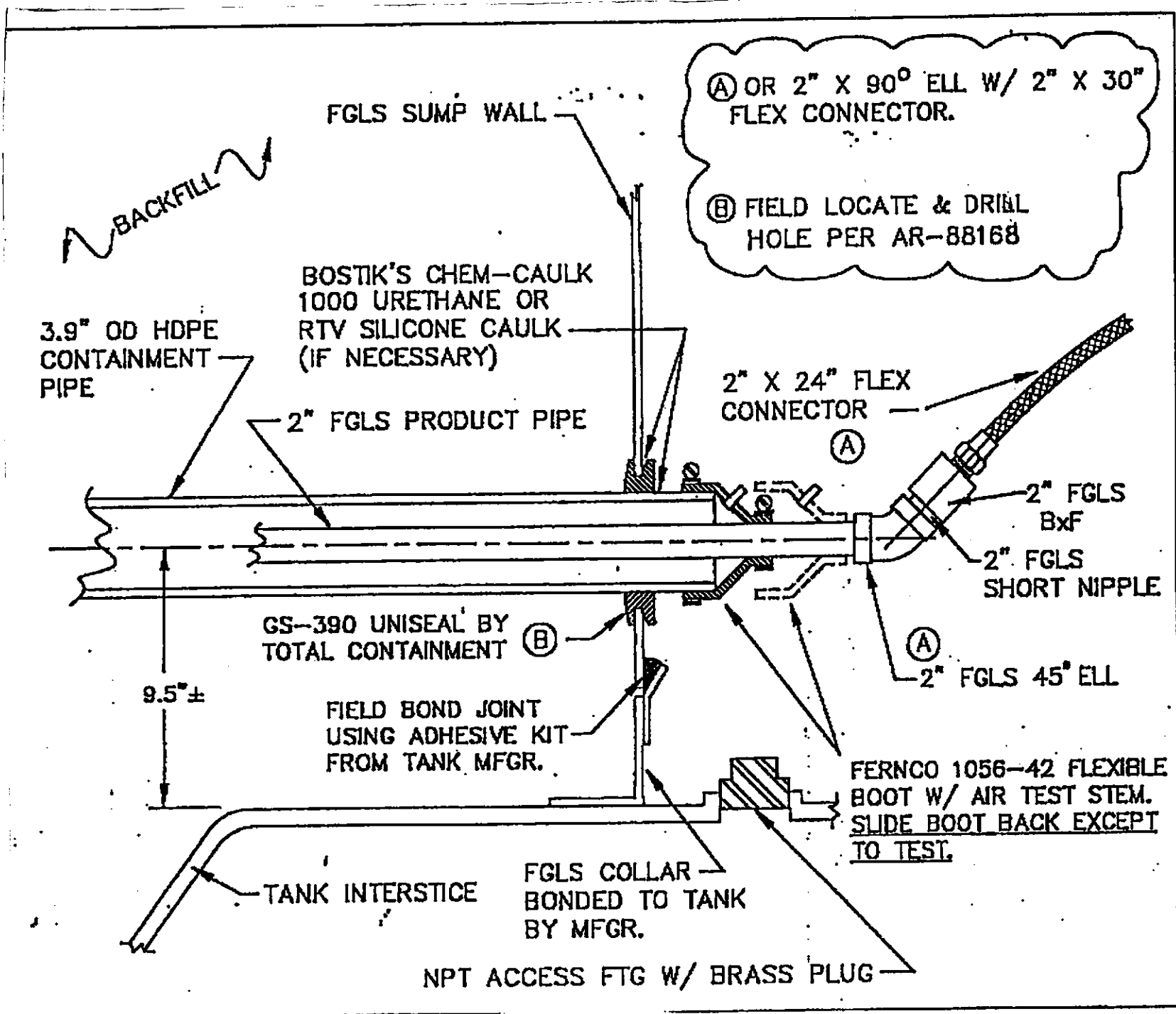
SCALE: NONE	 ENGINEERING SKETCH PAD <input checked="" type="checkbox"/> DEV. <input type="checkbox"/> DESIGN <input type="checkbox"/> DEVELOPMENT	DWG. NO. APPROVED BY 
DATE DRAWN: FEB 88		AR-88169-1
DATE REVISION: JAN 89		

PIPING DETAILS—CONTAINED PRODUCT LINE
AT PENETRATION INTO CONTAINMENT SUMP

SCALE	NONE	 ENGINEERING SKETCH PAD DESIGNED BY _____ CHECKED BY _____ DISAPPROVED BY _____	DWG. NO.	AR-88166-3
DATE DRAWN	FEB 88		APPROVED BY	<i>[Signature]</i>
DATE REVISED	JAN 90			



PIPE CONNECTION ARRANGEMENT—DOUBLEWALL TANK W/ COMBINATION CONTAINMENT/ACCESS SUMP		 ENGINEERING SKETCH PAD DESIGNED BY _____ CHECKED BY _____ DISAPPROVED BY _____	DWG. NO.	AR-88163-3
SCALE	NONE		APPROVED BY	<i>[Signature]</i>
DATE DRAWN	FEB 88			
DATE REVISED	JUN 89			

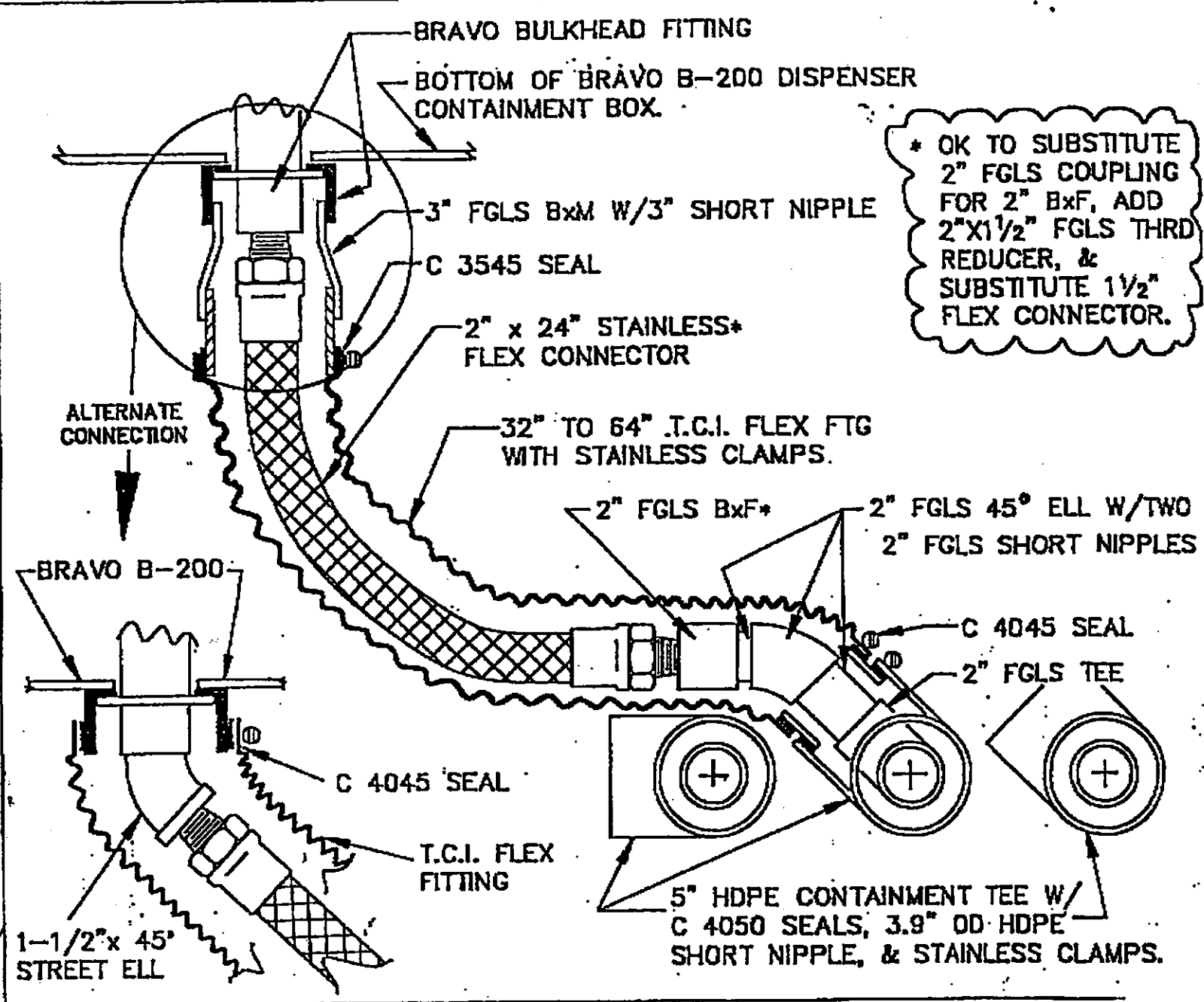


SCALE: NONE
 DATE DRAWN: FEB 88
 DATE REVISED: DEC 89

ENGINEERING SKETCH PAD
 CHEMICAL


DRG. NO. AR-88171-3

FITTING DETAILS-CONTAINED 2" FGLS PIPING AT ISLANDS



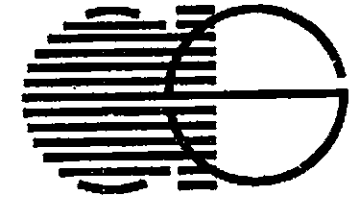
* OK TO SUBSTITUTE 2" FGLS COUPLING FOR 2" BxF, ADD 2" X 1 1/2" FGLS THRD REDUCER, & SUBSTITUTE 1 1/2" FLEX CONNECTOR.

MARK	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			

 **SHELL OIL COMPANY**
 HOUSTON, TEXAS

SUMP & SECONDARY CONTAINMENT DETAILS

285 HEGENBERGER ROAD & LEET DR.
 OAKLAND, CALIFORNIA

 PLANS PREPARED BY:
A & S ENGINEERING
 NORTHERN CALIFORNIA OFFICE - WALNUT CREEK
 PHONE: 415-933-0578 FAX: 415-933-0588

SCALE: NONE	DRWG. NO. SD-2
DATE: APRIL 1991	SHEET 2 OF 2
DWN. BY: VP	
CHKD. BY:	

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any permit required for the permits for construction.

One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the construction and installation.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

- Pressure Test
- Pre-Covering of Tank and Piping
- Final Inspection

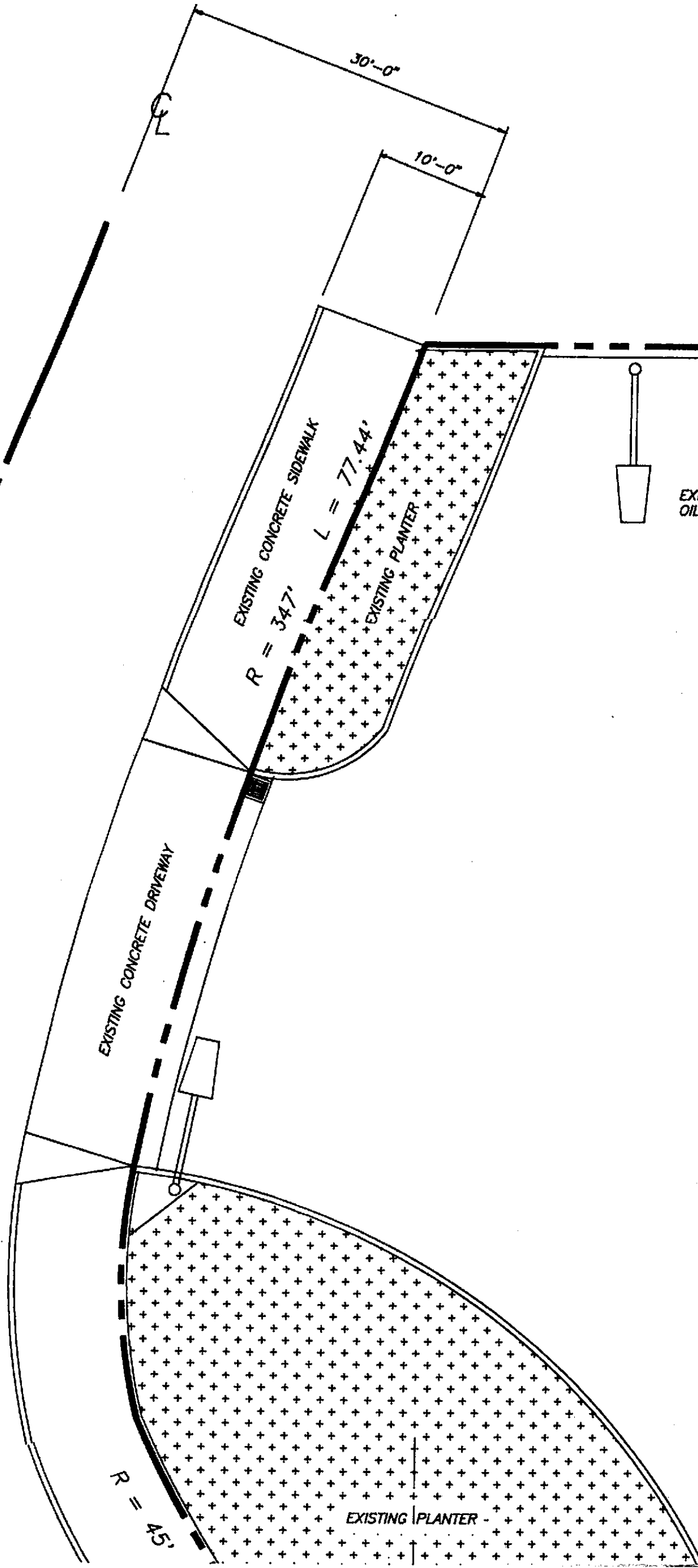
Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NON-COMPLIANCE WITH THESE RULES

OK 5/26/92

Bluman

LEET DRIVE



EXISTING 550 GALLON WASTE OIL TANK & CONCRETE PAD

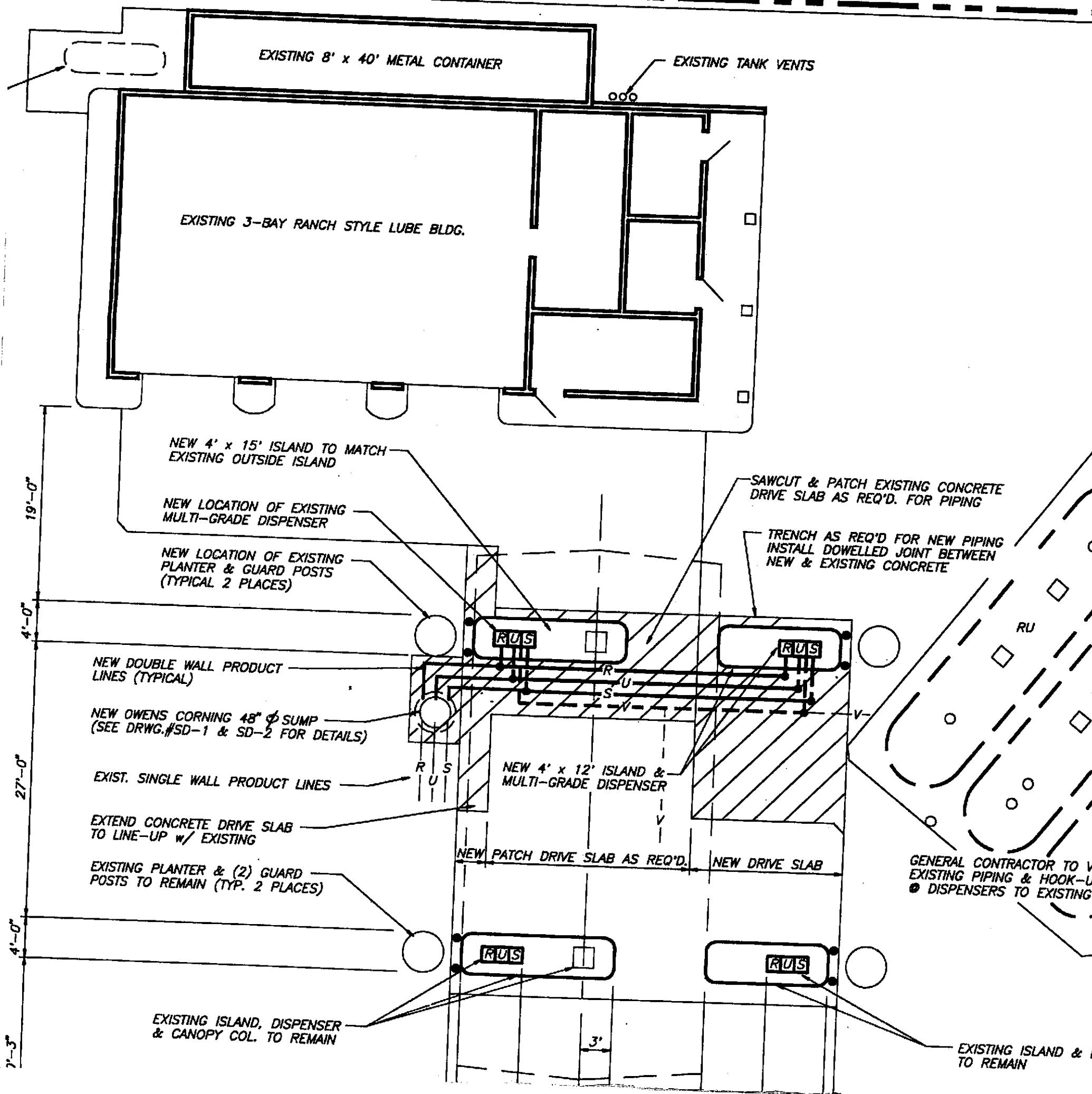
EXISTING CONCRETE DRIVEWAY

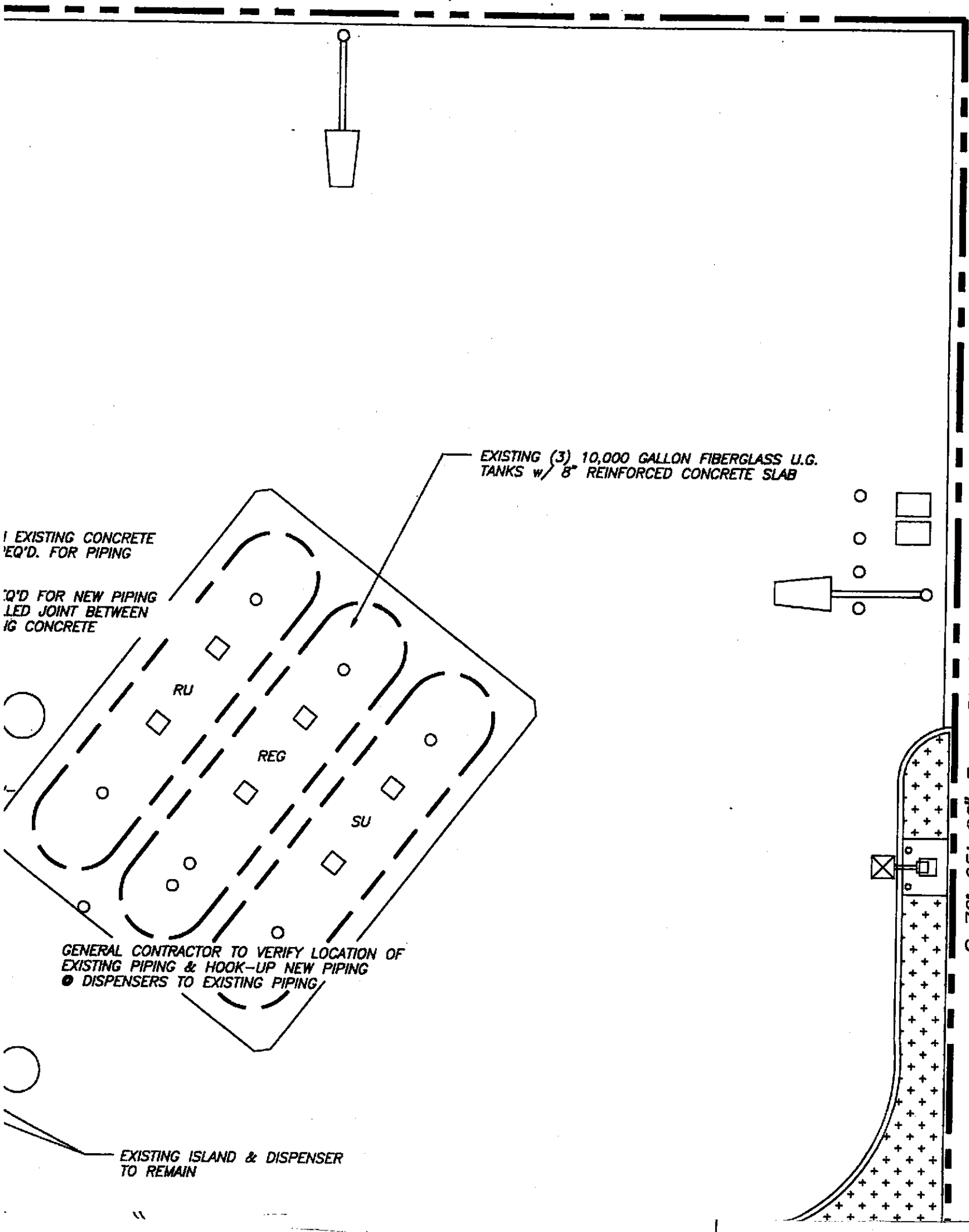
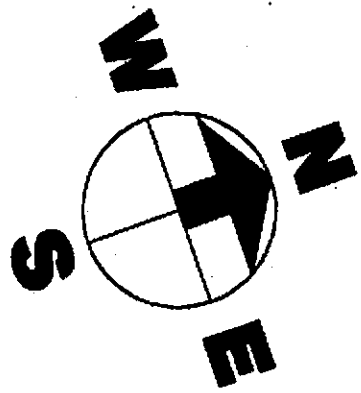
EXISTING CONCRETE SIDEWALK

EXISTING PLANTER



N 19° 54' 54" E PL. 218.28'





EXISTING (3) 10,000 GALLON FIBERGLASS U.G. TANKS w/ 8" REINFORCED CONCRETE SLAB

EXISTING CONCRETE REQ'D. FOR PIPING

REQ'D FOR NEW PIPING LED JOINT BETWEEN 16" CONCRETE

RU

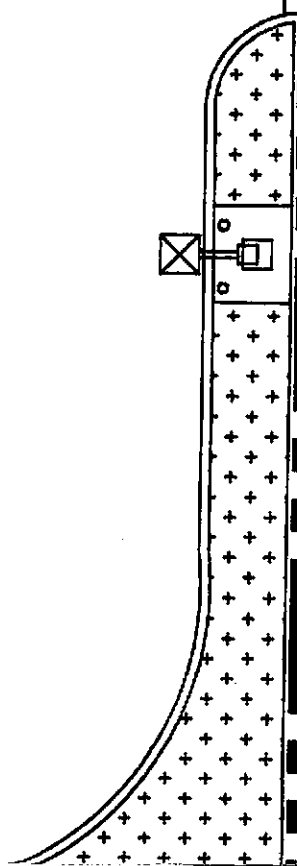
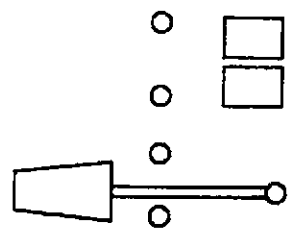
REG

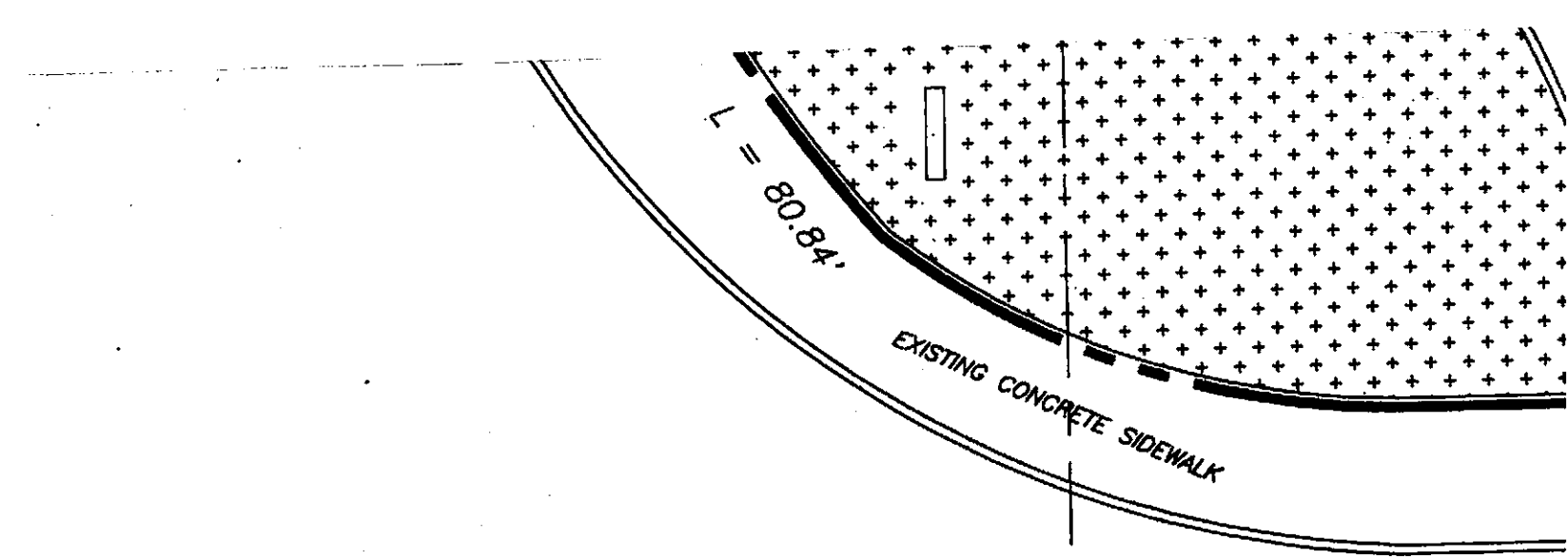
SU

GENERAL CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPING & HOOK-UP NEW PIPING
● DISPENSERS TO EXISTING PIPING

EXISTING ISLAND & DISPENSER TO REMAIN

S 70° 05' 06" E PL. 128.00'



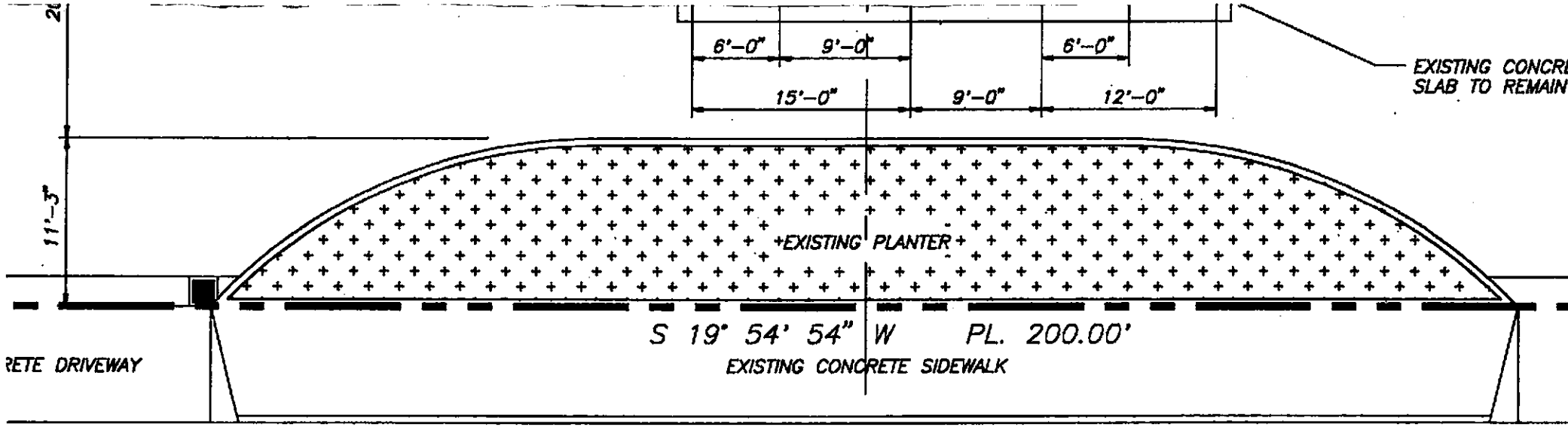


UNDERGROUND PIPING NOTES

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5. ALL EXISTING UNDERGROUND PIPING & PLUMBING LINES TO BE FIELD VERIFIED FOR EXACT DEPTH & LOCATION PRIOR TO TRENCHING.

LEGEND

—————	NEW UNDERGROUND FIBERGLASS PRODUCT 2" DIA. FIBERGLASS PRODUCT LINE (DOUBL (SLOPE 1/4" PER 12" MIN. UPWARD FROM
- - - - -	NEW UNDERGROUND FIBERGLASS VENT/VAPOR 2" OR 3" DIA. FIBERGLASS VAPOR RETURN (SLOPE 1/4" PER 12" MIN. UPWARD FROM
R	SUPER REGULAR UNLEADED
U	REGULAR UNLEADED
S	SUPER UNLEADED
—————	EXISTING SINGLE WALL FIBERGLASS PRODUCT



HEGENBERGER ROAD

NOTE! A
U

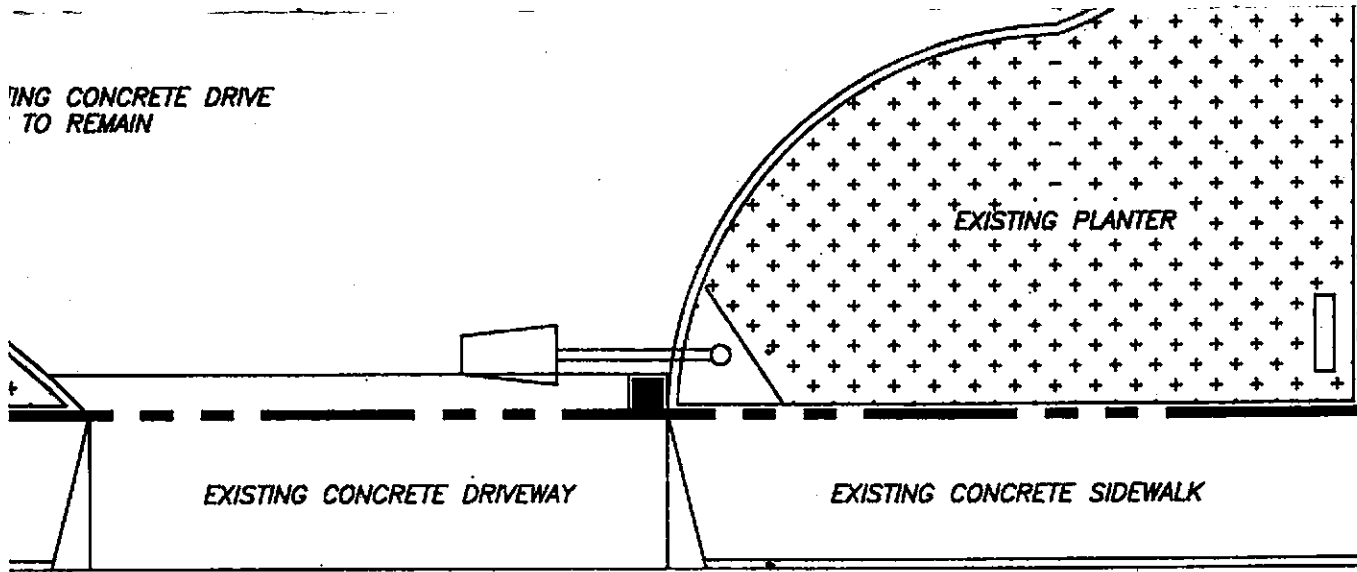
ENVIRONMENTAL HEALTH DEPT. NOTES

- 1) NEW DOUBLE-WALL PRODUCT LINES ARE TO TIE INTO EXISTING PRODUCT LINES @ NEW SUMP (SEE DRWGS. & SD-1 & SD-2 FOR SUMP & OTHER SECONDARY CONTAINMENT DETAILS)
- 2) EXISTING PRODUCT LINES TO BE REPAIRED OR REPLACED IF NECESSARY FOR CONNECTION TO NEW LINES.

MARK	REVISIONS	DATE	BY
	CHANGED PIPING LAYOUT, PIPING TO DBL WALL & ADDED SUMP	5/22/92	VP

AREA E
DISTR
AREA J
TERRIT

EXISTING CONCRETE DRIVE
TO REMAIN



EXISTING CONCRETE DRIVEWAY

EXISTING CONCRETE SIDEWALK

EXISTING PLANTER

60'-0"

NOTE! ALL EXISTING ITEMS ARE TO REMAIN
UNLESS NOTED OTHERWISE.

APPROVALS

AREA ENGINEERING MANAGER

DATE

DISTRICT MANAGER

DATE

AREA DISTRIBUTION MANAGER

DATE

TERRITORY MANAGER

DATE



SHELL OIL COMPANY

HOUSTON, TEXAS

PIPING PLAN

HEGENBERGER ROAD & LEET DRIVE
OAKLAND, CALIFORNIA



PLANS PREPARED BY:

A & S ENGINEERING

49 QUAIL COURT, ST. #303, WALNUT CREEK, CA.
PHONE: 415-933-0578 FAX: 415-933-0588

SCALE: 1" = 10'-0"

DATE: SEPTEMBER 1991

DWN. BY: VP

CHKD. BY:

DRWG. NO. PP-1

SHEET 3 OF