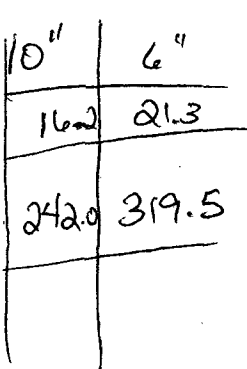


GW - 28

REPORTS

YEAR(S):

2002-2000





P.O. Box 390
Artesia, NM 88211-0390
Office # (505) 748-2142
Fax # (505) 748-2142
NM License # 81259

Navajo Refining Co.
P.O. Box 159
Artesia, NM 88211-0159
Attn: Daryl Moore

May 2, 2000

Dear Mr. Moore

Attached please find the results of your Annual Sump Testing per the list provided by the maintenance department.

Thank you,

A handwritten signature in black ink, appearing to read 'Thomas N. Giles', is written over the typed name.

Thomas N. Giles
Giles Incorporated
NM #81259

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: UNLOADING RACK SOUTH OF 400 TK

STATUS: CLEANED-OUT / LINES ISOLATED

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-12-00

START TIME: 4:00 P.M.

FINISH TIME: 7:30 AM

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: SOUTH PLANT TOOL ROOM

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-13-00

START TIME: 8:50 A.M.

FINISH TIME: 1:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: NORTH PLANT TOOL ROOM

STATUS: CLEANED OUT / FILLED COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-13-00

START TIME: 11:00 A.M.

FINISH TIME: 3:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: SOUTH EAST CORNER @ PUMPS IN #2 YARD

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1/13/00

START TIME: 11:45 AM

FINISH TIME: 3:45 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: CHEMICAL PAD NORTH OF #2 YARD

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 11/14/00

START TIME: 8:00 A.M.

FINISH TIME: 12:10 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: NORTH WEST CORNER OF MAIN WAREHOUSE

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: —

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-19-00

START TIME: 9:00 A.M.

FINISH TIME: 1:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: (2) SUMPS @ EAST SIDE MECHANIC SHOP

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: TRENCH IS SEVERELY CRACKED w/ REINFORCING
EXPOSED. SUMPS HAVE NO CRACKS, JOINTS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-18-00

START TIME: 1:00 P.M.

FINISH TIME: 7:15 A.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS @ SUMPS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: FUEL CONTAINMENTS - INTER PLANT

STATUS: CLEANED - OUT / FILLED w/ WATER

VISUAL INSPECTION: RANGE FROM FIBERGLASS TO 55 GALLON DRUMS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: _____

START TIME: _____

FINISH TIME: _____

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: LAB

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: APPEARS TO BE AN UNDERGROUND
STORAGE TANK (CARBON STEEL)

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 2-2-00

START TIME: 11:00 A.M.

FINISH TIME: 3:30 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: SLURRY SAMPLE BLDG.

STATUS:

VISUAL INSPECTION:

NOT A

INSPECTED BY:

SUMP!

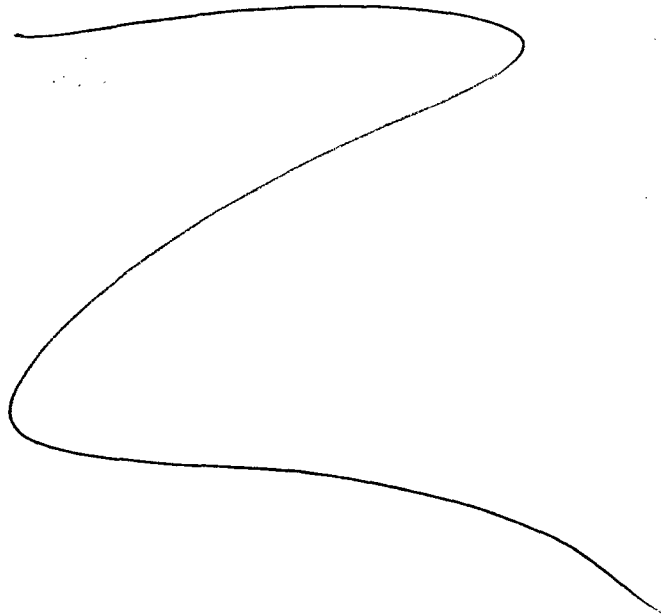
DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:



GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: *SUMPS & SLINGERS*

STATUS:

VISUAL INSPECTION:

INSPECTED BY:

DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:

*NOT TESTED DUE TO
ONGOING PROJECTS & SLINGERS
BY MAINT.*

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: *SOUTHWEST CORNER of 835 Tank*

STATUS:

VISUAL INSPECTION:

INSPECTED BY:

DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:

*NOT TESTED PER
BRIAN MADRIZ*

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: 838 TANK

STATUS:

VISUAL INSPECTION:

INSPECTED BY:

DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:

NOT TESTED

PER BRIAN MADRID

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: CBO RACK (SOUTH)

STATUS: CLEANED - OUT / LINES ISOLATED / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, JOINTS / FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-26-00

START TIME: 7:00 A.M.

FINISH TIME: 1:15 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS.

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: CBO RACK (NORTH)

STATUS: CLEANED-OUT / LINES ISOLATED / COMPLETELY FULL OF
WATER

VISUAL INSPECTION: NO CRACKS, JOINTS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-26-00

START TIME: 8:05 A.M.

FINISH TIME: 2:12 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: NEW ASPHALT RACK - 433 TANK

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, JOINTS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-21-00

START TIME: 12:00 P.M.

FINISH TIME: 4:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO-LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: ASPHALT LOADING RACK WEST OF LAB

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, JOINTS, FLAWS.

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 2-1-00

START TIME: 4:00 P.M.

FINISH TIME: 7:15 A.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO-LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: NORTH OF I & E SHOP

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, NON-MONOLITHIC POOL
BETWEEN FLOOR AND WALLS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-19-00

START TIME: 4:00 P.M.

FINISH TIME: 7:08 A.M. (1-20-00)

TESTED BY: THOMAS SIDNEY GILES

RESULTS: WATER LEVEL DROPPED 6" OVERNIGHT,
NEEDS NEW CONCRETE LINER.

LEAKED.

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: 835 TANK

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: LARGE VERTICAL CRACKS ON
WALLS (LARGER THAN $\frac{1}{4}$ ")

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-20-00

START TIME: 10:30 A.M.

FINISH TIME: 2:40 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS:

LEAKS.

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: 415 TANK

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER / LINES ISOLATED

VISUAL INSPECTION: LARGE CRACKS IN TOP HALF OF ALL 4 WALLS
REINFORCING BARS ARE EXPOSED AND RUSTED OUT.

INSPECTED BY: THOMAS SIDNEY GILES

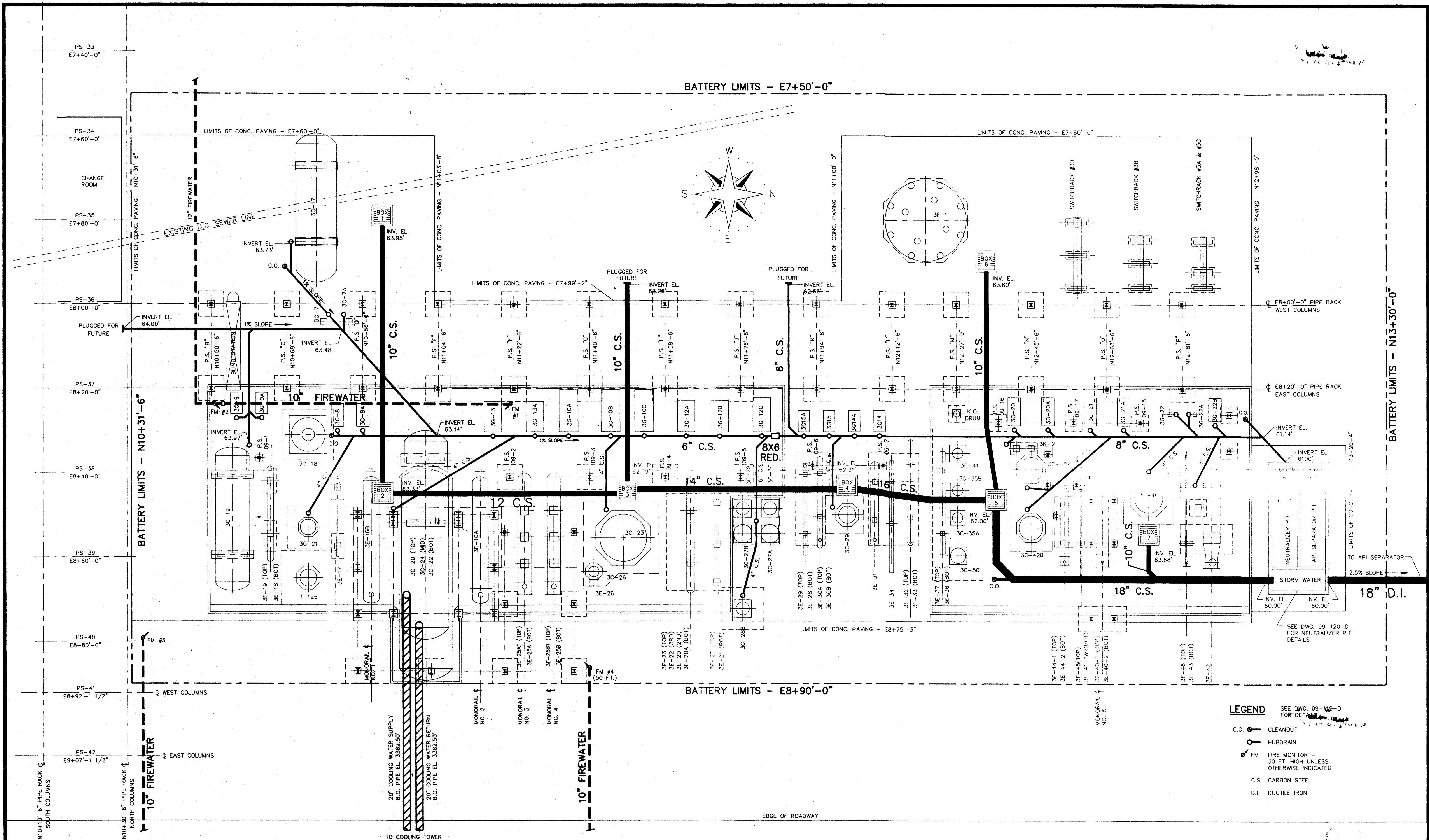
DATE OF TEST: 1-26-00

START TIME: 9:15 A.M.

FINISH TIME: 1:30 P.M.

TESTED BY: THOMAS SIDNEY GILES

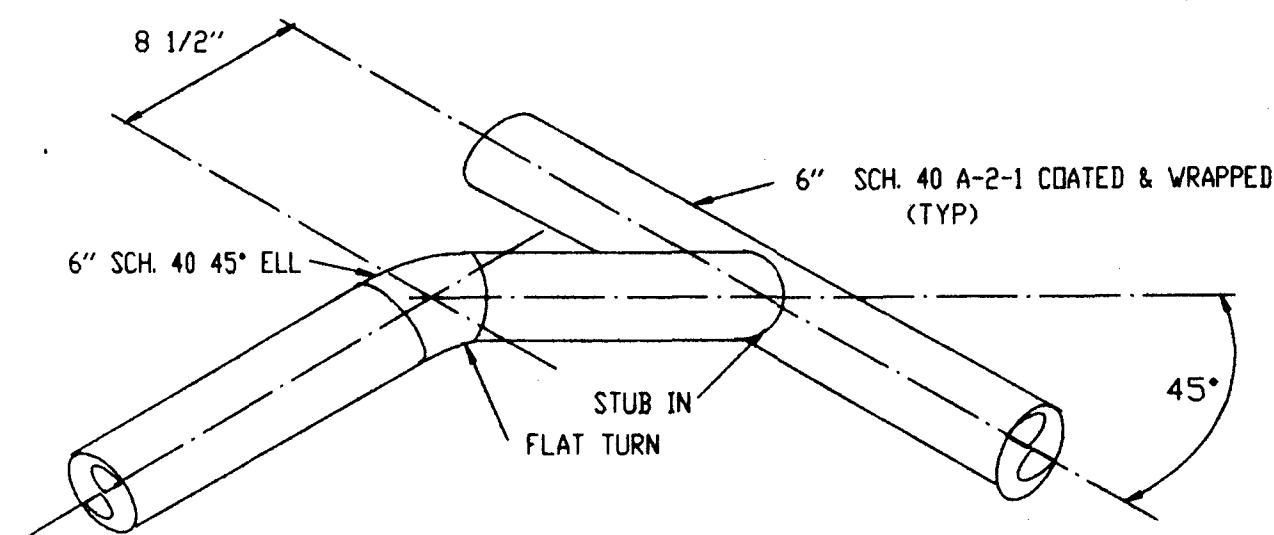
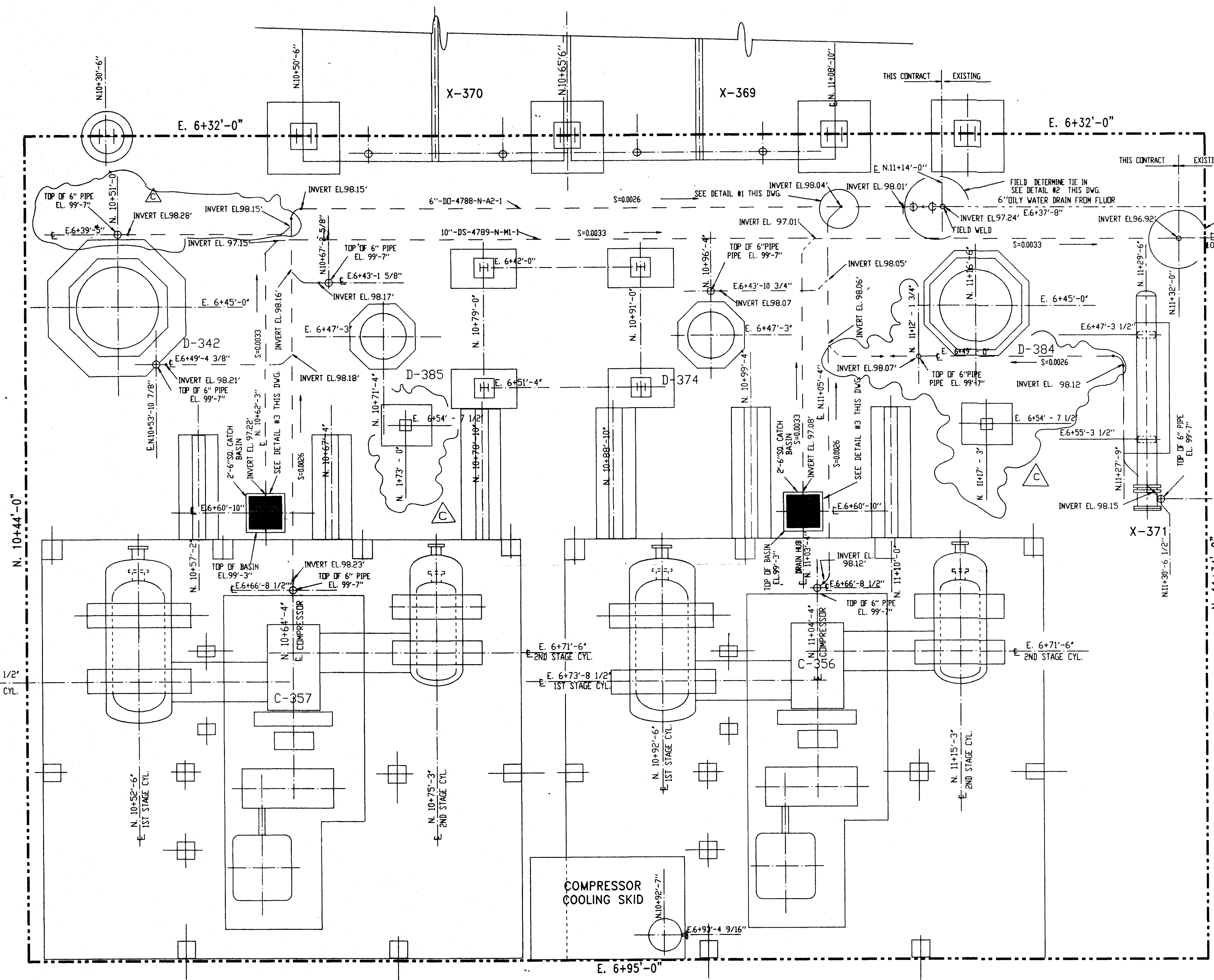
RESULTS: LEAKS



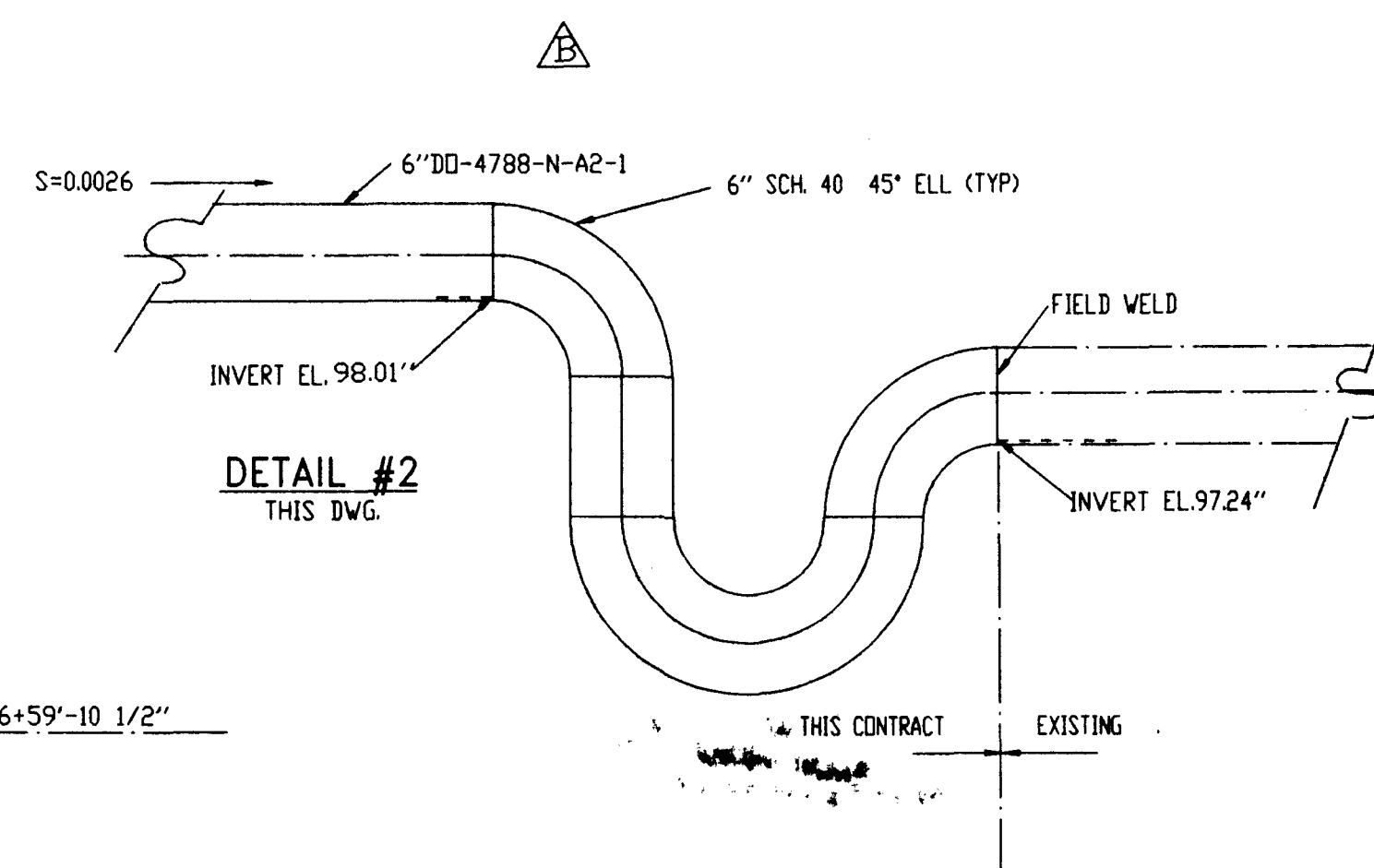
NOTES	REFERENCE DRAWINGS		NO. REVISIONS							BY CHK. DATE APPR. APPR.							NO. REVISIONS							BY CHK. DATE APPR. APPR.							DRAWING TITLE	
	09-Z-100-D DRAWING LIST AND SCHEDULES		A ISSUED FOR REVIEW							NMN														H.F. ALKYLATION UNIT RELOCATION								
	09-Z-101-D EQUIPMENT SITE PLAN		O ISSUED FOR CONSTRUCTION							NMN 3/91																						
	09-Z-102-D FOUNDATION PLAN (4 SHEETS)																							UNDERGROUND UTILITY SITE PLAN								
	09-Z-102-D FOUNDATION PLAN (4 SHEETS)																															
	09-119-D MISCELLANEOUS CIVIL DETAILS																							NAVAJO REFINING CO. ENGINEERING DEPARTMENT P.O. DRAWER 159 ARTESIA, NEW MEXICO								
																								DRAWN BY ROCHA								
																										CHK'D BY MOSES						
																								SCALE 1" = 10'- 0"								
																							DATE 01/17/91									
																									APPR BY 09-Z-103-D							
																							REV. 0									



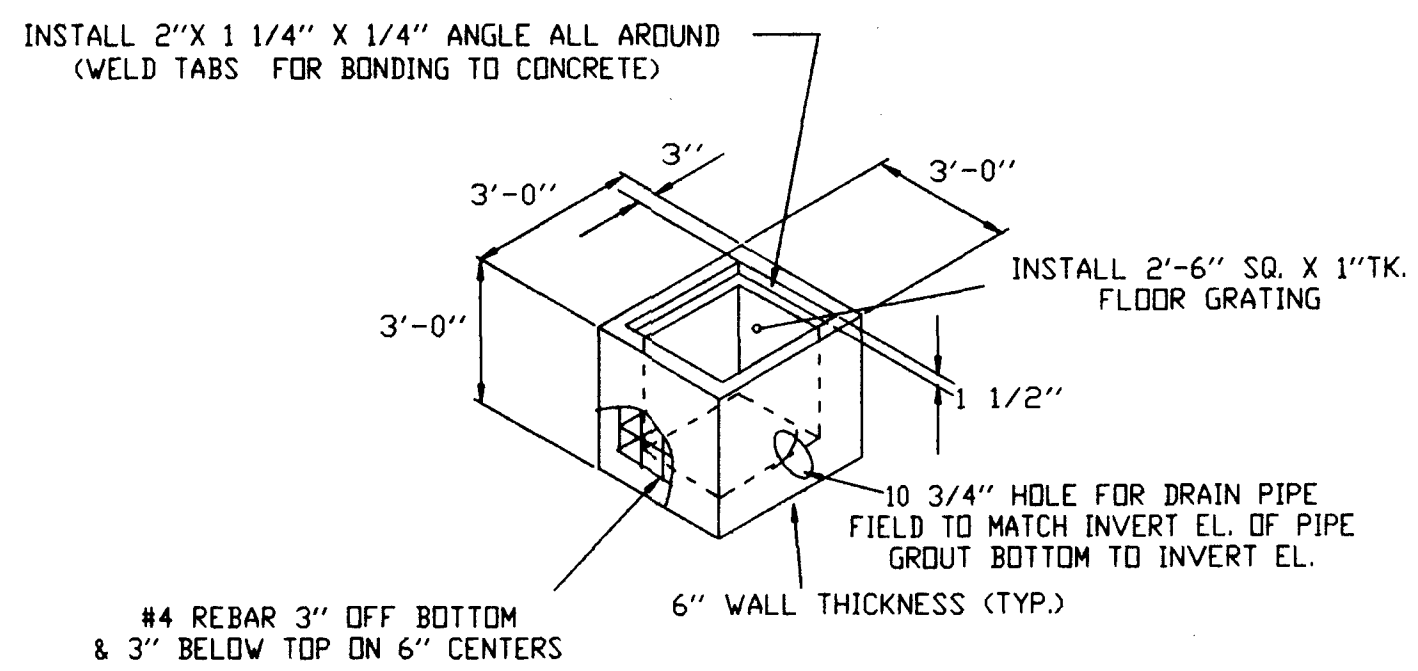
DRAWN BY GA	CHK'D BY STM	SCALE AS NOTED	
DATE 2/18/87	DATE 2/18/87	DRAWING NO. 80-1-D-1	REV. 2



DETAIL #1
THIS DWG.
(TYP. FOR S)
NOTE: ALL 6" PIPE TURNS SIMILAR.



DETAIL #2
THIS DWG.



DETAIL #3
THIS DWG.

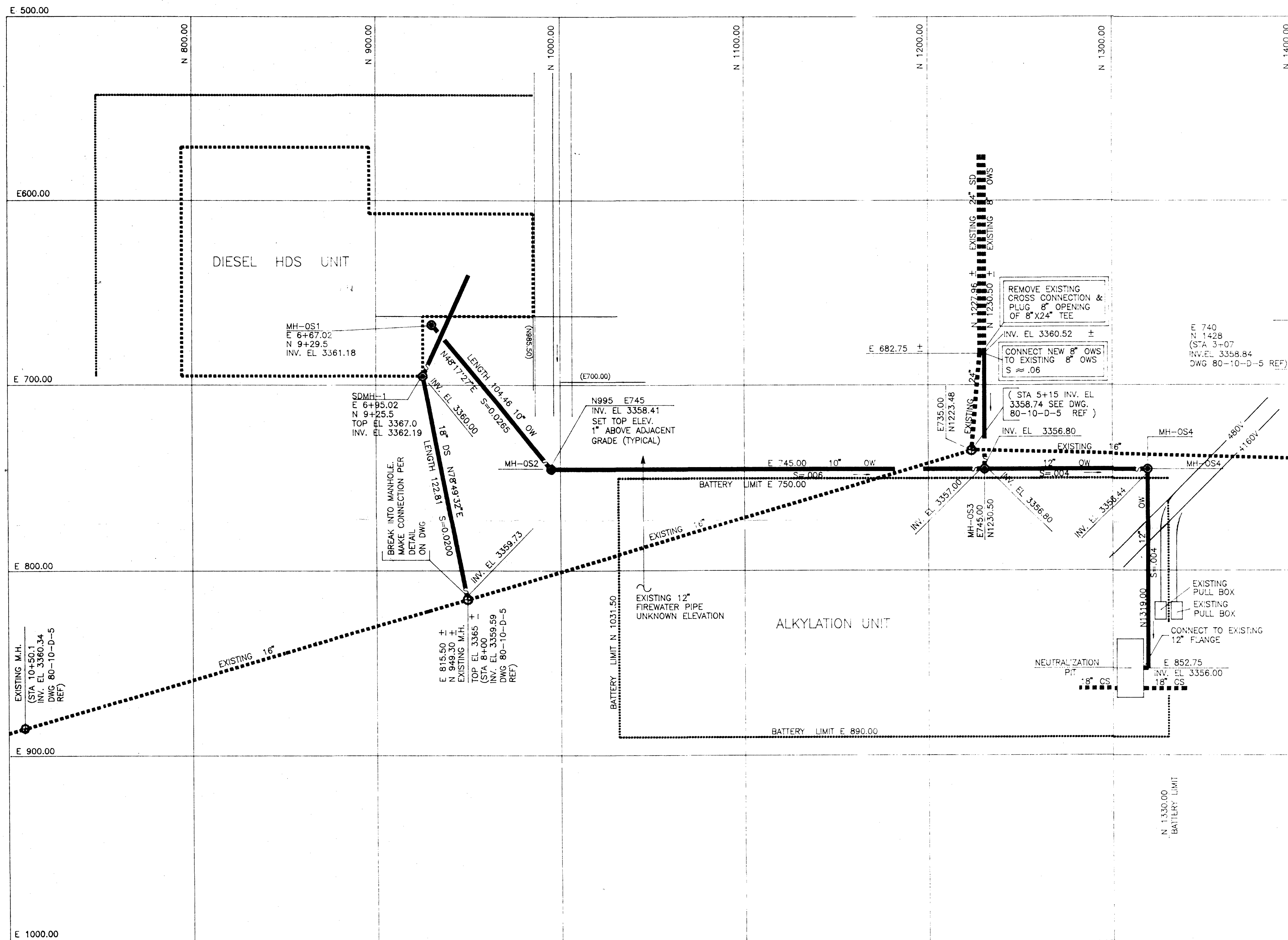
DL
engineering inc.
Odessa, Texas

NOTES		REFERENCE DRAWINGS		NO.		DATE		BY		REVISION		APR		W.D. NUMBER		1140	
1. DILLY WATER DRAIN TO BE SCH. 40 SPEC-A-2-1 COATED AND WRAPPED.		PLOT PLAN		70-2-01-D-1		A		1/11/91		DRH		ISSUED FOR BID		SCALE 1/4" = 1'-0"		ENG. RECORD	
2. STORM SYSTEM DRAIN TO BE SPEC. MI-1		PIPING PLAN		70-38-D		B		1/11/91		DRH		ADDED PEA TRAP		DATE		DRAWN BY	
		DWG. INDEX		70-39-D		C		1/31/91		SM		ADDED PIPE PIERS PP70 - 7 & 8 AND MISC.		1-7-91		CHECKED BY	
														APPD. BY			
														DRAWING NO.		70-04-D	
																C	
																REVISION NO.	

REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

NET GAS AREA
UNDER GROUND PIPING PLAN

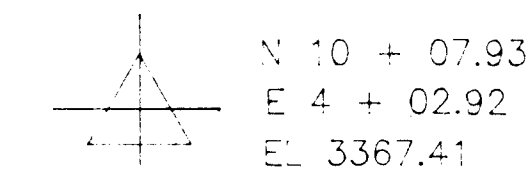
DRAWING NO. 70-04-D
C
REVISION NO.



GENERAL NOTES:

- ALL PIPING LOCATED BY CONSTRUCTION MUST BE DOCUMENTED BY "AS-BUILT" DRAWINGS.
- WHERE DRAIN OR SEWER LINE SLOPE IS NOT INDICATED ON THIS PLAN, INSTALL THE LINE AT A UNIFORM SLOPE BETWEEN THE SPECIFIED INVERTS.
- SEWER AND DRAIN SYSTEM SHALL BE TESTED IN CONFORMANCE WITH SPECIFICATION LATER.
- ALL KNOWN UNDERGROUND FACILITIES ALONG THE SEWER ROUTING THAT MAY INTERFERE WITH THE NEW SEWER LINES HAVE BEEN SHOWN. THESE WERE OBTAINED FROM EXISTING DRAWINGS AND/OR SURVEYS AND FIELD CHECKS.
IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THIS INFORMATION AND LOCATE ANY OTHER INTERFERENCES NOT SHOWN ON THIS DRAWING. PROBLEMATIC INTERFERENCES SHALL BE SOLVED DURING CONSTRUCTION.
- ALL NEW AND MODIFIED MANHOLES ARE TO BE PROVIDED WITH ONE 4" VENT EACH, TO BE FIELD ROUTED IN ACCORDANCE WITH NAVAJO SPECIFICATIONS, ATTACHMENT "J" PARAGRAPH 10.2.

EXISTING BEACH MARK



PLANT SURVEY MONUMENTS

EXISTING BENCHMARKS

- (a) N 10 + 07.93
E 4 + 02.92
EL 3367.41
(b) N 13 + 67.16
E 6 + 76.65
EL 3364.10

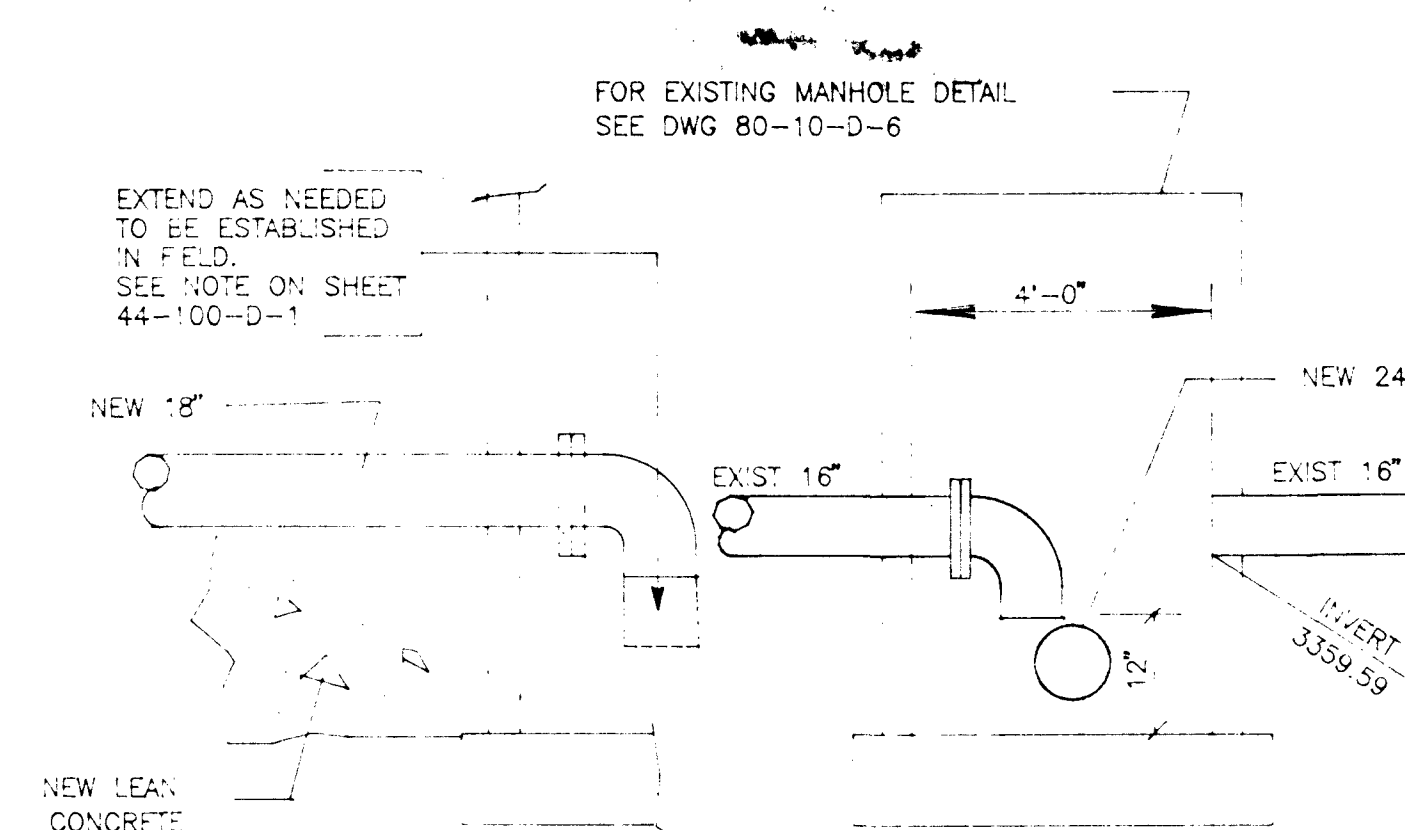
DIESEL HDS COORDINATES & ELEVATIONS

DIESEL HDS NORTH = PLANT NORTH - 665.5'
DIESEL HDS WEST = PLANT EAST - 990.02'
DIESEL HDS ELEV = PLANT ELEV - 3268.5'

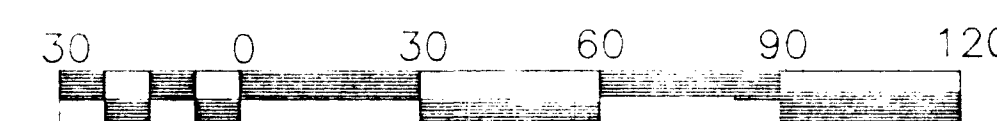
MATERIAL FOR SEWER SYSTEMS SHALL BE DUCTILE IRON PIPE WITH CLASS 350 FITTINGS, UNLESS OTHERWISE SPECIFIED.

LEGEND

- EXISTING MANHOLE
- NEW MANHOLE
- MANHOLE WITH SEAL



MODIFICATION OF EXISTING NAVAJO MANHOLE @ STA 8 + 00



SCALE IN FEET

NOTES

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	ISSUED FOR CONSTRUCTION	MEA	ESM	1/26/93									

DRAWING TITLE

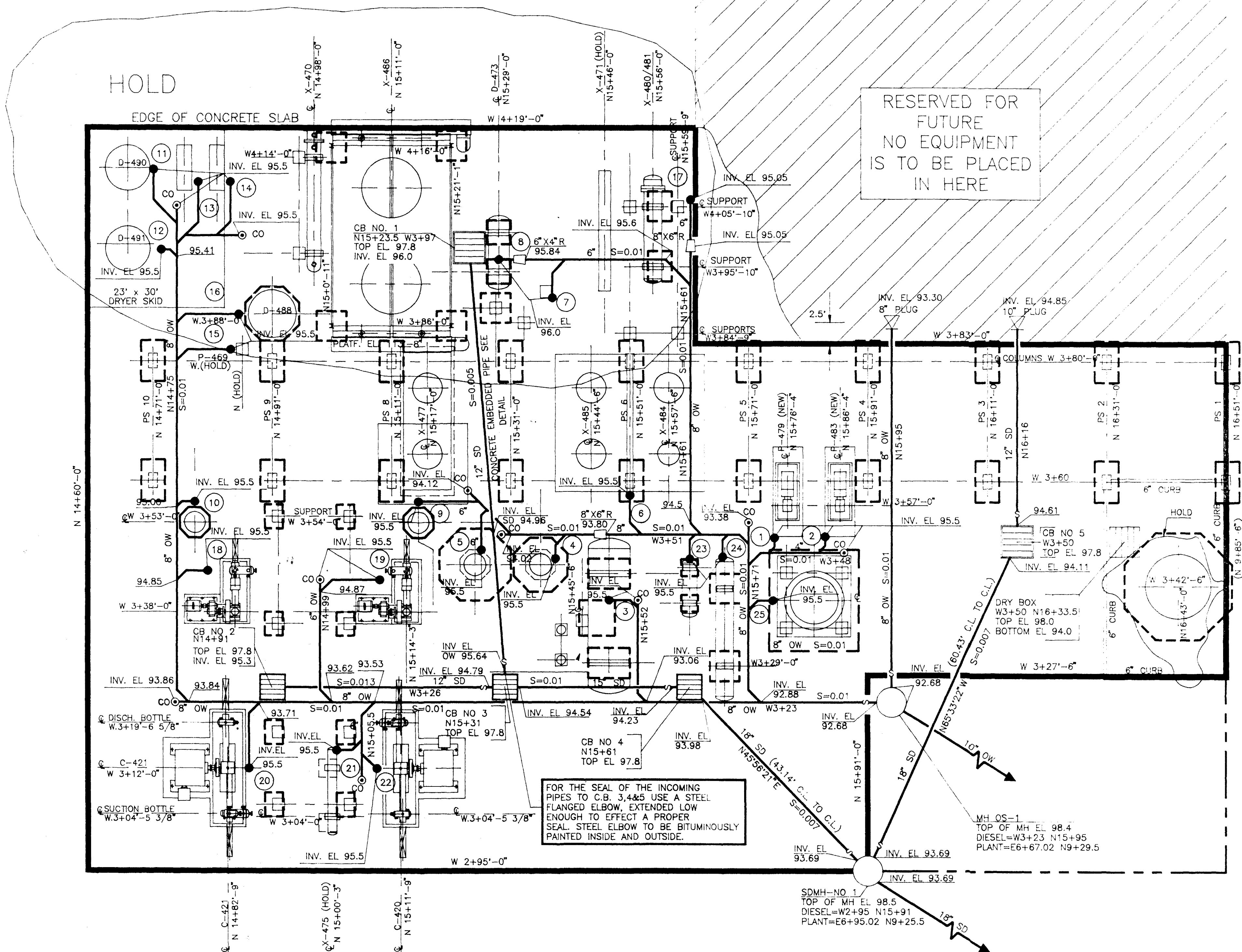
UNDERGROUND PIPING PLAN
OFFSITE
DIESEL HDS UNIT

		PROJECT NO. 92086-R	
		NAVAJO REFINING CO. ENGINEERING DEPARTMENT P.O. DRAWER 159 ARTESIA, NEW MEXICO	
DRAWN BY JY	CHK'D BY ESM	SCALE 1" = 30'-0"	REV. 1
DATE 10-21-92	APPR BY	DRAWING NUMBER 44-100-D-2	

MAY 15 2002



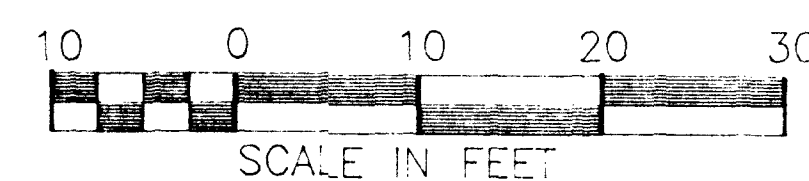
PLANT NORTH



RESERVED FOR
FUTURE
NO EQUIPMENT
IS TO BE PLACED
IN HERE

1. NOTES APPLY UNLESS OTHERWISE NOTED ON DRAWING.
2. WHERE PIPING IS NOT DIMENSIONALLY TIED DOWN OR LOCATED, CONSTRUCTION SHALL INSTALL THIS PIPING AS CLOSE AS PRACTICAL TO THE INDICATED ROUTING.
3. ALL PIPING LOCATED BY CONSTRUCTION MUST BE DOCUMENTED BY "AS-BUILT" DRAWINGS.
4. ALL DRAIN & SEWER PIPING ARE TO BE:
 - 2" & SMALLER - CAST IRON PIPE
 - 15" & LARGER - DUCTILE IRON PIPE

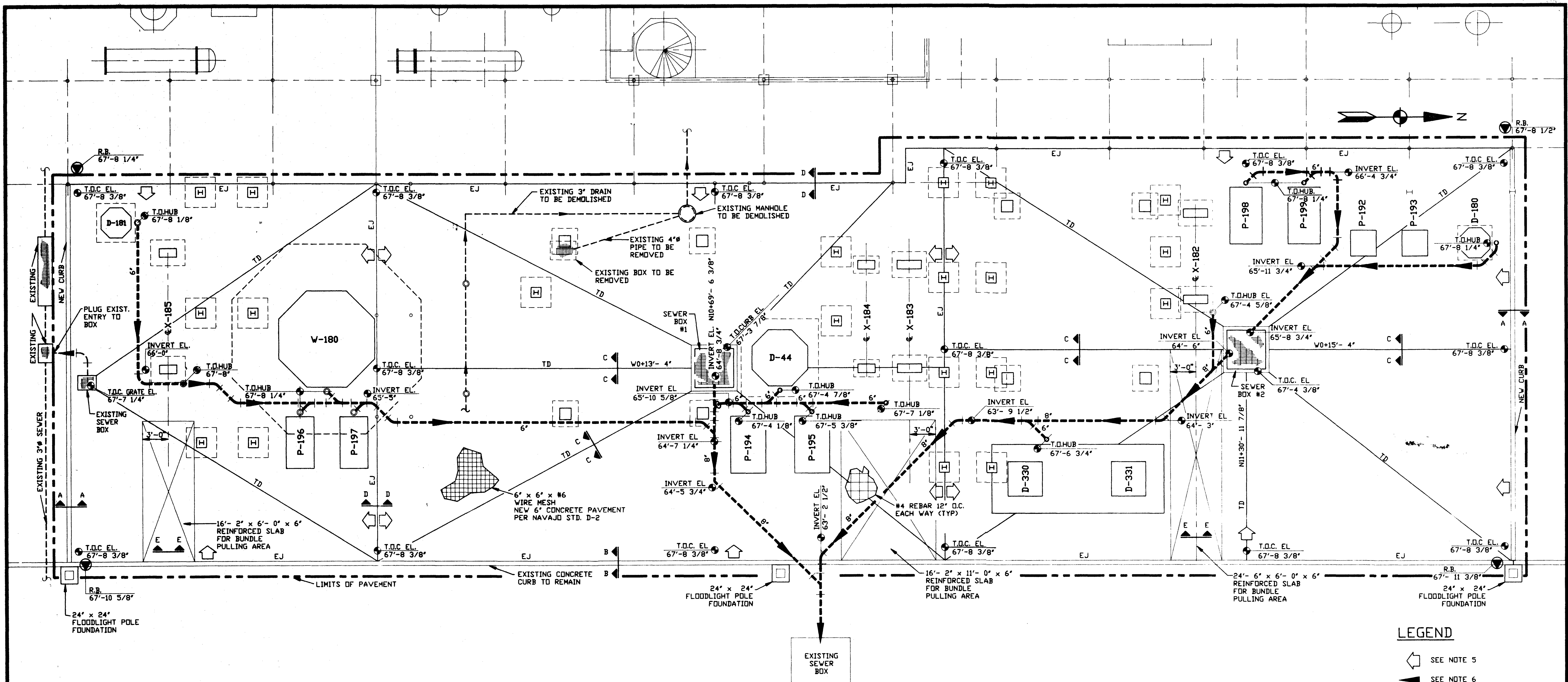
CO	CLEAN OUT
DB	DRY BOX
MH	MANHOLE
OW	OILY WATER SEWER
OWA	OILY WATER AREA DRAIN
SD	STORM SEWER
CB	CATCH BASIN
++	INLET SEAL

[illegible]

DIESEL HDS UNIT

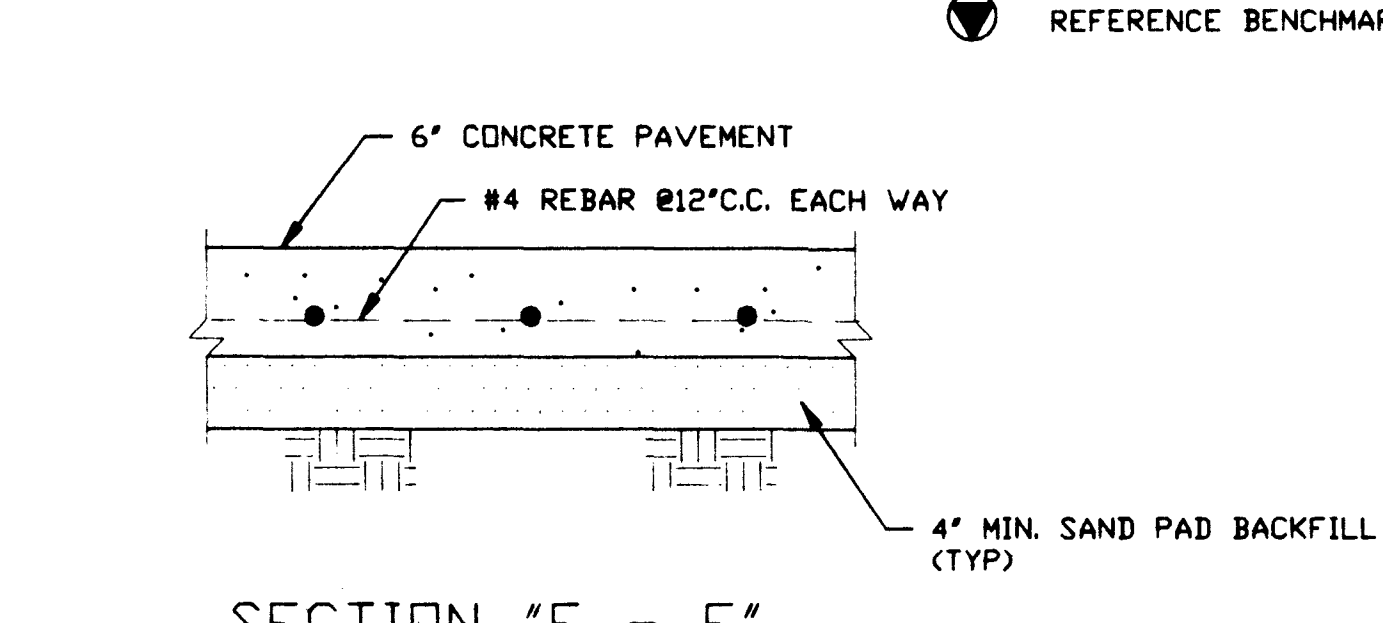
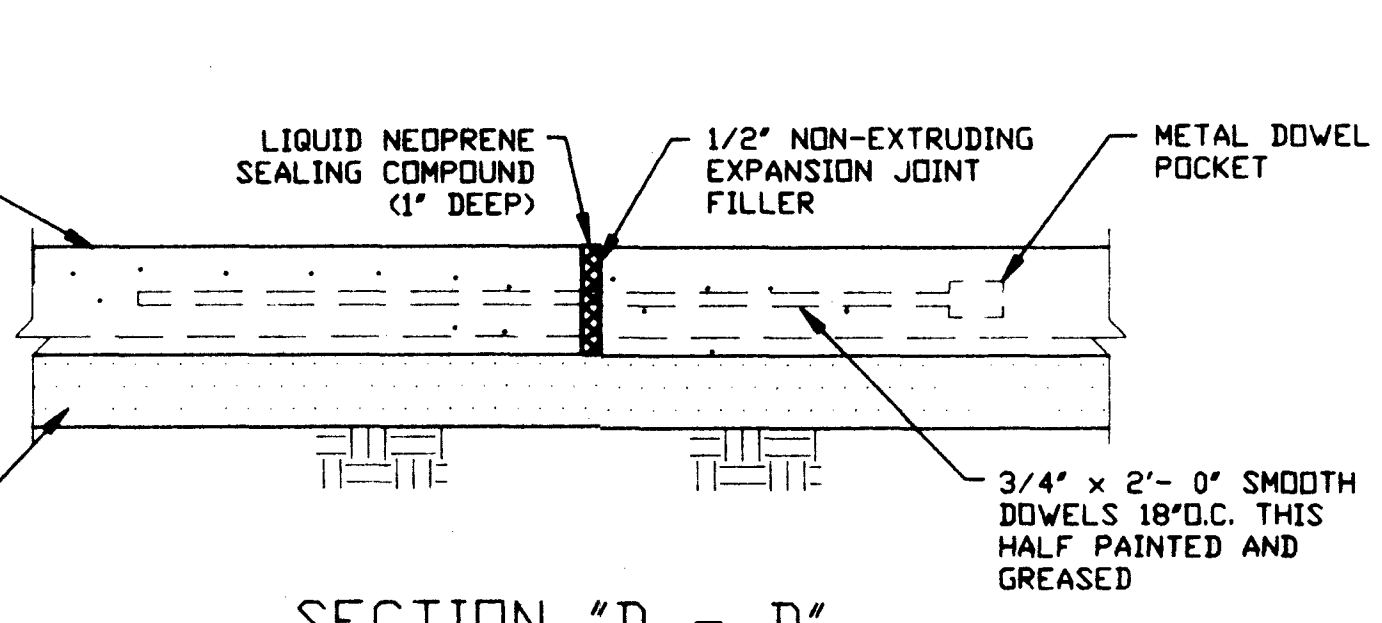
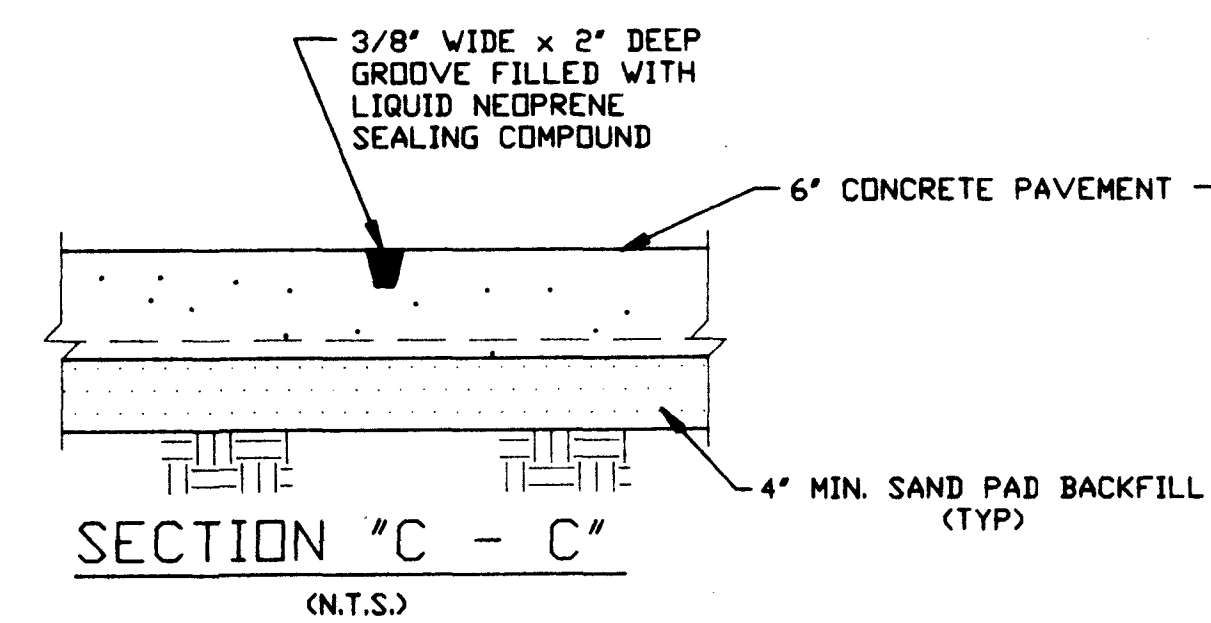
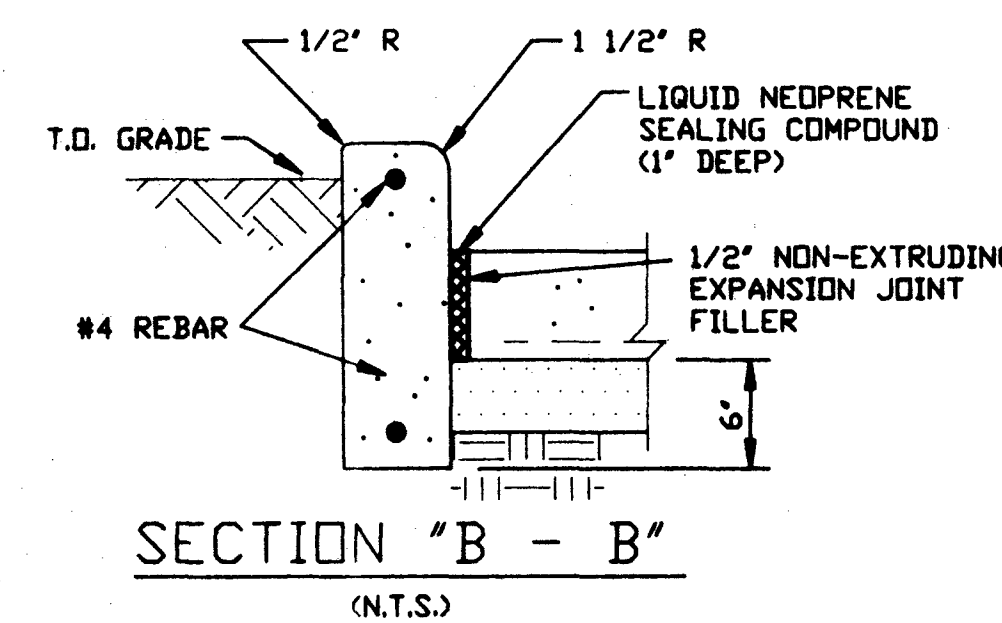
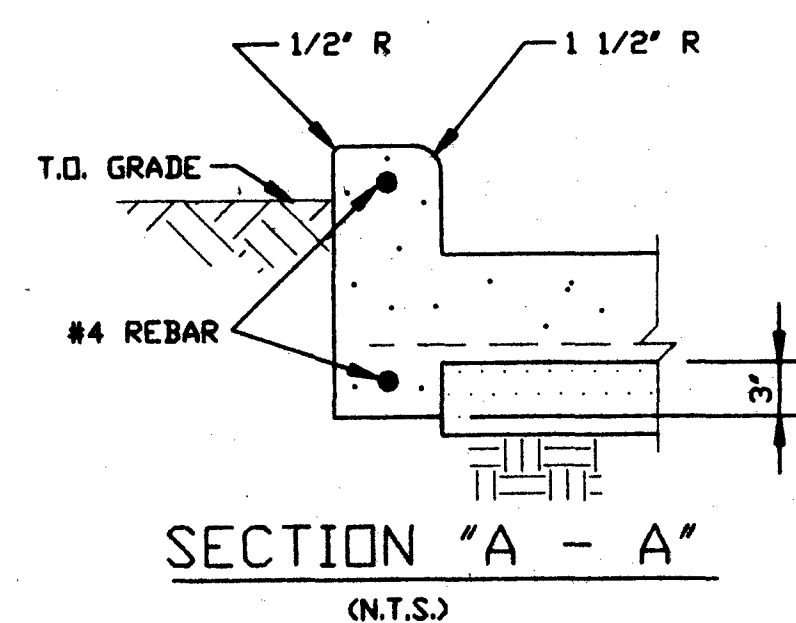
 MARTECH International, Inc. ENGINEERS AND MANAGERS Covina, California		PROJECT NO. 92086-R	
 NAVAJO REFINING CO. ENGINEERING DEPARTMENT P.O. DRAWER 159 ARTESIA, NEW MEXICO			
DRAWN BY JY	CHK'D BY ESM	SCALE 1" = 10' - 0"	
DATE 10-21-92	APPR BY	DRAWING NUMBER 44-100-D-1	REV.

~~MAY 15 2002~~



LEGEND

- SEE NOTE 5
- SEE NOTE 6
- TOP OF CONCRETE, HUB, OR INVERT ELEVATION OF SEWER PIPE
- REFERENCE BENCHMARK



NOTE: THIS CONDITION SIMILAR AT ALL EQUIPMENT FOUNDATION PADS.

- NOTES**
- GOVERNING SPECIFICATIONS: NAVAJO REFINERY SECTIONS D AND D.
 - ALL SEWER PIPE AND FITTINGS ARE ASA 021 C.I.
 - SEWER PIPE SHALL HAVE 4" SANDPAD ALL AROUND.
 - ALL NEW EQUIPMENT FOUNDATIONS AND PIERS SHALL HAVE EXPANSION JOINTS ALL AROUND AT THE SLAB JOINTS PER NAVAJO STD. D-2.
 - DESIGNATES DOWNWARD SLOPE OF CONCRETE PAVING @ 1" PER 8' LINEAR FT. MIN.
 - DESIGNATES DOWNWARD SLOPE OF PIPING @ 1/4" PER LINEAR FT. MIN.
 - FINAL POSITION OF SEWER BOX #1 TO BE DETERMINED ONCE ALL FOUNDATIONS ARE IN PLACE.

- REFERENCE DRAWINGS**
- 102-07-D SHT. 1 REV. 2
 - 13-240-D-1 REV. 0
 - 13-244-D-1 - SEWER BOX AND PIPING DETAIL

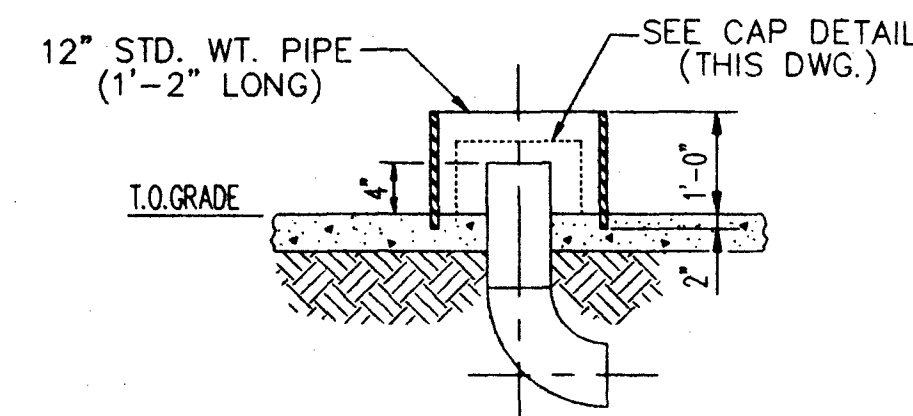
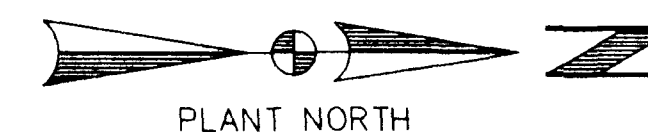
NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	NAVAJO REVIEW CHANGES	RGE	RHM	11/90									

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

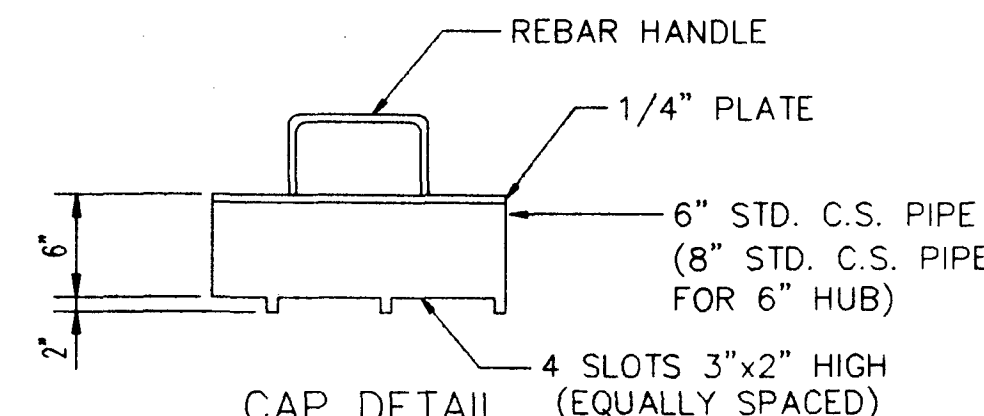
DRAWING TITLE
 NAPHTHA HYDRODESULFURIZER UNIT
 REVAMP - 1990
 UNDERGROUND UTILITIES
 PLOT PLAN

NAVAJO REFINING CO.
 ENGINEERING DEPARTMENT
 ARTESIA, NEW MEXICO
 DRAWN BY: S. ROCHA
 SCALE: 3/16" = 1' - 0"
 DATE: 10-12-90
 DRAWING NUMBER: 13-241-D
 REV: 1

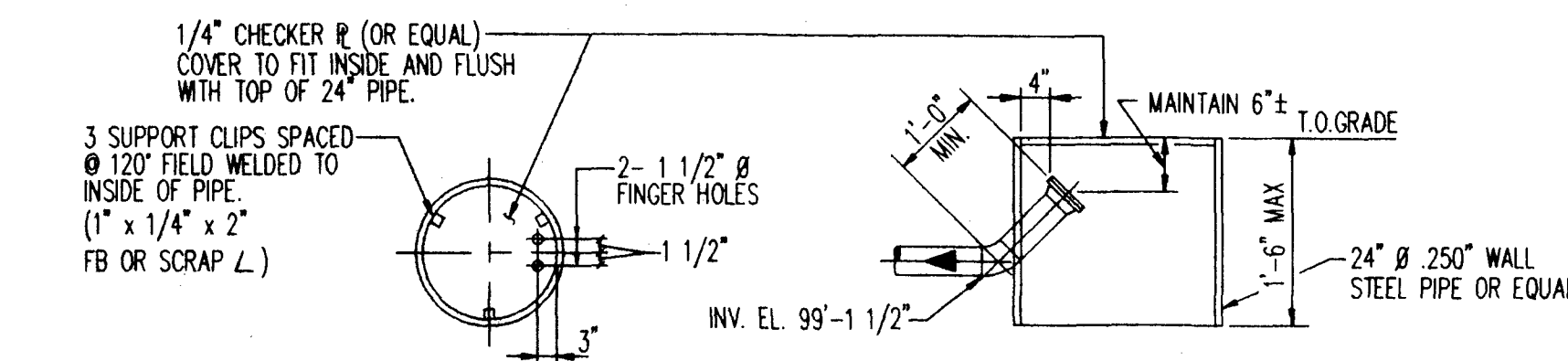
AREA LIMITS W. 2+14'-6"



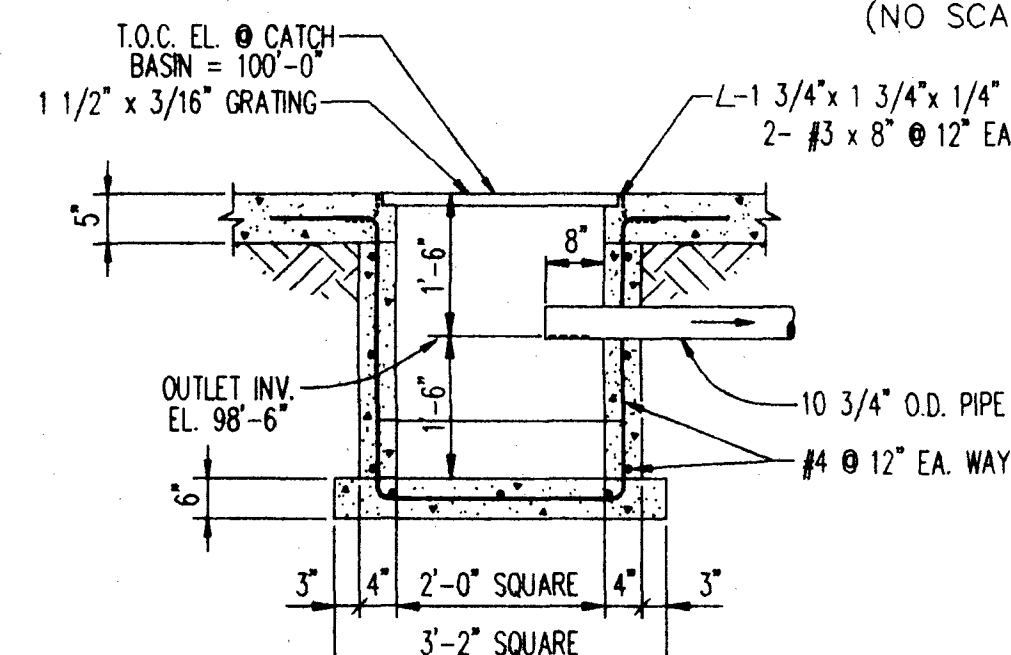
SEWER HUB DETAIL
FOR 4" HUBS
(NO SCALE)



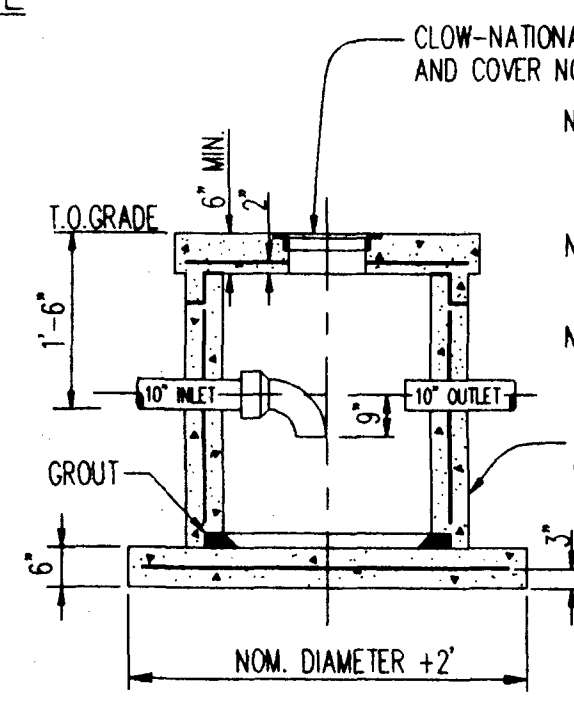
CAP DETAIL
(NO SCALE)



CLEAN-OUT DETAIL
FOR 4" HUBS
(NO SCALE)



CATCH BASIN DETAIL
(1 REQ'D.)
(NO SCALE)

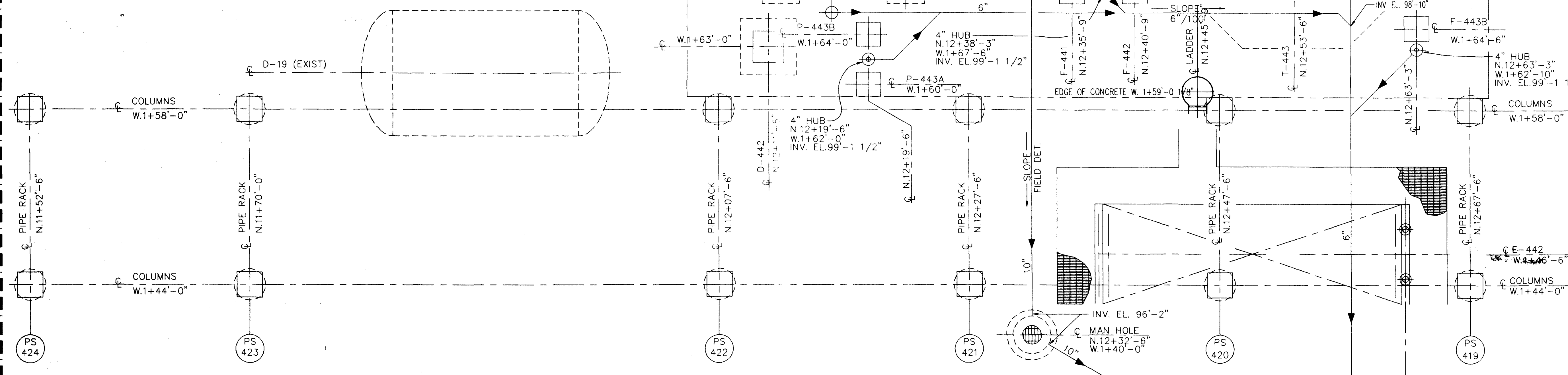


MANHOLE DETAIL
(NO SCALE)

NOTE: IN CASES WHERE NO SEALS ARE REQUIRED
ALLOW A MINIMUM OF 4" BETWEEN OUTLET
BOTTOM & BOTTOM SLAB.
NOTE: MANHOLES IN ROADWAYS SHALL BE DESIGNED
FOR AN AXLE LOAD OF 20,000 LB. MIN.
NOTE: ONLY WATER SEWER (W/SEAL)
STORM SEWER (W/O SEAL)

AREA LIMITS N. 11+50'-2"

AREA LIMITS N. 12+77'-2"



AREA LIMITS W. 1+36'-6"

(W. 1+36'-6" CONT. ON DWG. 07-81-D-02)

NOTES

HIGH POINT OF FINISHED GRADE ELEVATION EQUALS 100'-6"

REFERENCE DRAWINGS

07-87-D PIPING PLAN FROM GRADE TO EL. 118'-5 3/4"

NO.	REVISIONS	BY	CHK.	DATE	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.
A	ISSUED FOR APPROVAL	JLC	YVF	7/23/92	SD						
B	REVISED COORDS. PER CLIENTS DIRECTIONS	JLC	G.A.	7/23/92	SD						
C	REVISED MPS-404A	JLC	G.A.	8/12/92	SD						
D	ISSUED FOR CONSTRUCTION	BENTL	D.G.	8/28/92	SD						

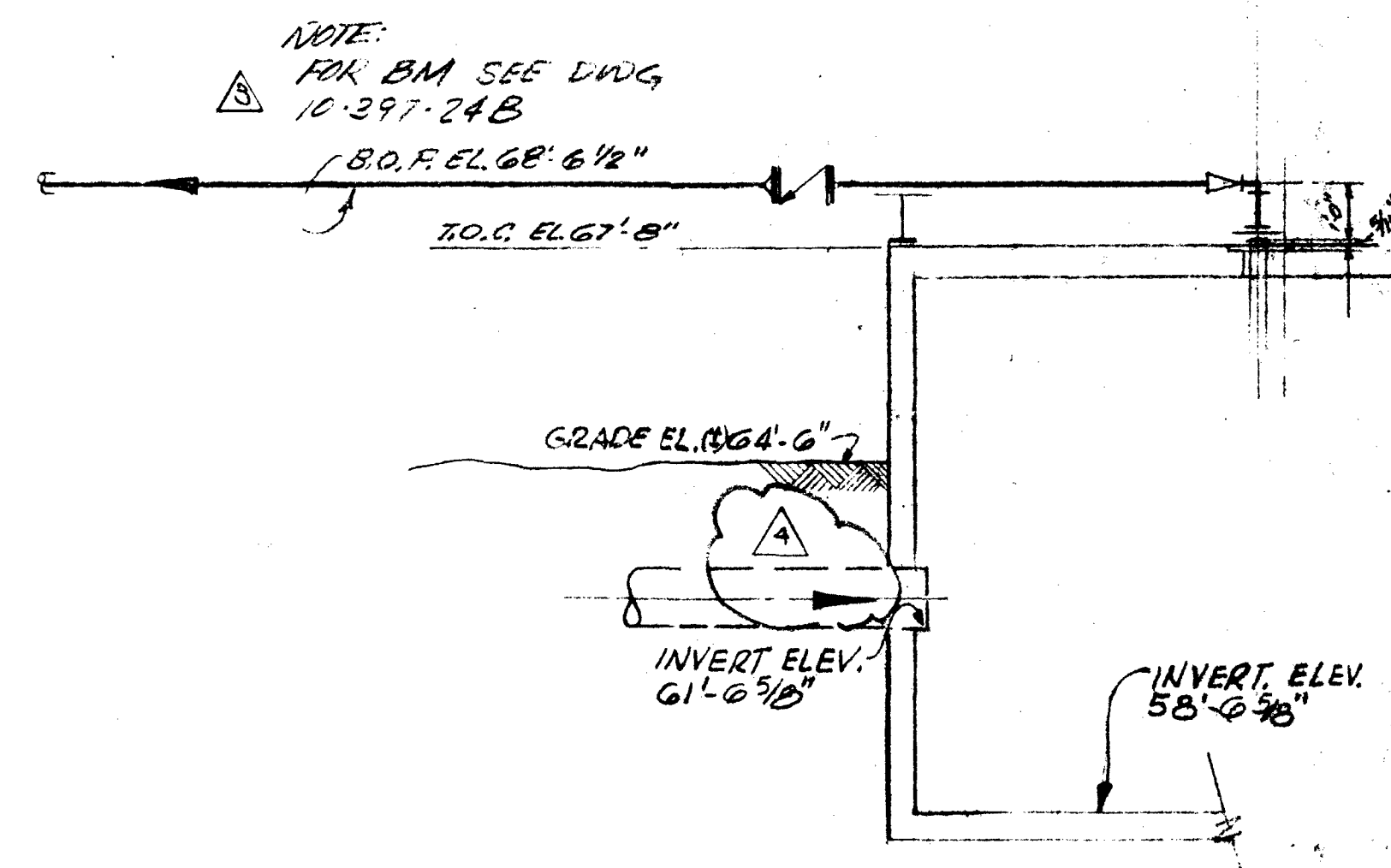
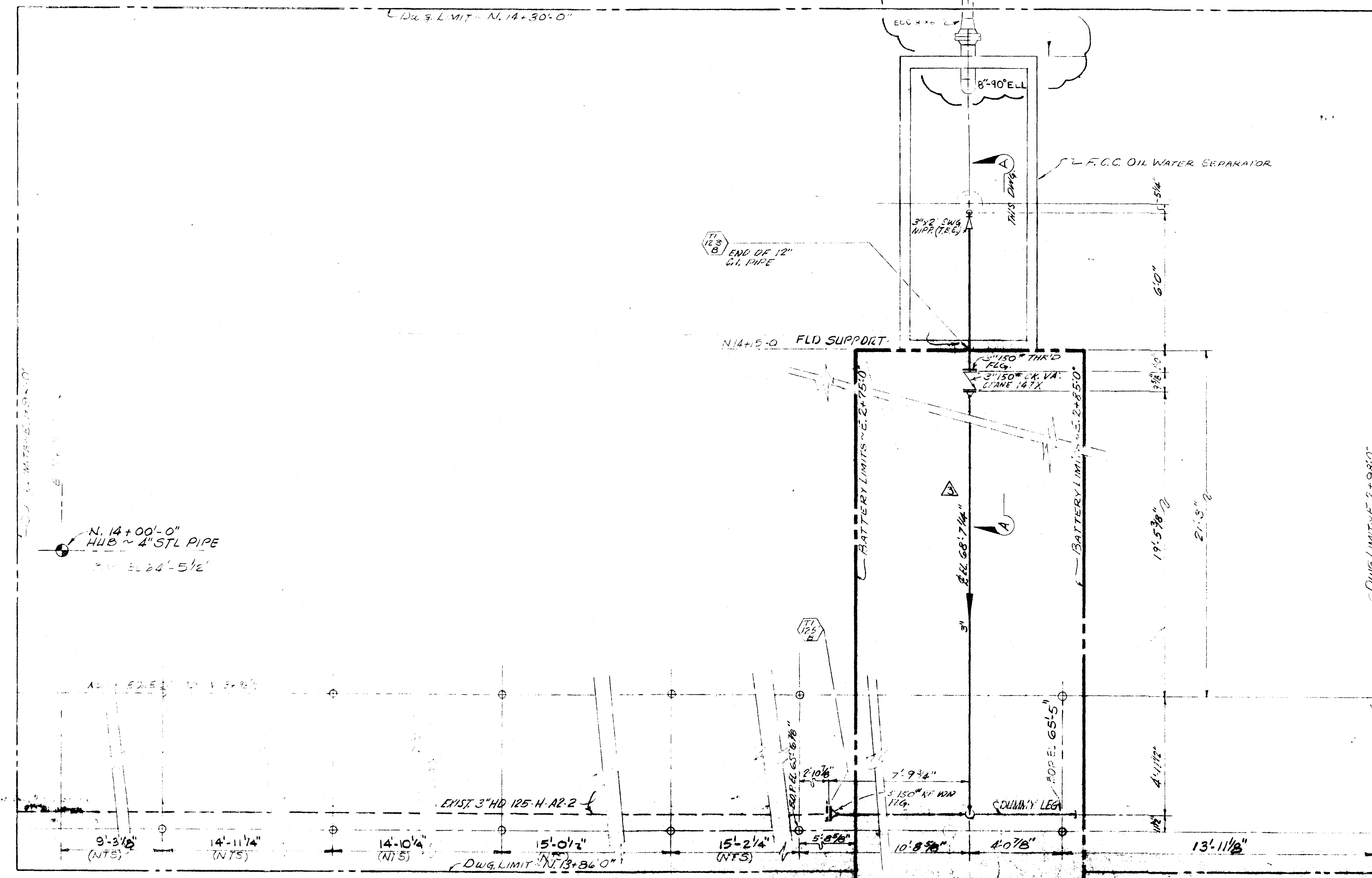
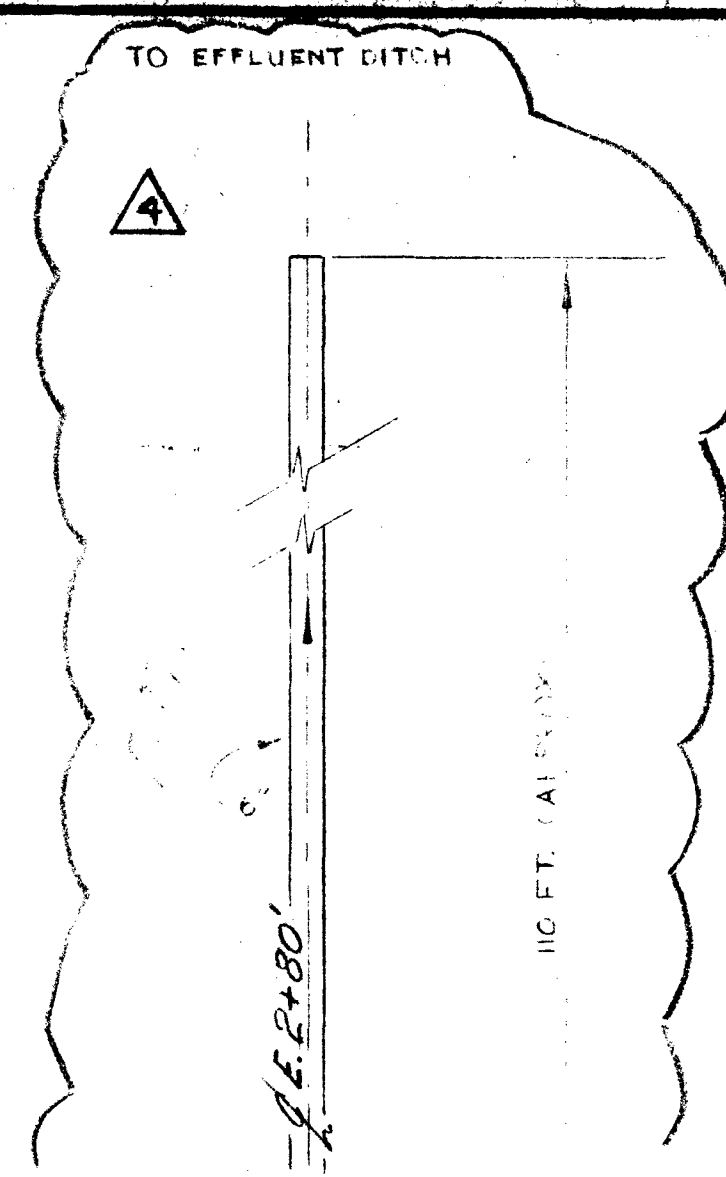
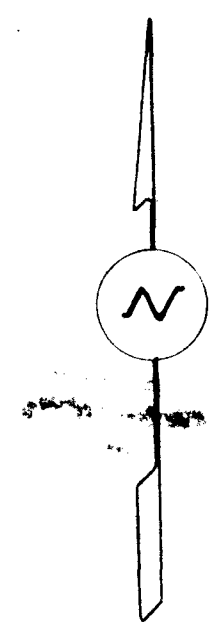
DRAWING TITLE
UNDERGROUND SEWER PLAN
RELOCATED AMINE UNIT

CAD FILE NAME: 07-81-D PLOT DATE: 08/28/92 REF-CHEM JOB# 6139

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE
CRENSHAW	FLORES	1/4"=1'-0"
DATE	APPR BY	DRAWING NUMBER
7/23/92	SD	07-81-D-01
REV.		
0		

MAY 15 2002



SECTION 'A-A'
THIS DRAWING
(N.T.S.)

- NOTE -
EQUATION FOR ELEVATION CALCULATION
BETWEEN NAVAJO & BLOUNT 3368.13 (68.13) = 100'-2"

NOTES

- REFERENCE DRAWINGS
1. PLOT PLAN - F.C.C. UNIT - 10-341-24B
 2. F.C.C. OIL WATER SEPARATOR - 10-759-24B
 3. INTERPLANT LINE BLOCK FLOW DIAGRAM - 10-820-24B
 4. PIPING ISOMETRIC - F.C.C. UNIT - 10-397-24B

NO.	REVISION
1	GENERAL
2	ADDED TIE-IN
3	ADDED 8\"/>
4	ADDED 8\"/>

REFINING COMPANY
ENGINEERING DEPARTMENT
ALBERTA, NEW MEXICO

PIPING PLAN
F.C.C. UNIT
OIL WATER SEWER BOX

N

4

N 4+00-0"
H-4 STL PIPE

E.S. HGR REF. 12.1

NOTES

REFERENCE DRAWINGS

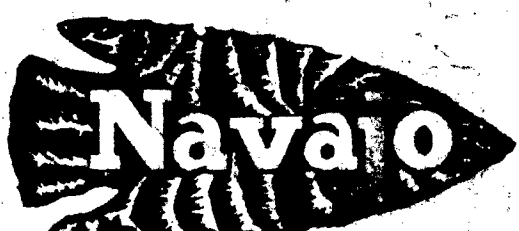
1. 10-320-248
2. 10-320-248
3. 10-320-248
4. 10-320-248

NO	REVISIONS	BY	CHK	DATE	APPR	APPR
1	GENERAL REVISION	J.P.	...	...	...	...
2	...	...	...	...	...	...
3	...	...	...	...	...	...
4	...	...	...	...	...	...

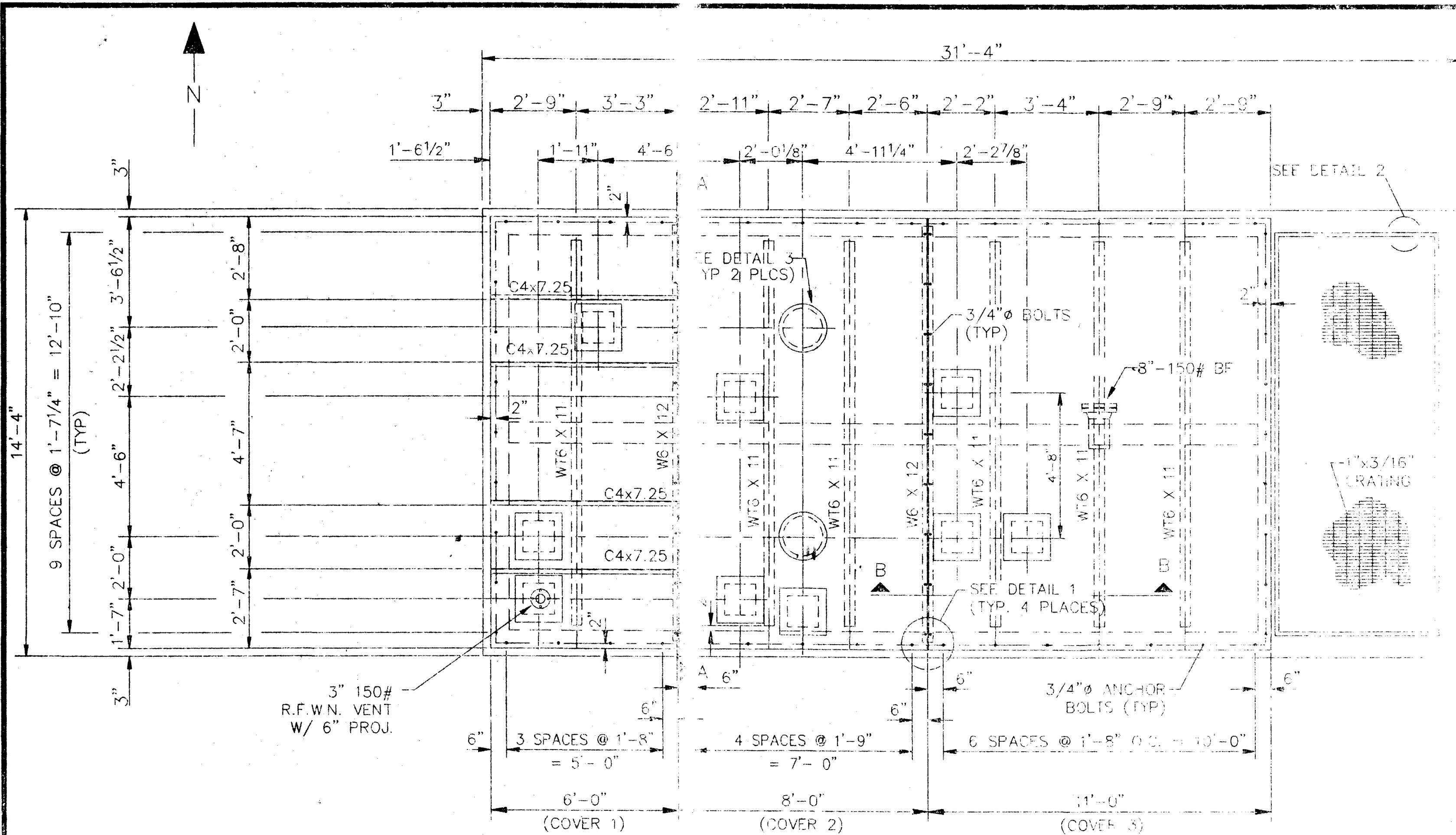
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY: J. POORE
DATE: 7.1.80
CHKD. BY: ...
DATE: 7.2.80
SCALE: 3/8" = 1'-0"

DRAWING TITLE
PIPING PLAN
F.C.C. UNIT
OILY WATER SEWER BOX

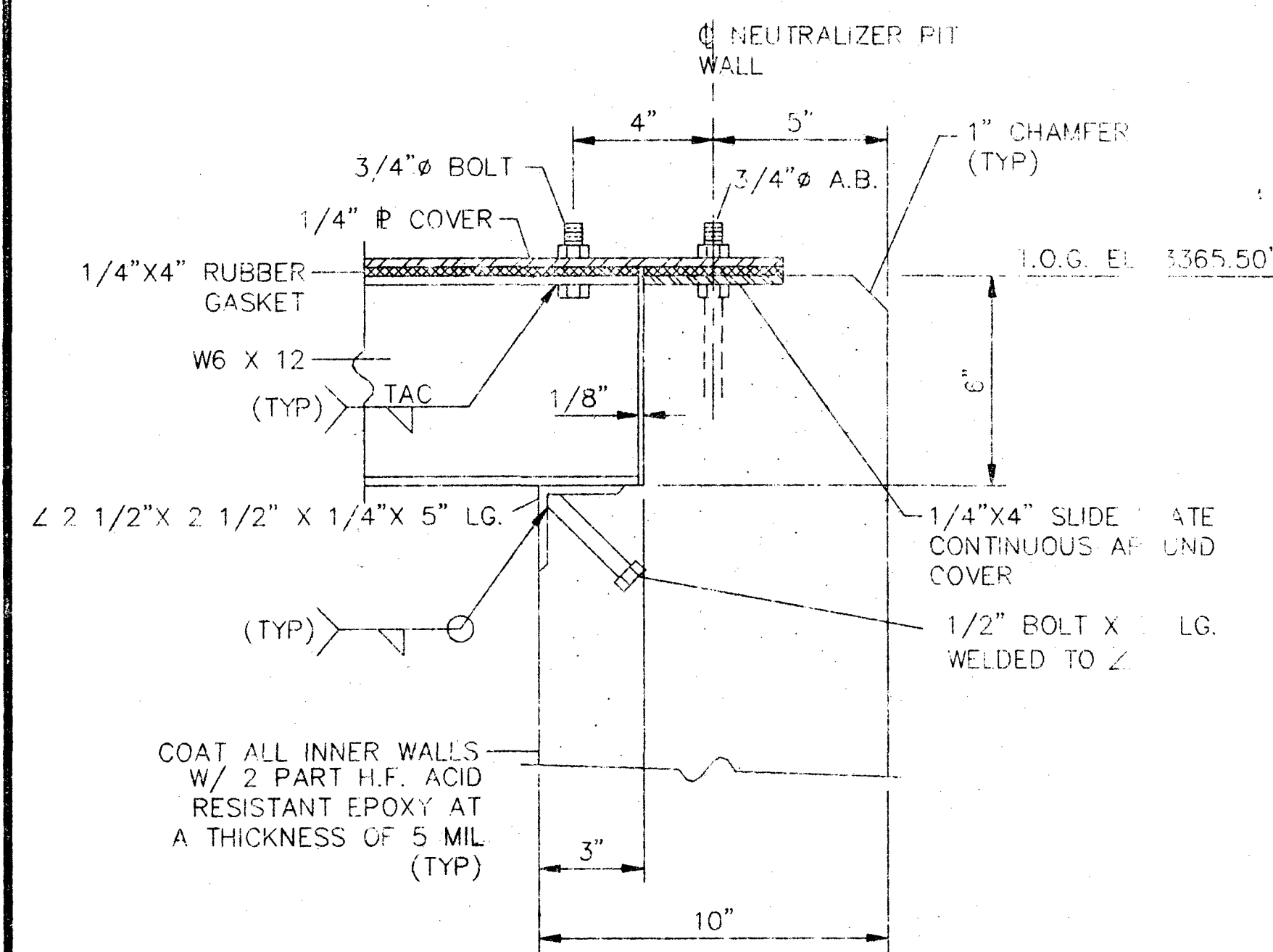


DRAWING NO.
10-761-D
MAY 15 2002

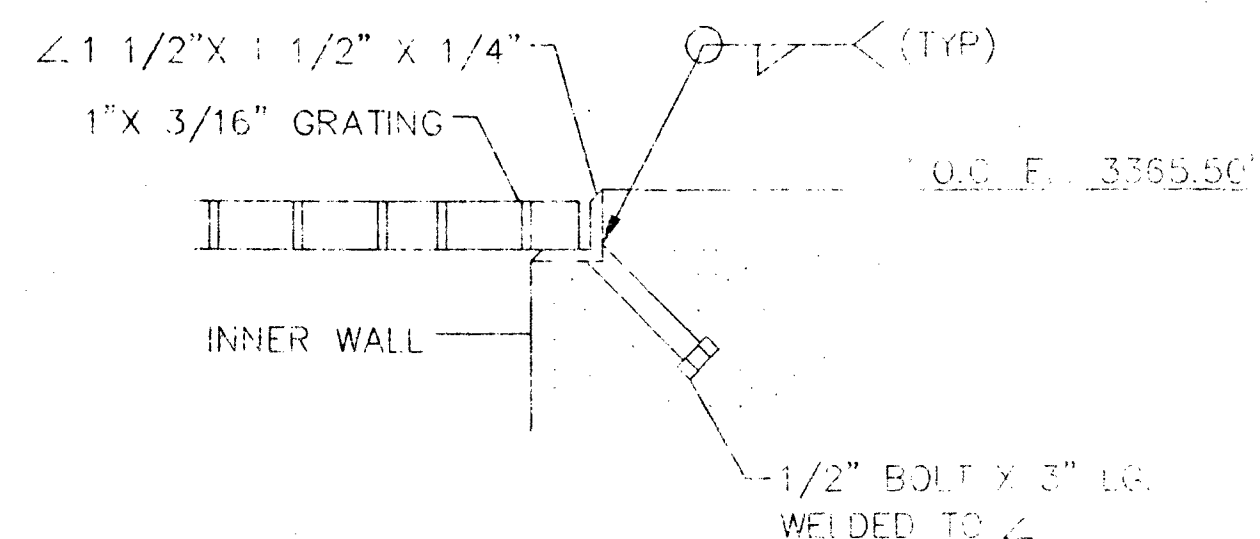


NEUTRALIZER COVER PLAN

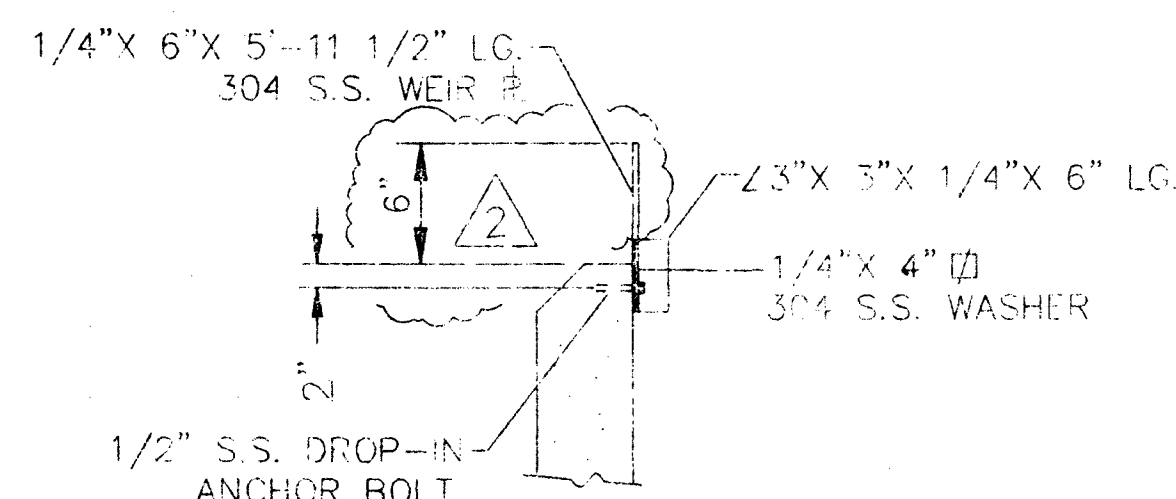
SCALE: 3/8\"/>



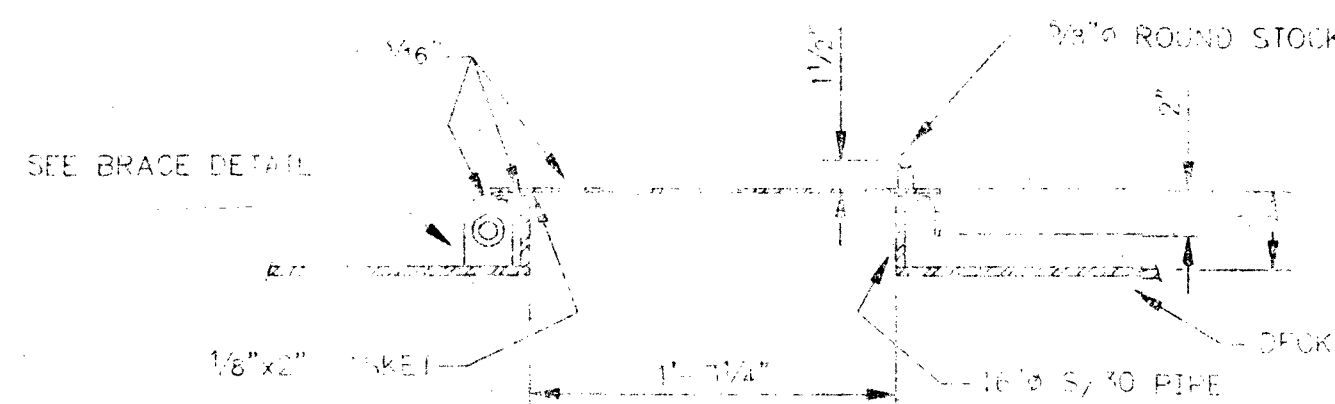
DETAIL "1"
SCALE: 3\"/>



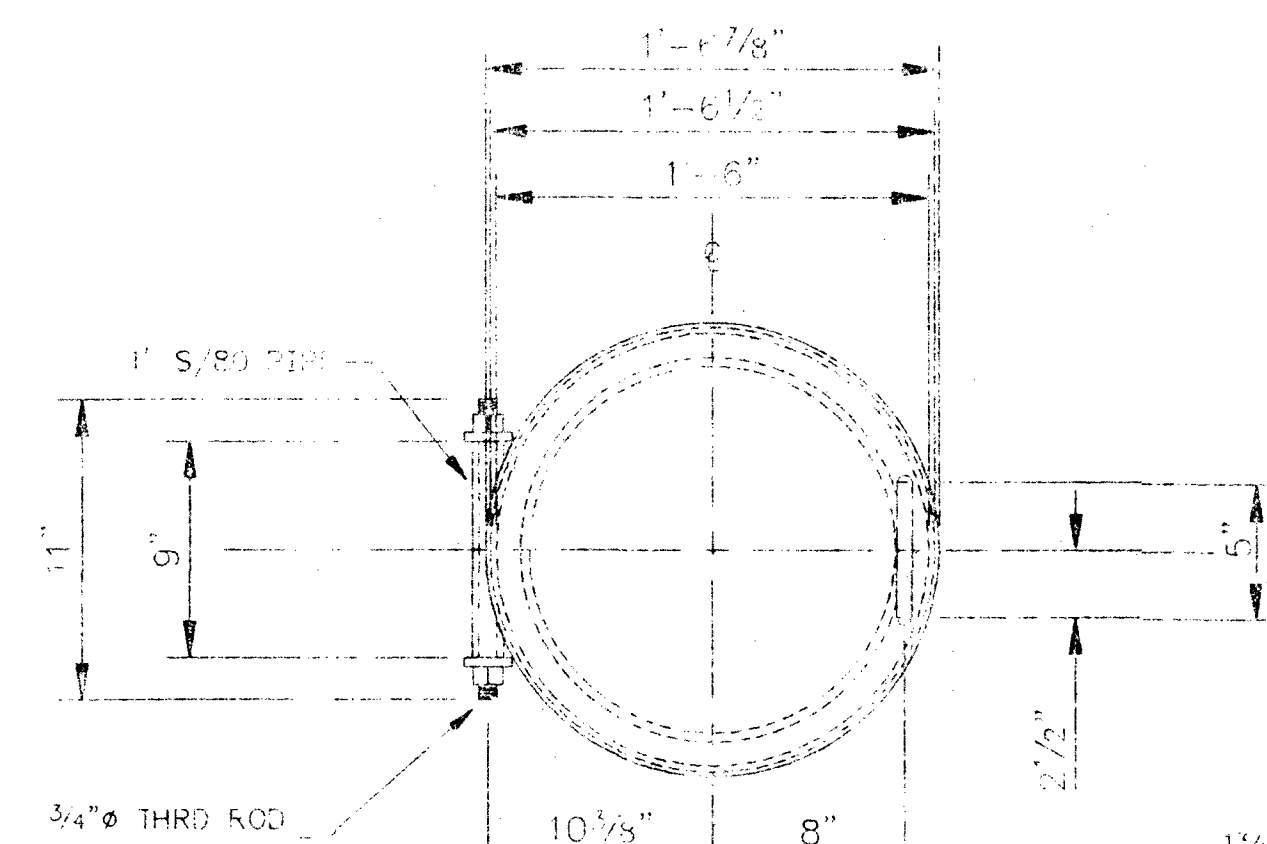
DETAIL "2"
SCALE: 3\"/>



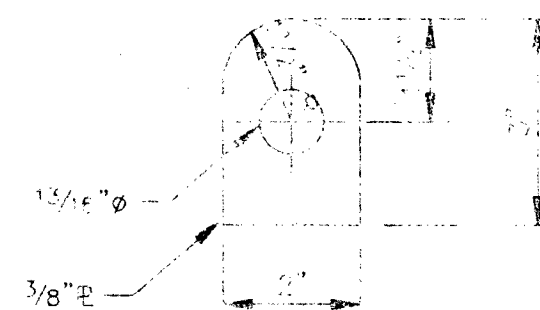
DETAIL 4
SCALE: 3/4\"/>



ELEVATION

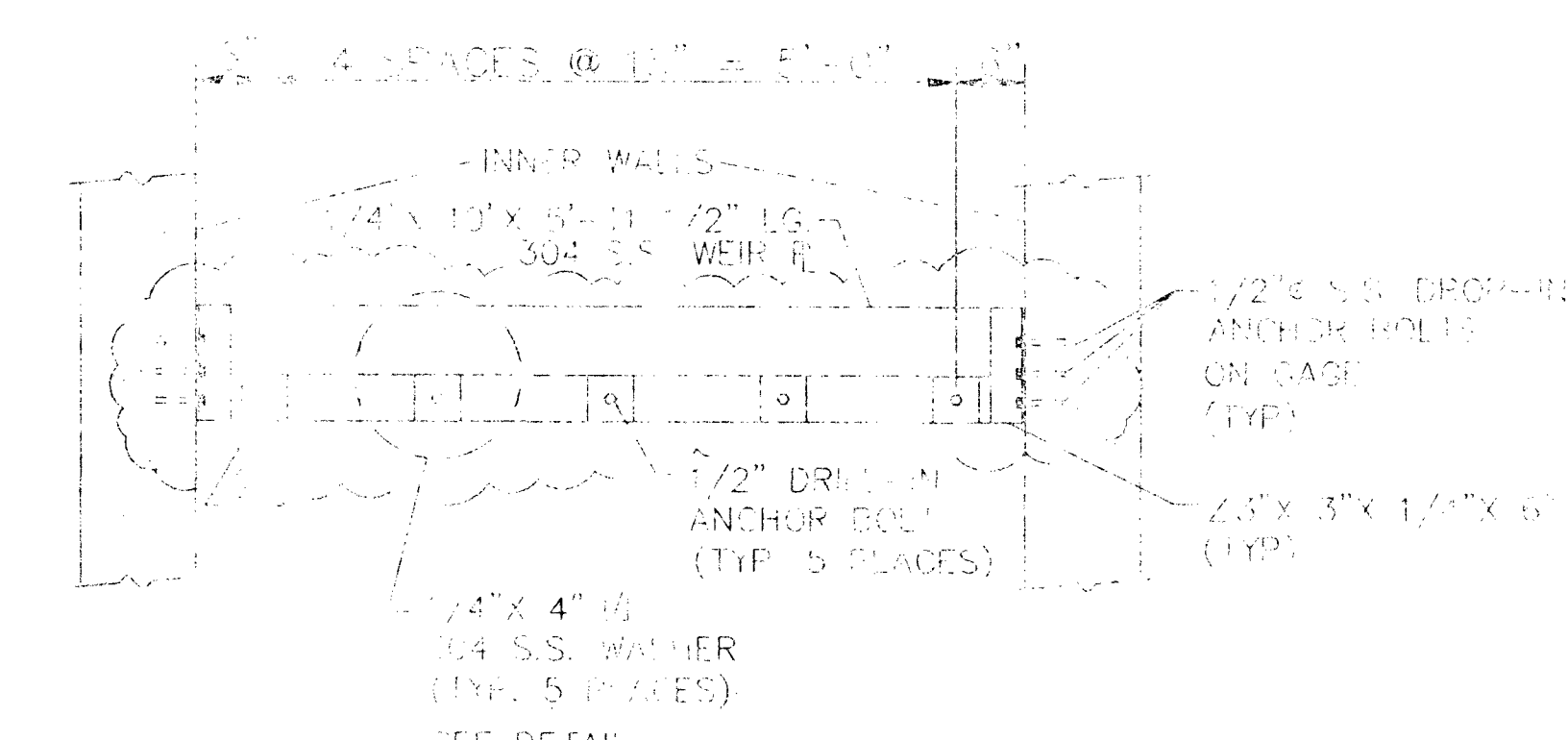
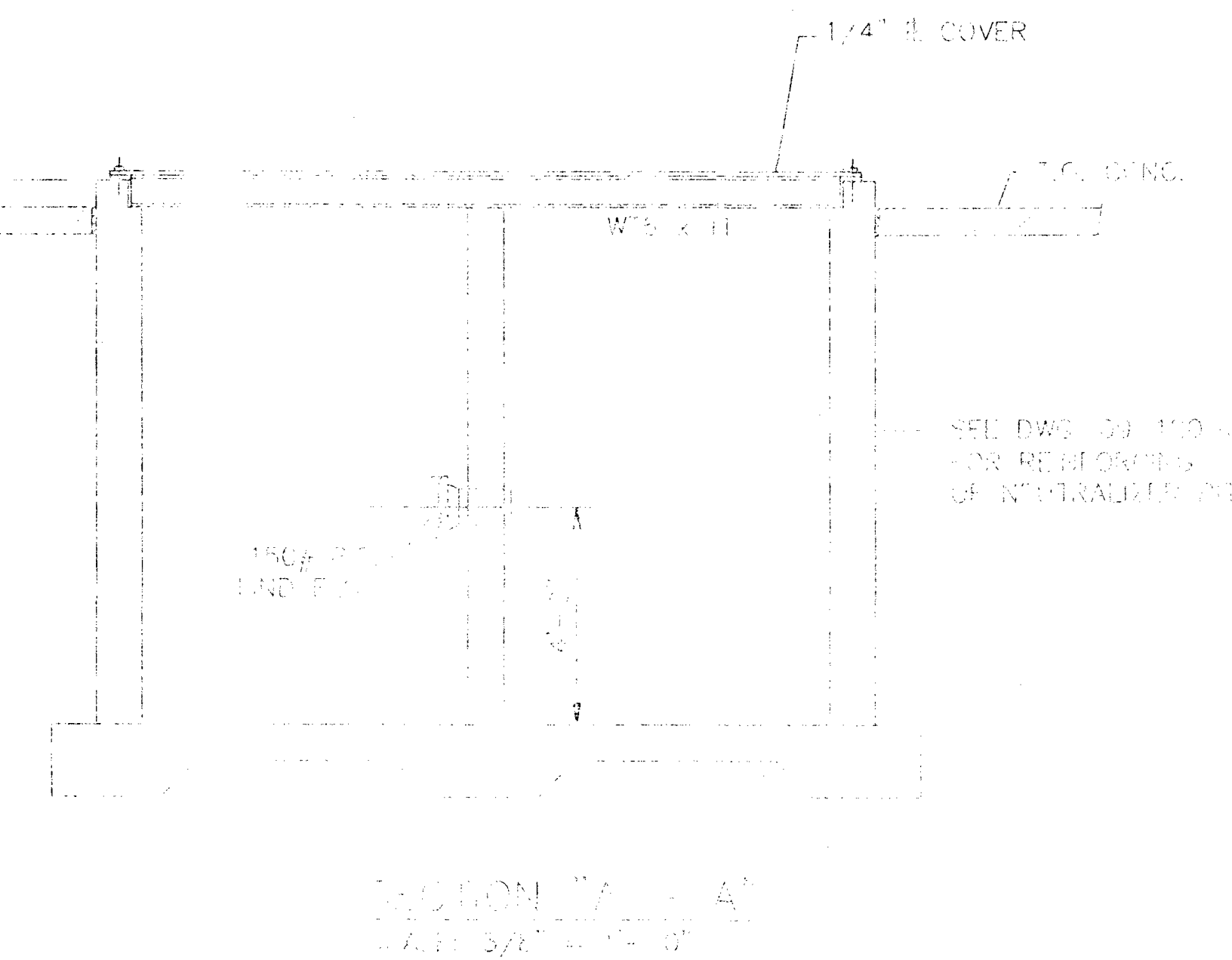


PLAN VIEW



BRACE DETAIL
2 REVD

I.O.G.
EL. 3365.50'



ELEVATION
SCALE: 3/4\"/>

NOTES

REFERENCE DRAWINGS
09-Z-10-D EQUIPMENT SITE PLAN
09-Z-10-D-4 FOUNDATION PLAN - SHEET 4 OF 4
09-120- NEUTRALIZER PIT - PLAN & ELEVATIONS

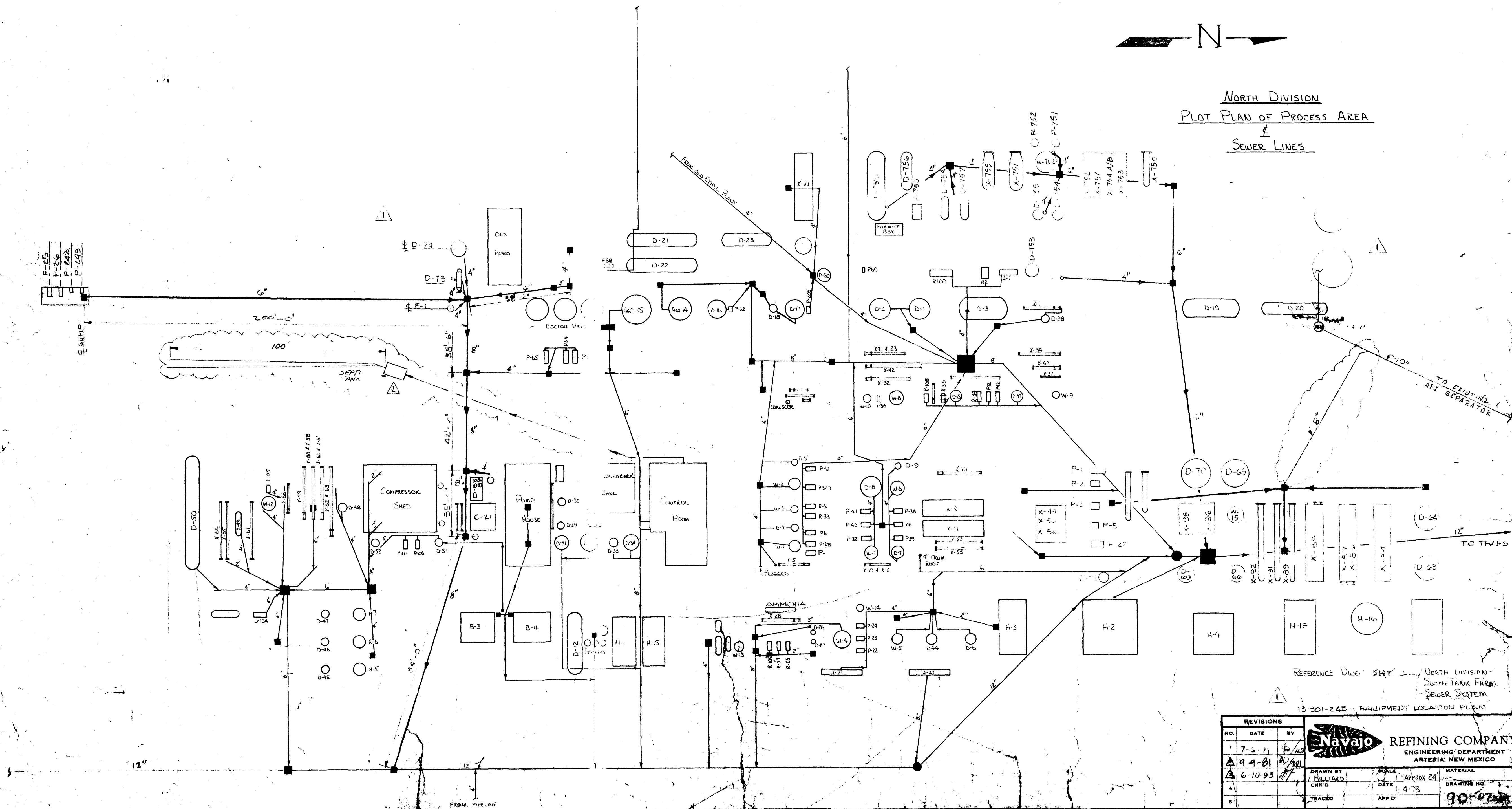
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1	REVISED PER NPL MODIFICATIONS					1	REVISED PER NPL MODIFICATIONS				
0	ISSUED FOR CONSTRUCTION					0	ISSUED FOR CONSTRUCTION				
A	ISSUED FOR REVIEW					A	ISSUED FOR REVIEW				

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWING ROOM
ARTESIA, NEW MEXICO

DRAWN BY S. ROCHA	DATE 03/10/91	APPROVED BY AS NOTED	REVISION NUMBER 09-121-D	REV 2
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NORTH DIVISION
PLOT PLAN OF PROCESS AREA
&
SEWER LINES

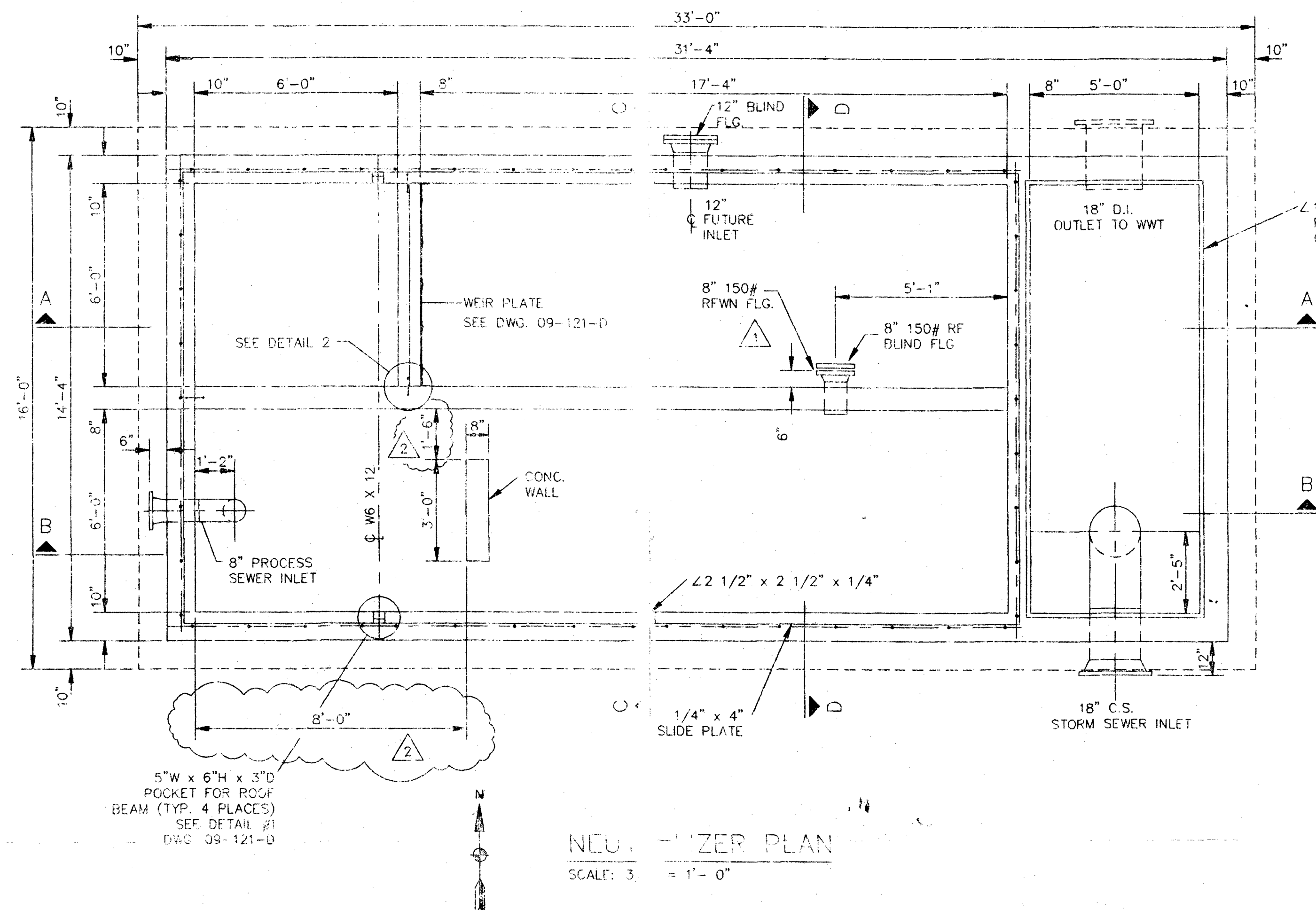


REFERENCE DWG. SHY 1 NORTH DIVISION
SOUTH TANK FARM
SEWER SYSTEM
13-301-245 - EQUIPMENT LOCATION PLAN

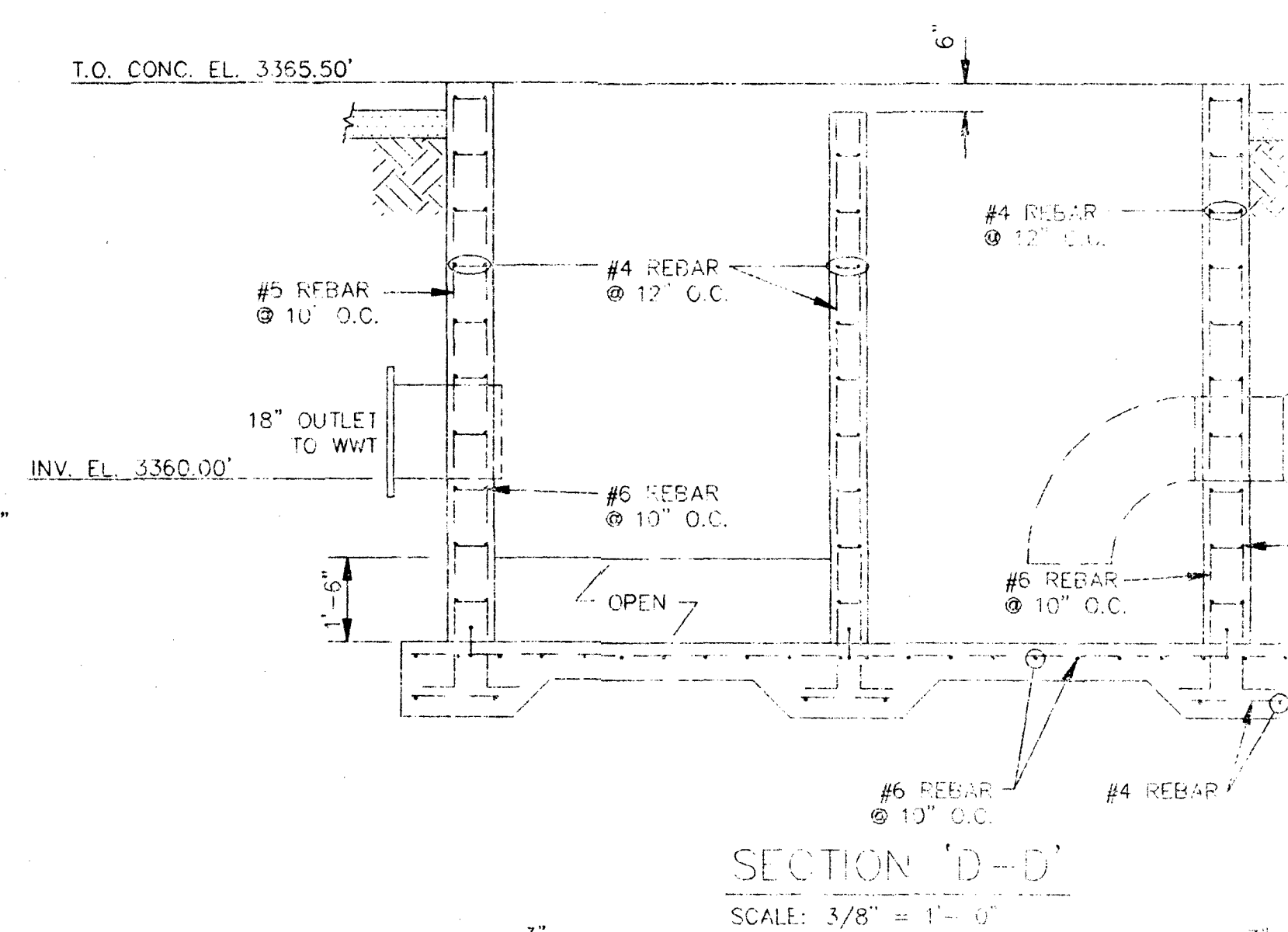
REVISIONS					DRAWN BY HILLIARD	DATE 1-4-73	SCALE AS SHOWN	MATERIAL
NO.	DATE	BY	REASON					
1	7-6-71	6/15						
2	9-9-81	6/15						
3	6-10-93	6/15						

TRACED	APP'D	DRAWING NO. 90-73
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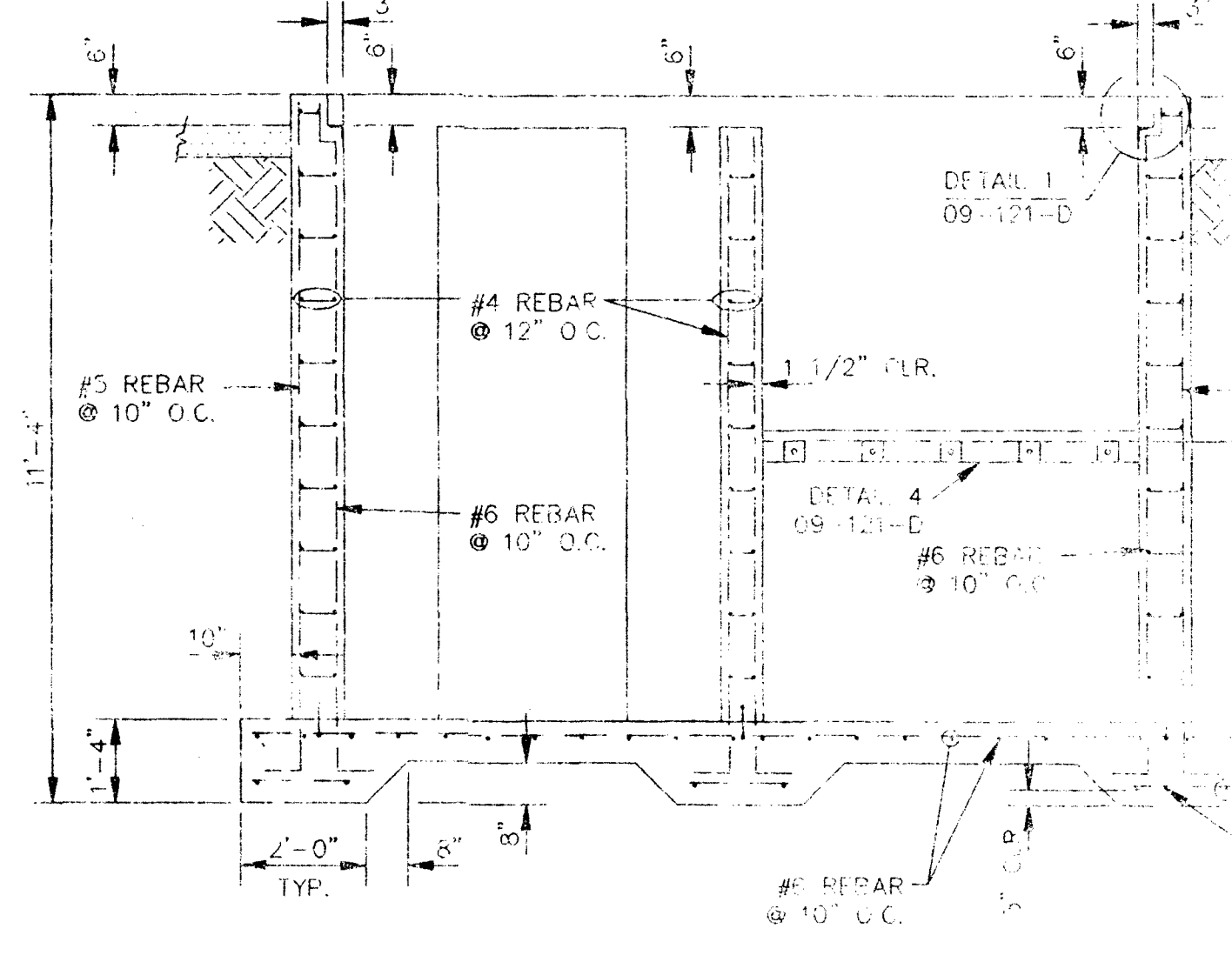
MAY 15 2002



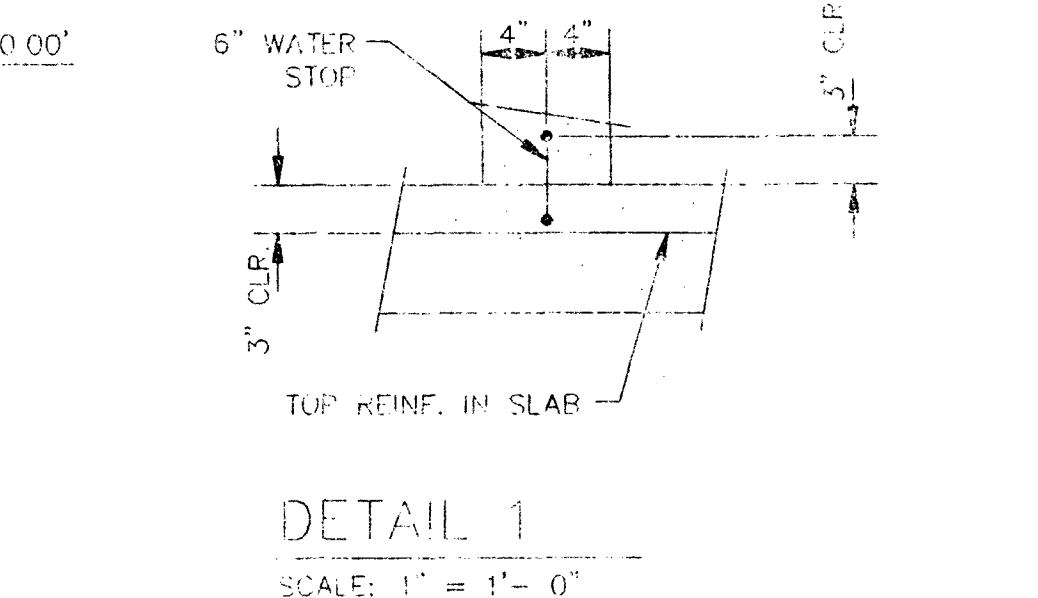
NEUTRALIZER PLAN
SCALE: 3/8" = 1'-0"



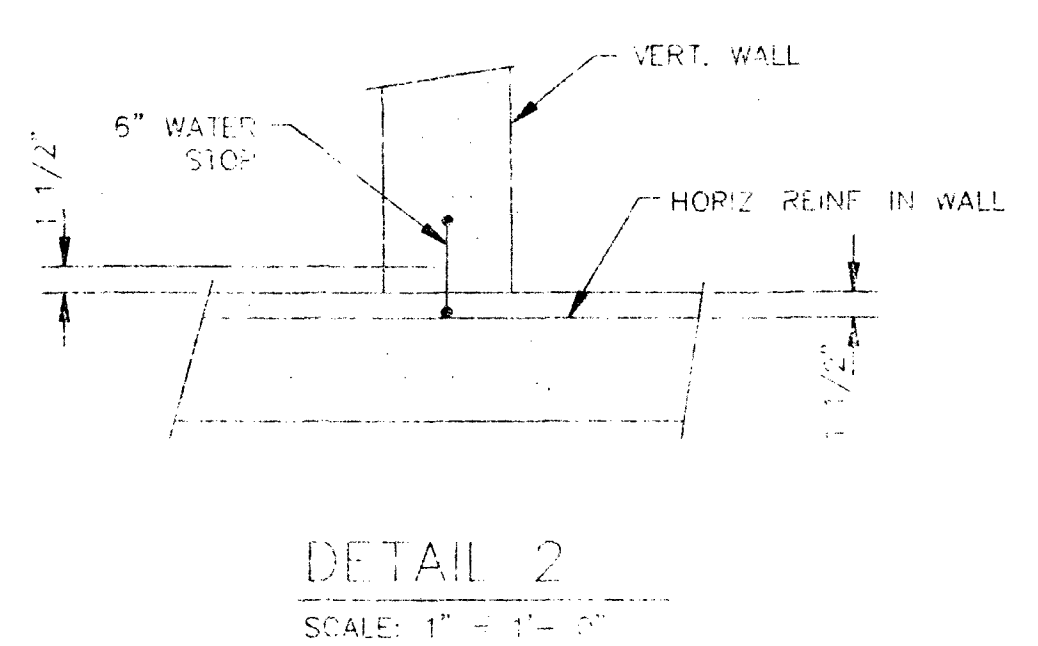
SECTION 'D-D'
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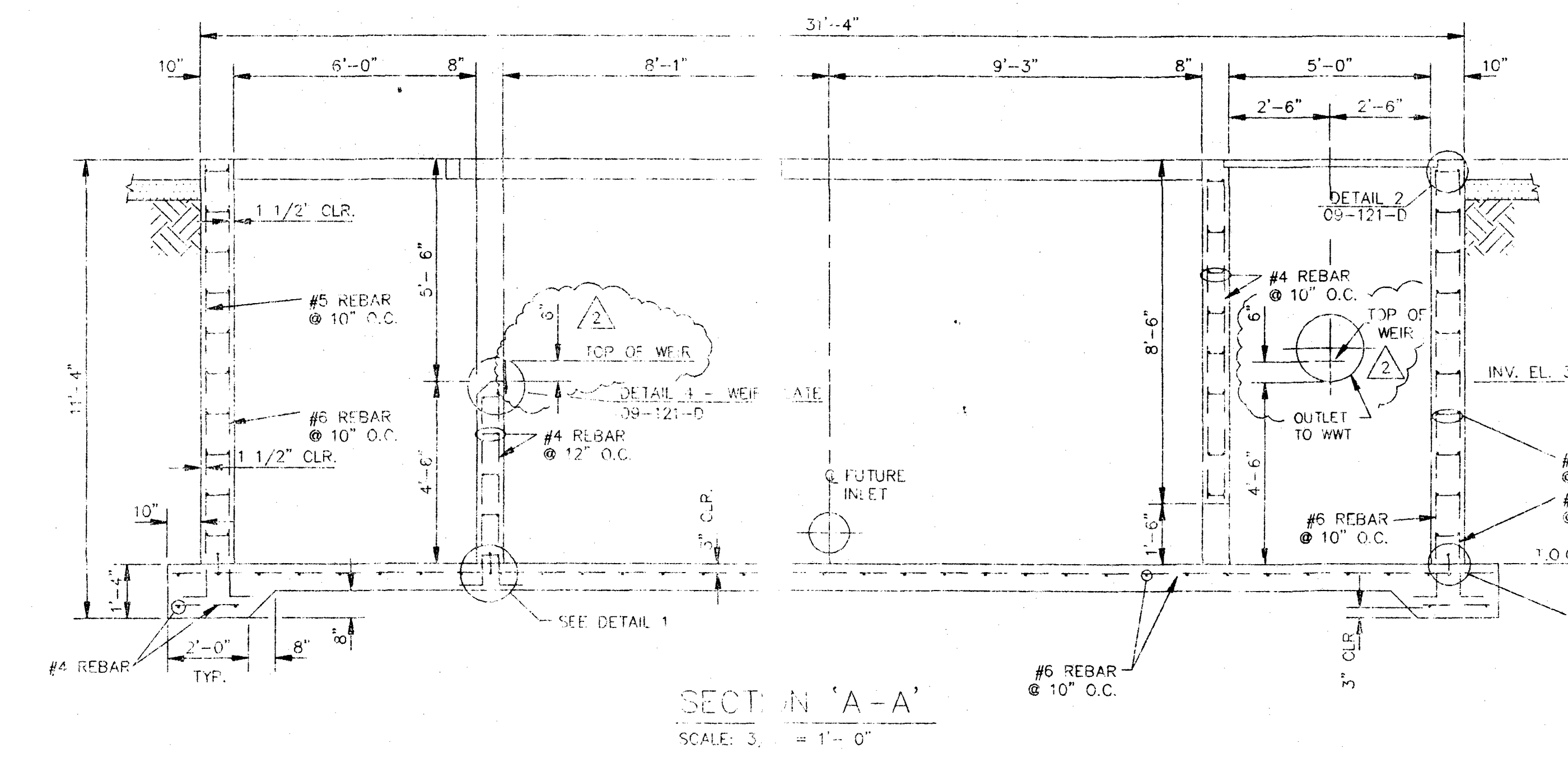
SECTION 'C-C'
SCALE: 3/8" = 1'-0"



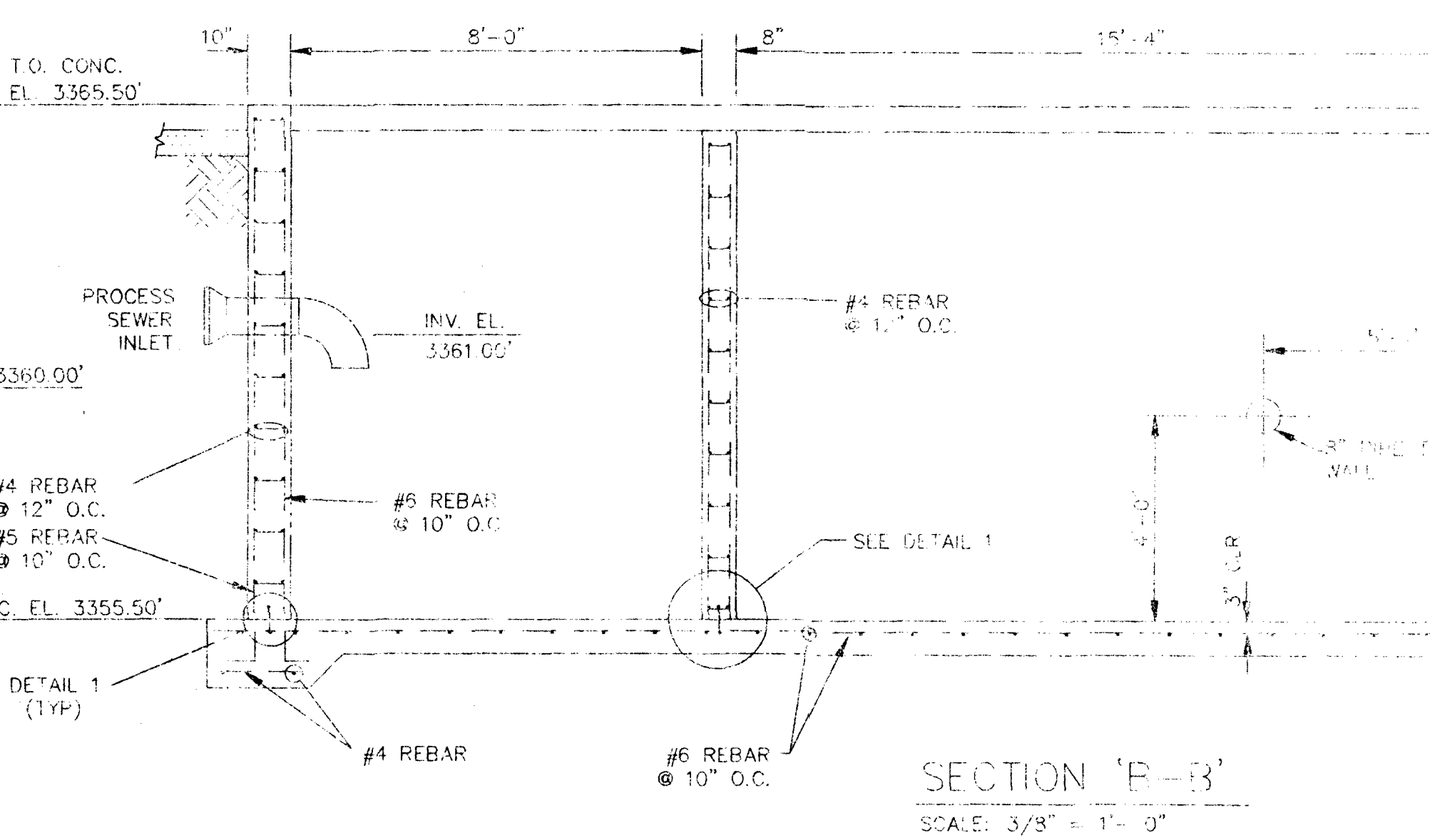
DETAIL 1
SCALE: 1" = 1'-0"



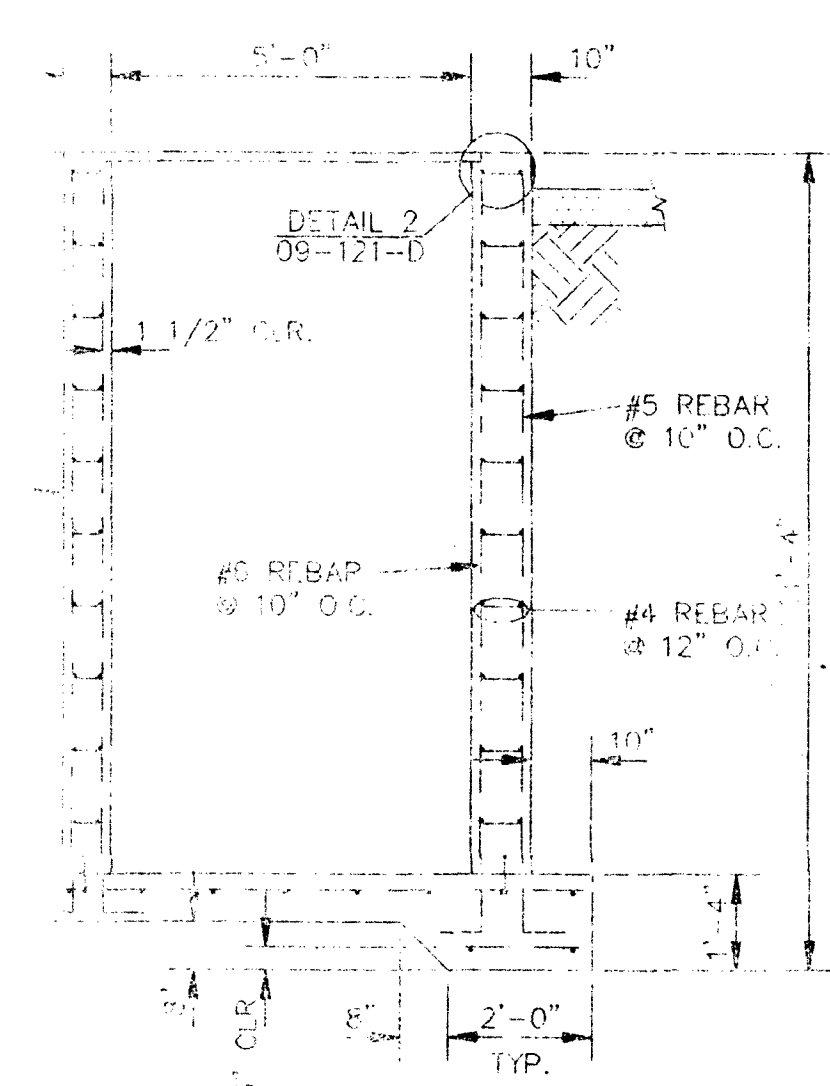
DETAIL 2
SCALE: 1" = 1'-0"



SECTION 'A-A'
SCALE: 3/8" = 1'-0"



SECTION 'B-B'
SCALE: 3/8" = 1'-0"



NOTES	REFERENCE	DRAWINGS	NO.	REVISIONS	BY	CHK	DATE	APPROV.	NO.	REVISIONS	BY	CHK	DATE	APPROV.
		09-Z-100-D	EQUIPMENT SITE PLAN											
		09-Z-100-4	FOUNDATION PLAN											
		09-Z-100-5	SEWER PLAN											
		09-121-D	NEUTRALIZER PIT - DETAILS											
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS. 2. ALL REINFORCING BARS SHALL BE AS PER DESIGNATION ASTM A-615, GRADE 60. 3. BASIN SHALL BE COATED WITH A 2-PART H.F. ACID RESISTANT EPOXY AT A THICKNESS OF 5 MILS.		09-E-100-D	ELECTRICAL POWER PLAN											
				2	REVISED PER NPL						BHR	NPL	10/29/90	
				1	REVISED PER NPL						BHR	NPL	10/29/90	
				0	ISSUED FOR CONSTRUCTION						IAK		4/91	
				A	ISSUED FOR REVIEW						RYMM		3/51	

100%
REINFORCEMENT UNIT
PROTECTION

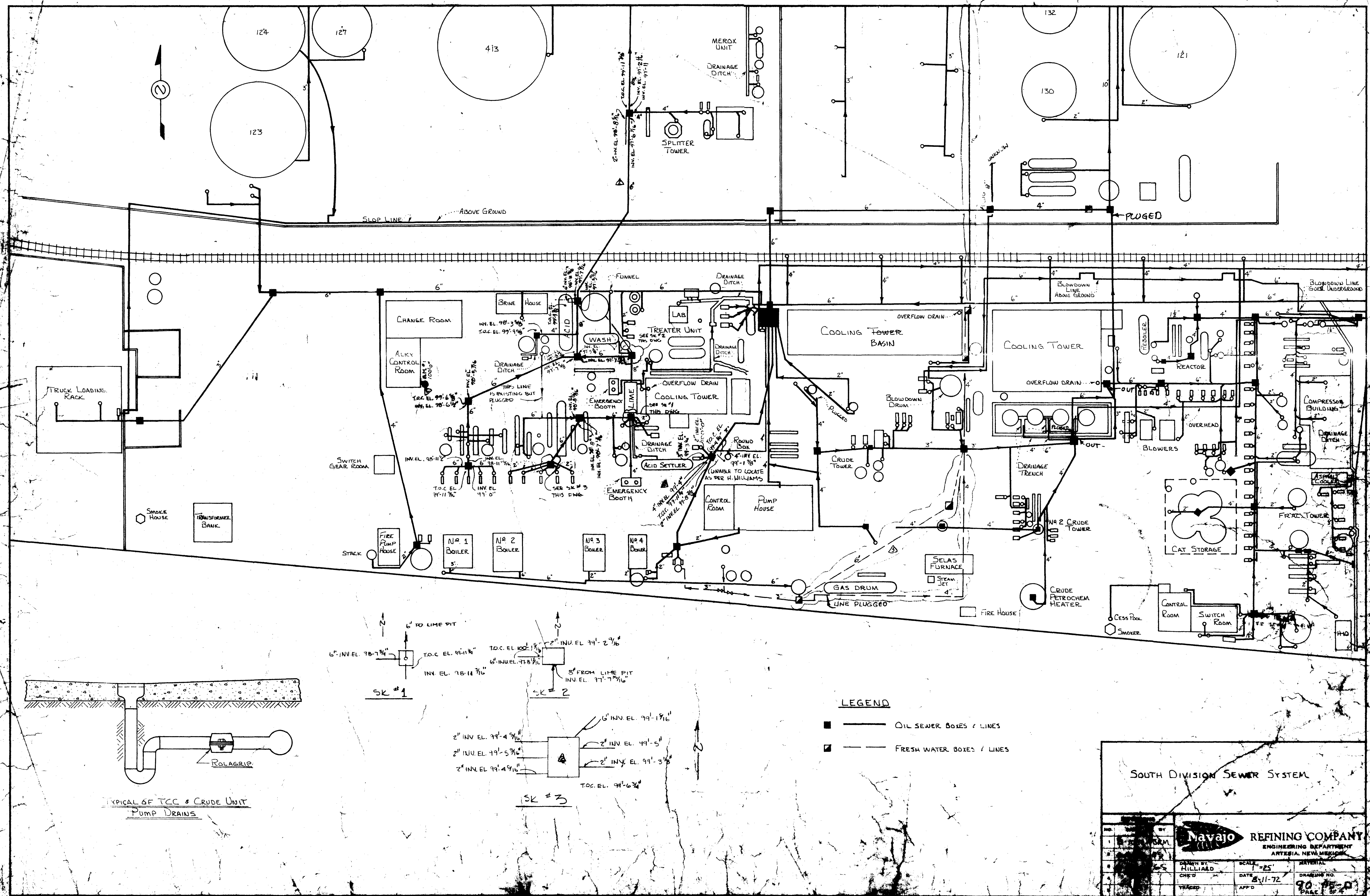
NOT REINFORCED
PLAIN CONCRETE

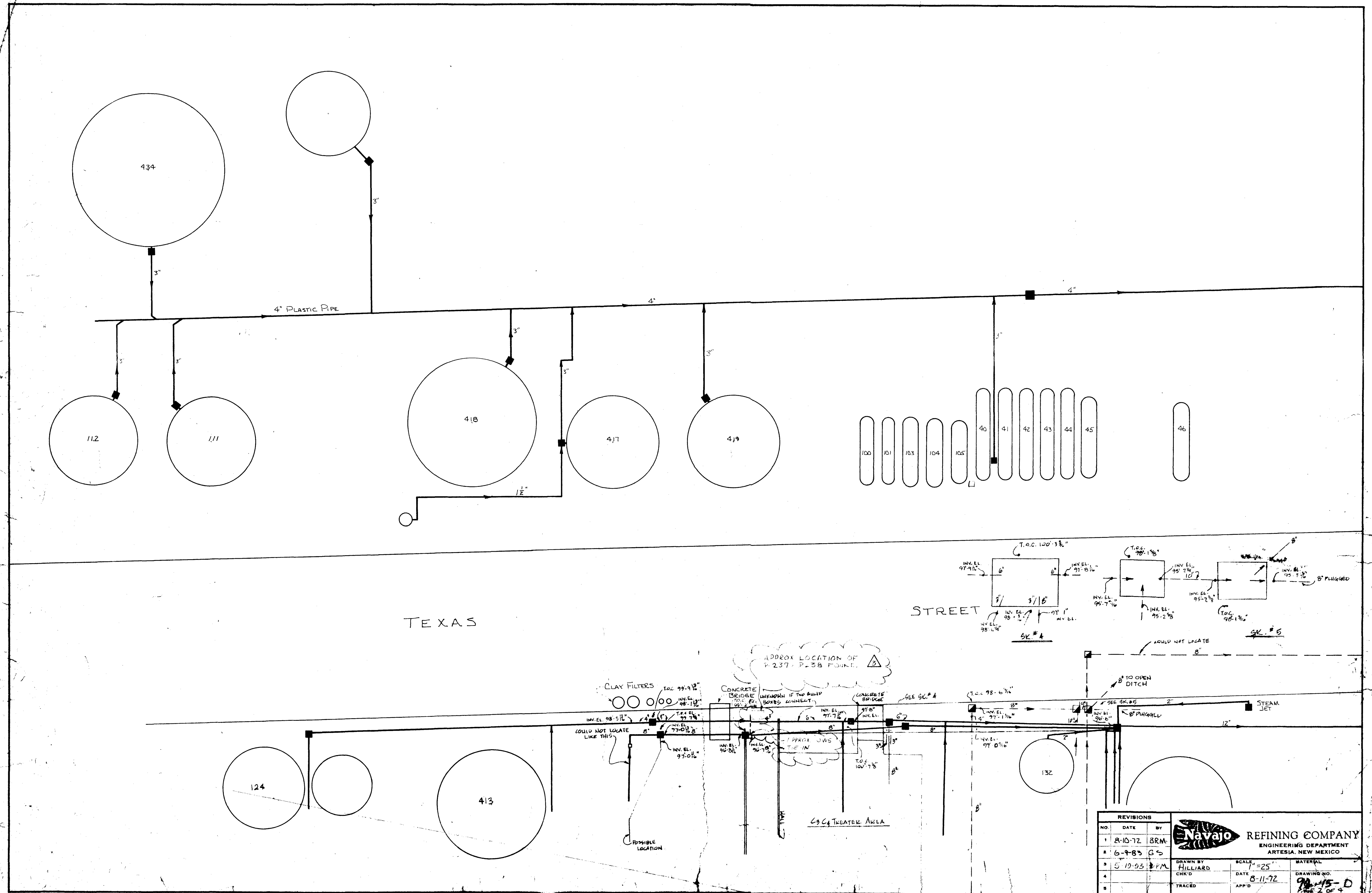
10/29/90

10/29/90

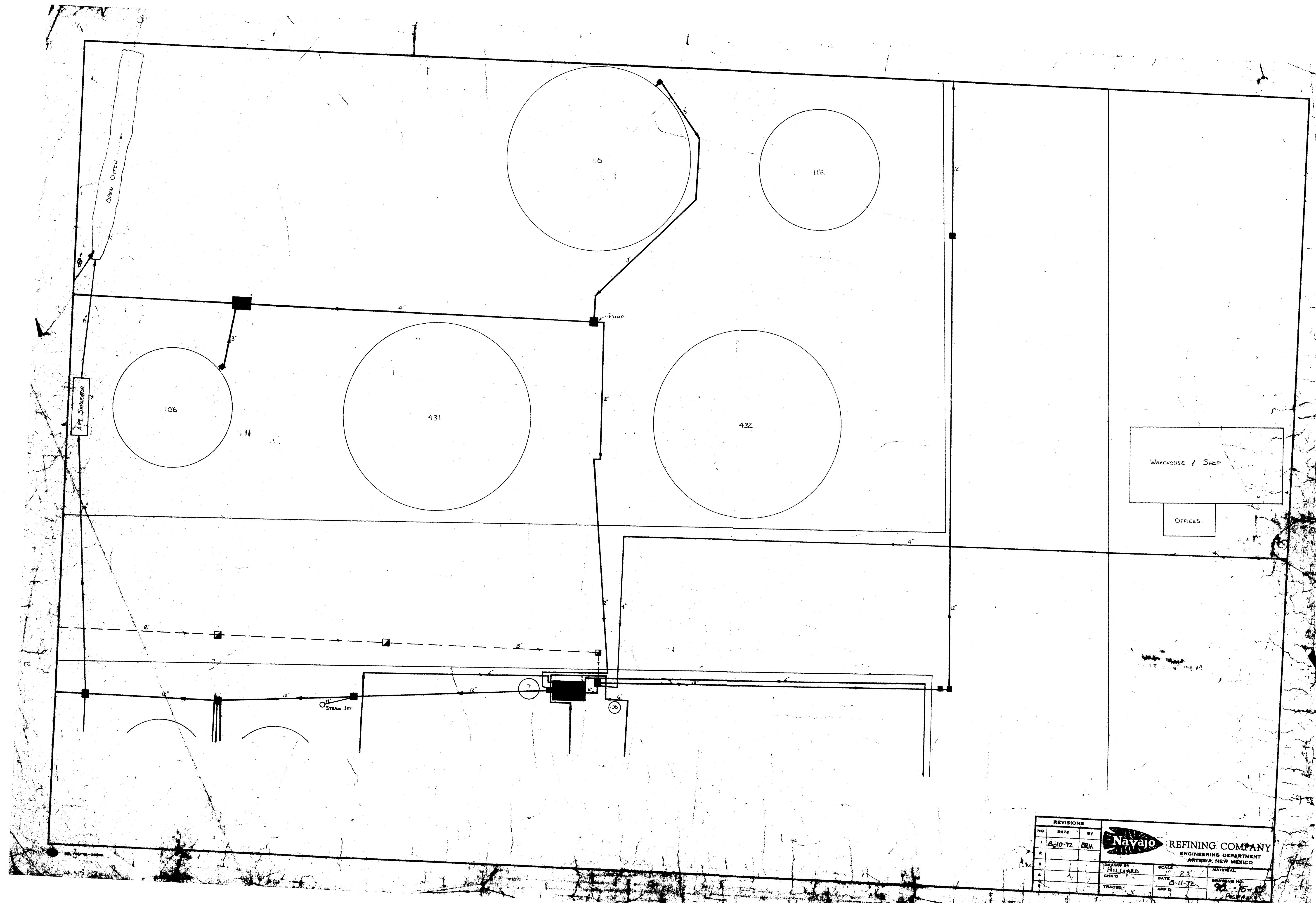
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MAY 15 2002





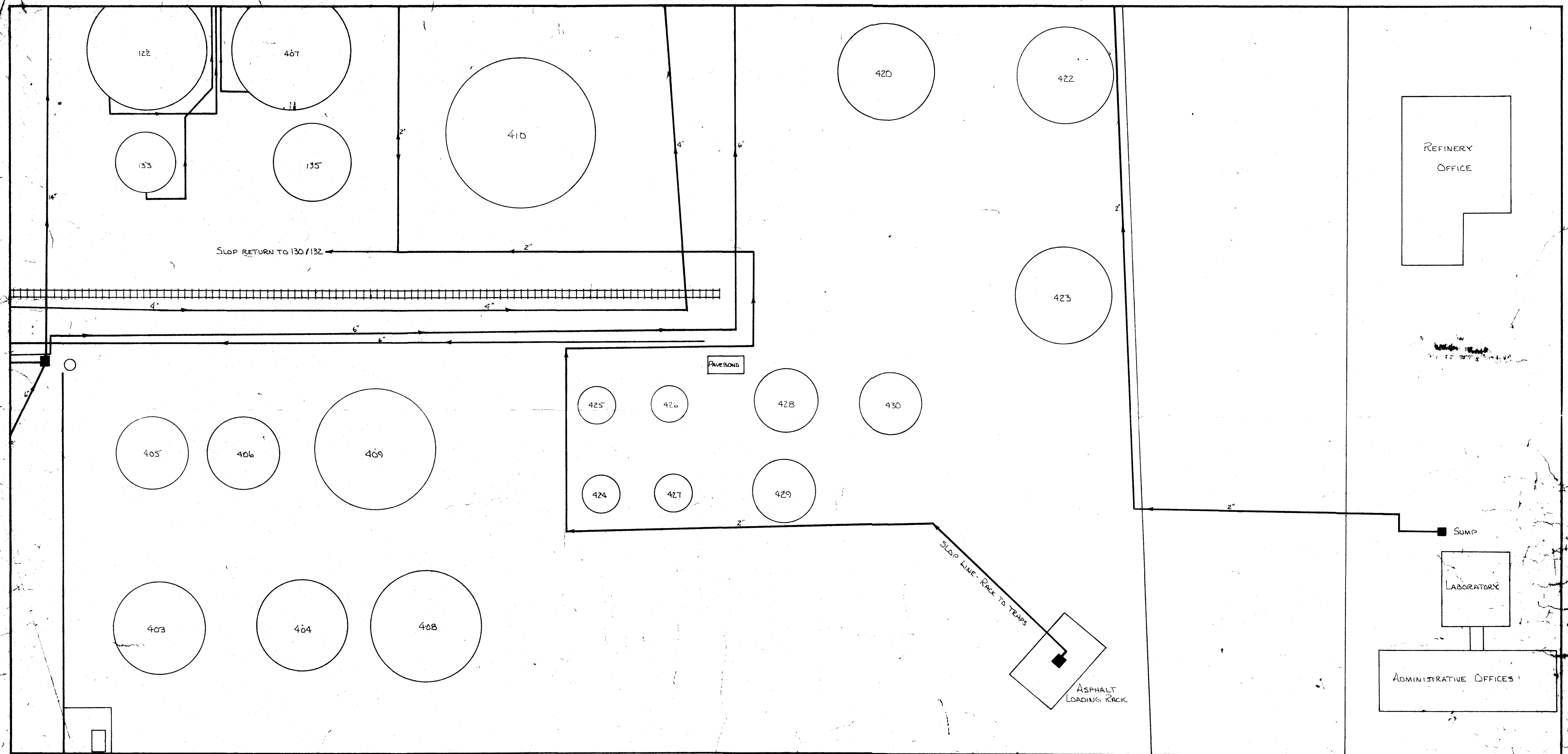
REVISIONS			Navajo REFINING COMPANY ENGINEERING DEPARTMENT ARTESIA, NEW MEXICO		
NO.	DATE	BY	DRAWN BY	SCALE	MATERIAL
1	8-10-72	BRM	HILLIARD	1"=25'	
2	6-9-83	GS	DATE	8-11-72	DRAWING NO.
3	5-12-93	JPM	CHK'D		98-115-D
4			APP'D		PAGE 2 OF 4
5			TRACED		



REVISIONS			DRAWN BY	SCALE	DATE	MATERIAL
NO.	DATE	BY				
1	8-10-72	GRM	HILLARD	1" = 25'	8-11-72	
2						
3						
4						
5						

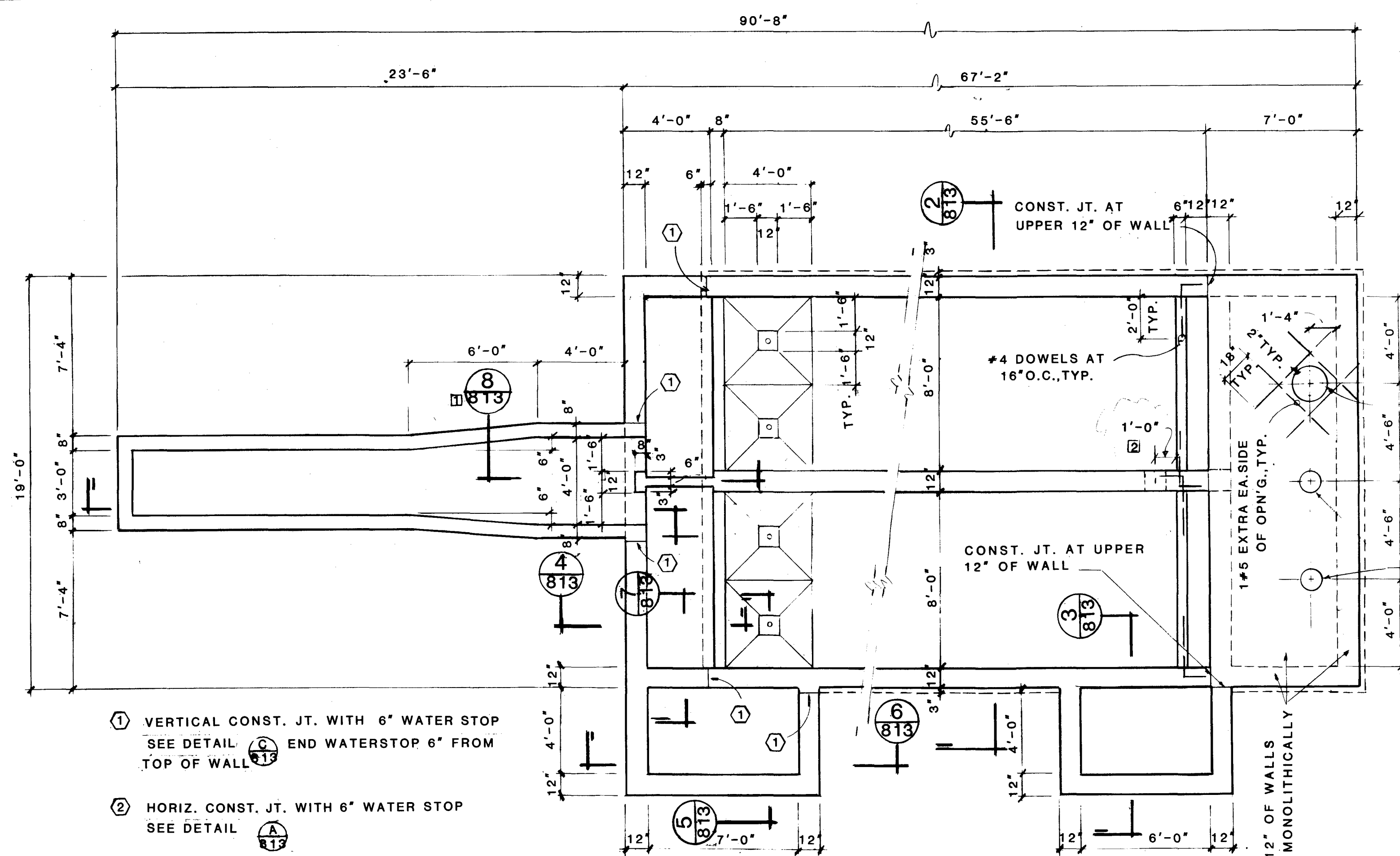
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTERIA, NEW MEXICO

DRAWING NO. 90-15-10
DATE 8-11-72
APP'D



REVISIONS			 Navajo REFINING COMPANY ENGINEERING DEPARTMENT ARTESIA, NEW MEXICO		
NO.	DATE	BY			
1	8-10-72	BRM	DESIGNED BY	SCALE	DRAWN BY
2			CHIC	1"=25'	9023
3			DATE	APPROVED	
4			TRACED		
5					

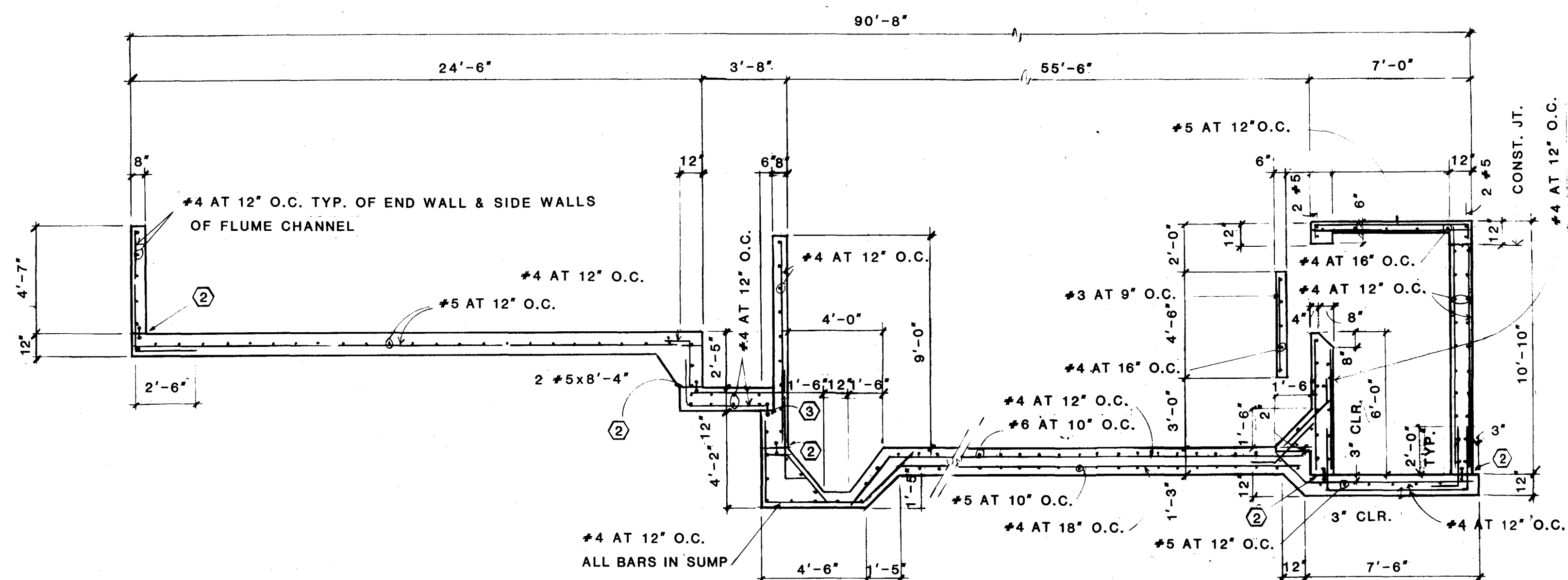
MAY 13 1973



PLAN

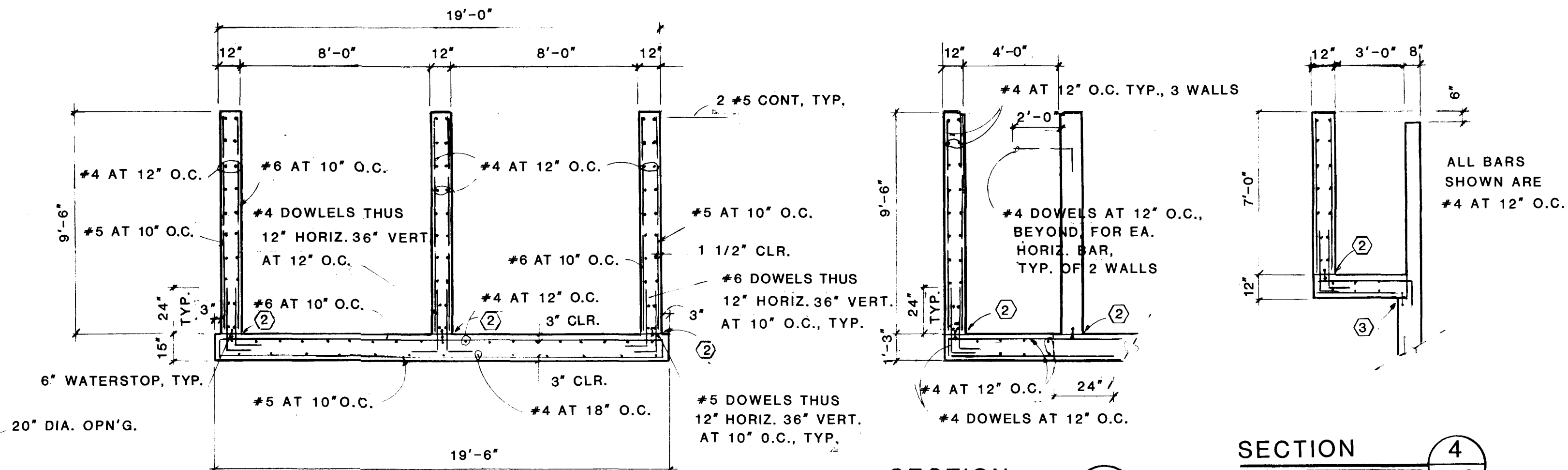
SCALE: 1/4" = 1'-0"

- ① VERTICAL CONST. JT. WITH 6" WATER STOP
SEE DETAIL  END WATERSTOP 6" FROM
TOP OF WALL
- ② HORIZ. CONST. JT. WITH 6" WATER STOP
SEE DETAIL 
- ③ SPECIAL HORIZ. CONST. JT. WITH 6" WATER STOP
SEE DETAIL 



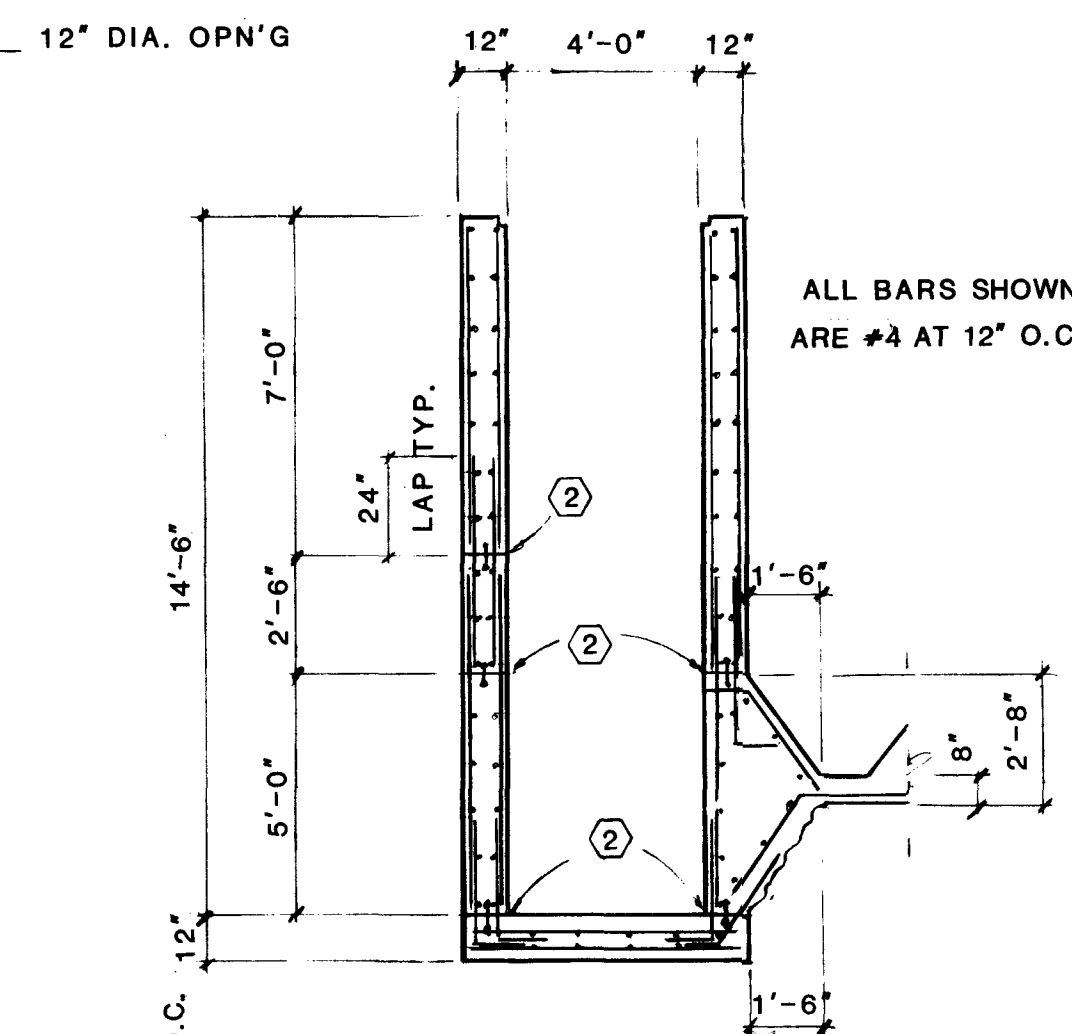
SECTION

SCALE: 1/4" = 1'-0" 813



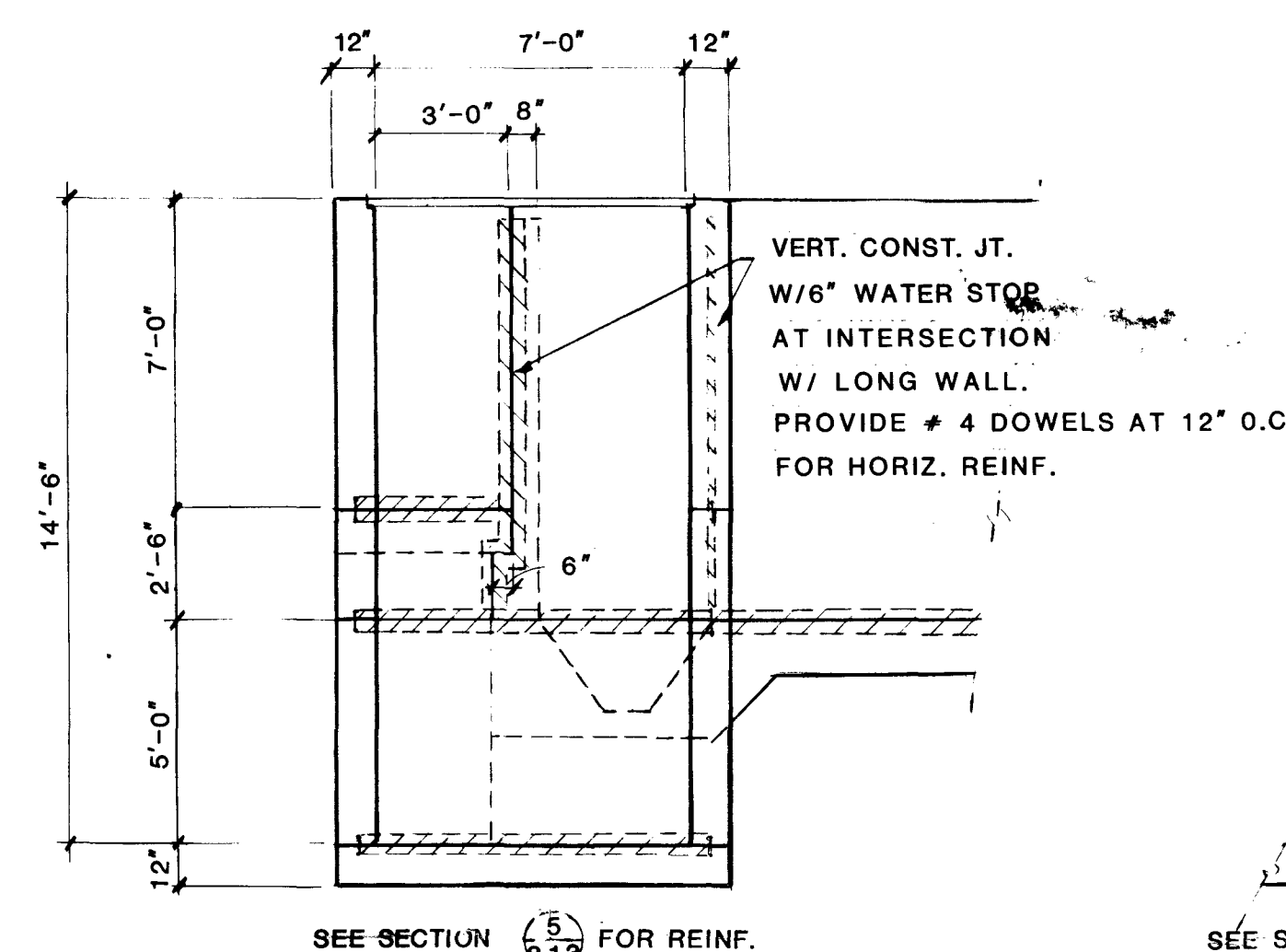
SECTION

SCALE 1/4" 1'-0" 813



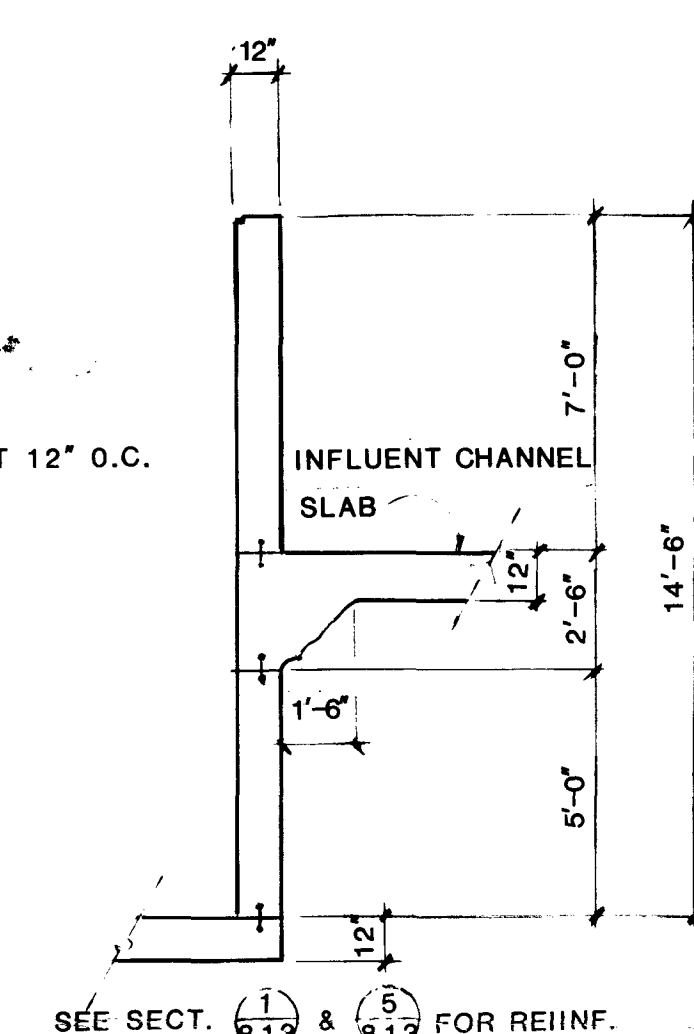
SECTION

SCALE: 1/4" = 1'-0"



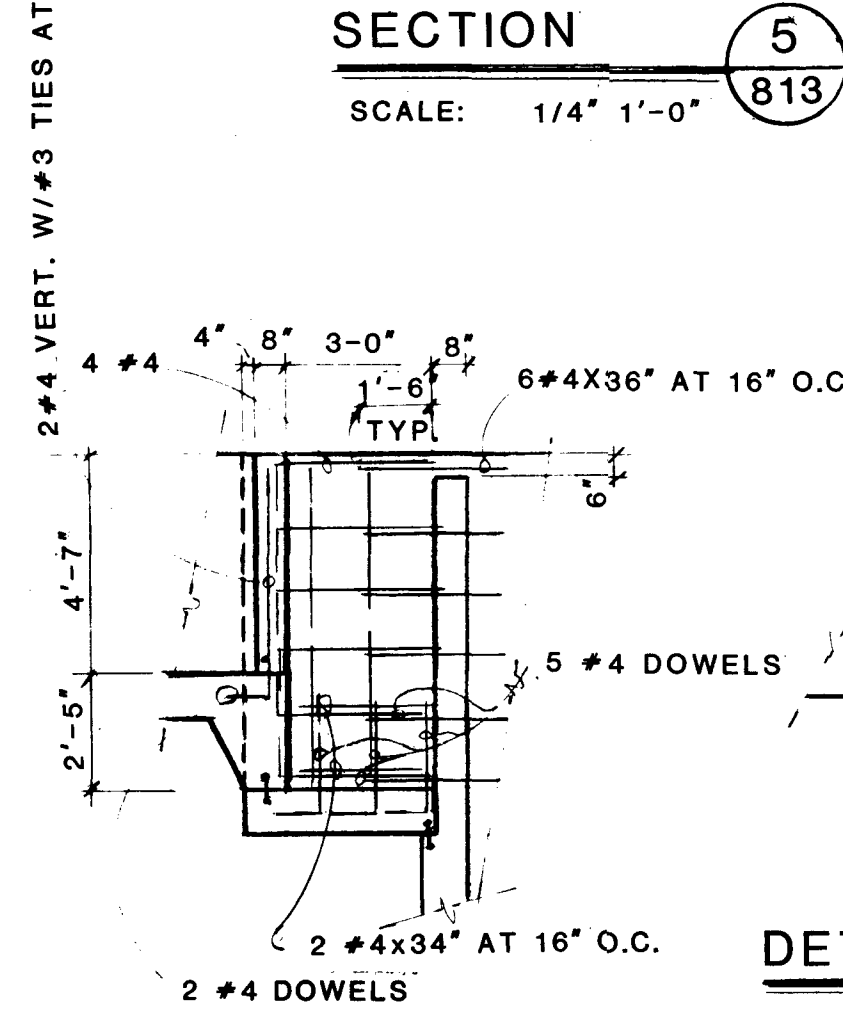
SECTION

SCALE: 1/4" = 1'-0" 81



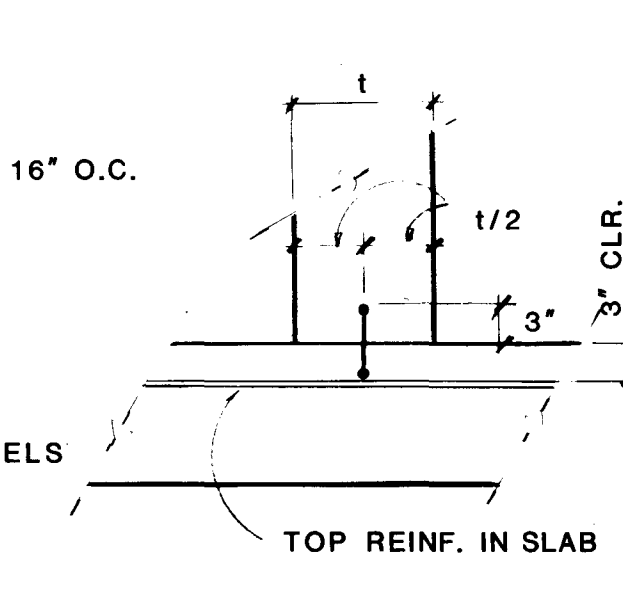
SECTION

SCALE: 1/4" = 1'-0" 813



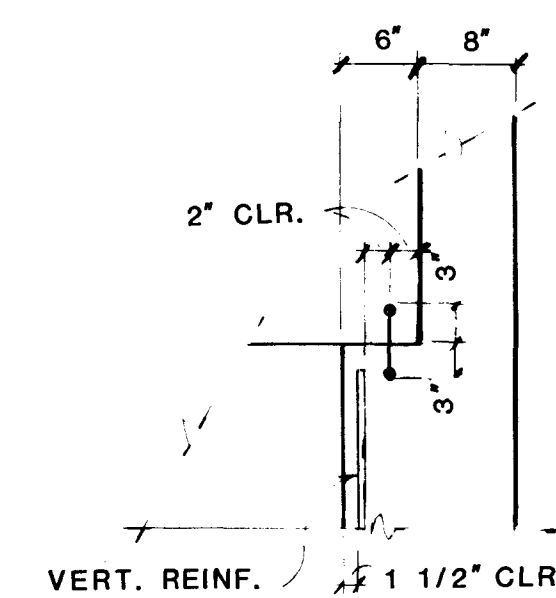
SECTION

SCALE: 1/4" = 1'-0" 813



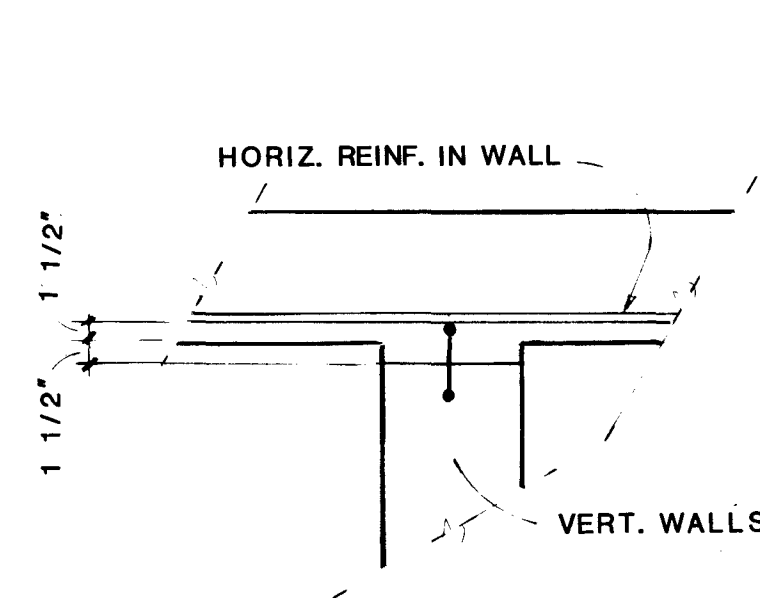
DETAIL

SCALE: 3/4" 1'-0" 813



DETAIL

SCALE: 3/4" 1'-0" 813



DETAIL

SCALE: 3/4" 1'-0" 813

NOTES

1. SEE "MISCELLANEOUS DETAILS" SHEET 815 FOR EXTRA
CORNER REINFORCEMENT REQUIREMENTS AND
GENERAL NOTES

2. WATER STOPS ARE REQUIRED ON ALL CONSTRUCTION JOINTS

REFERENCE DRAWINGS

808 - PLANT PROCESS PIPING SOUTH
812 - API SEPARATOR
815 - MISCELLANEOUS DETAILS

[illegible]

PRIMARY
WASTEWATER TRATMENT PLANT

API SEPARATOR STRUCTURAL



Parkhill, Smith & Cooper, Inc.
Engineers • Architects • Planners
810 E. Yandell, El Paso, Texas 79902



REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY RRM	CHK'D BY RWR	SCALE AS SHOWN
DATE 2/18/87	DATE 2/18/87	DRAWING NO. 80-1-D-2