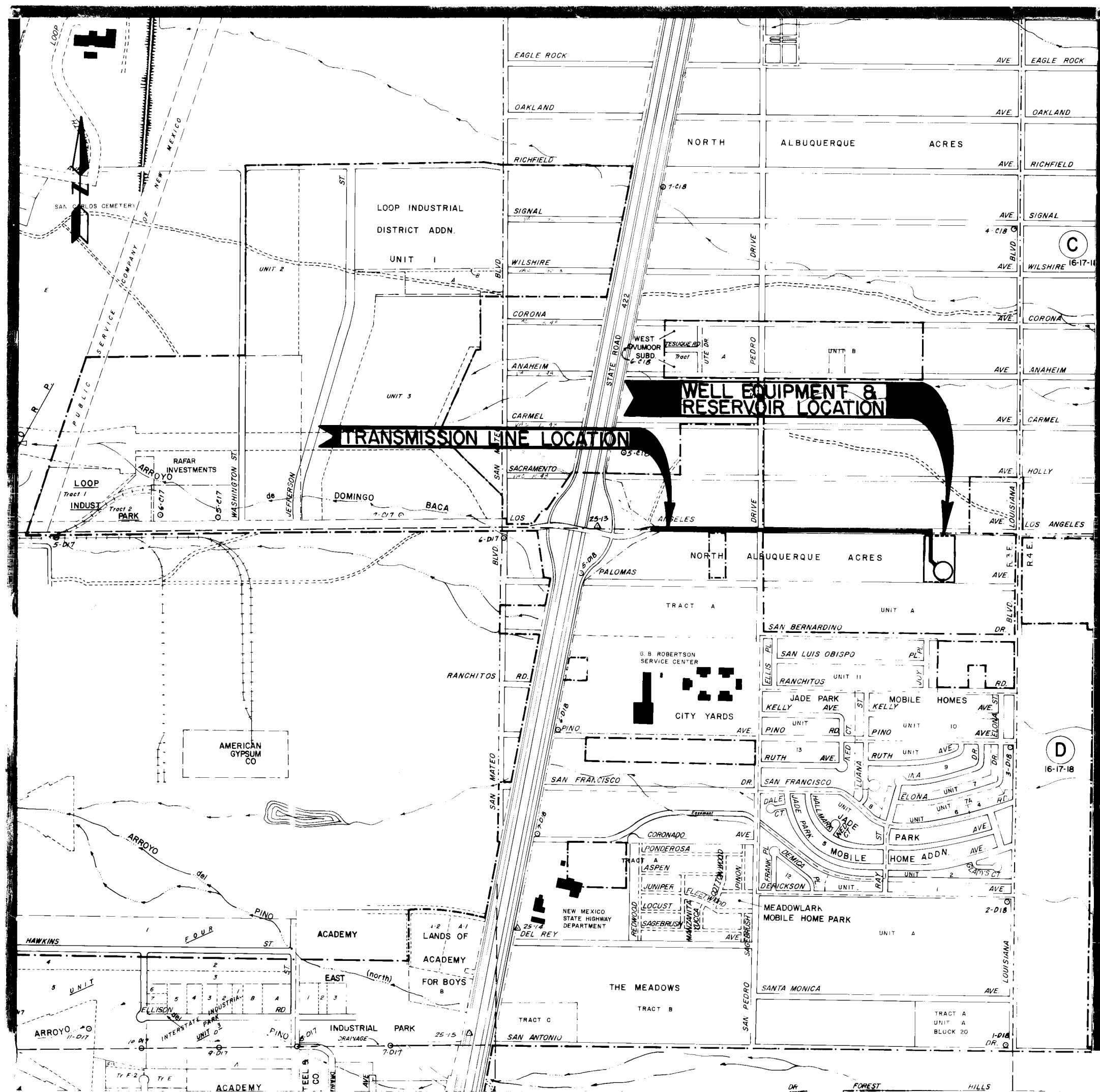




PROJECT VICINITY MAP
SCALE: 1" = .000'

CITY OF ALBUQUERQUE

CONSTRUCTION PLANS

OF

ZONE 2E ALAMEDA TRUNK FACILITIES

CORONADO RESERVOIR

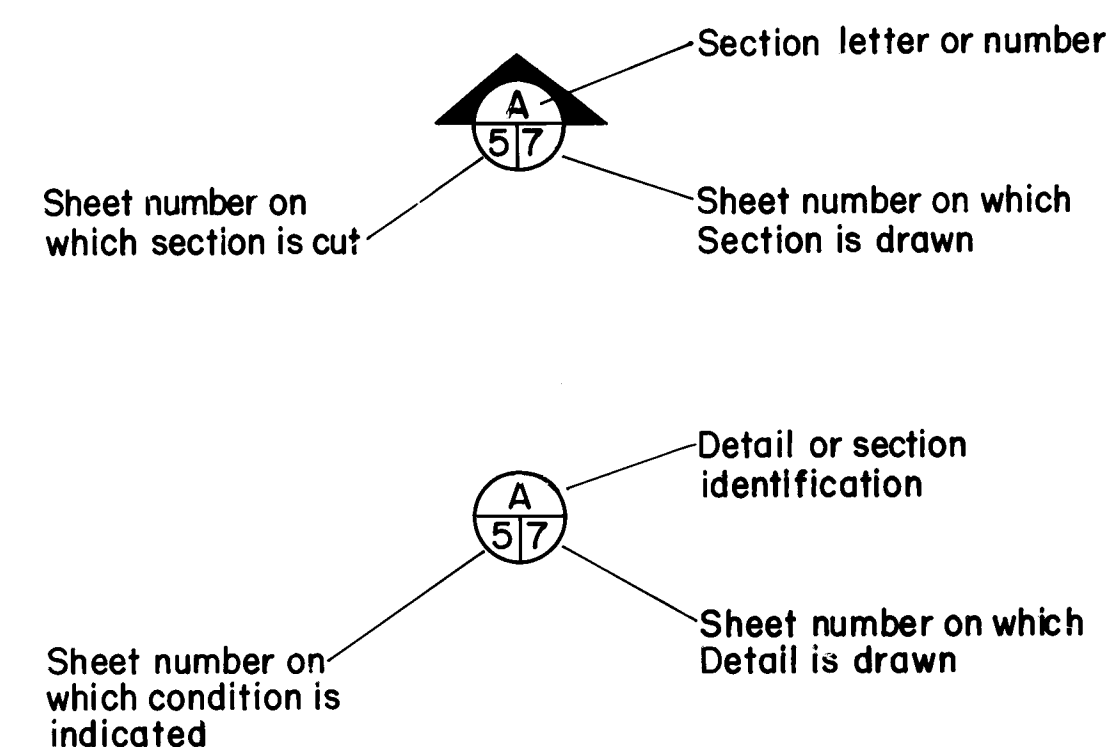
CORONADO NO. 1 WELL EQUIPMENT

WATER TRANSMISSION LINE

SHEET INDEX

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	SITE DEVELOPMENT PLAN
3.	GRADING AND PAVING PLAN
4.	LANDSCAPING PLAN
5.	IRRIGATION PLAN
6. & 6A.	STA. 0+20.53 TO STA. 12+00.00 - 36" W.L.
7.	STA. 12+00.00 TO STA. 24+00.00 - 36" W.L.
8.	STA. 24+00.00 TO STA. 31+87.40
9.	PLAN & PROFILE - DRAIN LINE
10.	PLAN & PROFILE - SITE PIPING
11.	BYPASS VALVE PIT DETAILS
12.	BUILDING ELEVATIONS
13.	FOUNDATION PLAN
14.	WELL EQUIPMENT FLOOR AND PIPING PLAN
15.	WELL EQUIPMENT PIPING SCHEMATICS
16.	WELL EQUIPMENT DETAILS
17.	WELL EQUIPMENT DETAILS
18.	WELL EQUIPMENT DETAILS
19.	ROOF FRAMING PLAN
20.	TYPICAL WALL SECTIONS
21.	ENCLOSURE DETAILS
22.	BEAM DETAILS
23.	DOOR SECTIONS AND DETAILS
24.	RESERVOIR DETAILS
25.	RESERVOIR DETAILS
26.	RESERVOIR DETAILS
27.	RESERVOIR DETAILS
28.	RESERVOIR DETAILS
29.	CATHODIC PROTECTION DETAILS
30. & 30A.	DETOUR PLAN
31.	MECHANICAL AND EQUIPMENT PLAN
32.	ELECTRICAL PLAN
33.	ELECTRICAL DETAILS
34.	ELECTRICAL DETAILS

LEGEND



Approved For Construction

Gene Hight
Chief Utility Engineer

2/4/87
Date

JOB NO 42360

GENERAL NOTES

NOTICE TO CONTRACTORS

1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

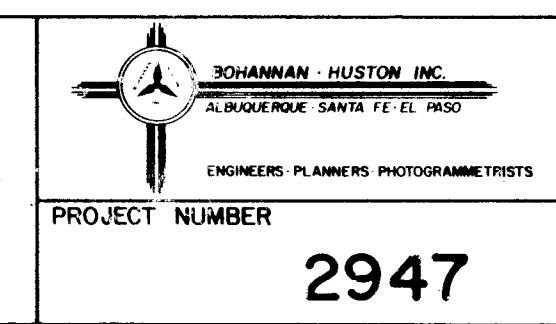
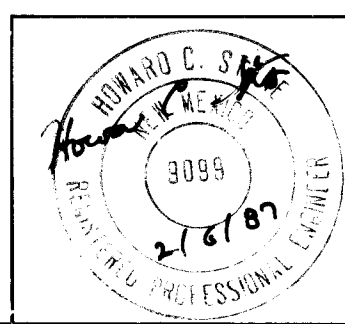
William D. Wade

26 2947 0188

DATE 6/7/88

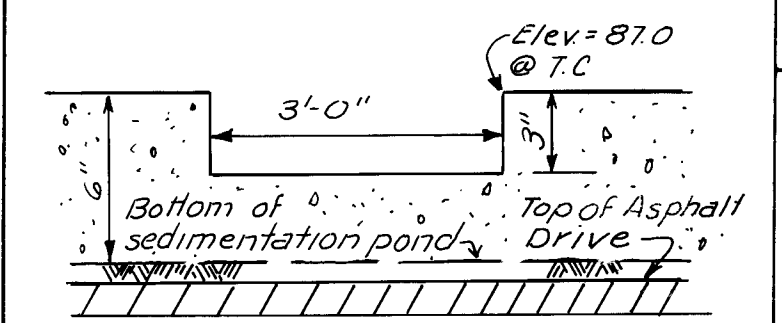
REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT	DATE	USER	DEPT	DATE
1	6, 7, 8								
2	12, 13, 14								
3	19, 20, 23, 30								

APPROVAL OF REVISION



APPROVED FOR CONSTRUCTION
PROJECT NUMBER 2947
SHEET 1 OF 34

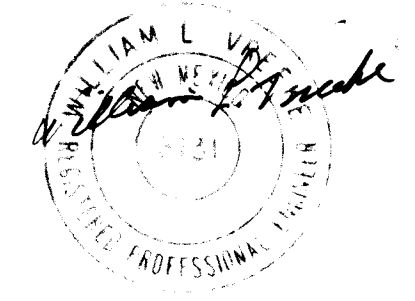
SCALE: 1" = 30'



**CURB OPENING
DETAIL A**

NOT TO SCALE

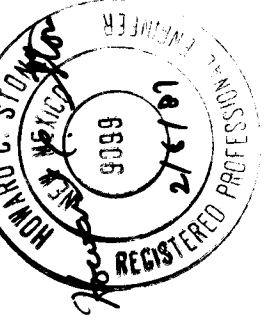
NOTE:
Pavement widths shown are
from face of curb.



RECORD DRAWINGS

DATE 6/7/88

LOCATION
The Project Location is Lots 11, 12, 21 & 22,
Unit A, Tract A, North Albuquerque Acres.
(Plat Filed Mar. 17, 1937)
Zone Atlas Sheet D-18-Z



 Project Boundary
 Direction of Drainage Arrow
 Drainline
 Sanitary Sewer Line
 Water Line
 Storm Drain
 Exist. Contour
 Proposed Contour
 Proposed Spot Elevation
 Exist. Spot Elevation
 Hydrant

SCALE: 1" = 30'



CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE:	ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE
--------	--

GRADING AND PAVING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO.	2947	MAP NO.	D-18	SHEET	3	OF	34
-------------	------	---------	------	-------	---	----	----

SECTION AT SEDIMENTATION POND C-C

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

26 2947 0388

JOB NO. 42360

LOUISIANA BLVD.

TRACT A-UNIT A
NORTH ALBUQUERQUE ACRES
(FILED MAR. 17, 1937)
(D-129)

PINUS SYLVESTRIS (25)
(24" BOX)

FRAXINUS VELUTINA 'MODESTO' (17)
(24" BOX)

FRAXINUS VELUTINA 'MODESTO' (10)
(24" BOX)

LOT 13

LOT 20

LAWN (TYP.)

PASEO DEL NORTE

CHRYSOTHAMUS NAUSEOSUS (12)
(5 GALLON)

CHRYSOTHAMUS NAUSEOSUS (9)
(5 GALLON)

CHRYSOTHAMUS NAUSEOSUS (5)
(5 GALLON)

Future Reservoir

New Reservoir

CHRYSOTHAMUS NAUSEOSUS (22)
(5 GALLON)

CHRYSOTHAMUS NAUSEOSUS (11)
(5 GALLON)

PINUS SYLVESTRIS (10)
(24" BOX)

Future Booster Station

Well House

NATIVE SEED (TYP.)

LONICERA JAPONICA 'HALLIANA' (50)
PARthenocissus quinquefolia (25)

LOT 10

LOT 23

Property Line

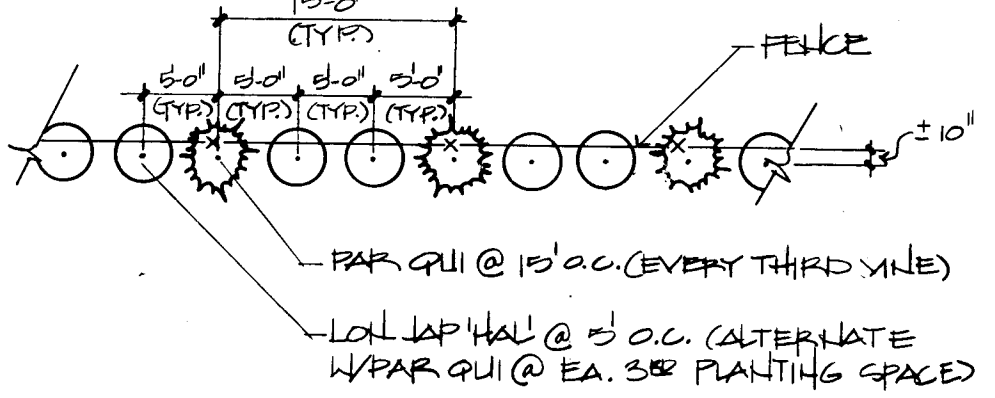
AVENUE

PALOMAS

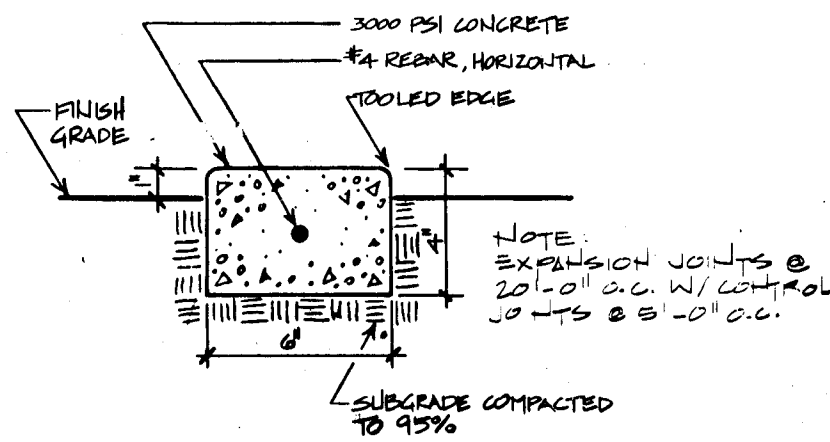
LOT 12

TRACT A-UNIT A
NORTH ALBUQUERQUE ACRES
(FILED MAR. 17, 1937)
(D-129)

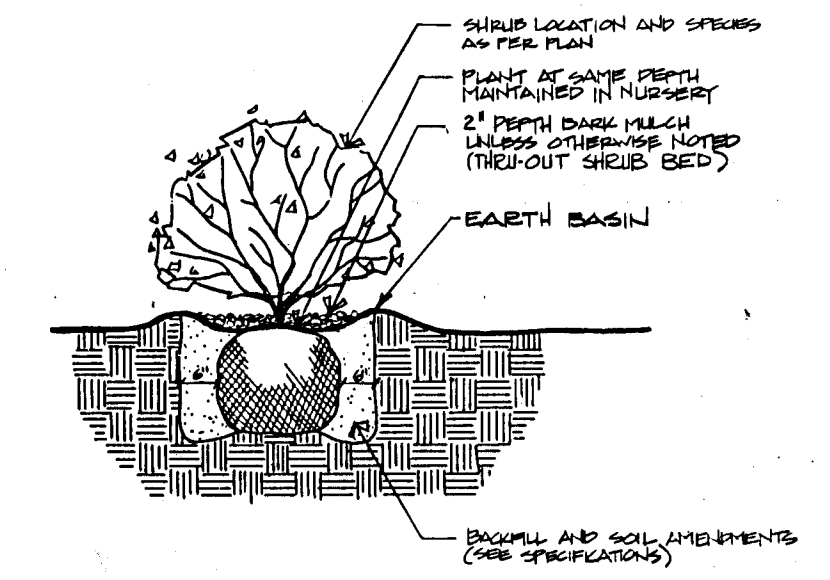
LOT 11



LONICERA JAPONICA 'HALLIANA' (50)
PARthenocissus quinquefolia (25)



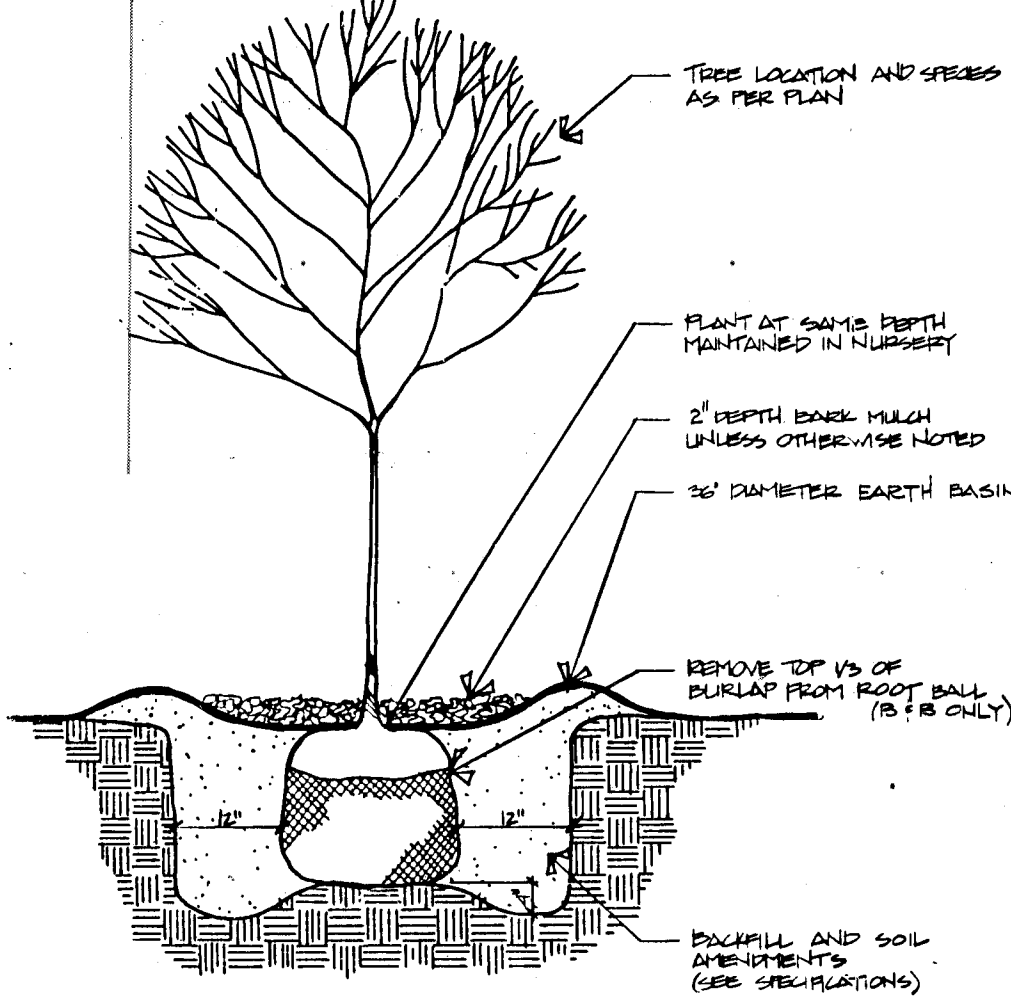
CONC. MONSTRIP (TYP.)



SHRUB PLANTING ON LEVEL

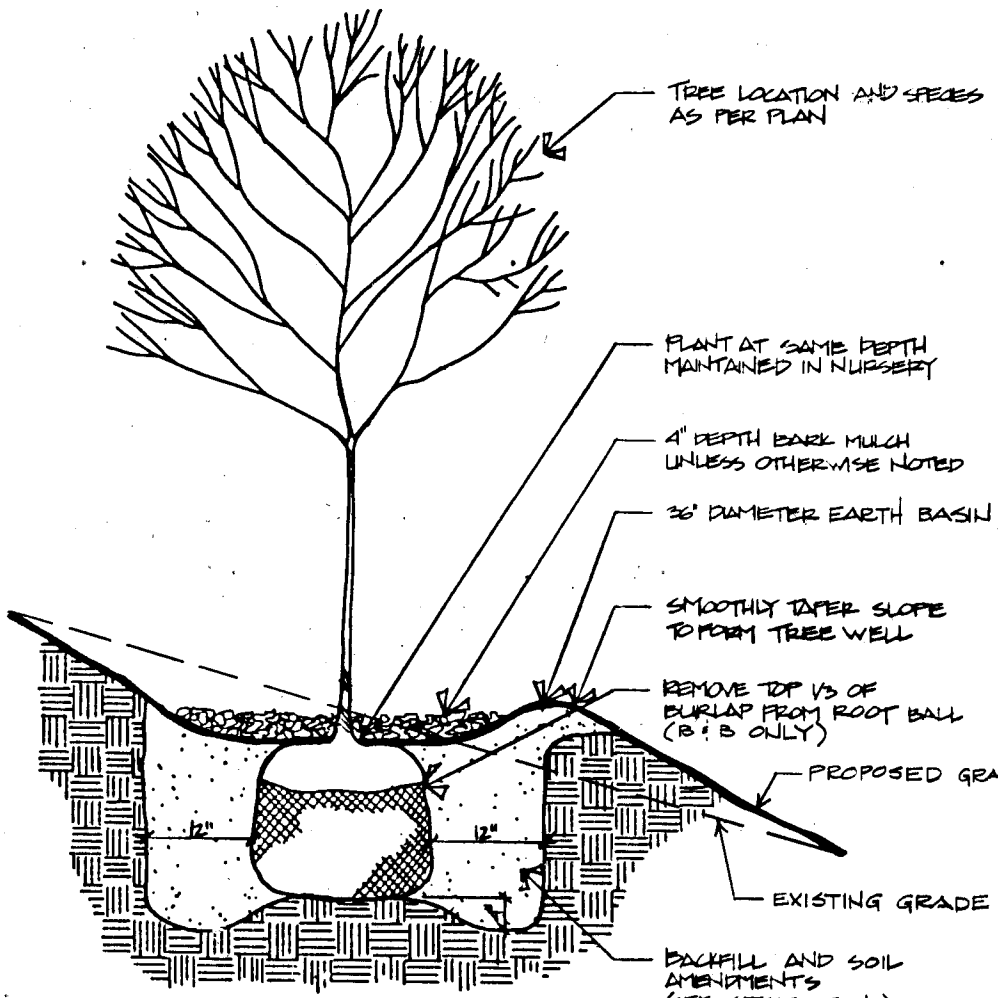
PLANT LEGEND

BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
TREES				
Fraxinus velutina 'Modesto'	Modesto Ash	27	24" box	2" cal. 12'-14' ht., 4" min. spread
Pinus sylvestris	Scotch Pine	35	24" box	8'-10' ht.
SHRUBS				
Chrysothamnus nauseosus	Rubber Rabbitbrush	59	5 gallon	2'-3' ht. and 6'-10" o.c.
VINES				
Lonicera japonica 'Halliana'	Hall's Honeysuckle	50	1 gallon	Min. 4 stems of 12" min. length
Parthenocissus quinquefolia	Virginia Creeper	25	1 gallon	Min. 4 stems of 12" min. length
GROUNDCOVERS				
NATIVE SEED MIX				
Bouteloua curtipendula	Sideoats Grama	91,025 SF		5 lbs PLS/acre at 1/2" depth
Eragrostis lehmanniana	Lehmann Lovegrass			5 lbs PLS/acre at 1/2" depth
Oryzopsis hymenoides	Indian Ricegrass			2 lbs PLS/acre at 4" depth
Sporobolus cryptandrus	Sand Dropseed			2 lbs/acre at 1/2" depth
Wildflowers: Plants of the Southwest #4000 Desert Mix				2 lbs/acre at 1/2" depth
SEED LAWN				
Festuca 'Falcon'	Falcon Fescue	24,249 SF		Seed at 125 lbs/acre with equal amounts of each
Lolium perenne 'Manhattan'	Manhattan Perennial Rye			
Festuca 'Rebel'	Rebel Fescue			
Poa pratensis 'Adelphi'				

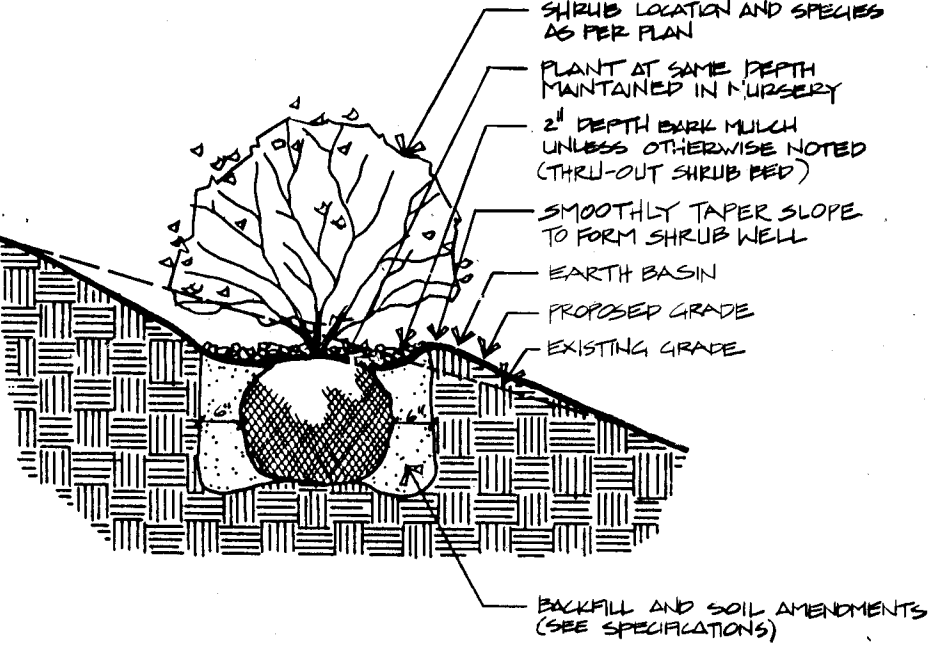


PLANTING ON LEVEL

TREE PLANTING



PLANTING ON SLOPE



SHRUB PLANTING ON SLOPE

PLANTING NOTES

- Where plans call for vines to be planted next to a fence, vines shall be planted inside fence + 12" from fence. The Contractor shall lead vines up fence upon installation.
- For tree planting detail, See detail A this sheet.
- For shrub planting detail, See detail B & E this sheet.
- In case of a discrepancy in plant quantities shown on the Plant List and those shown on the Planting Plan, the quantities shown on the plan shall govern.

AS BUILT INFORMATION	
CONTRACTOR	MCC, Inc.
WORK	BY S. Walker
INSPECTION	DATE 6/1/88
ACCEPTANCE BY	DATE 6/1/88
VERIFICATION BY	DATE 6/1/88
DRAWINGS	DATE 6/1/88
DISCUSS	DATE 6/1/88
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION

ENGINEER'S SEAL

REMARKS

REVISIONS

DESIGN

DATE

DRAWN BY

CHECKED BY



RECORD DRAWINGS
DATE 6/1/88



MORROW & COMPANY
LANDSCAPE ARCHITECTS
210 La Veta Drive NE
Albuquerque, New Mexico 87108
505-268-2266

SCALE: 1" = 30'

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE

LANDSCAPING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C. E-Hydrology			Water		

DRAWING NO. 2947 MAP NO. D-18 SHEET 4 OF 34

JOB NO. 42360

26 2947 0488

LOUISIANA BLVD.

TRACT A-UNIT A
NORTH ALBUQUERQUE ACRES
(FILED MAR. 17, 1937)
(D-129)

LOT 13

LOT 20

PASEO DEL NORTE

AVENUE

PALOMAS

LOT 10

LOT 23

PROPOSED 2" WATER
METER LOCATION
PROPOSED 2" SERVICE LINE
6" PVC DISTRIBUTION
LINE (BY GENERAL
CONTRACTOR).

PROPOSED CONTROLLER
LOCATION.

SLEEVE PIPE
(FOR 24 VOLT WIRE)

SLEEVE PIPE (TYP.)

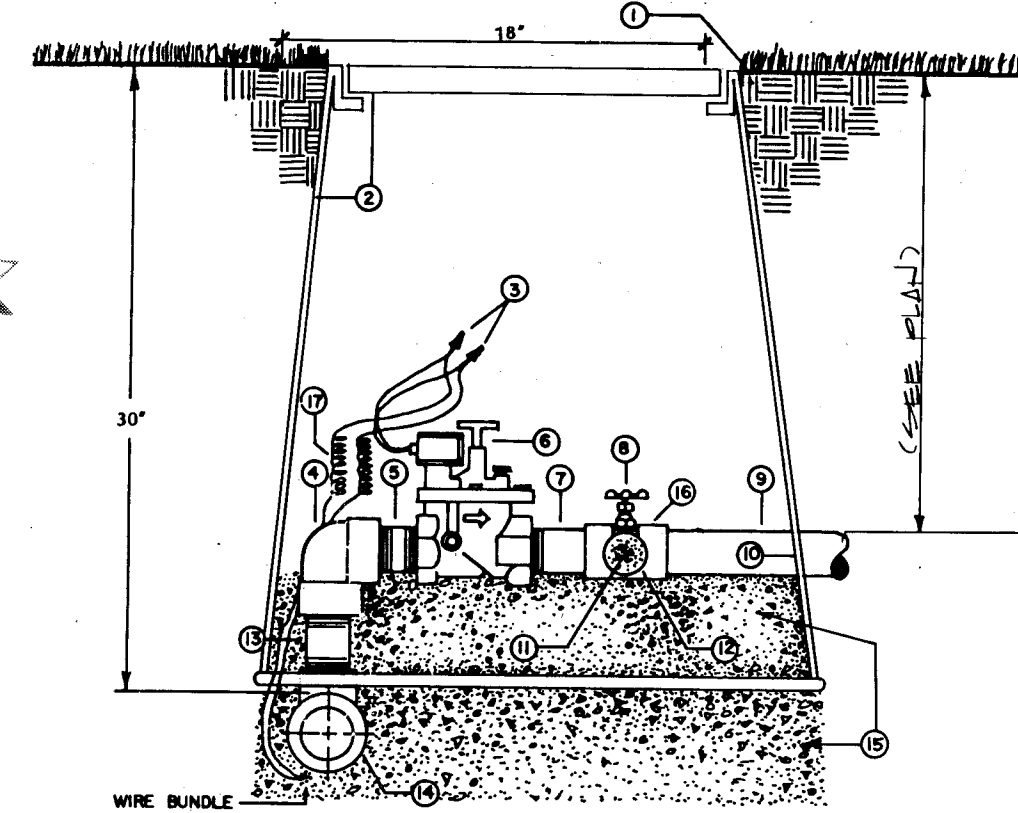
Property Line

- 1 CONTROLLER (SEE IRRIGATION LEGEND) MOUNT SECURELY TO WALL
2 EYE LEVEL
3 RIGID CONDUIT (DELETED)
4 WALL
5 3/4" CONDUIT BOX
6 3/4" EMT (HOUSING 120VOLT, 14 GAUGE WIRES)
7 RIGID CONDUIT (HOUSING 24VOLT, 14 GAUGE CONTROL WIRES, SIZE 1-1/4")

CONTROLLER DETAIL

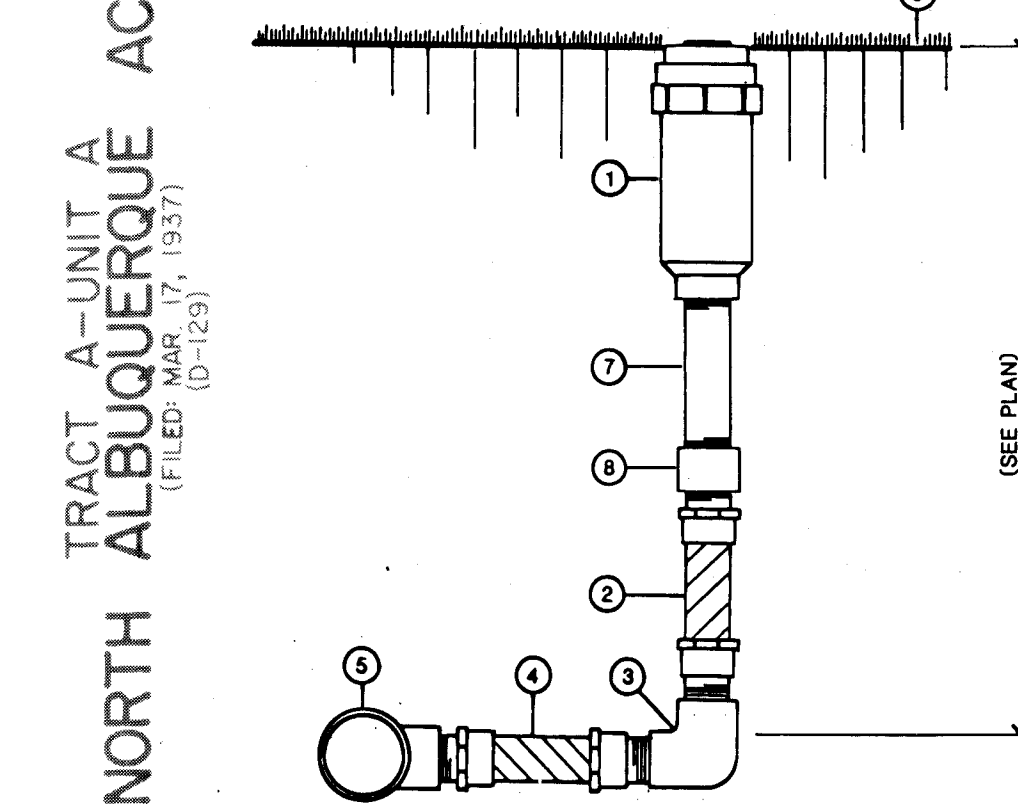
IRRIGATION LEGEND

- WATER METER, SIZE INDICATED ON PLANS.
(INSTALL AS PER CITY STANDARD DETAILS W-10 THRU 10-19).
- MASTER VALVE AND VACUUM BREAKER ASSEMBLY, TORO 216-27-XX AUTOMATIC
VALVE WITH FEBCO 765 PRESSURE TYPE VACUUM BREAKER - SIZE
AS INDICATED ON PLANS.....SEE DETAIL
- 2" BRASS AUTOMATIC VALVE ASSEMBLY, TORO 216-06-08.....SEE DETAIL
- MANUAL DRAIN ASSEMBLY, SIZE 3/4".....SEE DETAIL
- SOLVENT WELD CAP (LINE SIZE).
- CONTROLLER, TORO 171-06-01 EIGHT STATION WALL MOUNT CONTROLLER....SEE DETAIL
- SLEEVE PIPING, CLASS 200 PVC (TWO SIZES LARGER THAN PIPE TO BE
SLEEVED), (SLEEVED PIPE FOR 24 VOLT WIRE SHALL BE 1 1/4" CLASS
200 PVC).
- LATERAL PIPING, SCH. 40 PVC - 18" BURY.
- MAINLINE PIPING, SCH. 80 PVC - 30" BURY.
- TORO 570-P, 3" POP-UP PRESSURE COMPENSATING SPRINKLER WITH INTERNAL
CHECK VALVE.....SEE DETAIL
- | NOZZLE | RADIUS | GPM | PSI |
|-----------|--------|-----|-----|
| 12-0-PC | 12' | .7 | 25 |
| 12-120-PC | 12' | .8 | 25 |
| 12-H-PC | 12' | 1.0 | 25 |
| 12-240-PC | 12' | 1.2 | 25 |
| 12-270-PC | 12' | 1.5 | 25 |
| 12-F-PC | 12' | 2.0 | 25 |
| ADJ-PC | 12' | .8 | 20 |
- TORO 570-P, 3" POP-UP PRESSURE COMPENSATING BUBBLER
ASSEMBLY WITH INTERNAL CHECK VALVE AND FB-100-PC 1.0 GPM NOZZLE.....SEE DETAIL

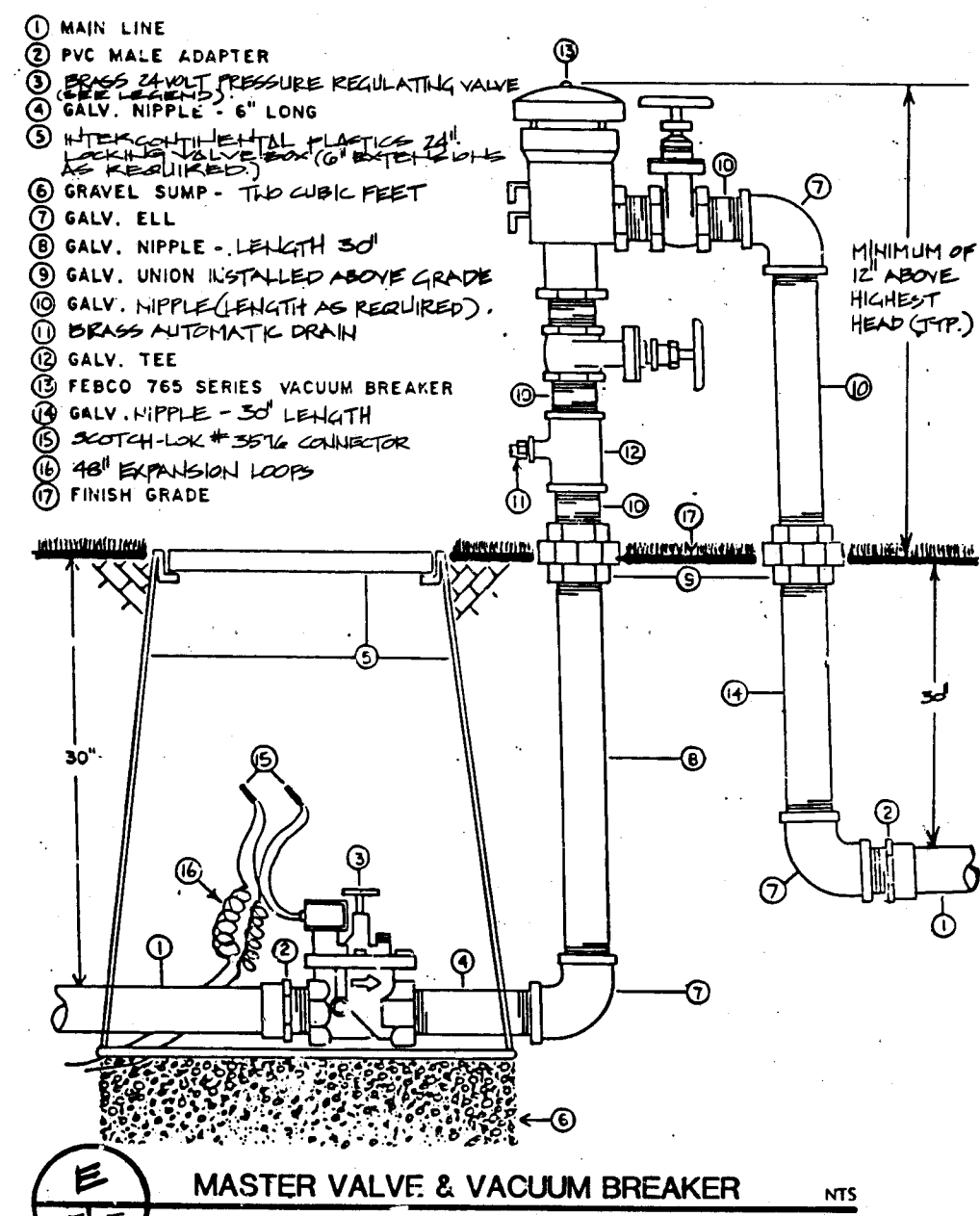


- 1 FINISH GRADE
2 1/2" PVC LATERAL PIPING
3 1/2" x 1/2" CLOSE SCH. 80 PVC NIPPLE
4 AUTOMATIC DRAIN VALVE
5 SCH. 80 PVC NIPPLE (4" LENGTH)
6 MAINLINE TEE
7 8 CU. FT. GRAVEL SUMP
8 3/4" WIRE EXPANSION LOOP

LOT 12
C
5/5
AUTOMATIC VALVE ASSEMBLY



- 1 POP-UP SPRINKLER OR BUBBLER (SEE PLAN)
2 1/2" x 6" MAXIMA FLEX NIPPLE (PVC)
3 1/2" PVC THREADED ELL
4 1/2" x 6" MAXIMA FLEX NIPPLE (PVC)
5 PVC LATERAL TEE SST
6 FINISH GRADE
7 1/2" PVC NIPPLE (LENGTH AS REQUIRED)
8 1/2" PVC THREADED COUPLING
- POP-UP SPRINKLER OR
BUBBLER ASSEMBLY



MASTER VALVE & VACUUM BREAKER

NOTES:

- Metered service line for irrigation
taps shall be as per Standard City
Detail W-10 thru W-19.
- All taps shall be pressure connections.
- Where crossing existing hard
construction is shown on plans, the
contractor shall saw-cut existing
asphalt and/or concrete prior to
trenching, remove and properly dispose
of debris, install sleeve piping,
compact subgrade to 95%, and replace
asphalt and/or concrete to match
existing areas.
- The Contractor shall adjust all
valves, bubblers, and sprinklers for
optimum coverage, and shall install
odd arc or adjustable nozzles when
instructed by the Landscape Architect.
- The existing distribution line
location is schematic. It shall be
the Contractor's responsibility to pot
hole and field check to determine
actual locations as an incidental
require to the construction contract.
- Conduit for 110 volt wires shall be
rigid steel conduit.
- The service line between the pressure
connection and water meter shall be
plastic tubing as per City Std.
Specification 702.3.3
- Contractor shall install manual drains
on the lateral piping at the lowest
point to insure complete drainage of
the lateral. Quantity shall be as
required and shall be located on the
As Built drawings. (Location shall
be determined by the contractor at
time of installation.)
See (Minimum one per zone.)

- All proposed irrigation piping shall
be marked using marker tape and shall
be laid horizontally 4" above piping.
Piping laid in common trenches shall
have marker tape for each pipe. Tape
shall be 2" wide and marked "buried
water line", blue in color and
metallic for future location. Product
is available from Pipeline Material
Inc., Albuquerque, New Mexico (505)
821-2626 (or approved equ.).
- 24 volt wire shall be run from the
controller to the closest irrigation
trench, minimizing the amount of
trenching required for the
installation of the wire. The
Contractor shall review the proposed
routing of the 24 volt wire with the
Landscape Architect and have the route
approved by the Landscape Architect
prior to installation.
- The Contractor shall wire 120 volt AC
to the closest 120 volt general
purpose branch circuit. The
connection shall be made in a junction
box. Associated breaker shall be
labeled "Irrigation Control Panel".
For bidding purposes, the contractor
shall utilize 25'-0" horizontal feet of
3/4" EMT with 2 #12's with one #12
ground. Actual location for connection
shall be determined by the inspector
in the field.
- All 24 volt wire shall be marked with
a 6" wide yellow marker tape and
marked "Warning-Electrical". Lay
marker tape horizontally 4" above wire.
- In addition to other specified tests
and inspections, the irrigation
systems shall be performance tested
and witnessed by the Compliance
Officer from the City of Albuquerque
Health and Environment Department for
conformance with the provisions of the
Waste Water Ordinance.
- The Contractor shall sequentially wire
valves to controller as indicated on
plan. (Sample, V-1 to Station One,
V-2 to Station Two etc.)



MORROW & COMPANY
LANDSCAPE ARCHITECTS
210 La Veta Drive NE
Albuquerque, New Mexico 87108
505-268-2266

SCALE: 1" = 30'

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

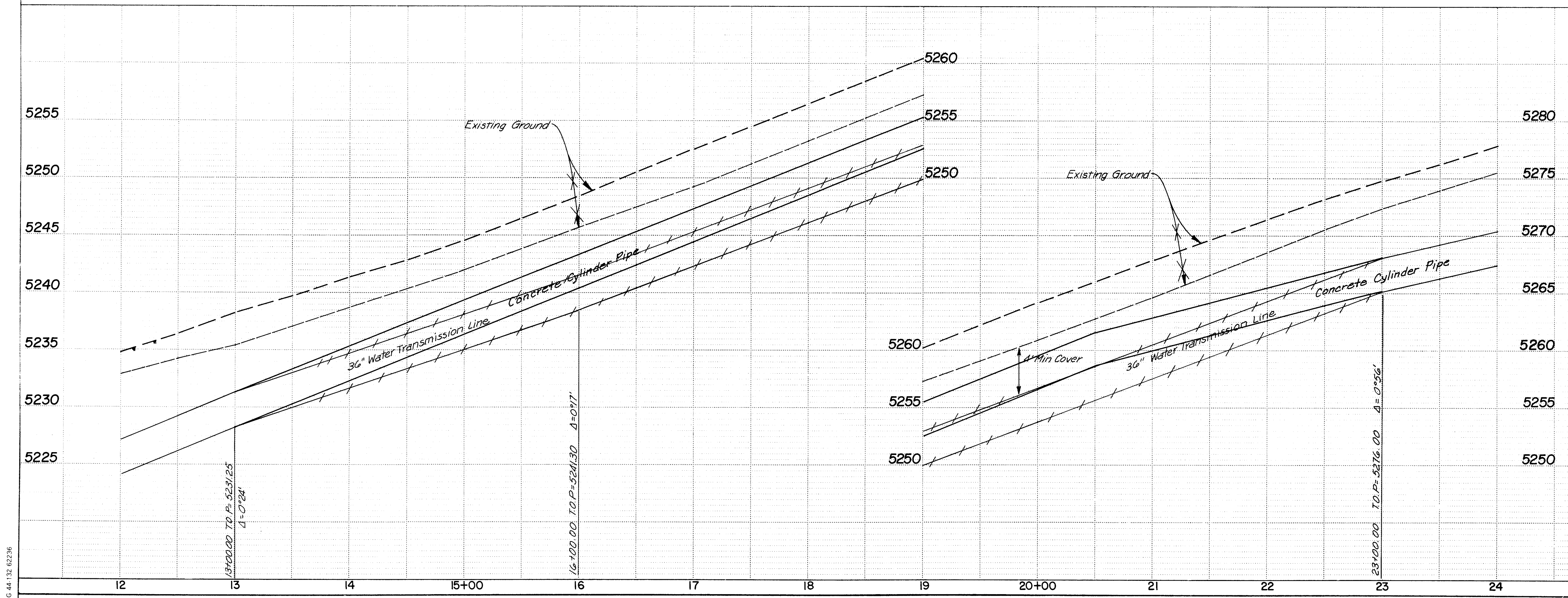
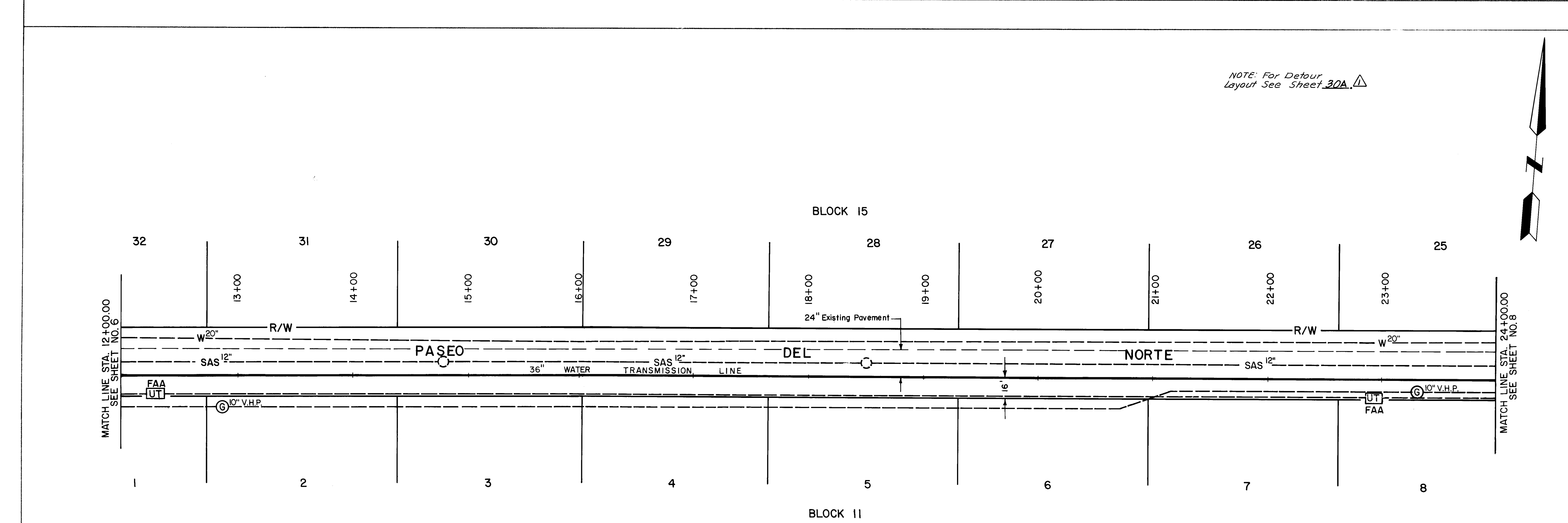
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE

IRRIGATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO. 2947 MAP NO. D-18 SHEET 5 OF 34

26 2947 0588



1. Contractor shall notify ANM, Gas Co., Mountain Bell and FAA prior to construction.

NOTE: The Contractor Shall be Required to Erect and Maintain Barricades, Signs and Warning Lights at all Detours and Street Crossings as required by the City Engineer.

SCALE
1"=50' Hor.
1"=5' Vert.

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE
STA. 12+00.00 TO STA. 24+00.00-36"WL.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 2947 MAP NO. D-18 SHEET 7 OF 34

AS BUILT INFORMATION	
WATER	DATE 12/88
INSTALLER	DATE 12/88
INSPECTED BY	DATE 12/88
RECORDED BY	DATE 12/88
NO.	

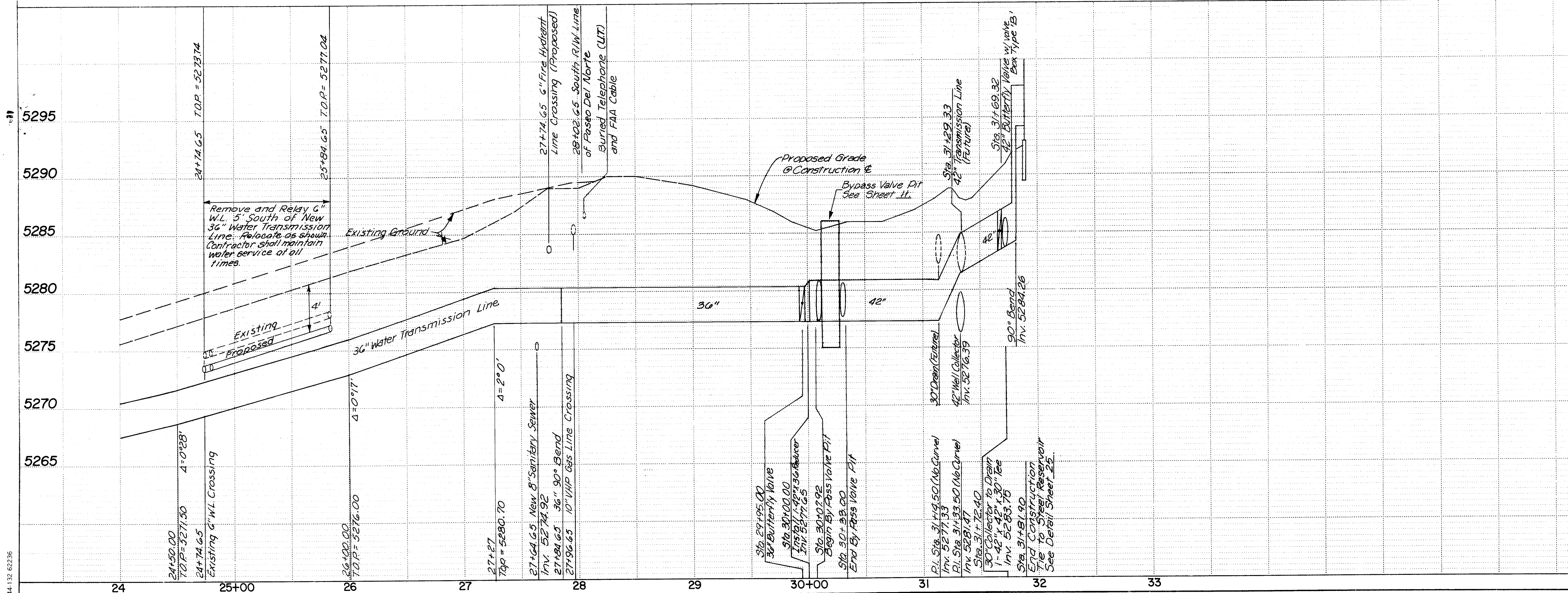
BENCH MARKS	
Bress Cap. City of Albuquerque AQS 1-C19	DATE
@ NE Corner of Louisiana & Paseo Del Norte	BY
Elev = 5319.30	NO.

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	BY
NO.	NO.

ENGINEER'S SEAL

RECORD DRAWINGS
DATE 6/7/88

REVISIONS	
NO.	DATE
1	5/19/87
2	5/19/87
3	5/19/87
4	5/19/87
5	5/19/87
6	5/19/87
7	5/19/87
8	5/19/87
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26	5/19/87
27	5/19/87
28	5/19/87
29	5/19/87
30	5/19/87
31	5/19/87
32	5/19/87



- NOTES:
1. Property Corners within the Limits of Construction shall be Referenced and Replaced by a Licensed Land Surveyor.
 2. Unless Otherwise Shown, Final Ground After Construction shall be Approximately the same as Prior to Construction.
 3. The Location of all Underground Utilities as shown, are Approximate. The Exact Location of all Underground Utilities shall be Obtained From the Line and Cable Locating Service at 765-1234.
 4. Contractor shall notify PNM, Mountain Bell, Gas Co., and FAA prior to construction.

SCALE
1" = 50' Hor.
1" = 5' Vert.

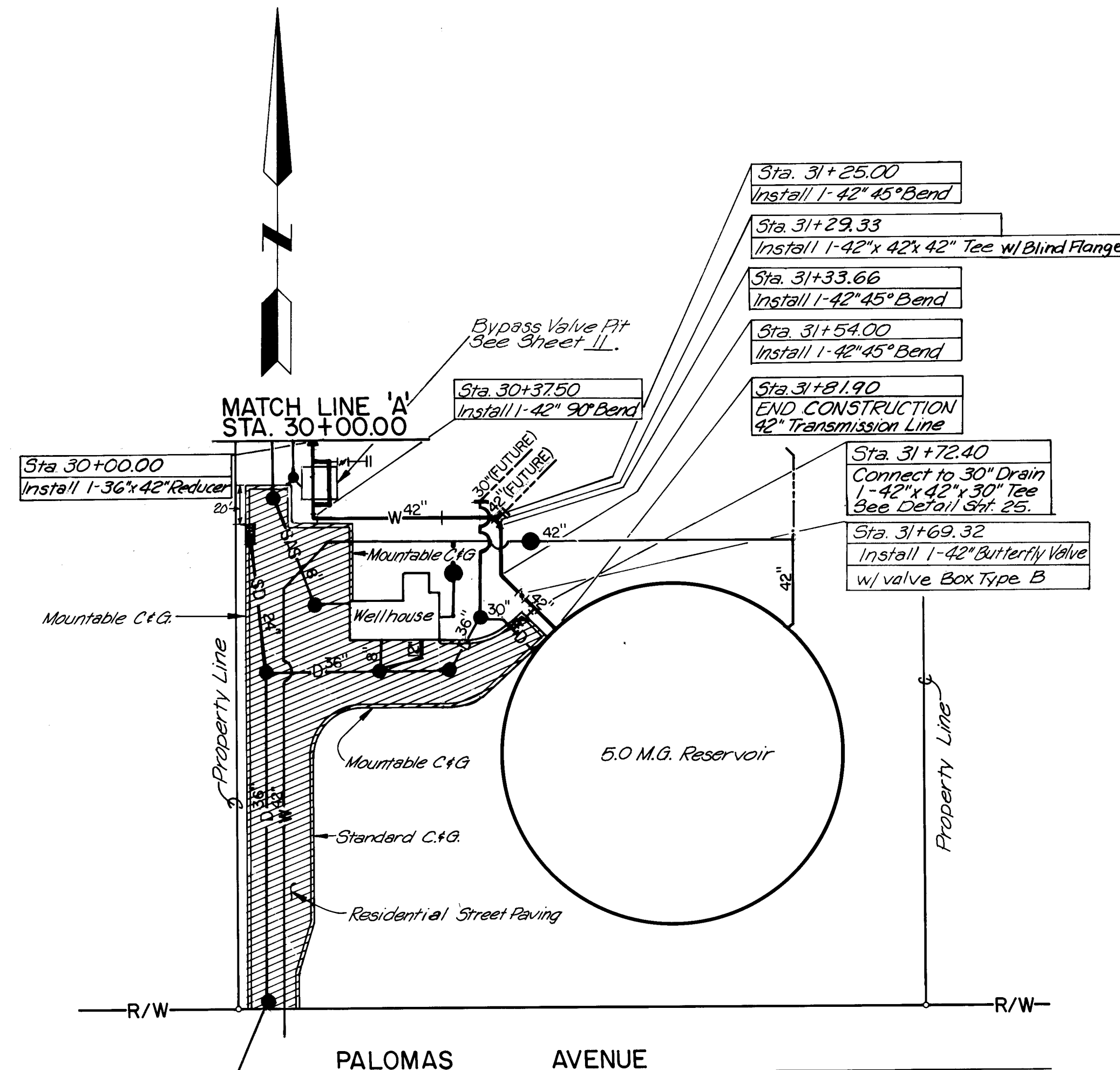
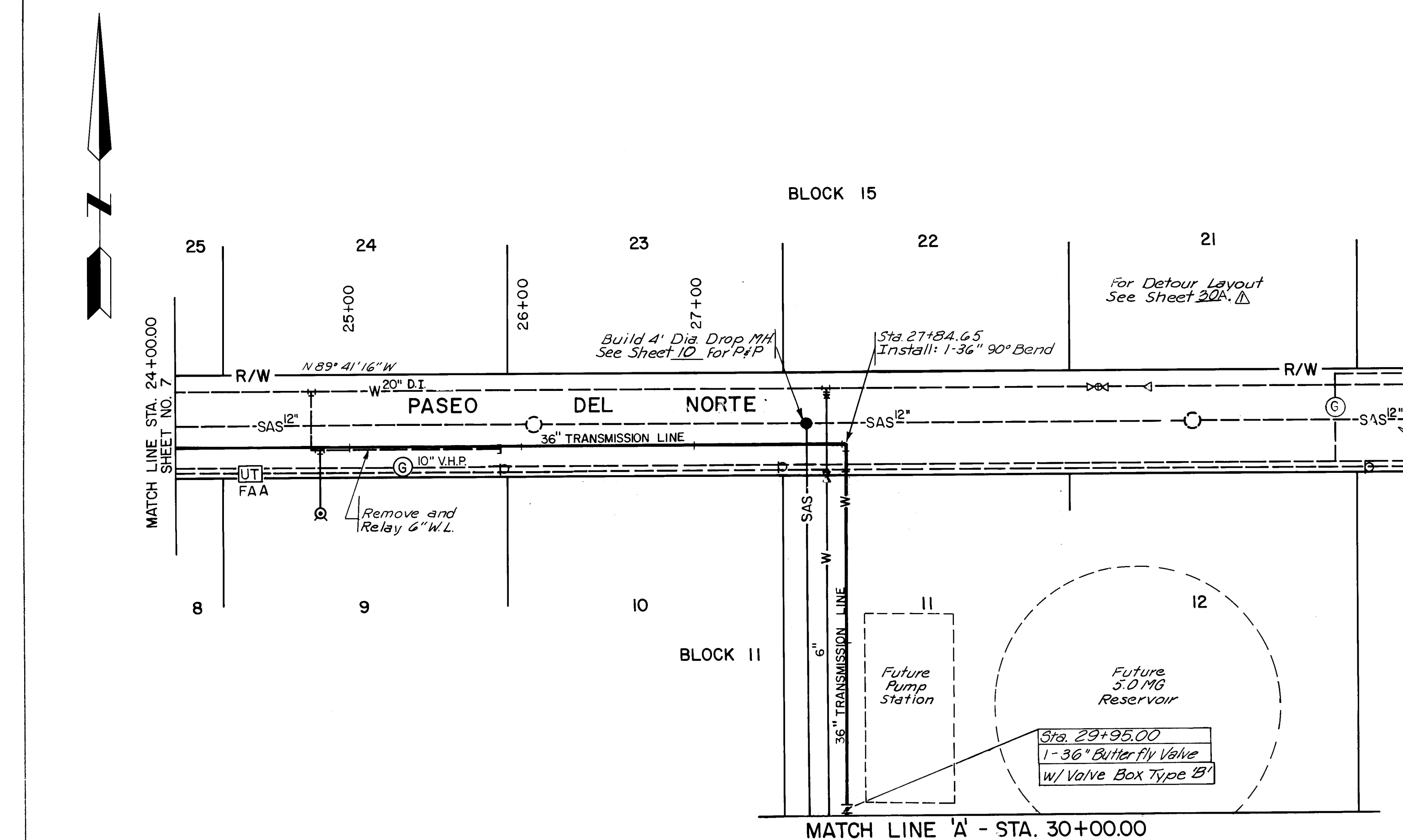
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 26 ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE
STA. 24+00.00 TO STA. 31+87.40

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

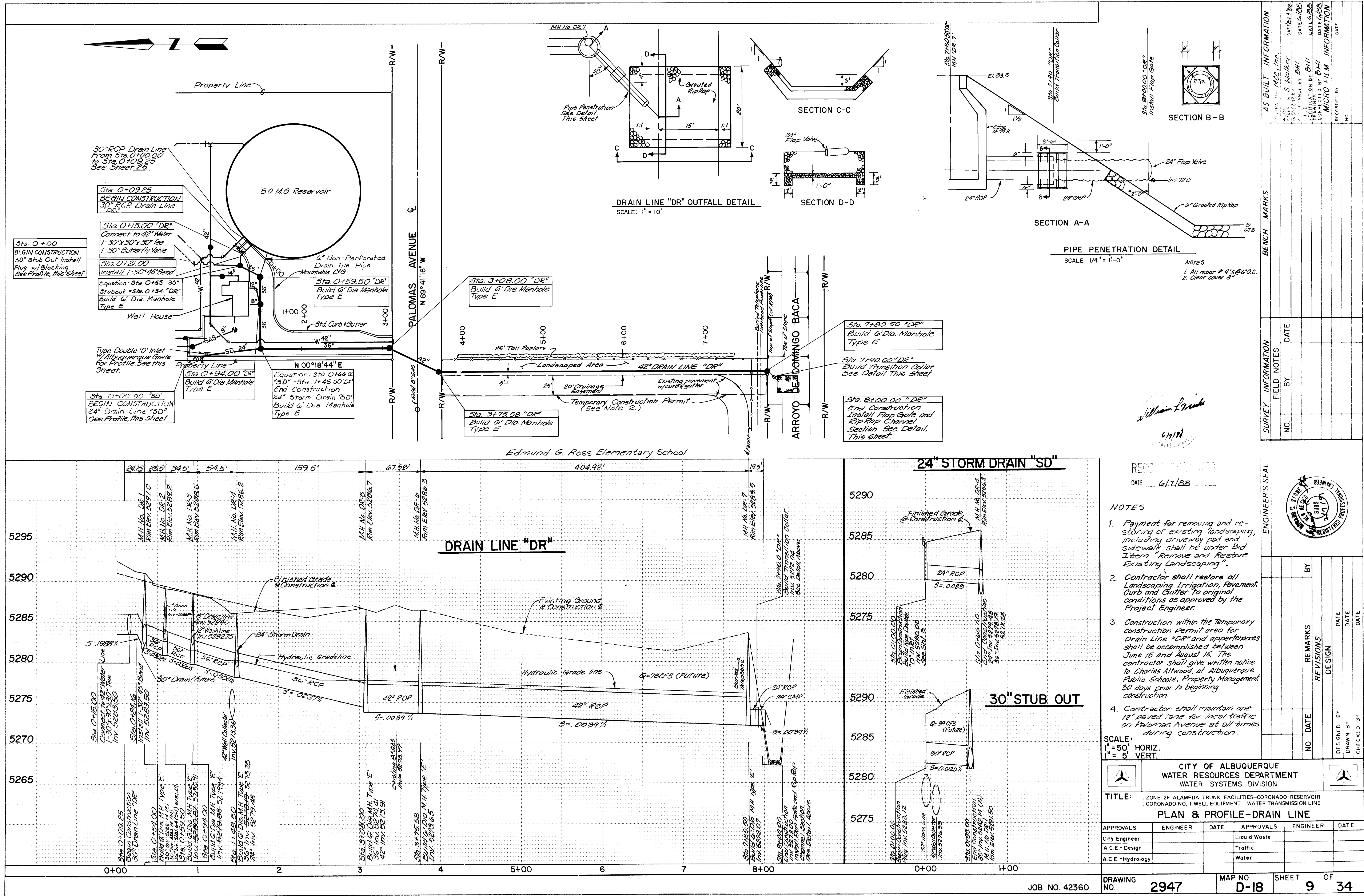
DRAWING NO.	2947	MAP NO.	D-18	SHEET	8	OF	34
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26 2947 0888



AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	FIELD NOTES
DATE: 1/1/88 BY: S. Walker CHECKED BY: BHI DATE: 6/1/88 CHECKED BY: BHI DATE: 6/1/88 CHECKED BY: BHI DATE: 6/1/88 CHECKED BY: BHI	Brass Cap. City of Albuquerque ACS 1-C19 @ NE Corner of Louisiana and Paseo Del Norte Elev = 5318.30	DATE: 6/1/88 BY: S. Walker CHECKED BY: BHI DATE: 6/1/88 CHECKED BY: BHI DATE: 6/1/88 CHECKED BY: BHI	NO. 1 BY: S. Walker CHECKED BY: BHI DATE: 6/1/88 CHECKED BY: BHI

ENGINEER'S SEAL	REVISIONS	DESIGN	DATE	DATE
6/1/88	1	DESIGN	6/1/88	6/1/88
6/1/88	2	DESIGN	6/1/88	6/1/88
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6/1/88	4	DESIGN	6/1/88	6/1/88
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6/1/88	98	DESIGN	6/1/88	6/1/88
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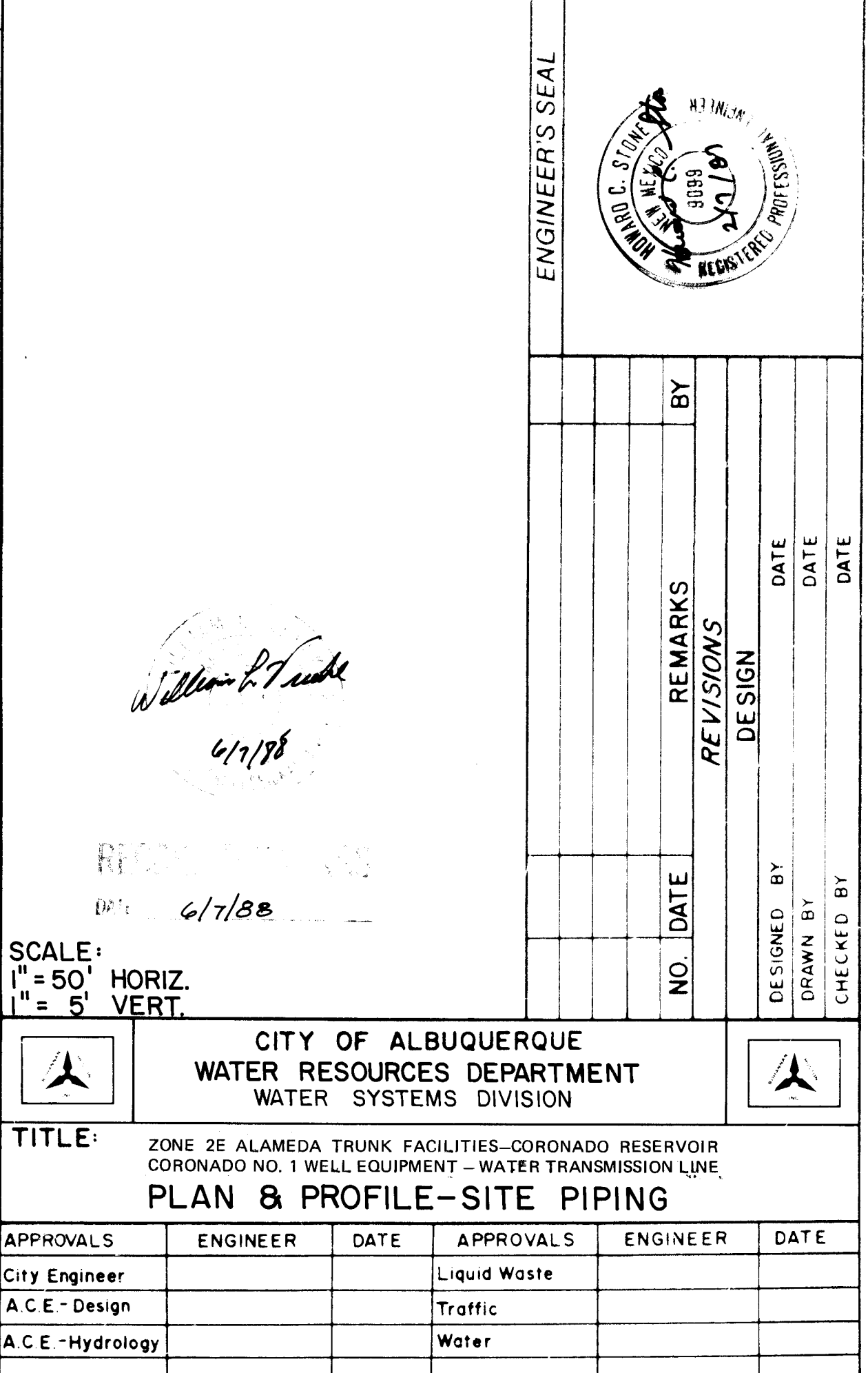
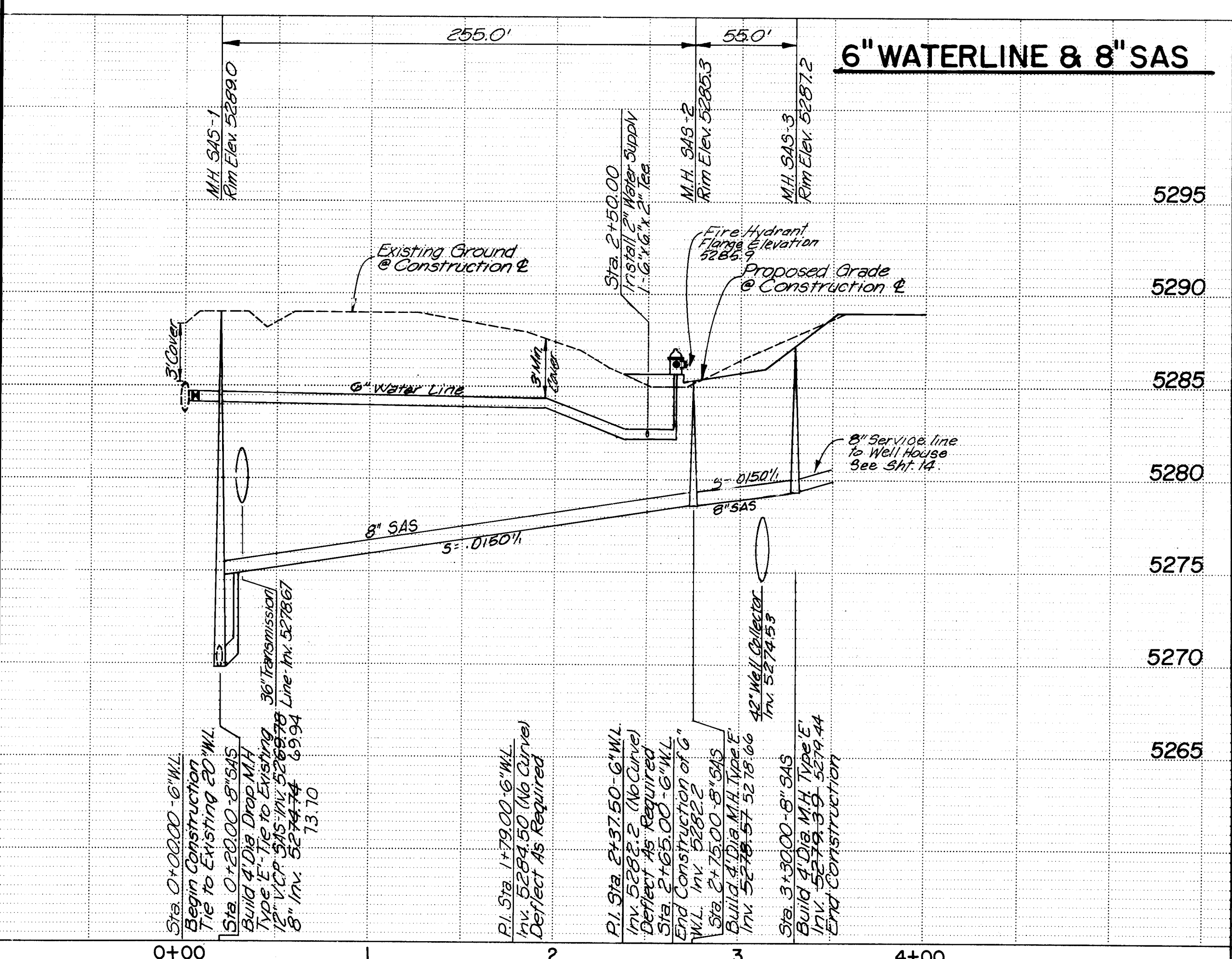
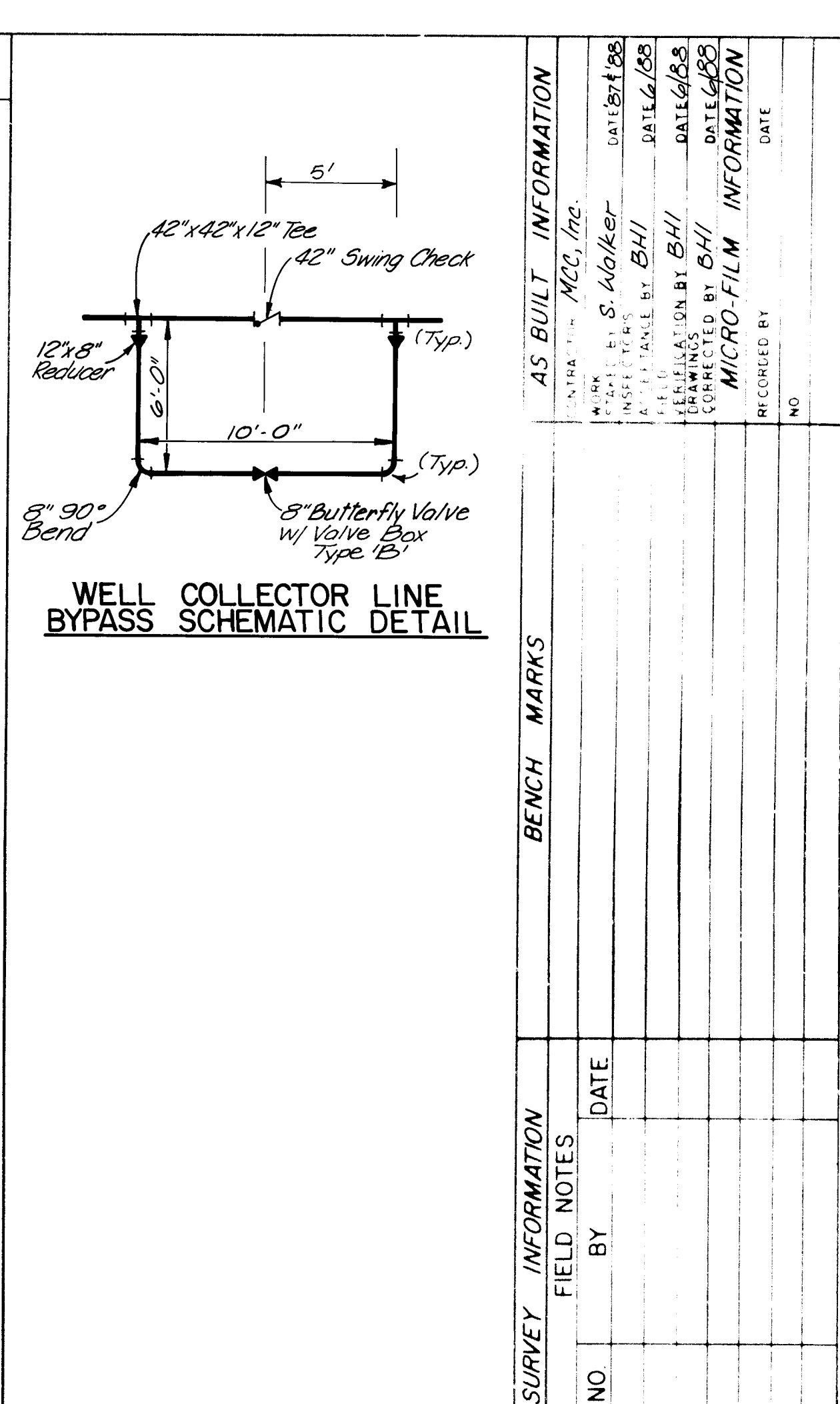
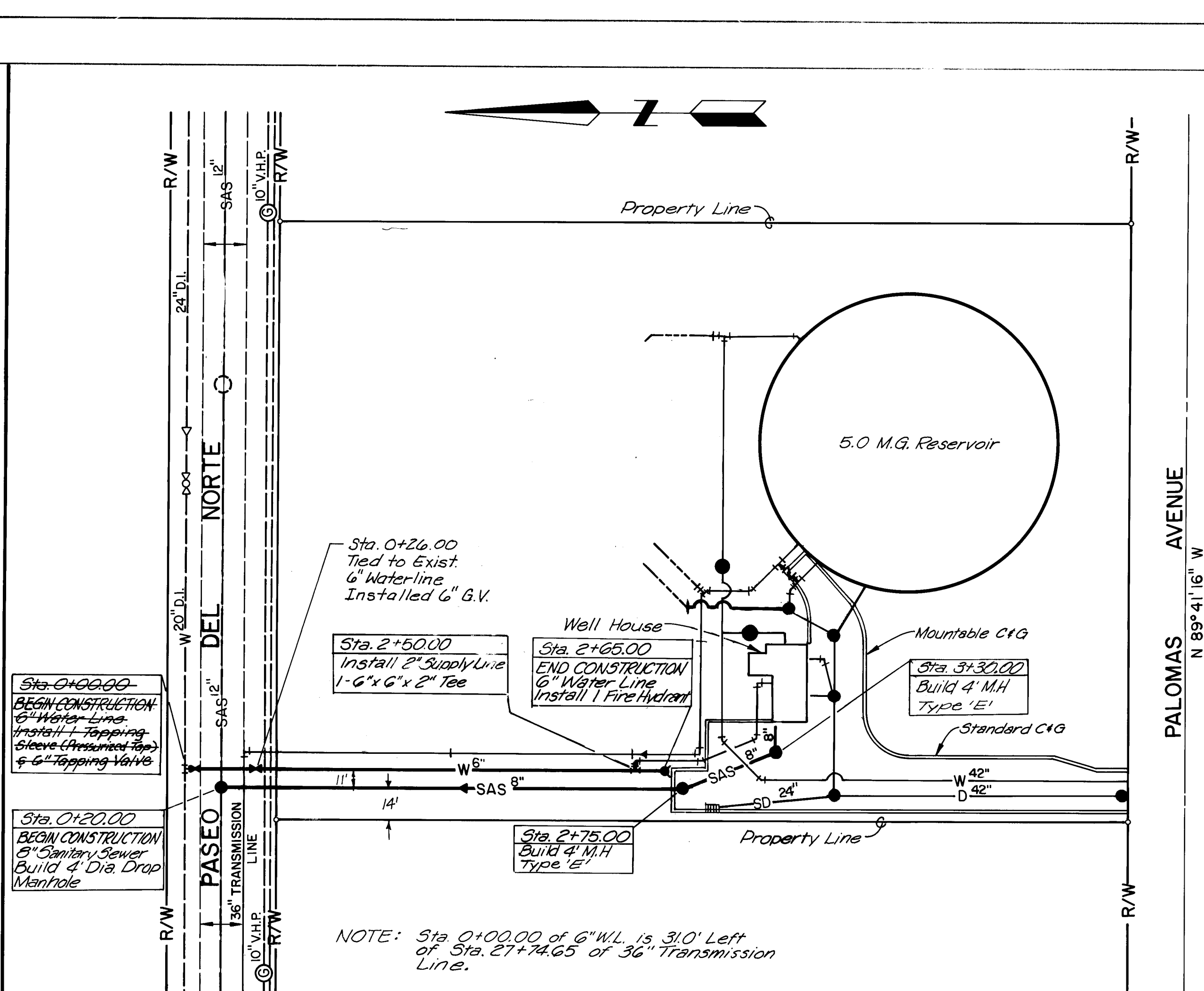




Figure 1 shows three types of specimens: TYPE 1, TYPE 2, and TYPE 3. TYPE 1 is a straight beam of length A . TYPE 2 is a beam of length A with a 90-degree bend at the end, with a vertical segment of length B . TYPE 3 is a beam of length A with a 90-degree bend at the end, with a vertical segment of length B .

BAR BENDING DETAILS



Payment for the 2" Conduit and (2) 1/4" Copper lines between the Bypass Valve Pit and Well House shall be included under Bid Item, "Bypass Valve Pit."

[illegible][illegible]

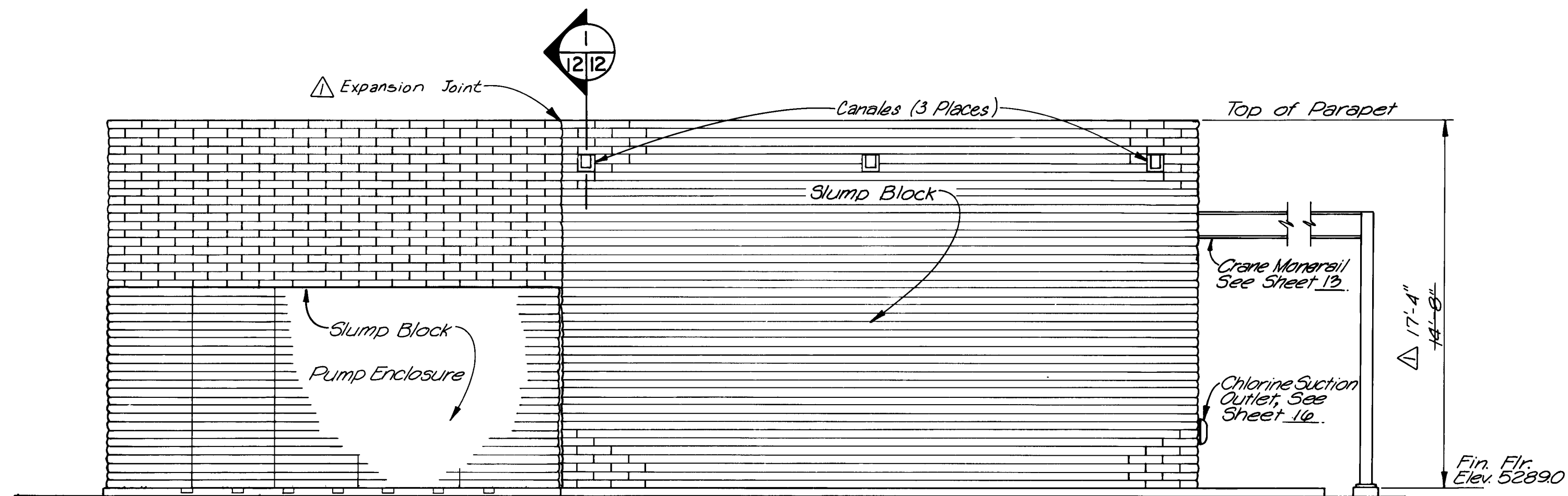
NOT TO SCALE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

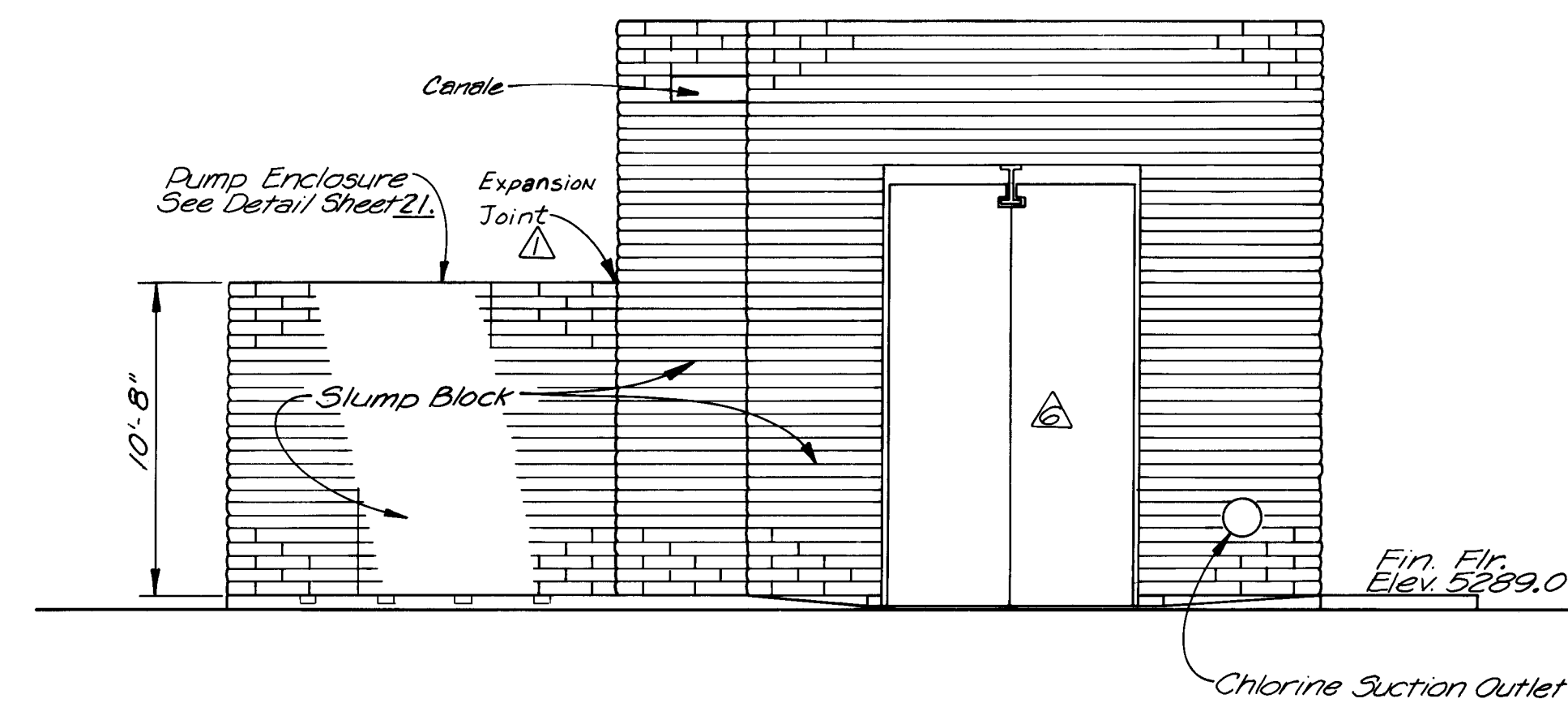
**TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT- WATER TRANSMISSION LINE
BYPASS VALVE PIT DETAILS**

DRAWING NO.	2947	MAP NO.	D-18	SHEET	11	OF	34
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26 2947 1188

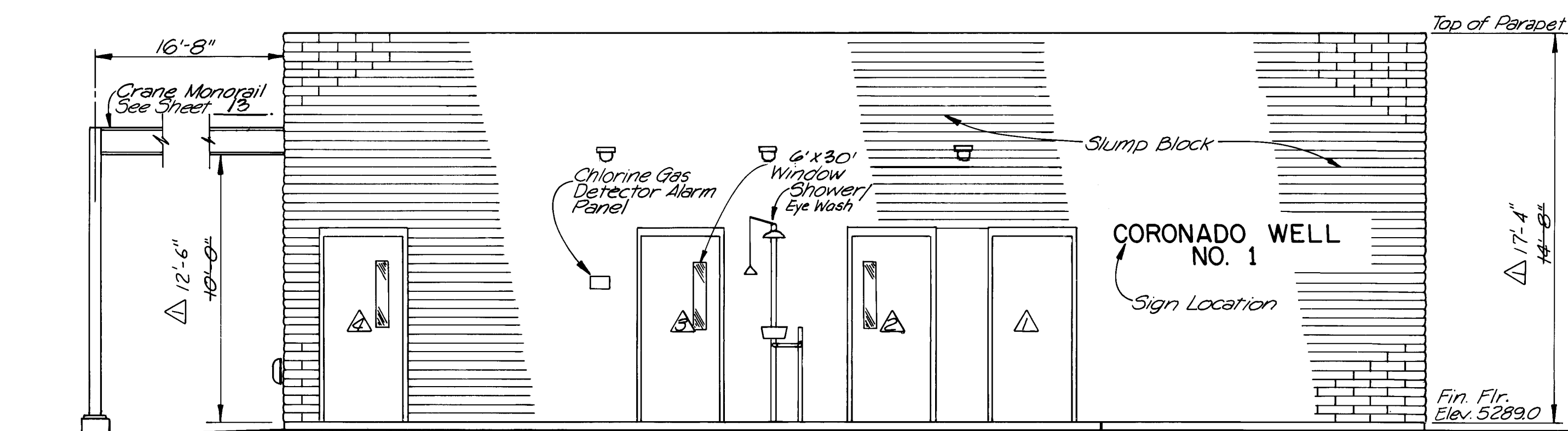


NORTH ELEVATION
SCALE: NONE

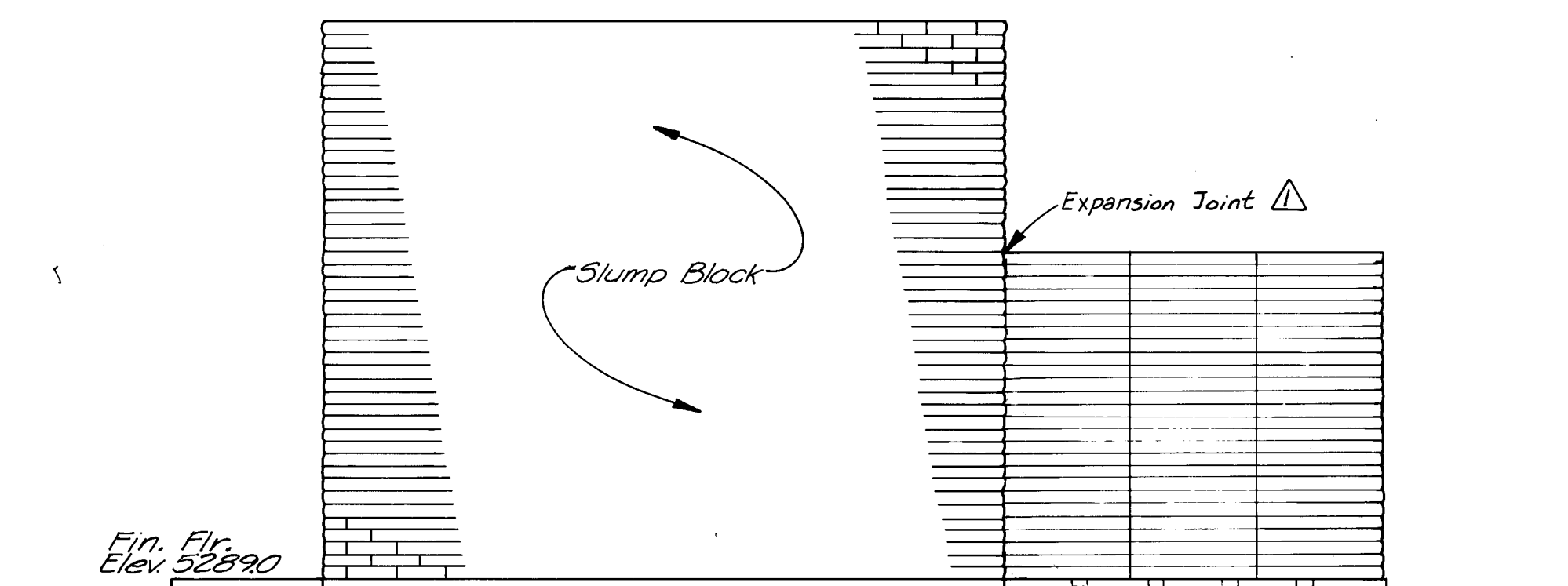


WEST ELEVATION
SCALE: NONE

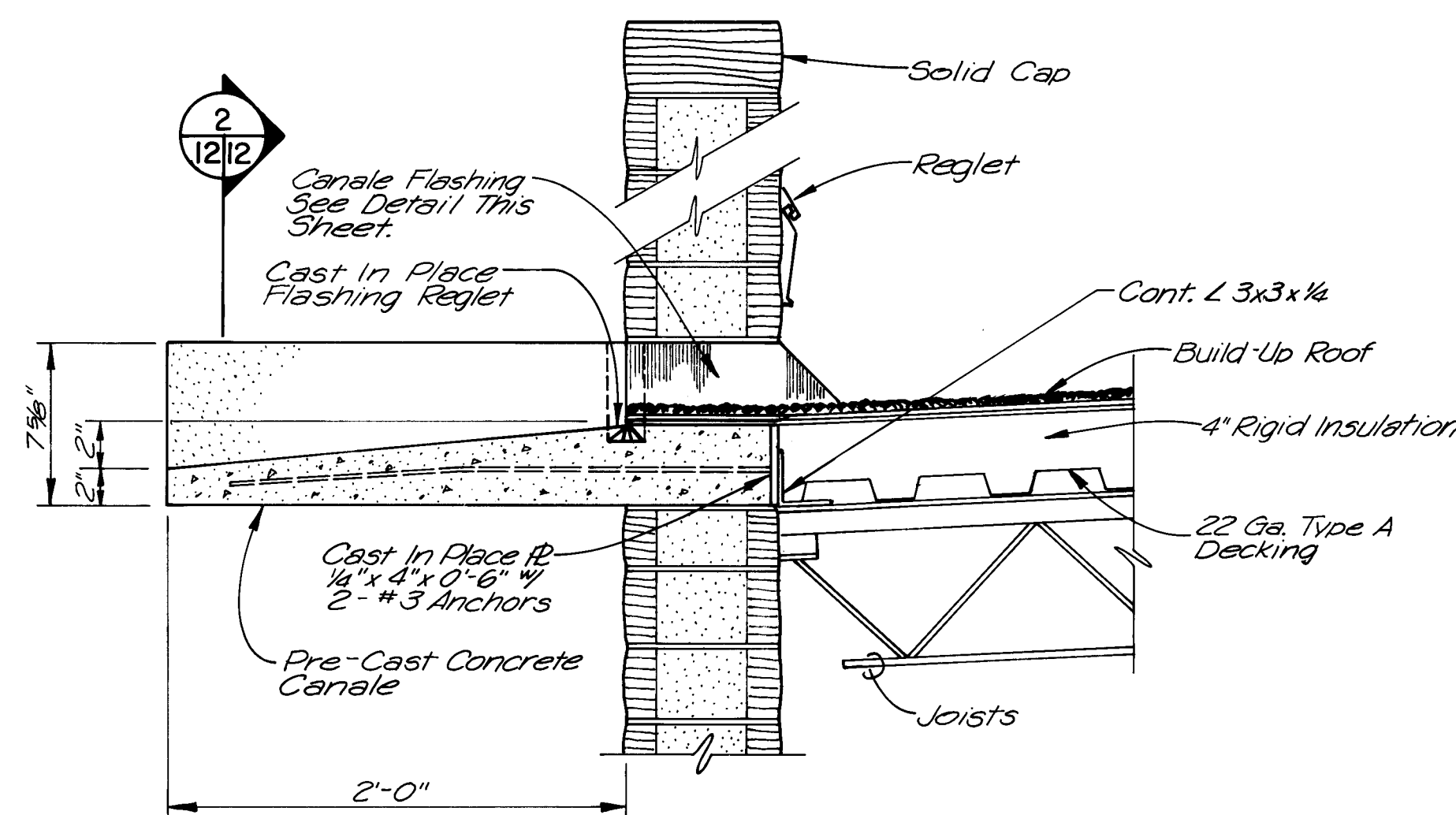
Contractor shall verify that the Well Pump will fit in Pump Enclosure Room.



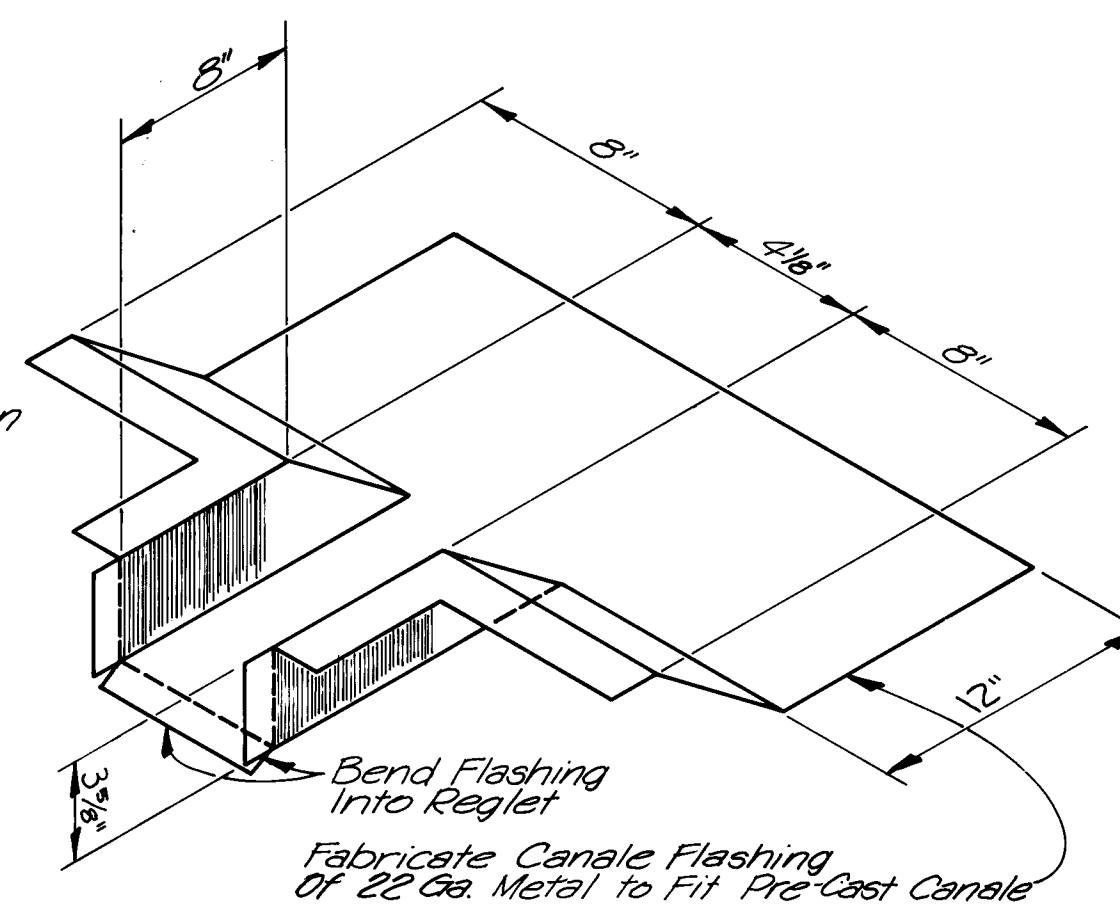
SOUTH ELEVATION
SCALE: NONE



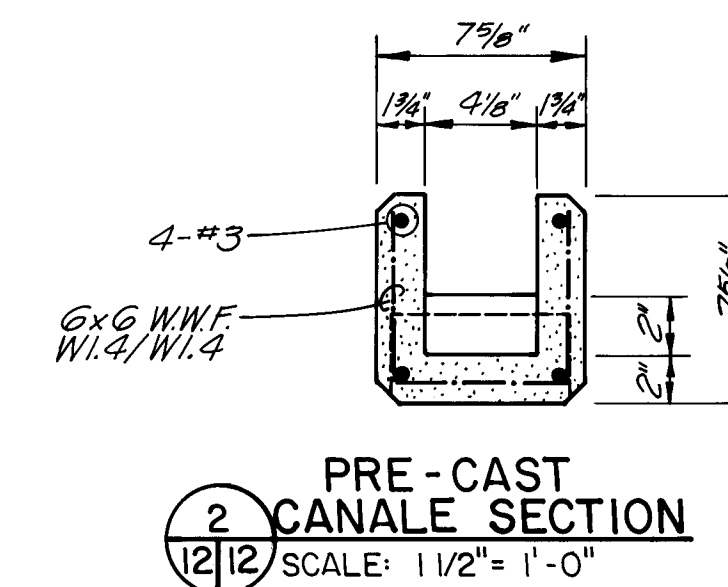
EAST ELEVATION
SCALE: NONE



PRE-CAST CANALE
SCALE: 1 1/2" = 1'-0"



CANALE FLASHING
NO SCALE

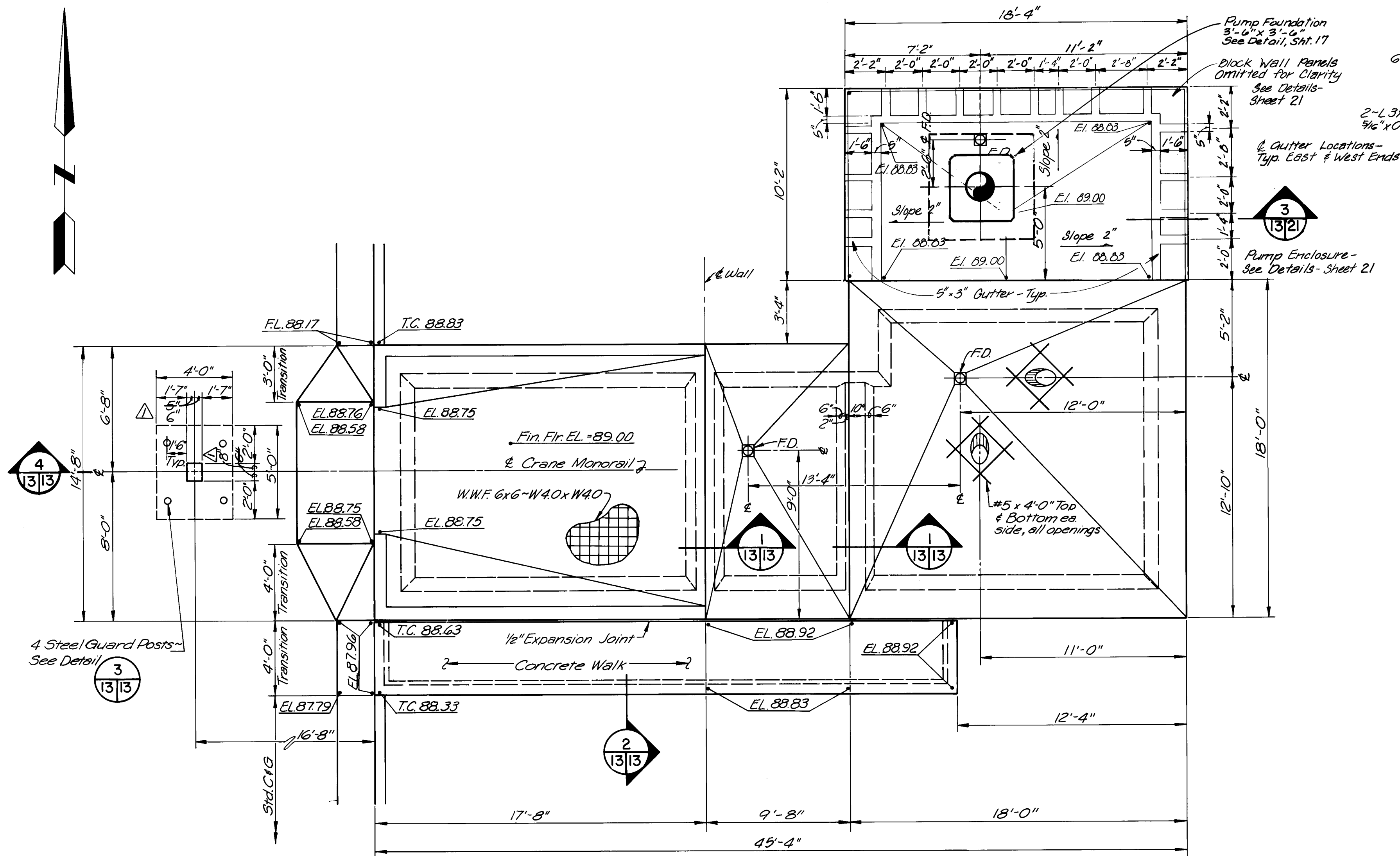
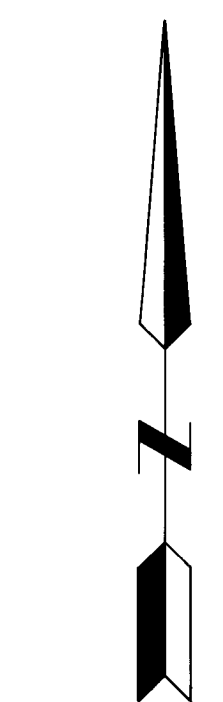


RECORDED
DATE 6/7/88

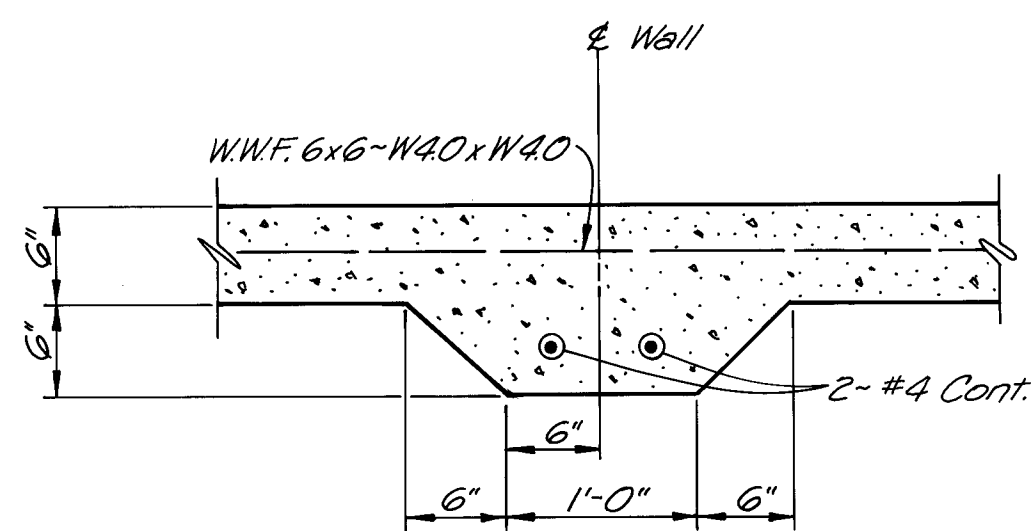
SCALE: AS SHOWN

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
BUILDING ELEVATIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO.	2947	MAP NO.	D-18	SHEET	12 OF 34

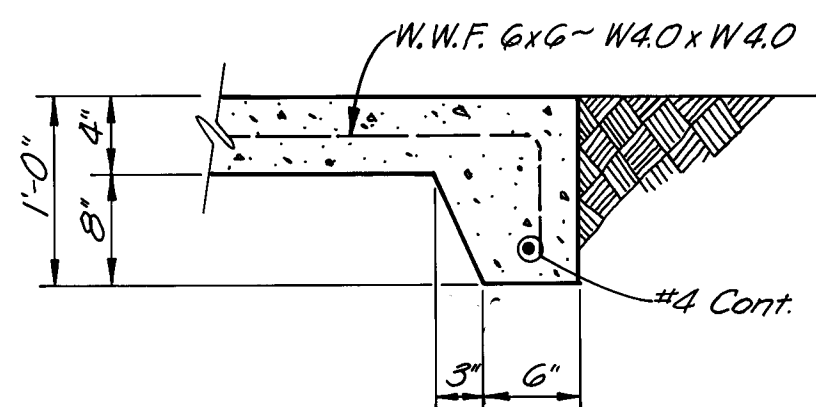
26 2947 1288



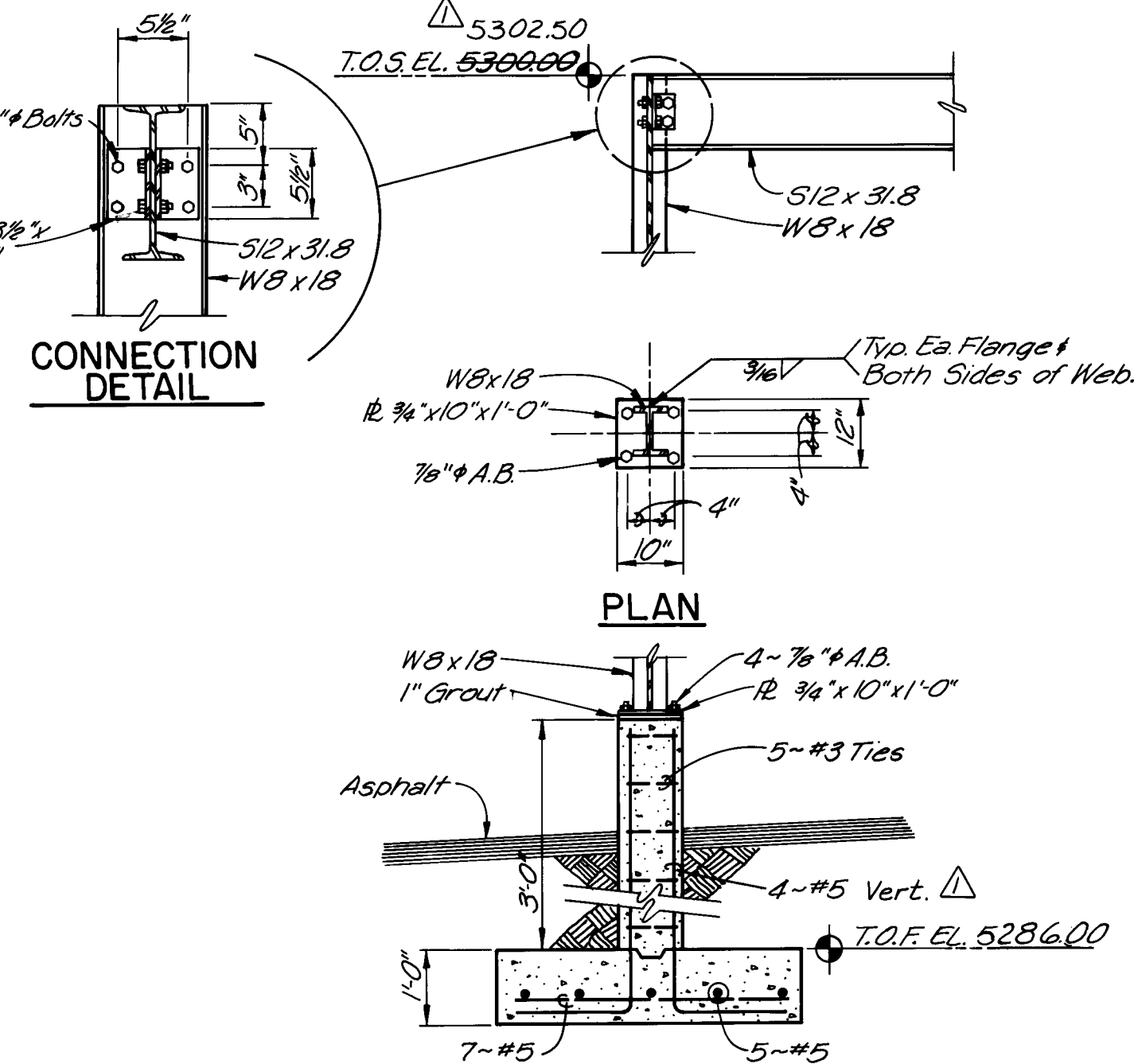
FOUNDATION PLAN
SCALE: NONE



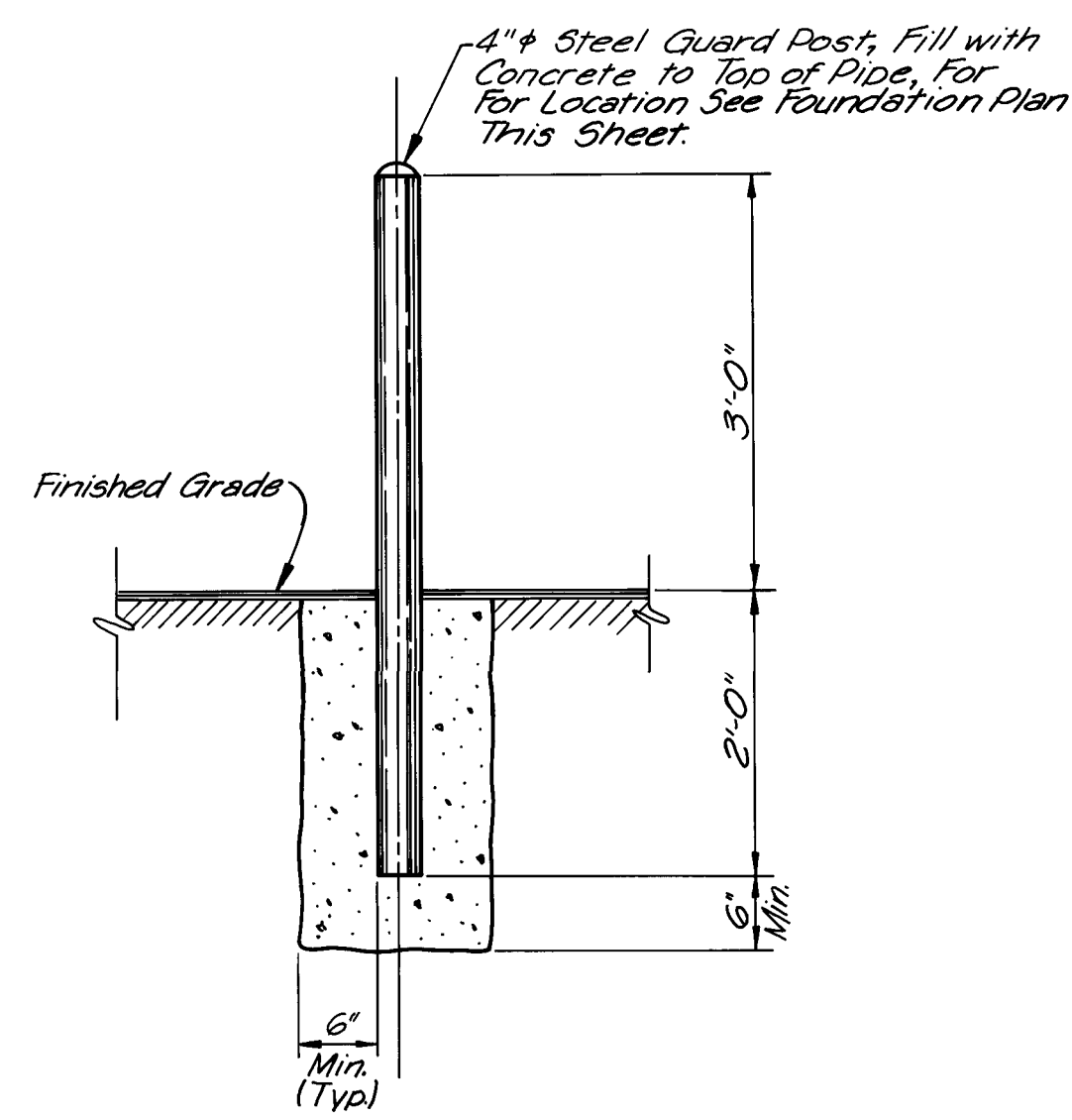
1 THICKENED SLAB
SCALE: 1" = 1'-0"



2 CONCRETE PAD EDGE DETAIL
SCALE: 1" = 1'-0"



4 CRANE SUPPORT COLUMN
& PEDESTAL BASE DETAIL
NOT TO SCALE



3 STEEL GUARD POST DETAIL
SCALE: 3/4" = 1'-0"

- NOTES:
- Slope Floor 1" to Floor Drains (FD)
 - For Finished Grade Elevations, See Grading Plan Sheet 3

AS BUILT INFORMATION	
CONTRACTOR	MCC, Inc.
DATE	1/88
INSPECTOR	DATE
FIELD OFFICE	DATE
VERIFICATION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	NO

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL	
NO.	DATE

REVISIONS	
NO.	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

SCALE: AS SHOWN

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE

FOUNDATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 2947 MAP NO. D-18 SHEET 13 OF 34

26 2947 1388

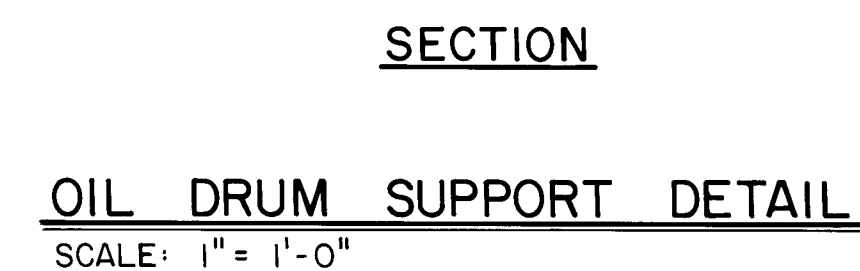
(1)	Discharge Assembly and Pump
(2)	Mercoid Pressure Switch and Pressure Gage, See Sheet 15
(3)	No Flow Electrode, Mount on Top of Pipe, 6" from Wall (Min.)
(4)	55 Gal. Oil Drum (Pump Gear Oil) See Sheet 18.
(5)	Future Fluoride Pump
(6)	Chlorinator
(7)	Future Fluoride Analyzer
(8)	Chlorine Scale Dials for future 1 ton cylinders
(9)	Cross $\frac{1}{4}$ " Standby Pressure Relief Valve, and Vent to Outside
(10)	Switchover Vacuum Regulator Check Unit
(11)	150# Chlorine Cylinders - 2 req'd.
(12)	Hydraulic Load Cell Scale <i>for future 1 ton cylinders (location as directed by Engineer)</i>
(13)	Chlorine Piping Support and storage rack. Typ. See Sht 15 Typ.
(14)	Chlorine Leak Detectors, Mount 1'-0" Above Floor.
(15)	2 Cylinder Chlorine Scale for 150# Cylinders
(16)	Cap 6" above floor
(17)	Hose Bibb
(18)	Fire Extinguisher
(19)	Procedures Enclosure, See Sheet 18.
(20)	Pipe Stand
(21)	Water Leak Detector, Mount in Bottom
(22)	Hose Bibb

①	12" x 14" Reducer
②	14" Flexible Coupling w/Restrains
③	14" Spool FL x FL
④	14" x 14" x 14" Tee FL x FL
⑤	14" Motorized Butterfly Valve (Horz. Shaft)
⑥	14"-45° Bend FL x FL
⑦	2" Air & Vacuum Relief Valve w/ 2" Gate Valve
⑧	12" Motorized Butterfly Valve (Horz. Shaft)
⑨	12"-22½° Bend FL x FL
⑩	12" Spool FL x FL
⑪	14" Check Valve
⑫	12" x 14" Reducer
⑬	12" Butterfly Valve w/ Valve Box Type 'A'
⑭	12" Check Valve

23 *Cylinder Repair Kit*



26 2947 1488

[illegible]

SCALE: AS SHOWN



CITY OF ALBUQUERQUE

WATER RESOURCES DEPARTMENT

WATER SYSTEMS DIVISION

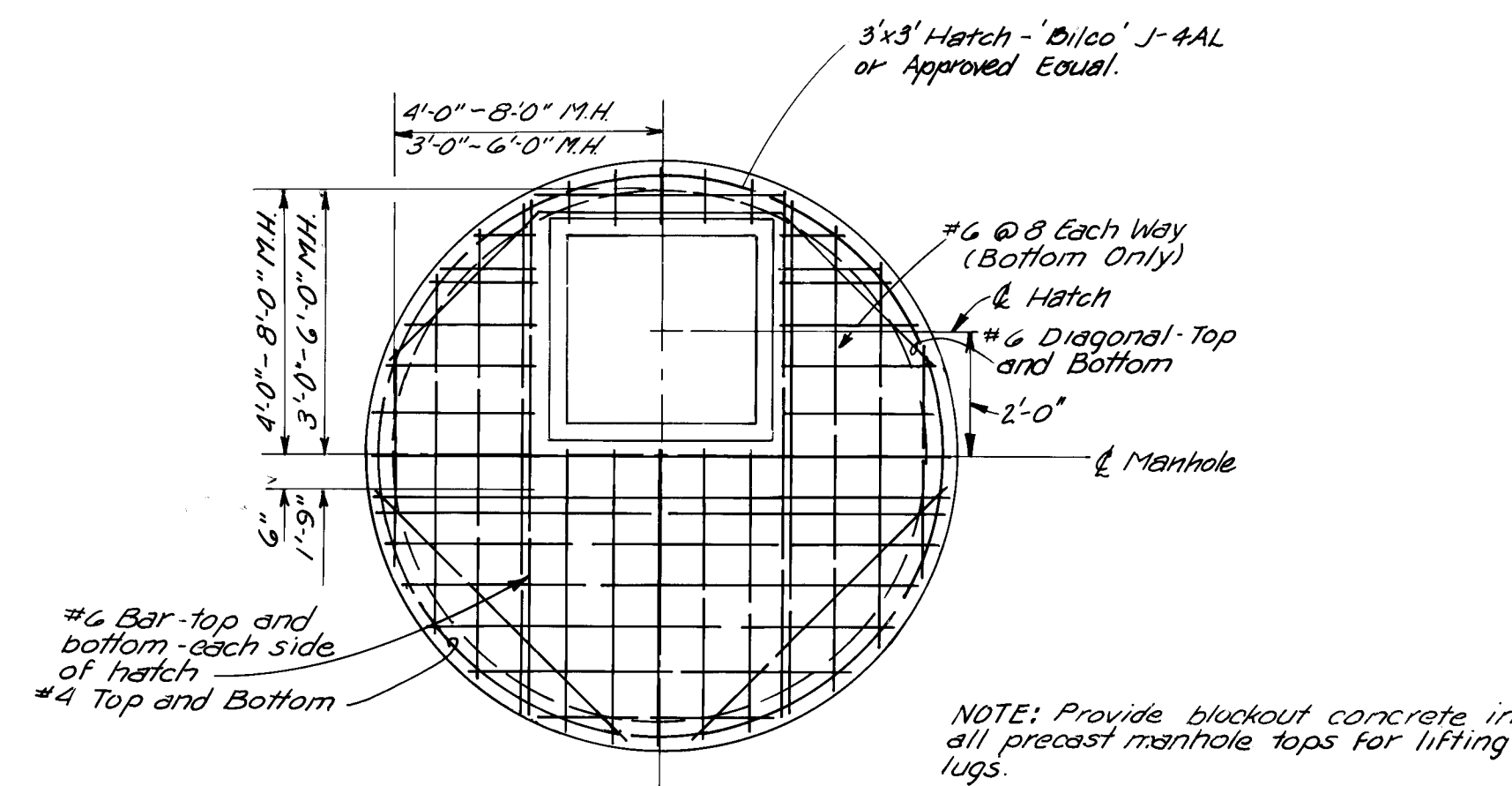
TITLE: * ZONE 2E ALAMEDA TRUNK FACILITIES--CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE

WELL EQUIPMENT DETAILS

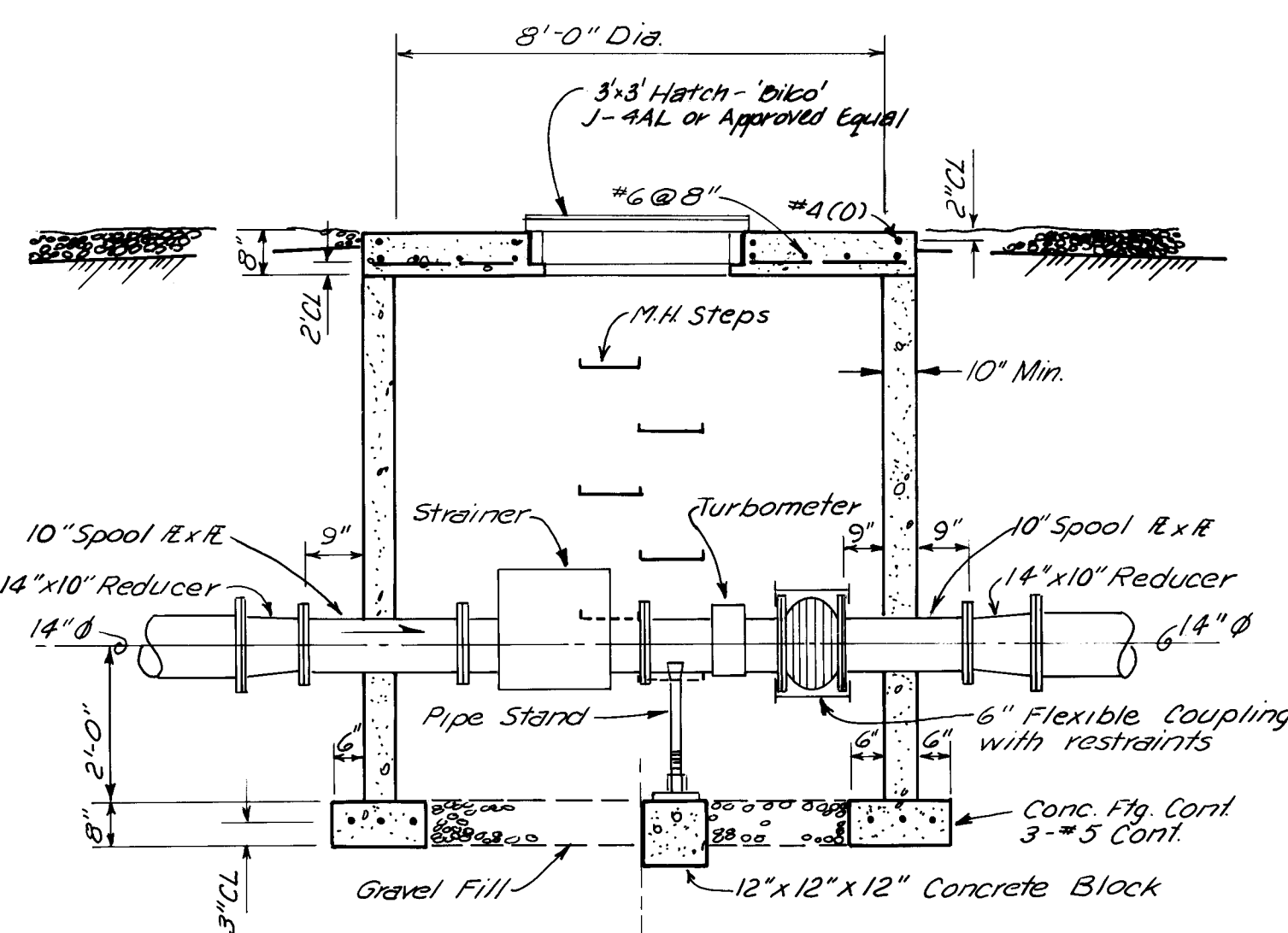
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E -Hydrology			Water		

DRAWING NO.	2947	MAP NO.	D-18	SHEET	OF	16	34
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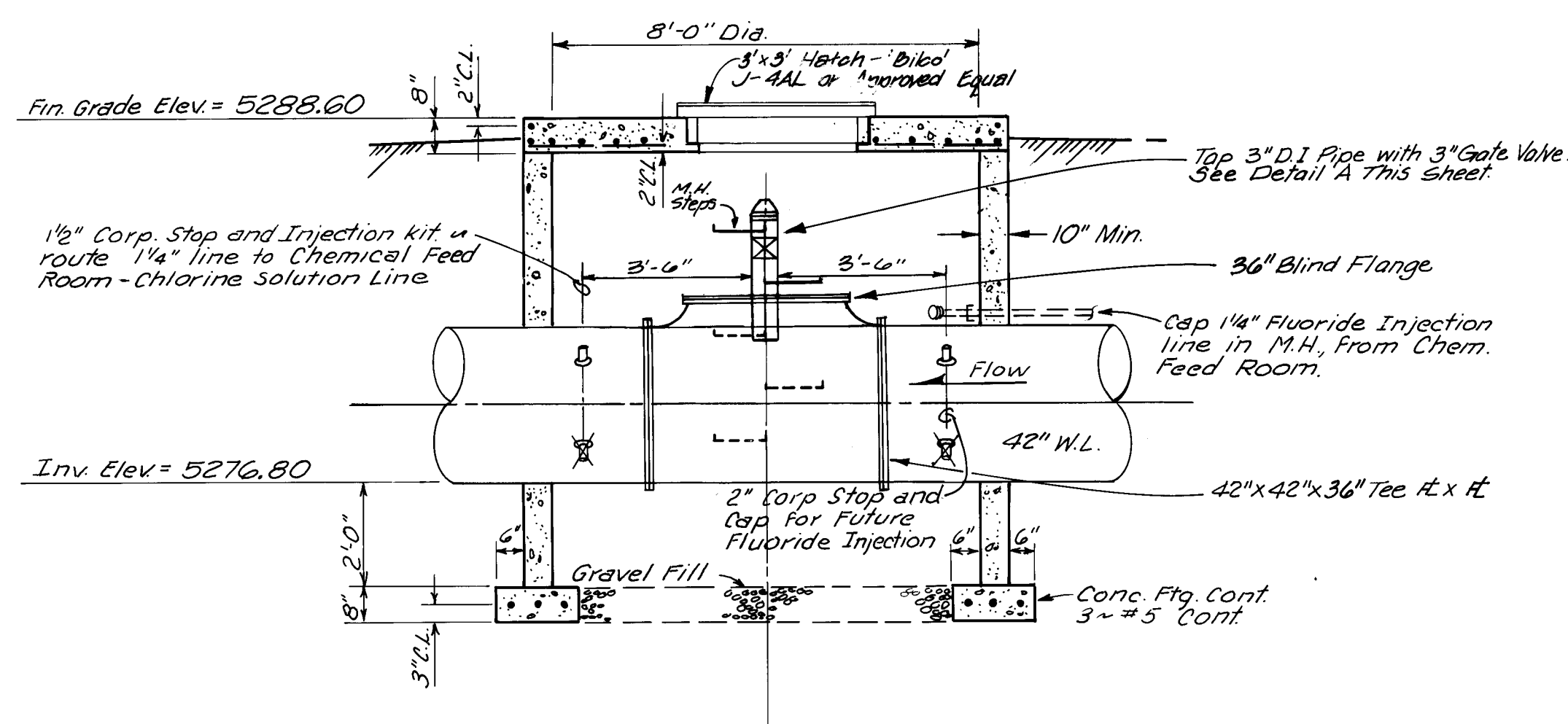
26 2947 1688



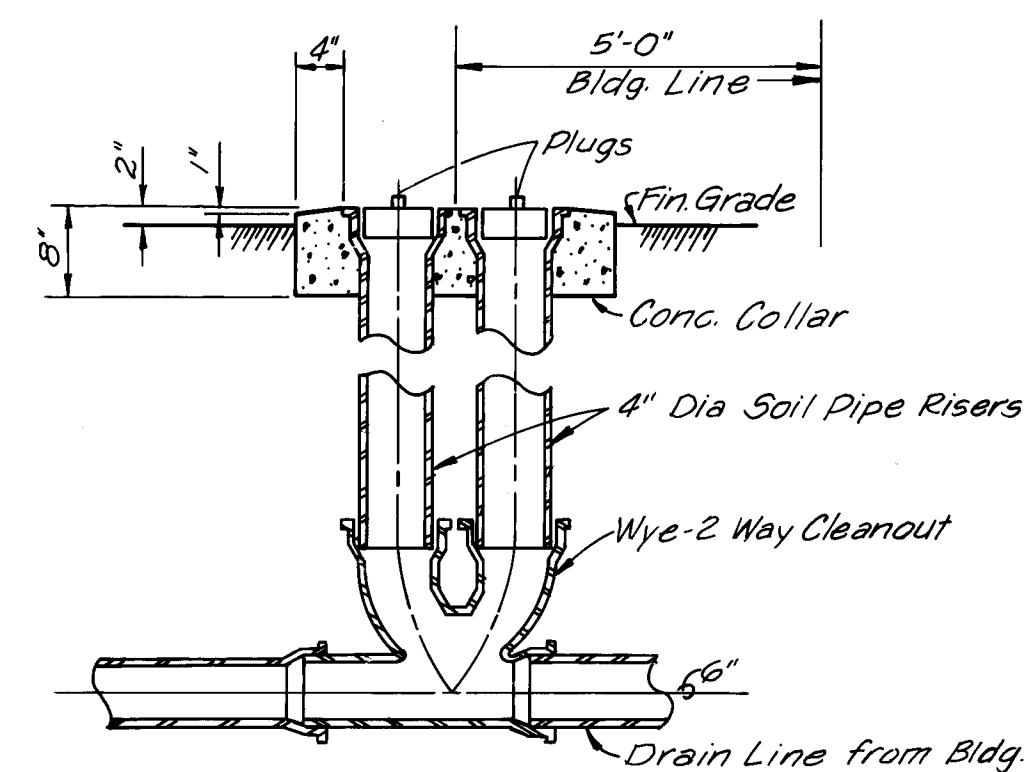
COVER REINFORCING TYP



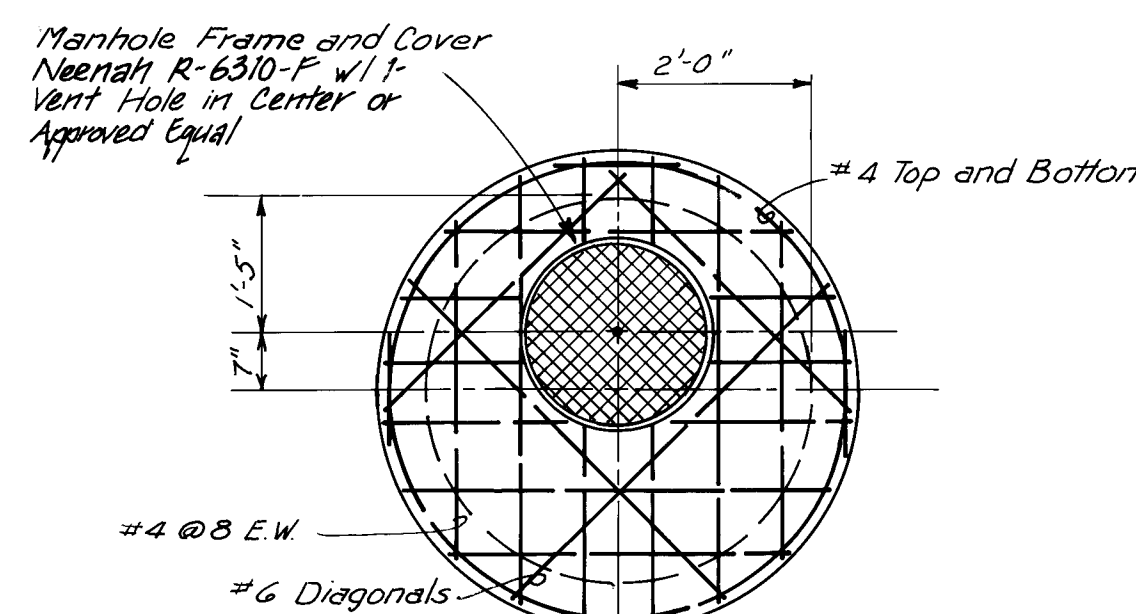
WELL FLOW METER M.H.



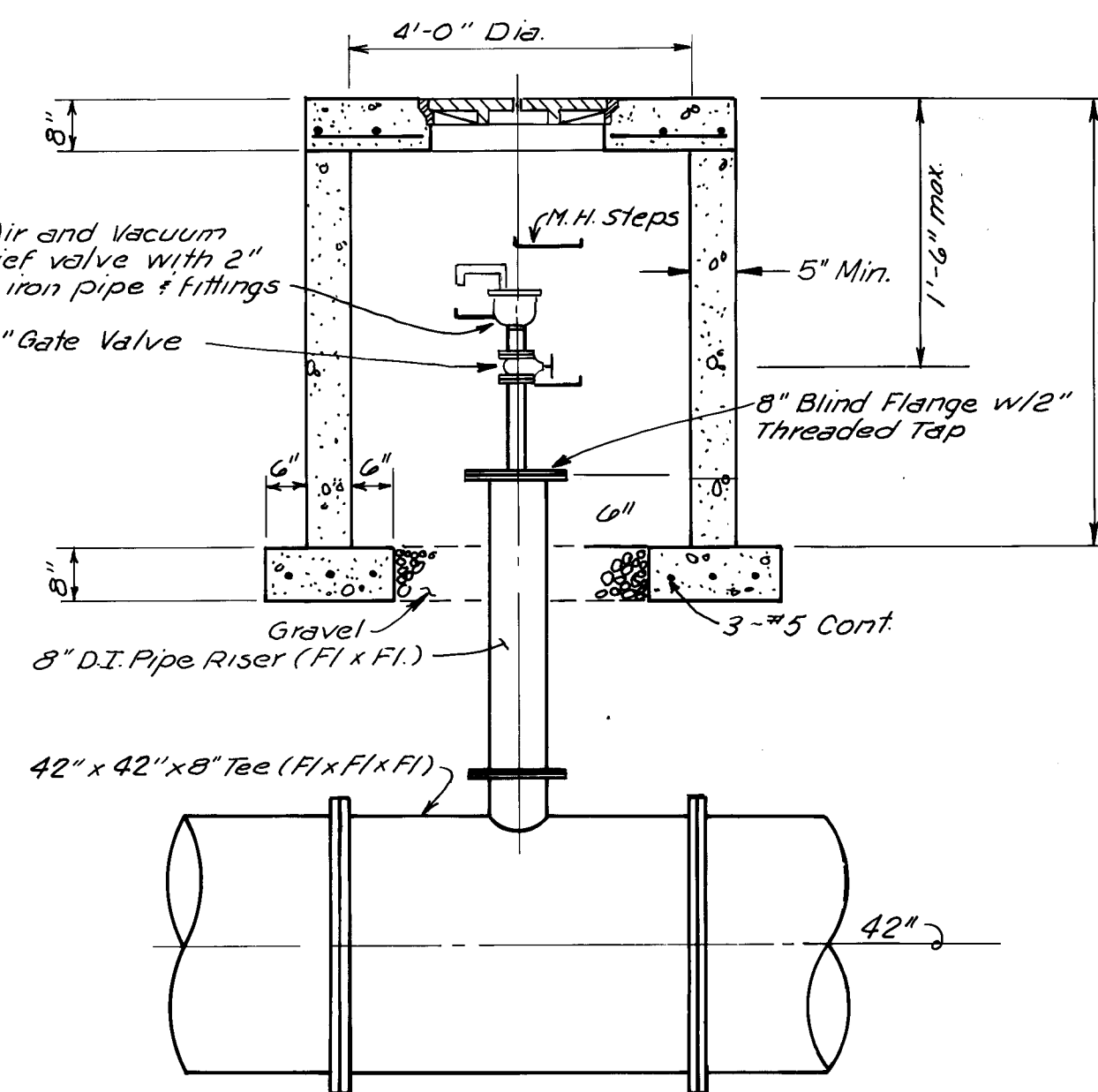
FLUORIDE & CHLORINE INJECTION M.H.
@ STA. 1+75.00 WELL COLLECTOR LINE



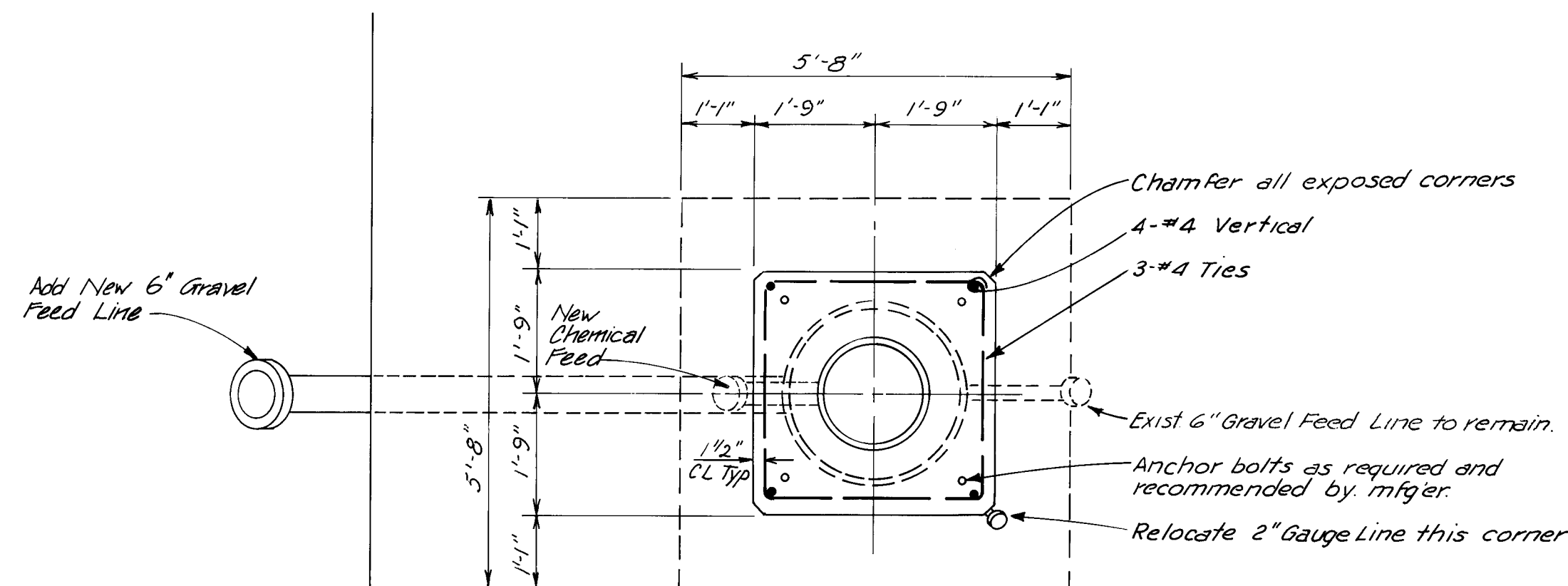
DOUBLE CLEANOUT DETAIL
NOT TO SCALE



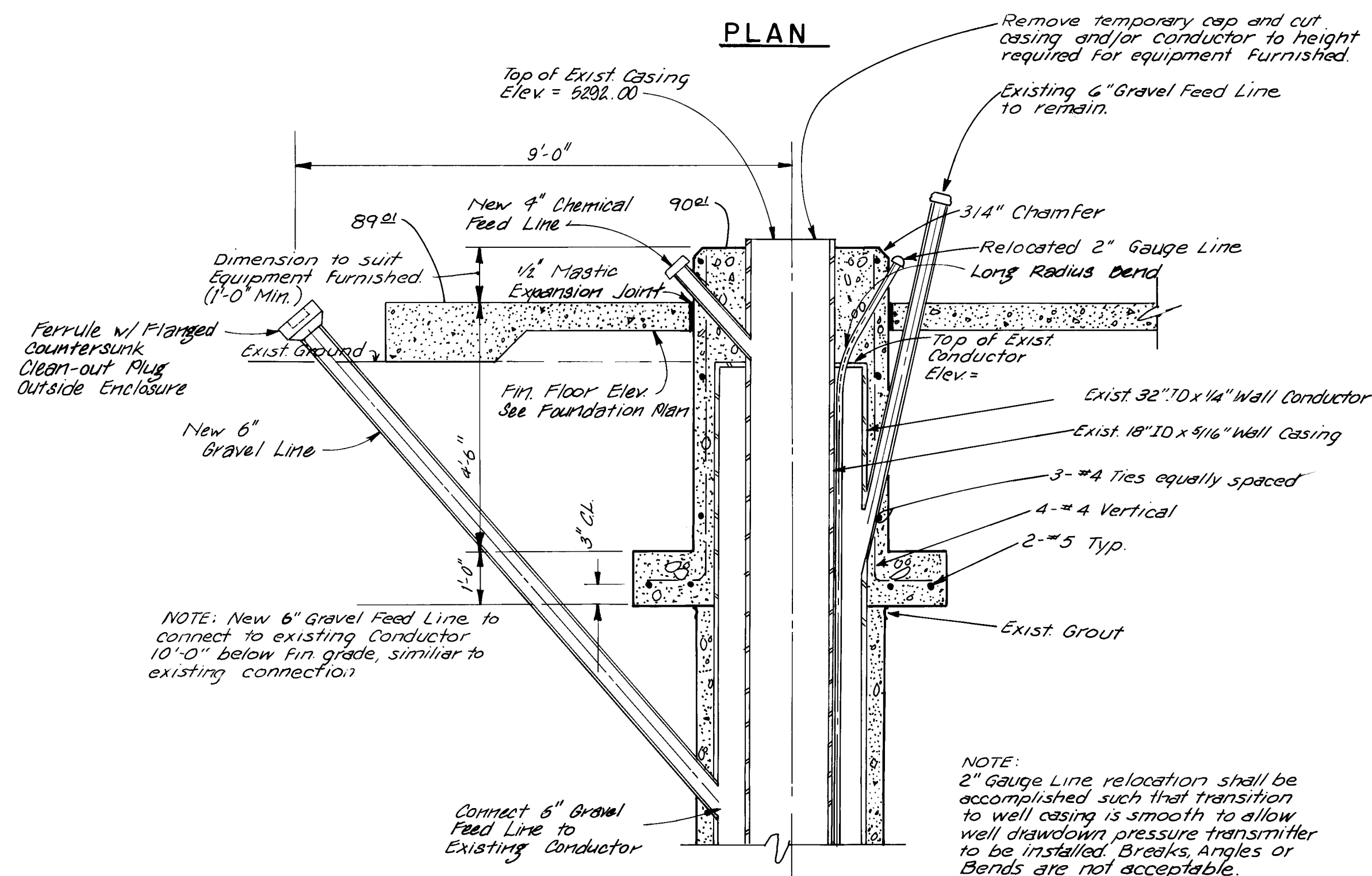
PLAN



AIR AND VACUUM RELIEF VALVE ASSEMBLY
SCALE: 1/2" = 1'-0"

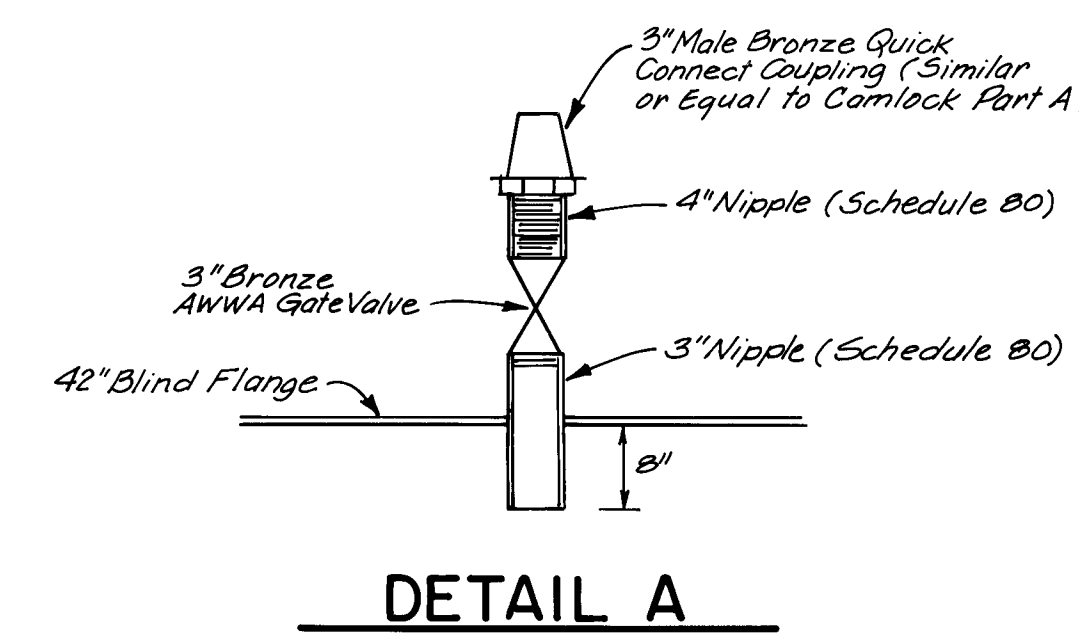


PLAN



SECTION

CORONADO PUMP
FOUNDATION DETAIL
NOT TO SCALE

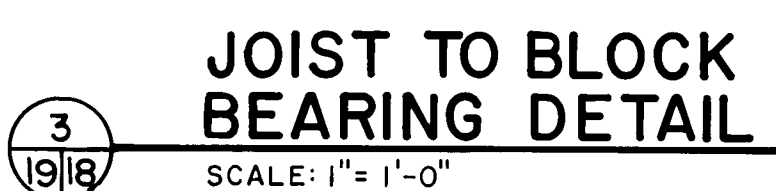
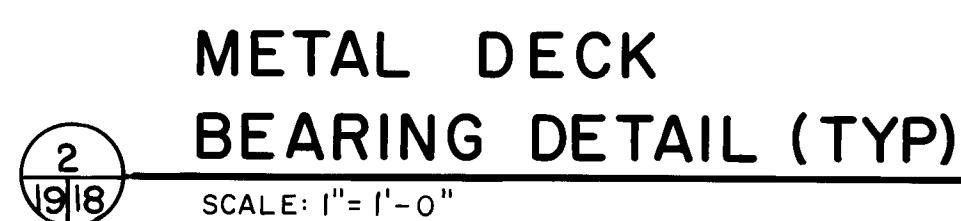


DETAIL A

SCALE: AS SHOWN

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
WELL EQUIPMENT DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO.	2947	MAP NO.	D-18	SHEET	17 OF 34

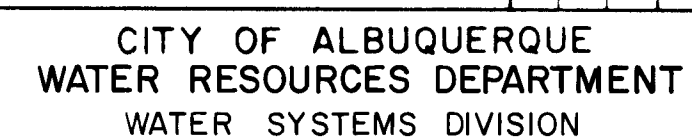
26 2947 1788



PROCEDURES ENCLOSURE DETAIL



SCALE: AS SHOWN



TITLE:	ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE
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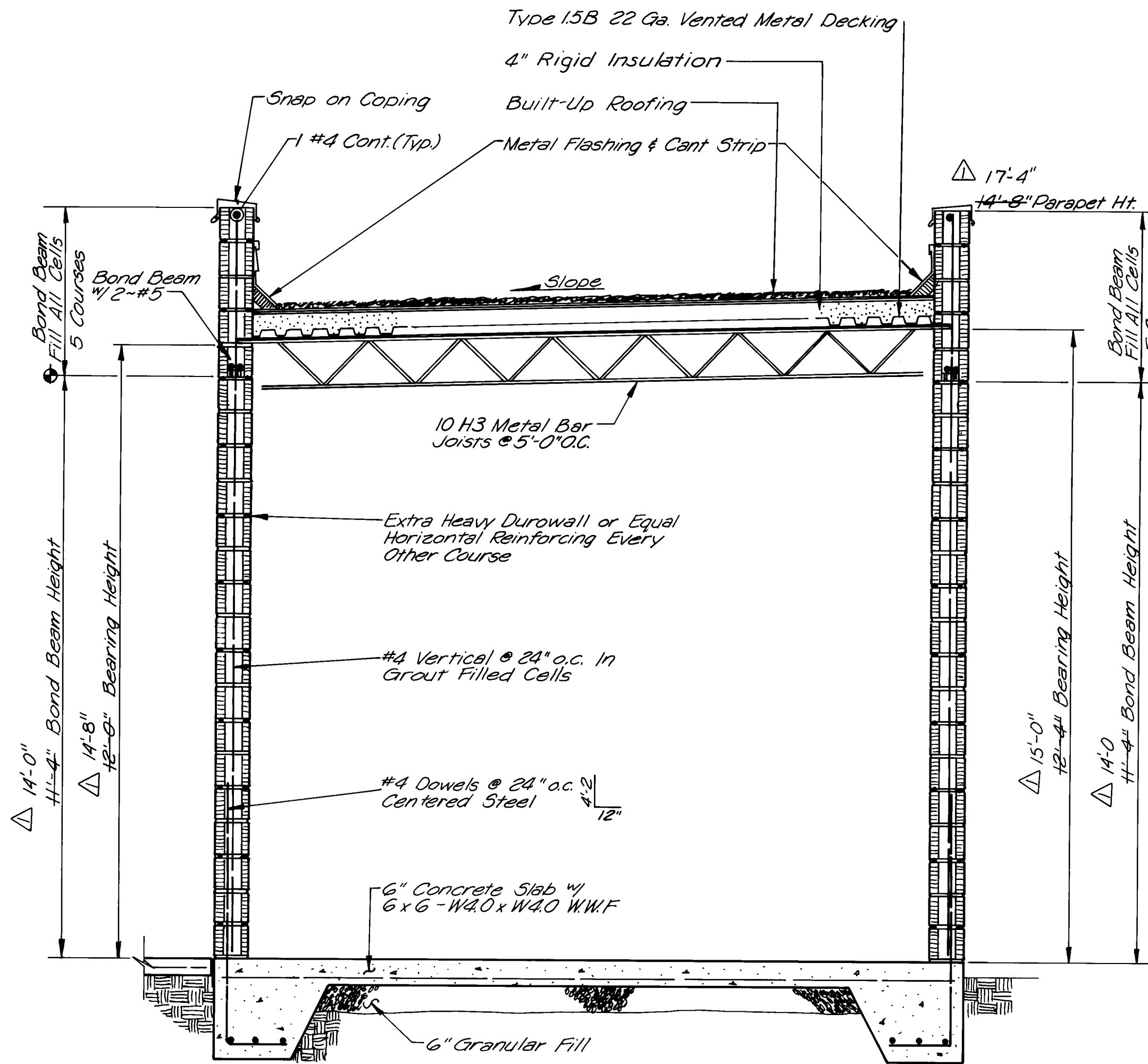
WELL EQUIPMENT DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

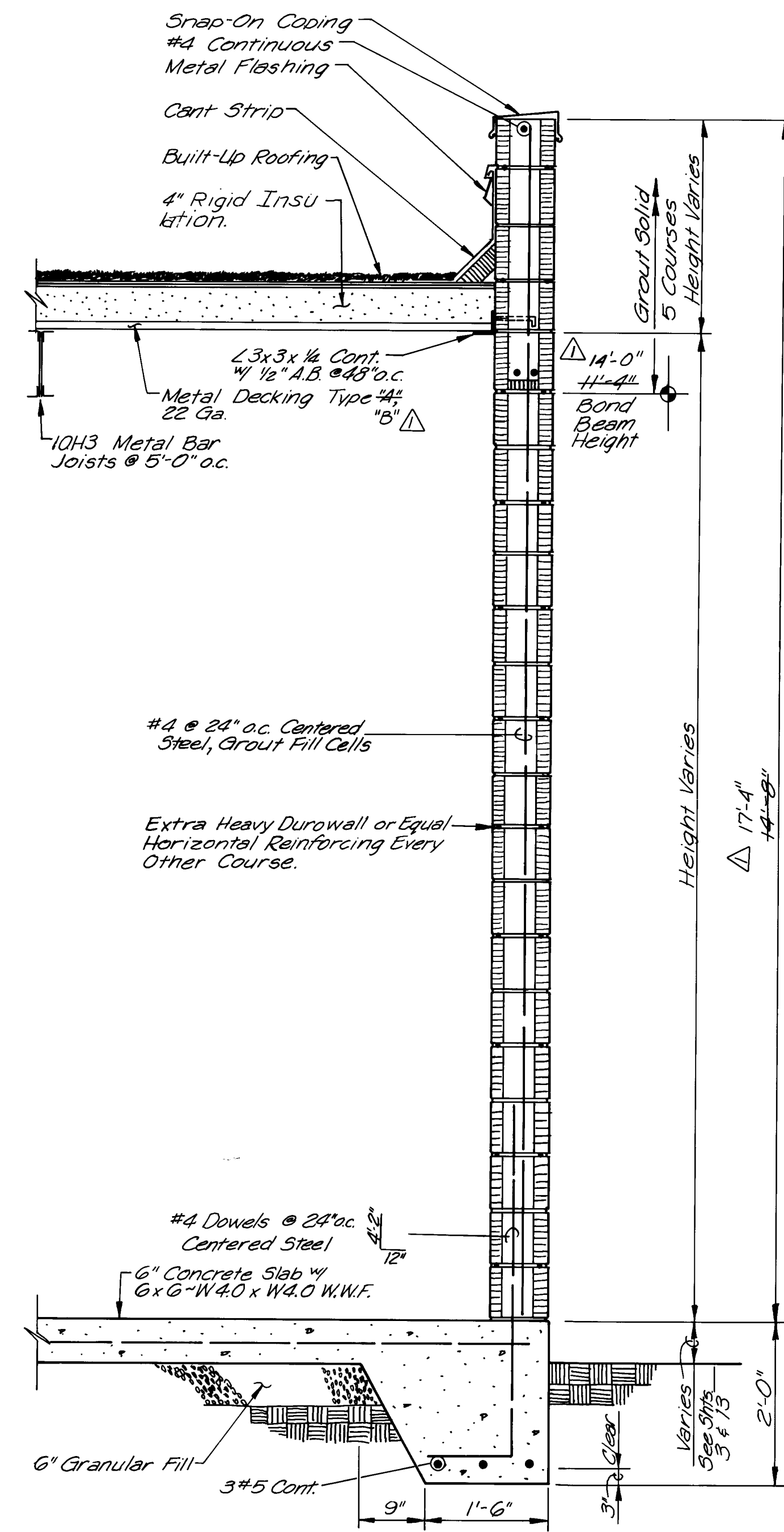
DRAWING NO.	2947	MAP NO.	D-18	SHEET	18	OF	34
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JOB NO. 42360

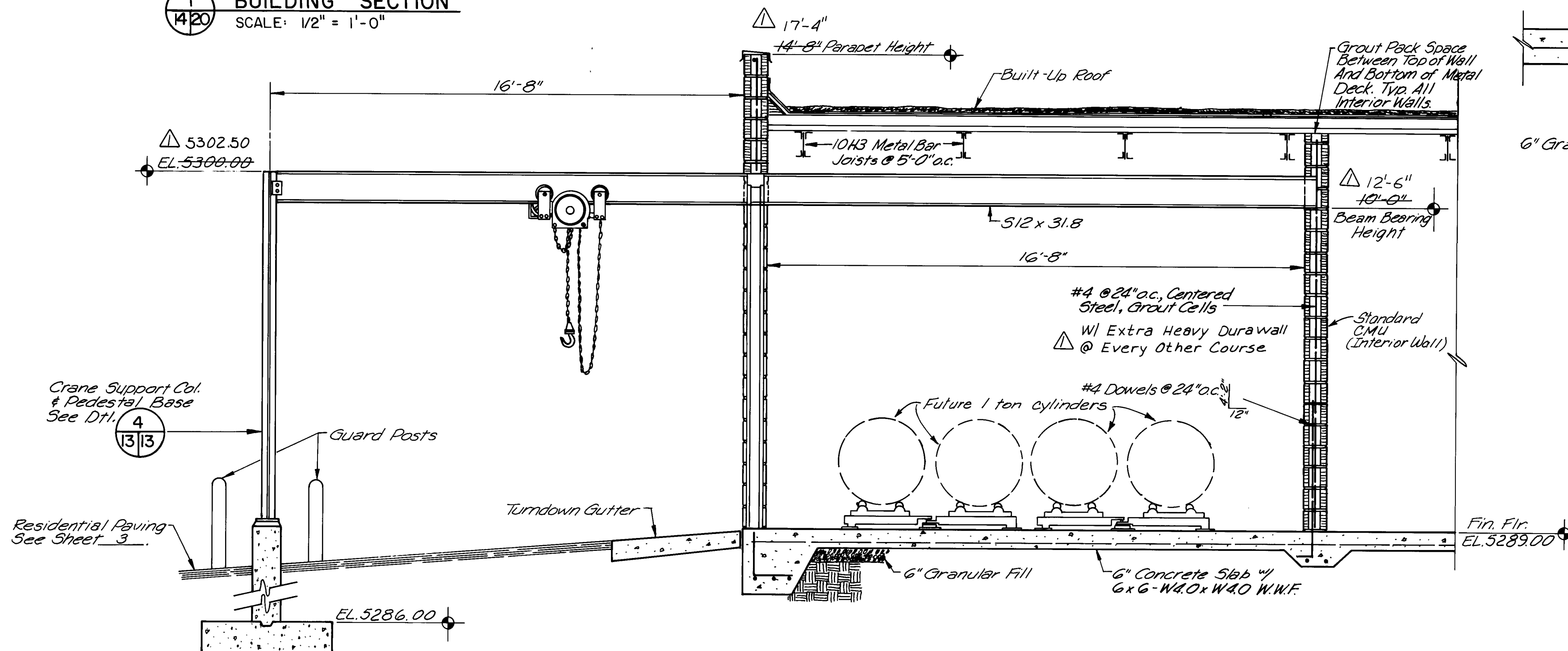
26 2947 1888



1 BUILDING SECTION
SCALE: 1/2" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"

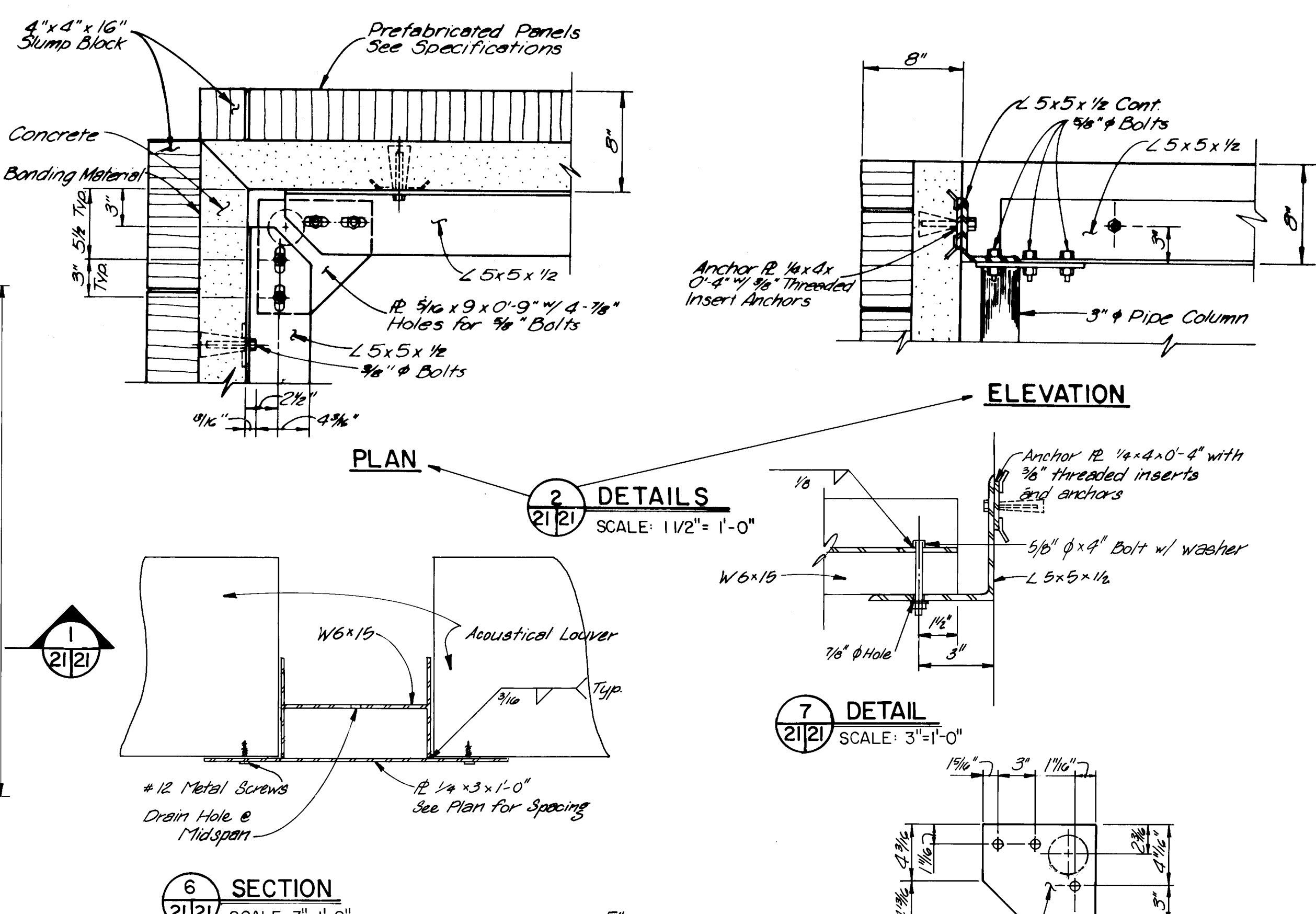


4 CHLORINE STORAGE ROOM SECTION
SCALE: 3/8" = 1'-0"
NO SCALE

SCALE: AS SHOWN

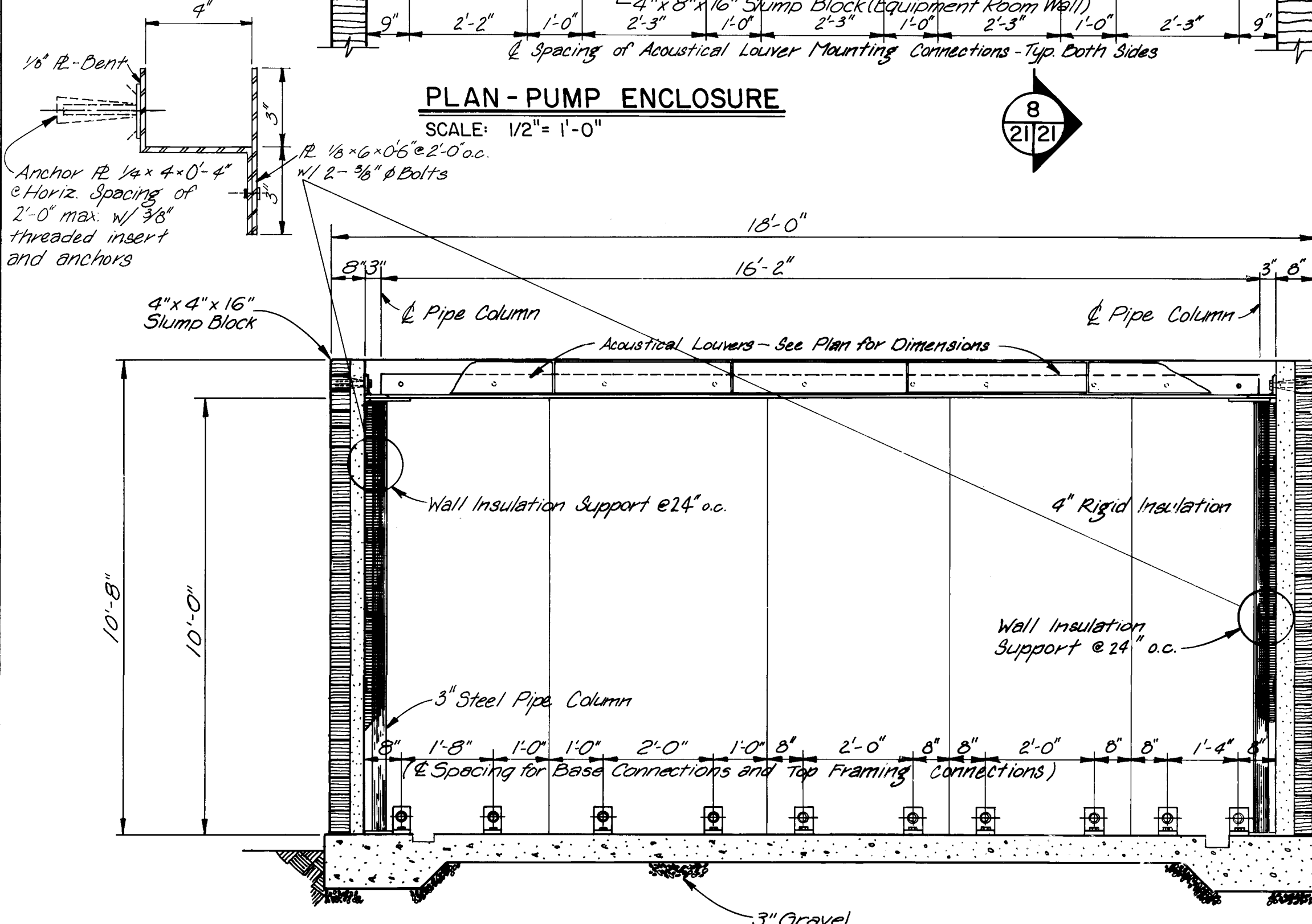
CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
TYPICAL WALL SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO.	2947	MAP NO.	D-18	SHEET	20 OF 34

26 2947 2088



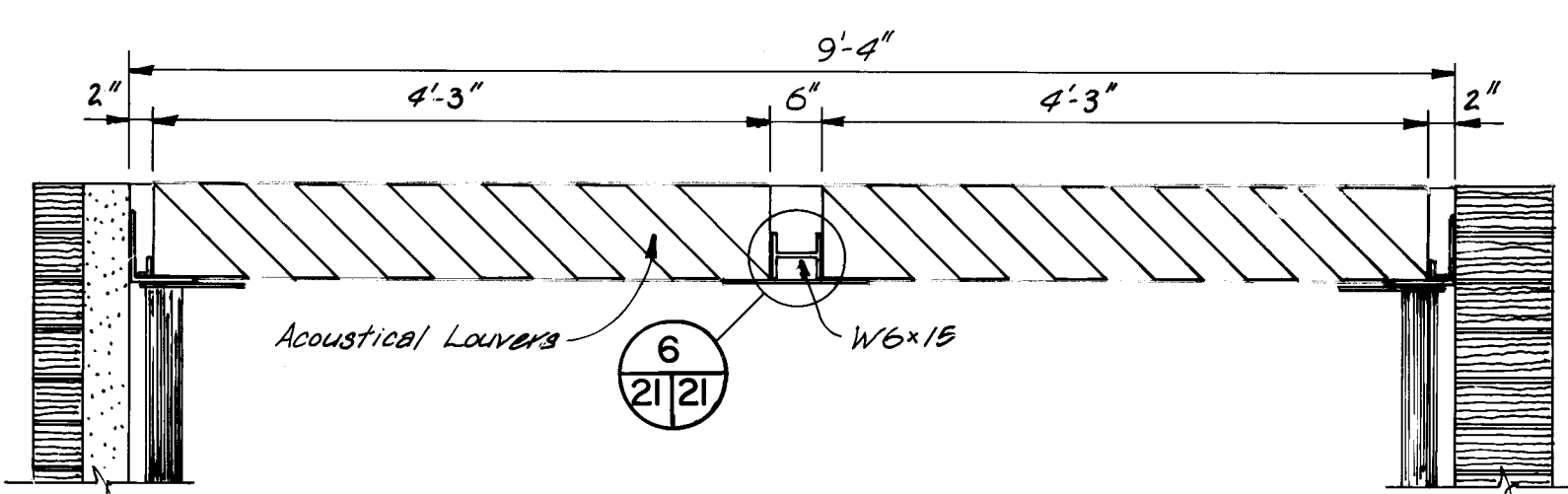
PLAN - PUMP ENCLOSURE

SCALE: 1/2" = 1'-0"
2'-0" o.c.
30/13



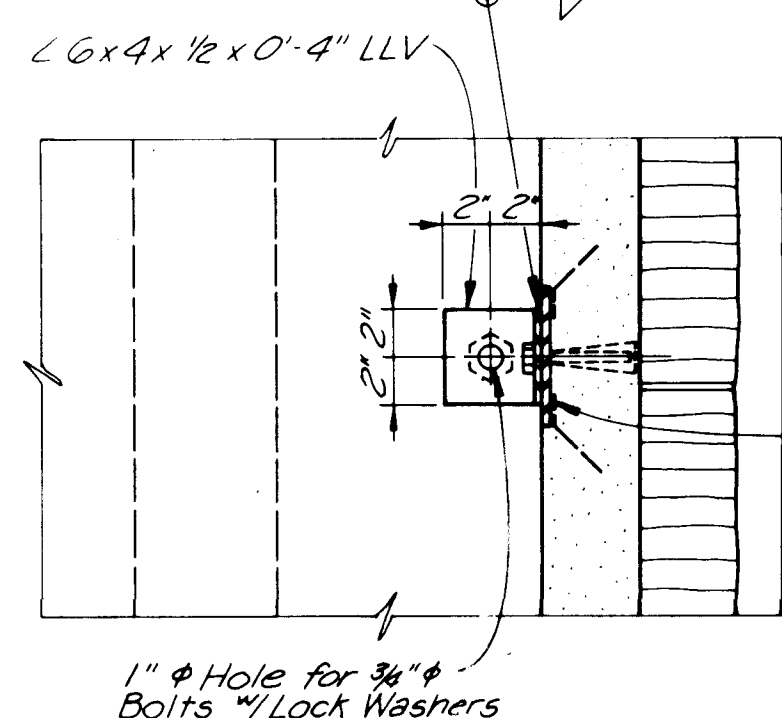
SECTION
SCALE: NONE

SCALE: NONE

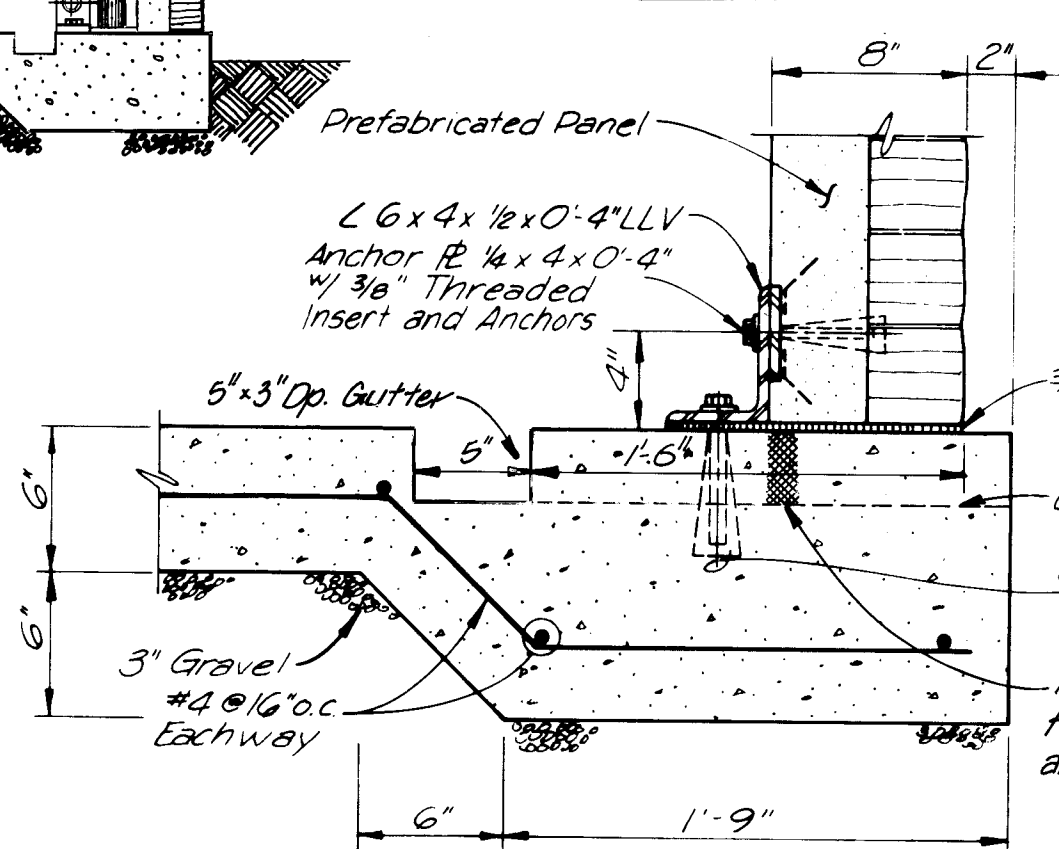


8 SECTION
21/21 SCALE: 3/4" =

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

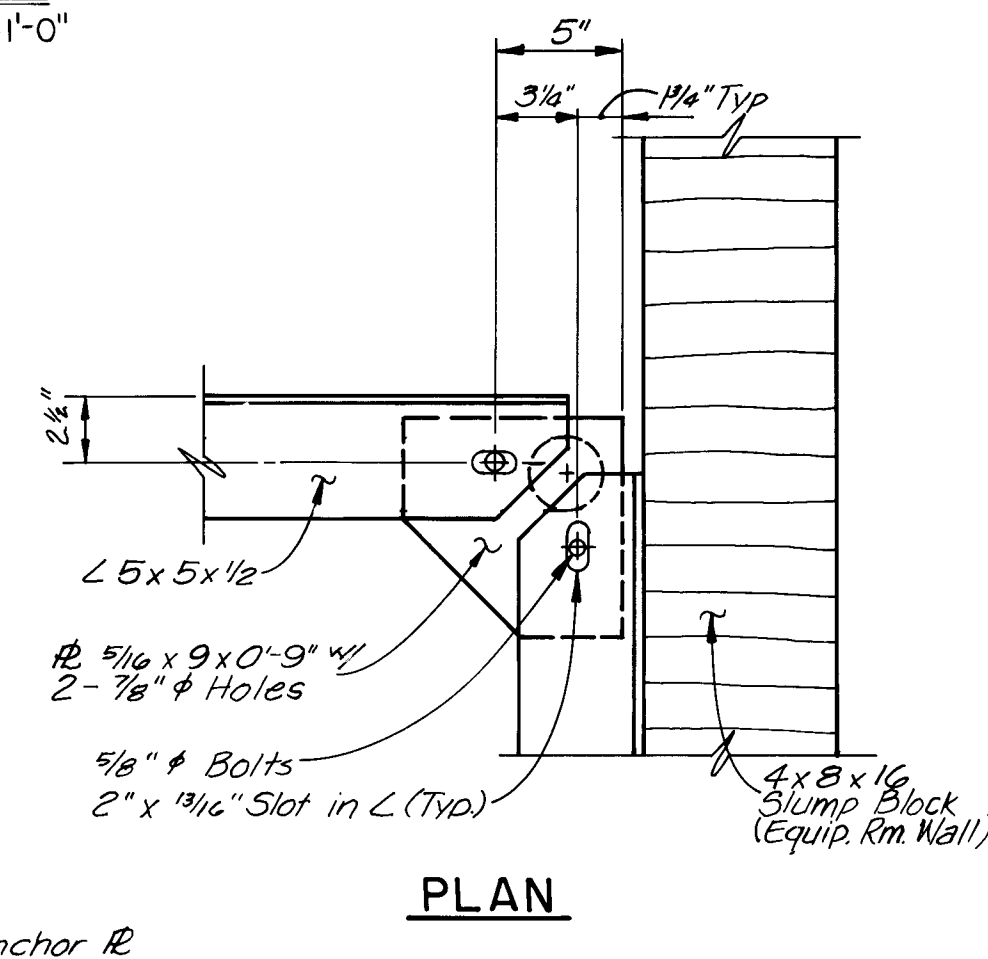


PLAN

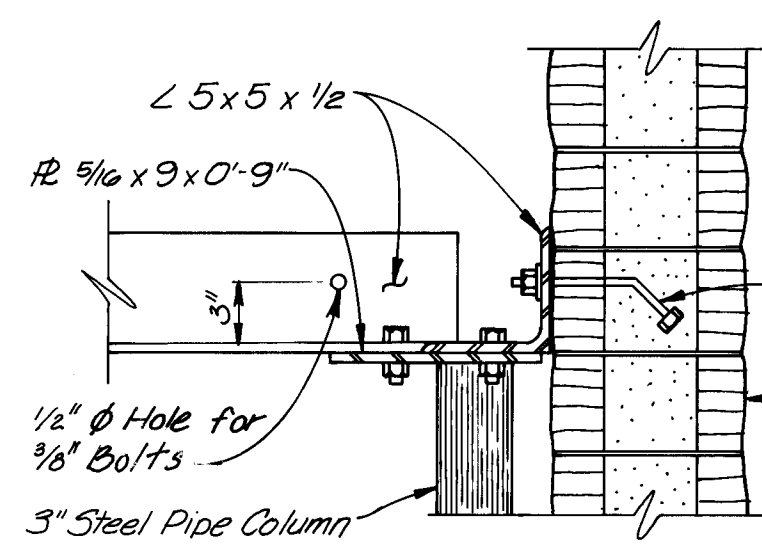


SECTION

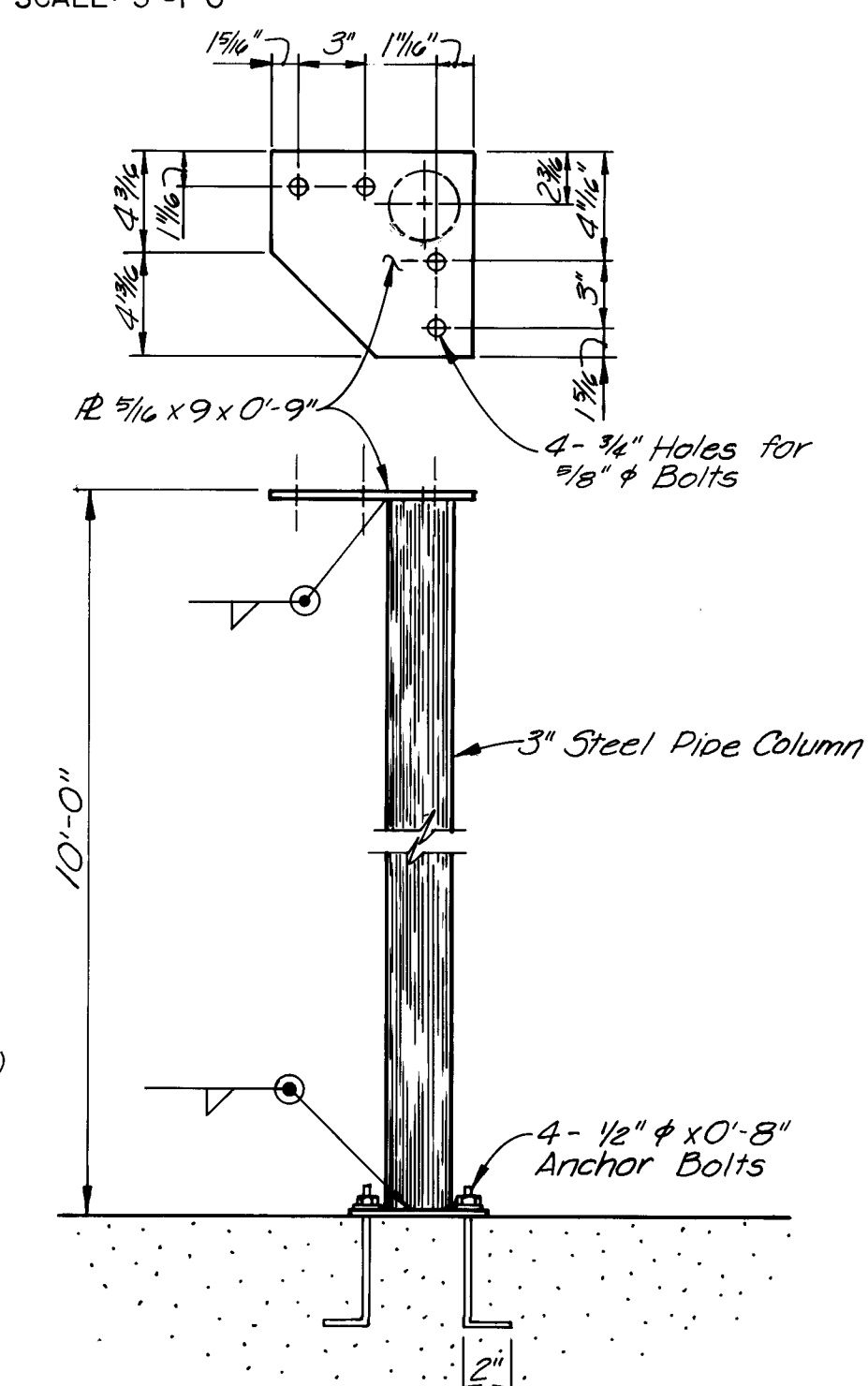
3 DETAILS
13/21 SCALE: 1 1/2" = 1'-0"



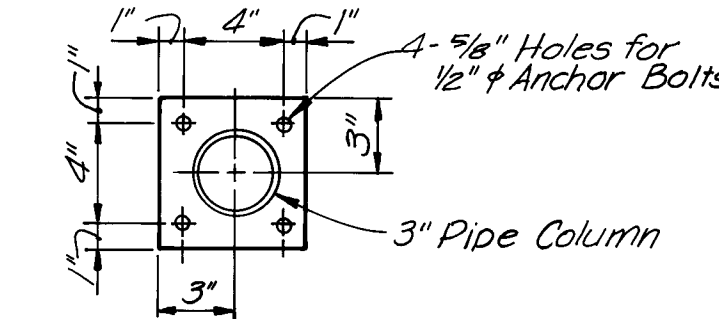
PLAN

ELEVATION

4 DETAILS
SCALE: 1 1/2" = 1'-0"

ELEVATION

5 DETAILS
21 21 SCALE: 1 1/2" = 1'-0"



SCALE: AS SHOWN



CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE:	ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE
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ENCLOSURE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E -Hydrology			Water		

DRAWING NO.	2947	MAP NO.	D-18	SHEET	21	OF	34
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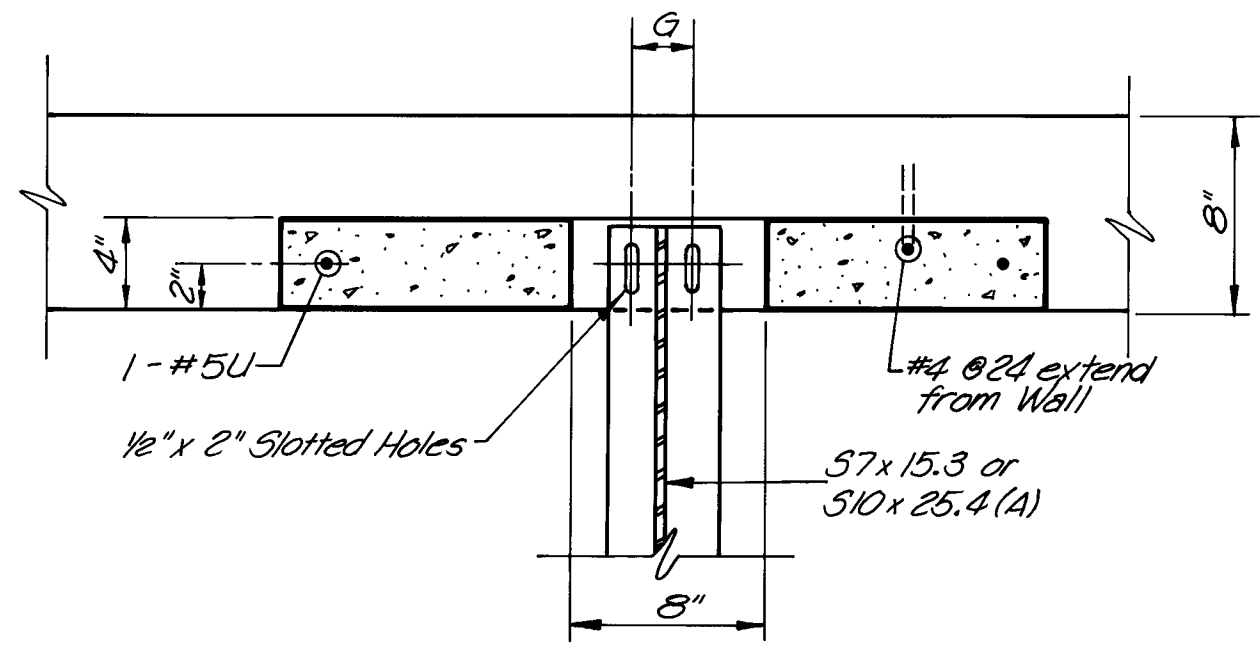
26 2947 2188

AS BUILT INFORMATION	DATE 6/1/88
CONTRACTOR MCC, Inc.	DATE 6/1/88
WORK ORDER	DATE 6/1/88
INSPECTED BY S. Walker	DATE 6/1/88
ACCEPTANCE BY BHI	DATE 6/1/88
FIELD VERIFICATION BY BHI	DATE 6/1/88
DRAWINGS	DATE 6/1/88
CORRECTED BY BHI	DATE 6/1/88
MICRO-FILM INFORMATION	DATE
RECORDED BY	DATE
NO	

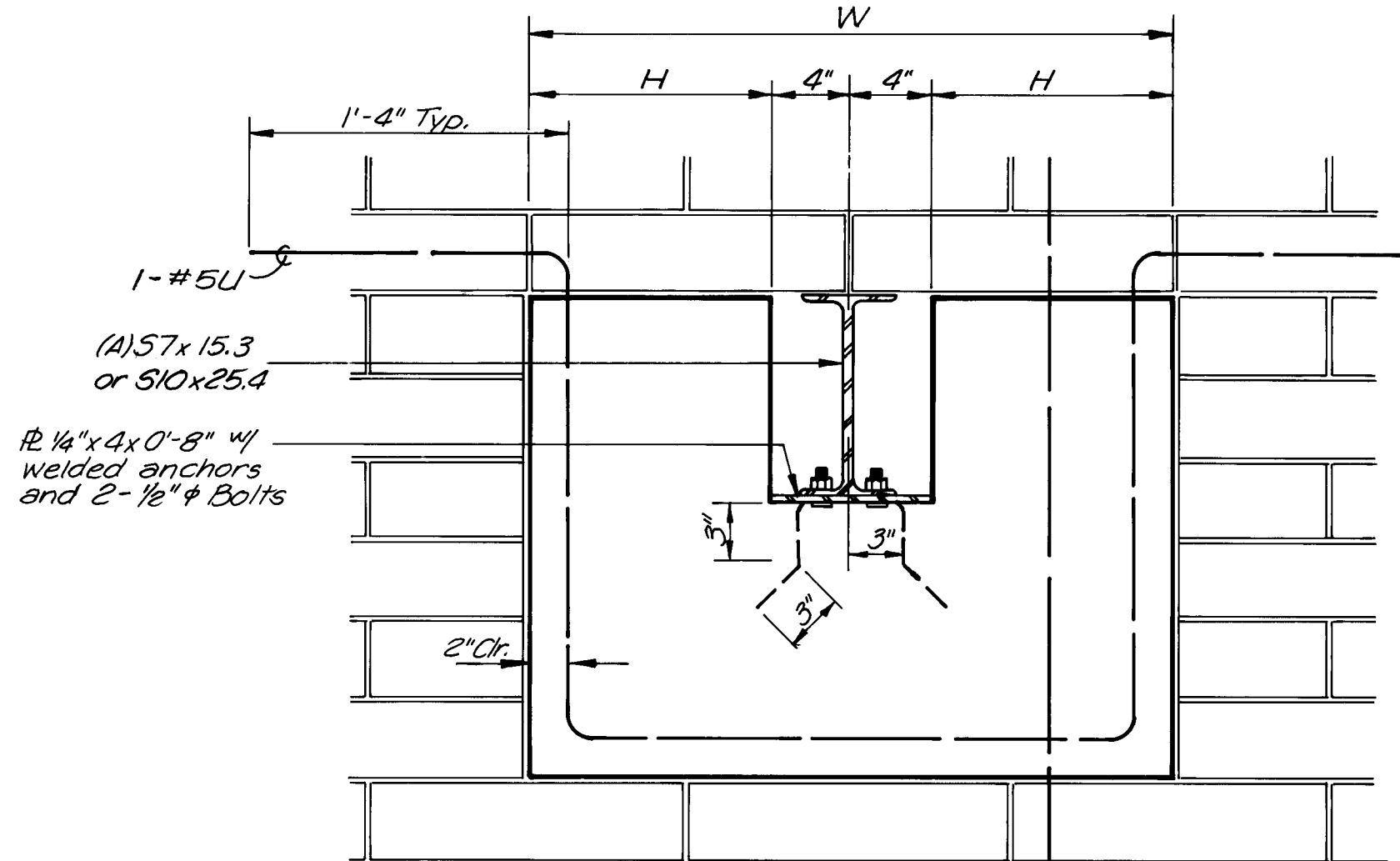
BENCH MARKS	
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[illegible][illegible]

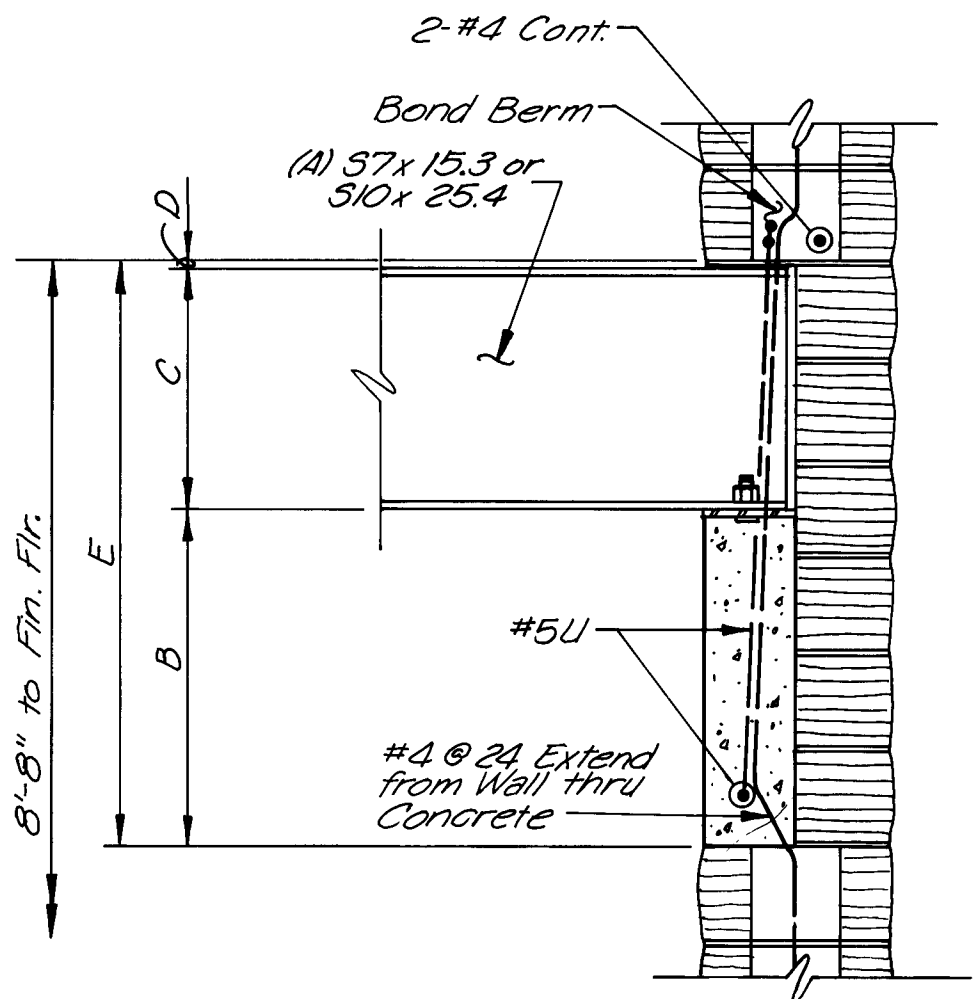
BEAM BEARING DETAIL SCHEDULE								
Location	A	B	C	D	E	G	H	W
①	510 x 25.4	14"	10"	0"	24"	2 7/8"	12"	2'-8"
②	57 x 15.3	8"	7"	1"	16"	2 1/8"	8"	2'-0"



PLAN

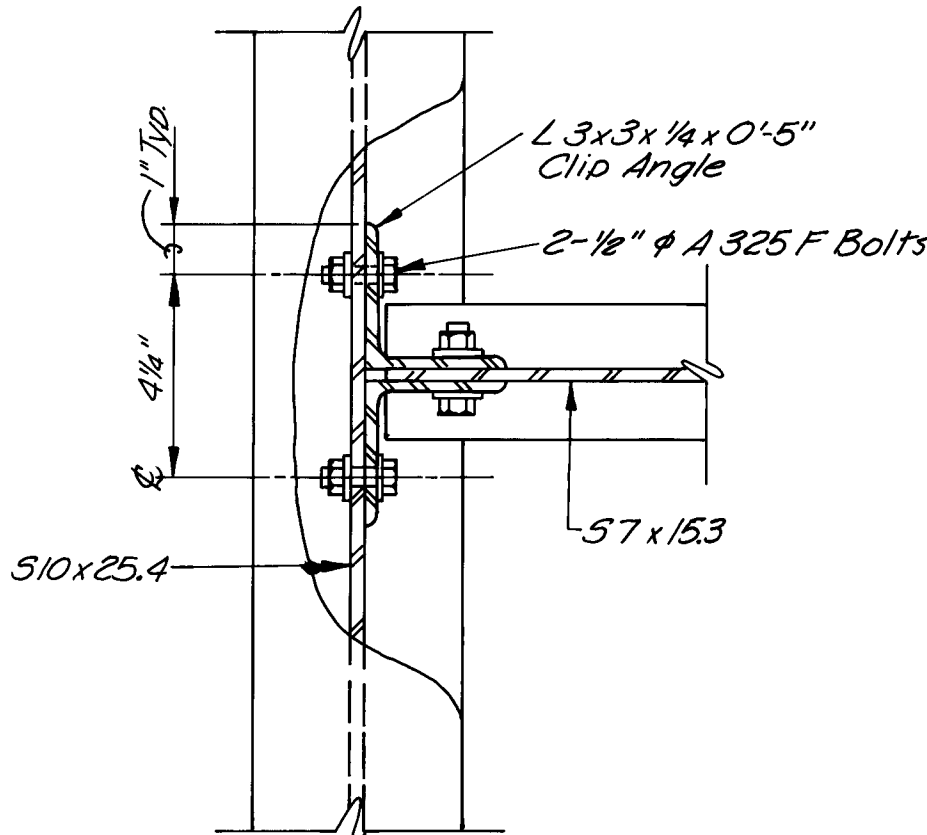


ELEVATION

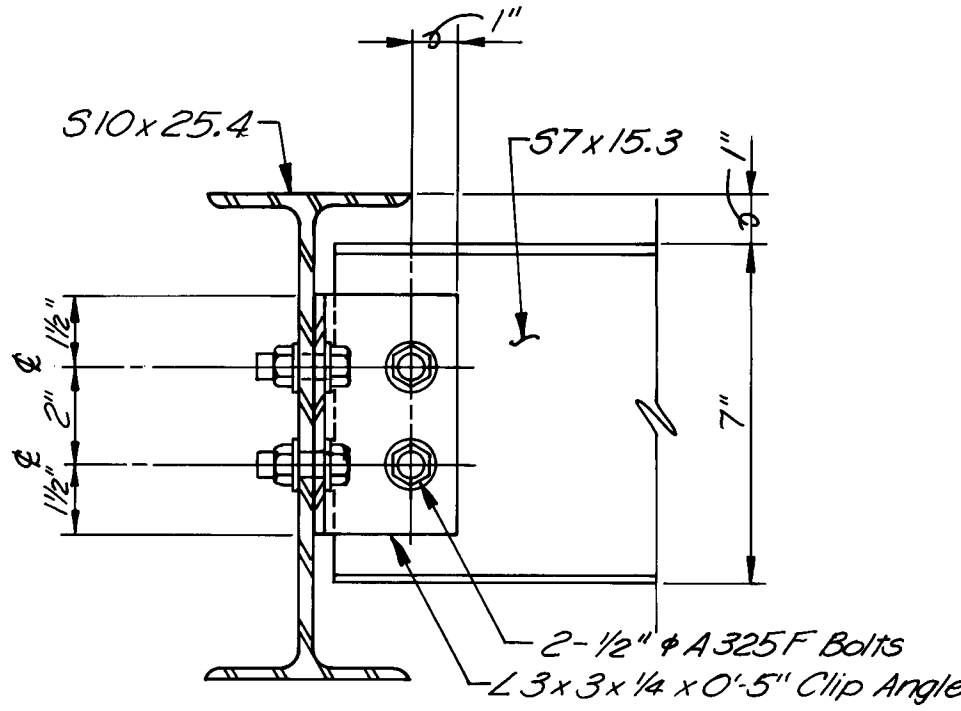


SECTION

1 BEAM BEARING DETAIL
SCALE: 1 1/2" = 1'-0"



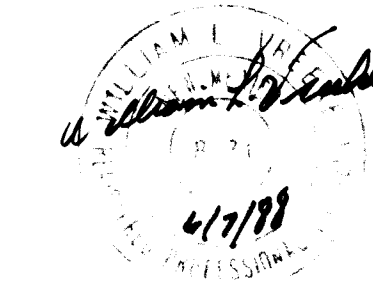
PLAN



ELEVATION

2 BEAM CONNECTION
SCALE: 3" = 1'-0"

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	NO.	INSPECTOR	DATE	NO.	FIELD NOTES	BY	DATE	ENGINEER'S SEAL	REMARKS	BY
MCC, Inc.	6/1/88		S. Walker	6/1/88							
ACCEPTANCE BY	DATE		VERIFICATION BY	DATE				DESIGNED BY		DATE	
DATE			DATE					DRAWN BY		DATE	
MICRO-FILM INFORMATION											
DATE			DATE								



RECORD DRAWINGS
DATE 6/7/88

SCALE: AS SHOWN

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

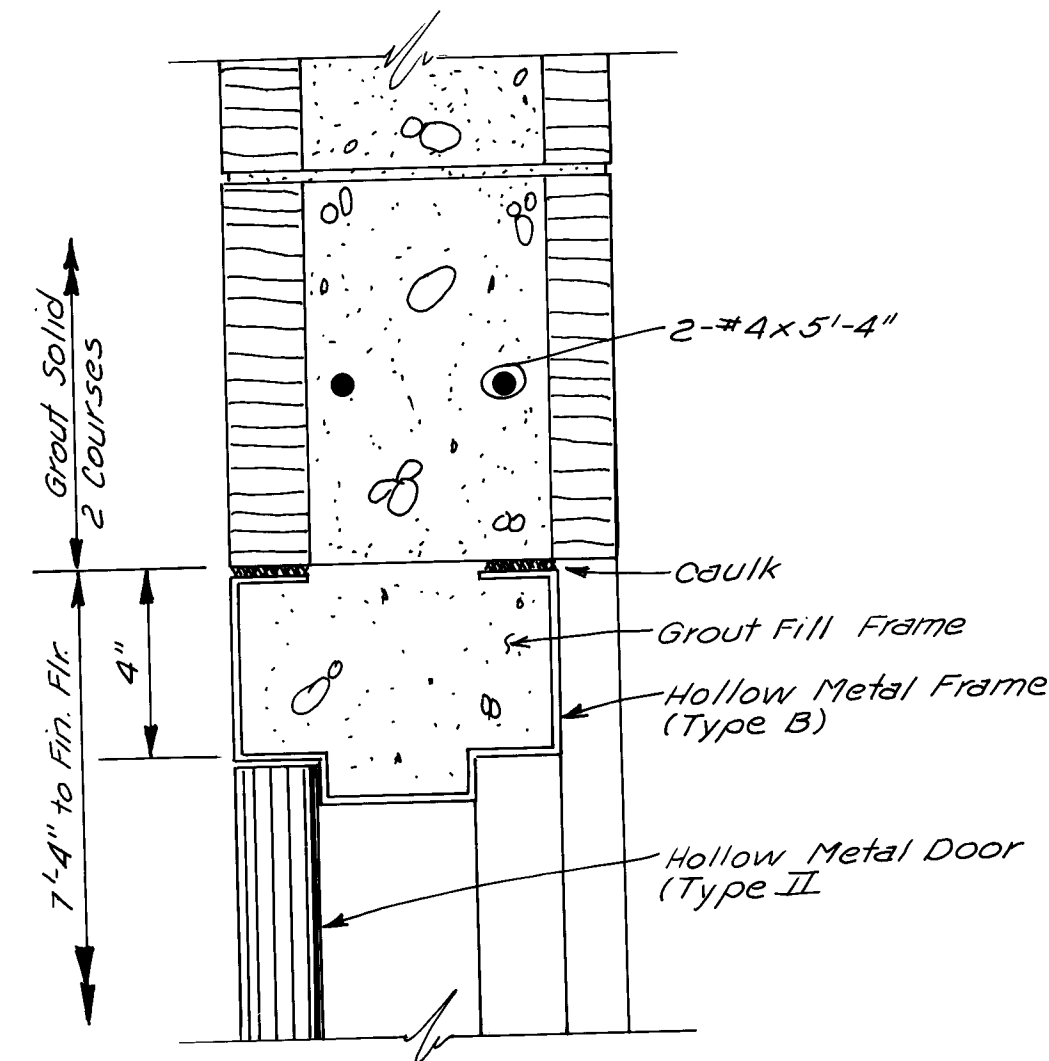
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE

BEAM DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

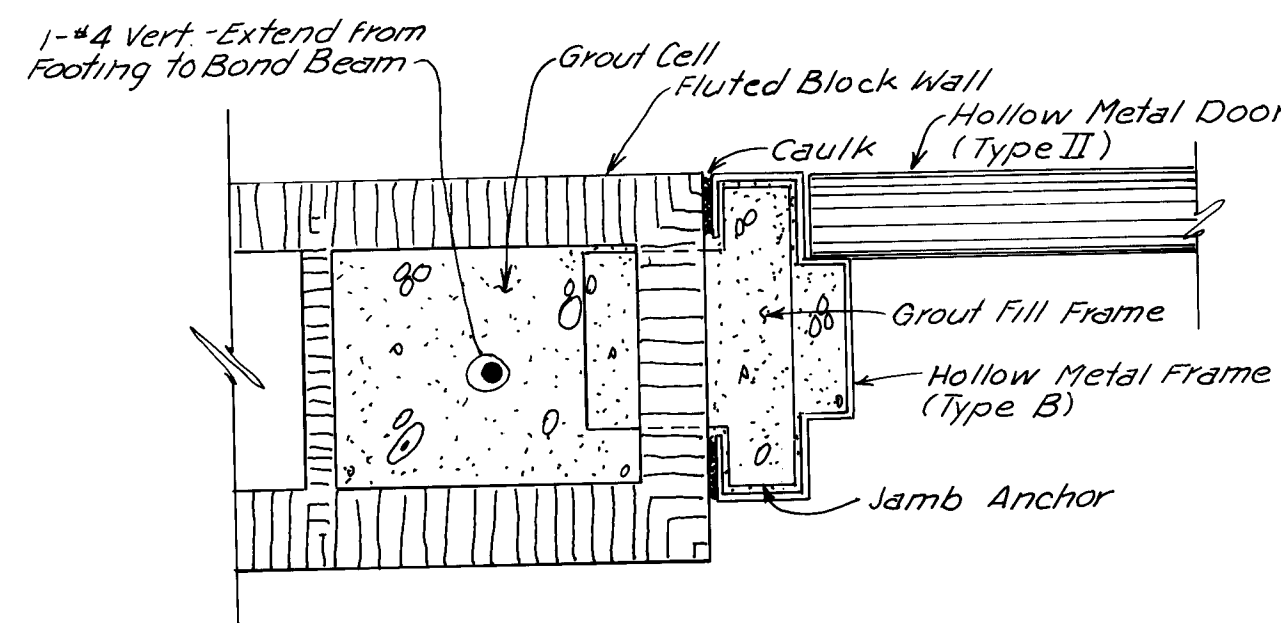
DRAWING NO. 2947 MAP NO. D-18 SHEET 22 OF 34

26 2947 2188



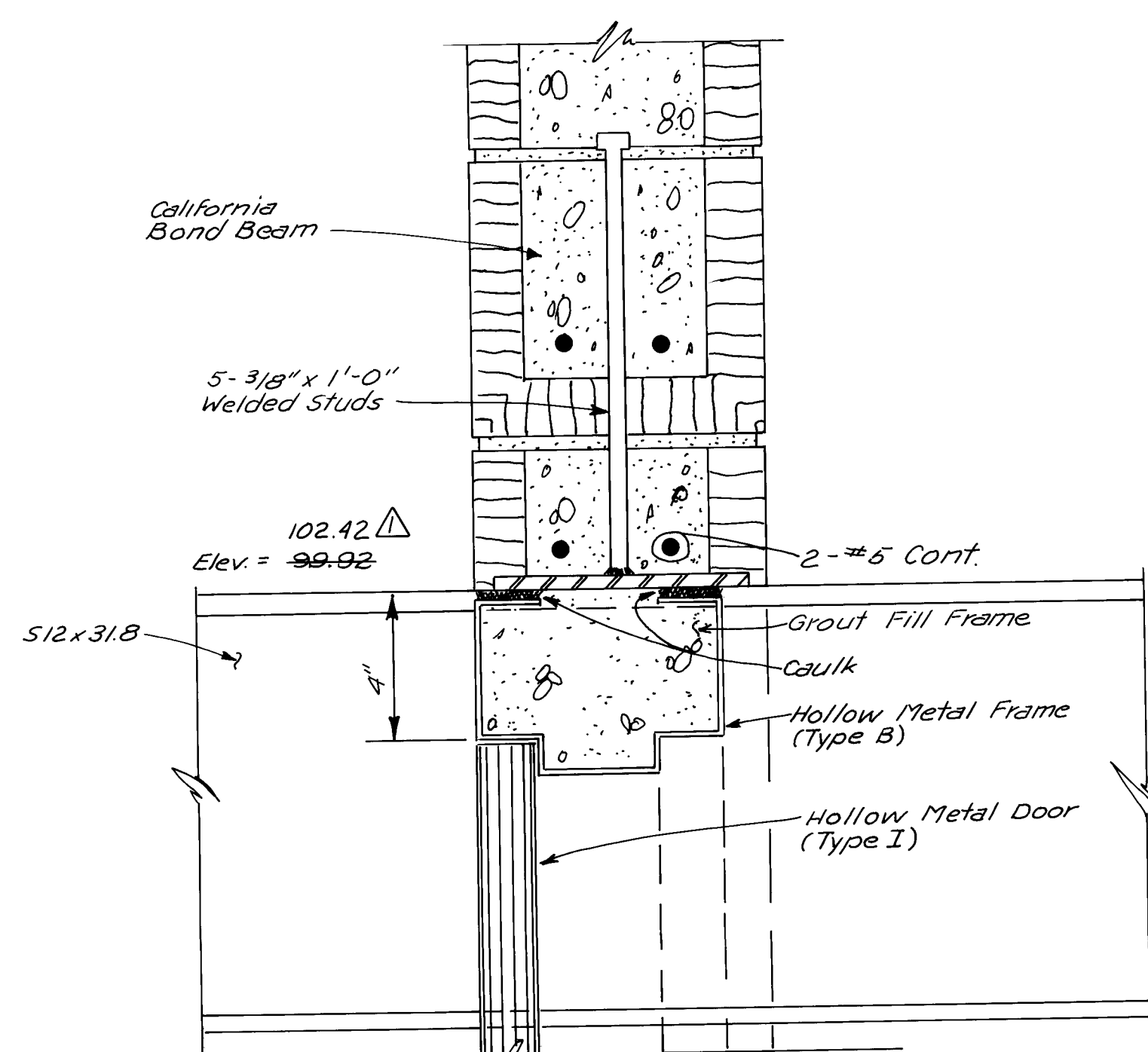
DOOR HEAD DETAIL (TYPE II)

SCALE: 3"=1'-0"



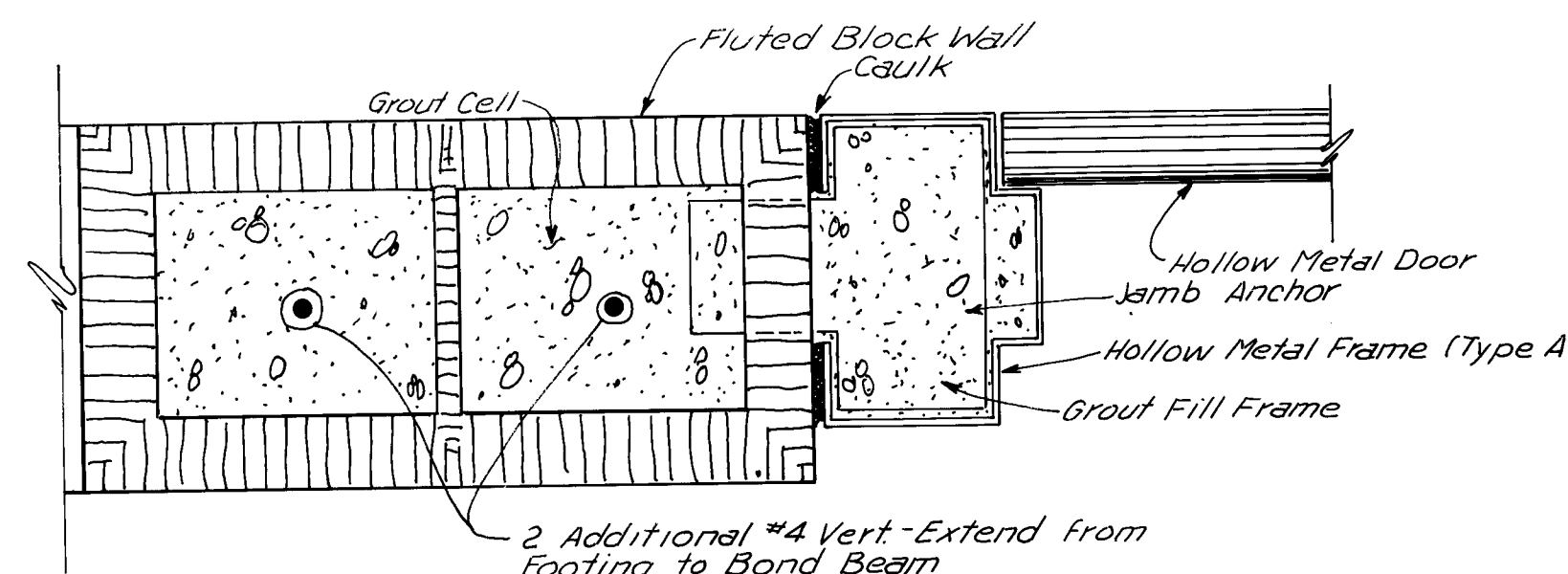
DOOR JAMB DETAIL (TYPE II)

SCALE: 3"=1'-0"



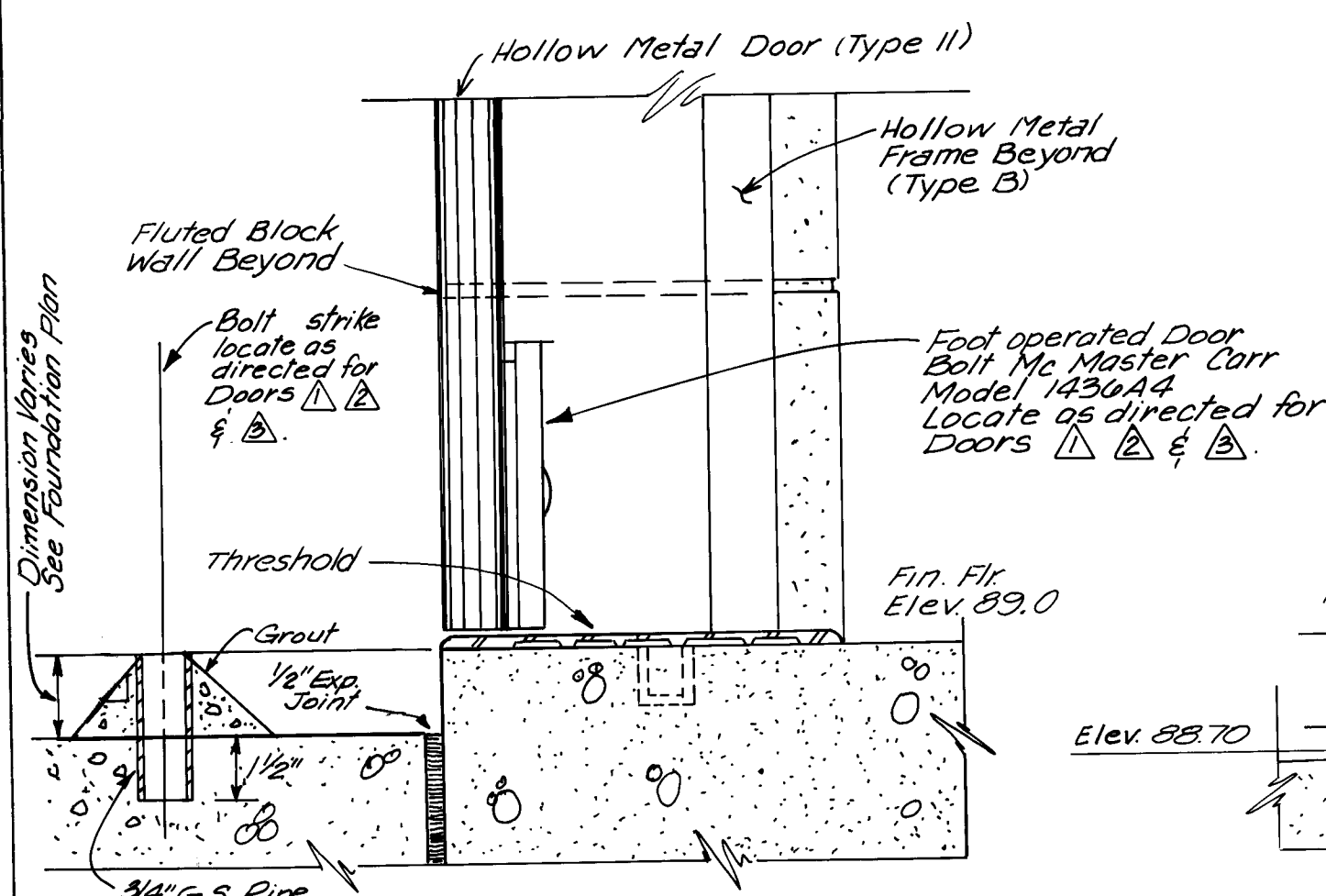
DOOR HEAD DETAIL (TYPE I)

SCALE: 3"=1'-0"



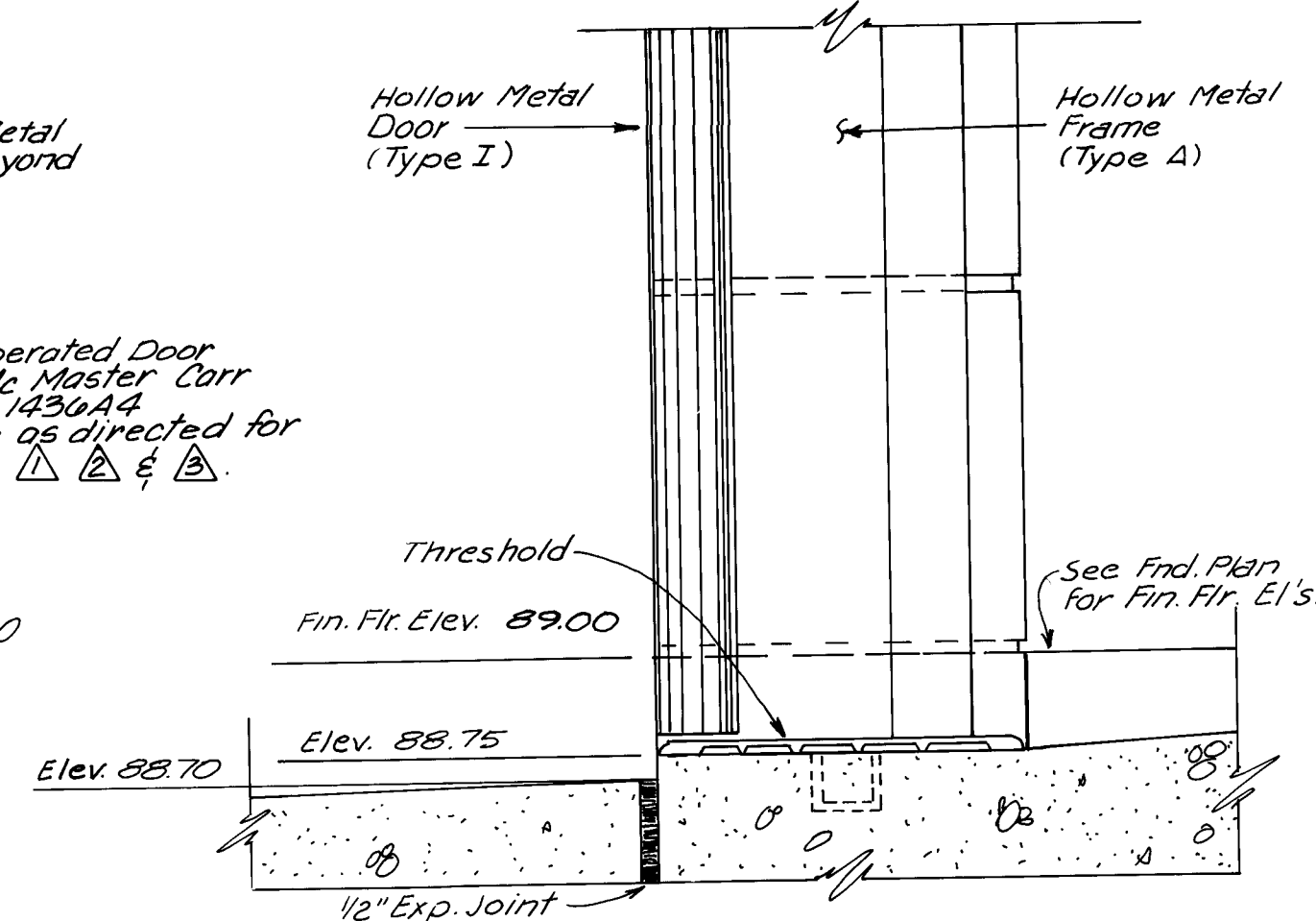
DOOR JAMB DETAIL (TYPE I)

SCALE: 3"=1'-0"



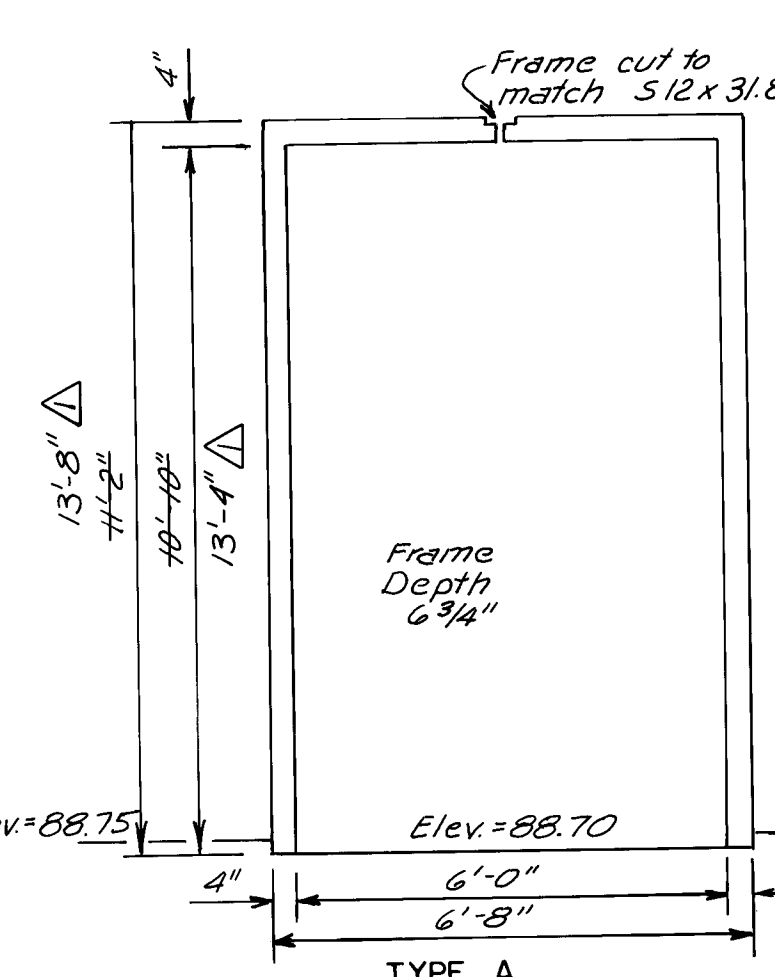
DOOR THRESHOLD DETAIL (TYPE II)

SCALE: 3"=1'-0"



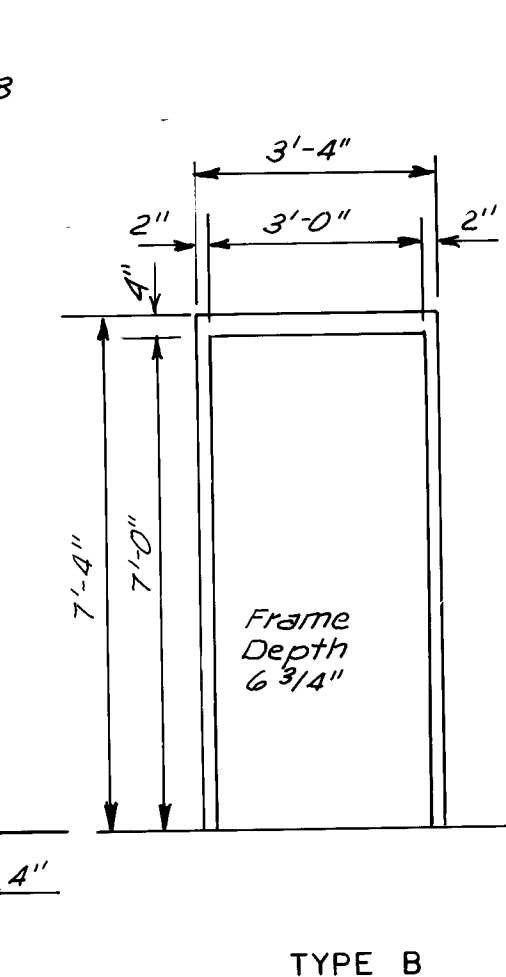
DOOR THRESHOLD DETAIL (TYPE I)

SCALE: 3"=1'-0"

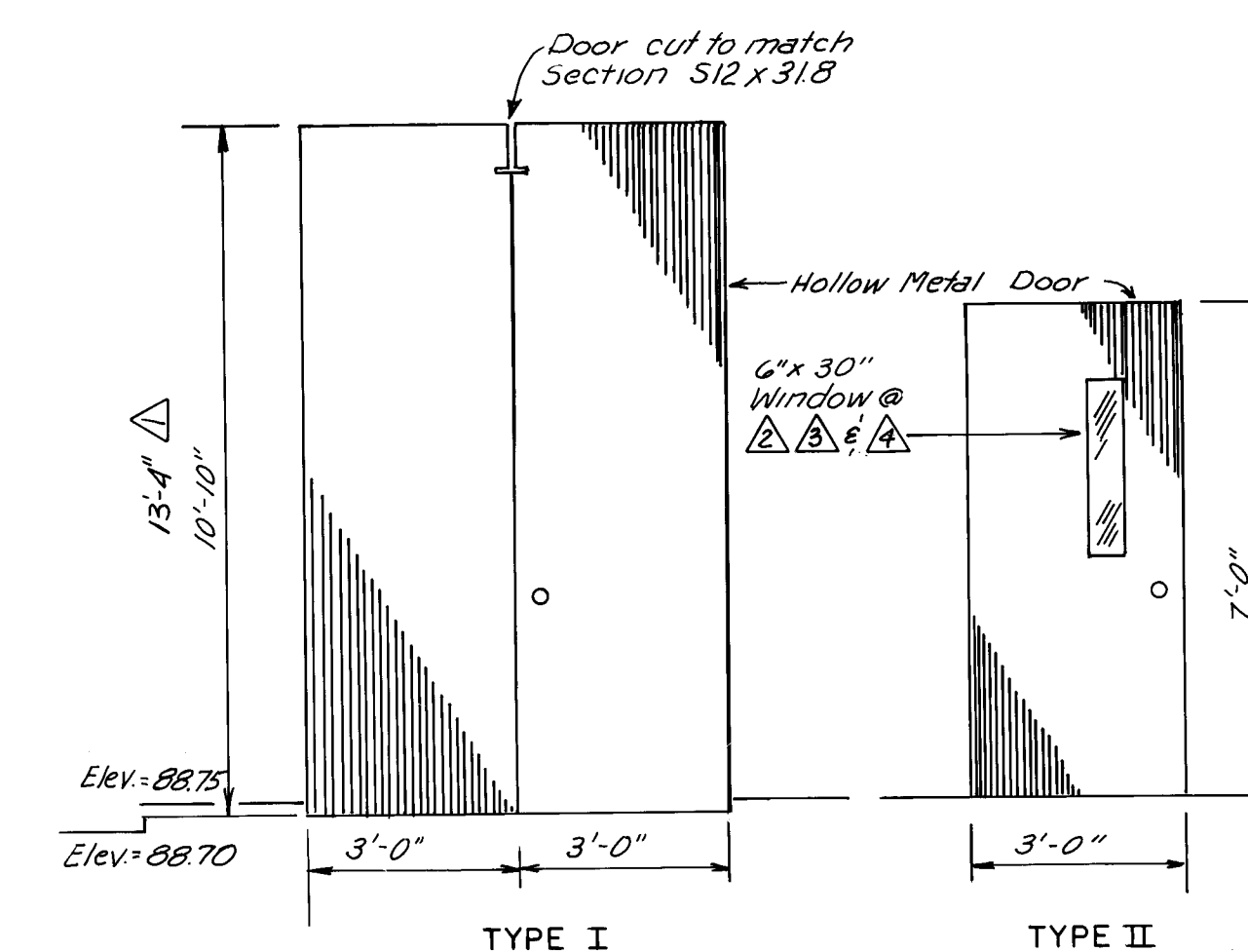


DOOR FRAME TYPES

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



TYPE B



TYPE I

TYPE II

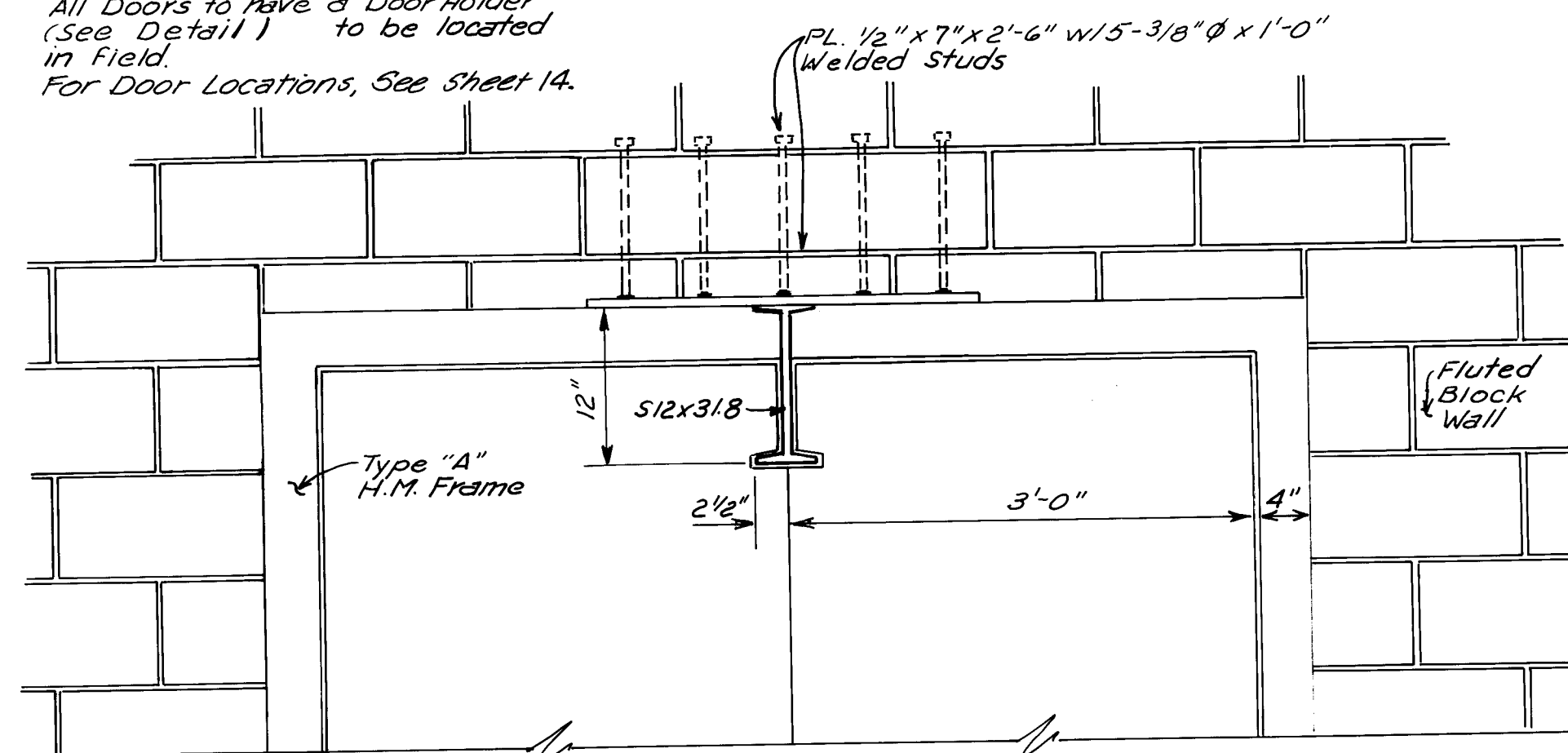
DOOR TYPES

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

DOOR AND FRAME SCHEDULE								
DOORS						FRAMES		SWING
DOOR	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	TYPE	MATERIAL	
1	3'-0"	7'-0"	13/4"	II	H.M.	B	H.M.	180°
2	3'-0"	7'-0"	13/4"	II	H.M.	B	H.M.	180°
3	3'-0"	7'-0"	13/4"	II	H.M.	B	H.M.	180°
4	3'-0"	7'-0"	13/4"	II	H.M.	B	H.M.	180°
5	3'-0"	7'-0"	13/4"	II	H.M.	B	H.M.	180°
6	2'-3'-0"	10'-4"	13/4"	I	H.M.	A	H.M.	180°
7	13'-4"							

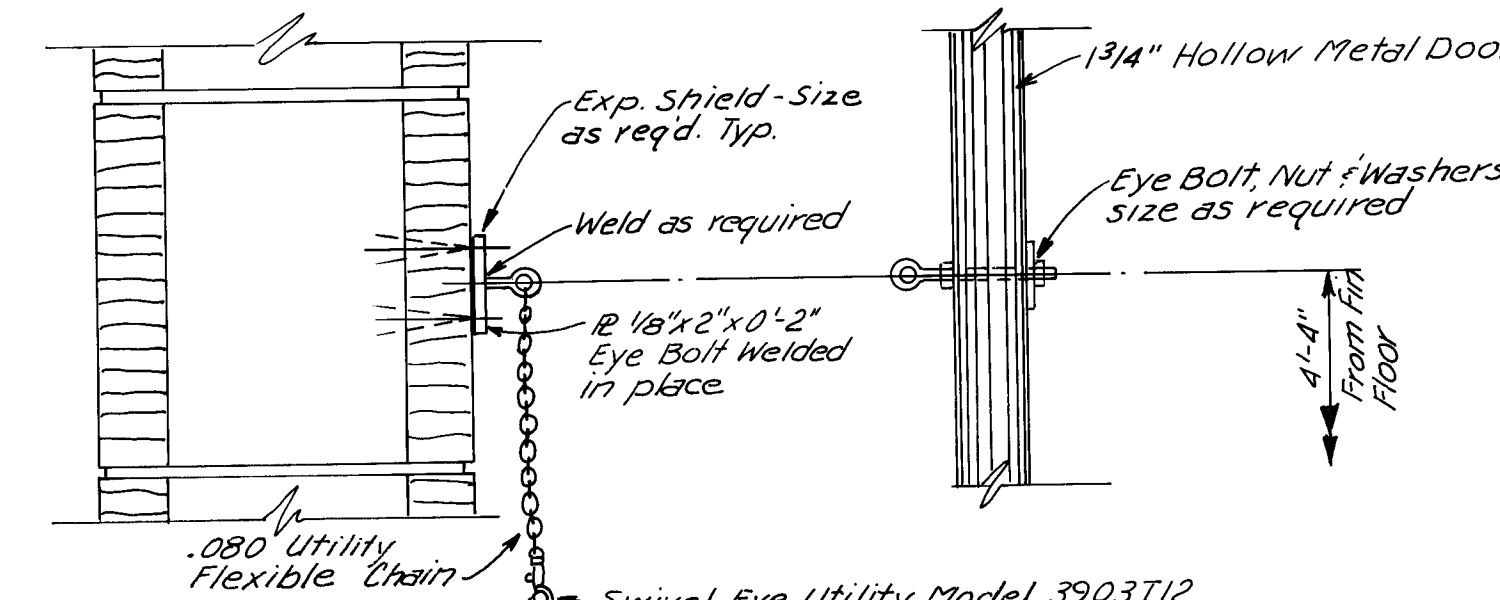
For Window and Door Hardware - See Spec's

NOTE:
All Doors to have a Door Holder (See Detail) to be located in Field.
For Door Locations, See Sheet 14.



DOOR HEAD ELEVATION (TYPE I)

SCALE: 1"=1'-0"



DOOR HOLDER DETAIL (TYPE I DOORS ONLY)

NOT TO SCALE



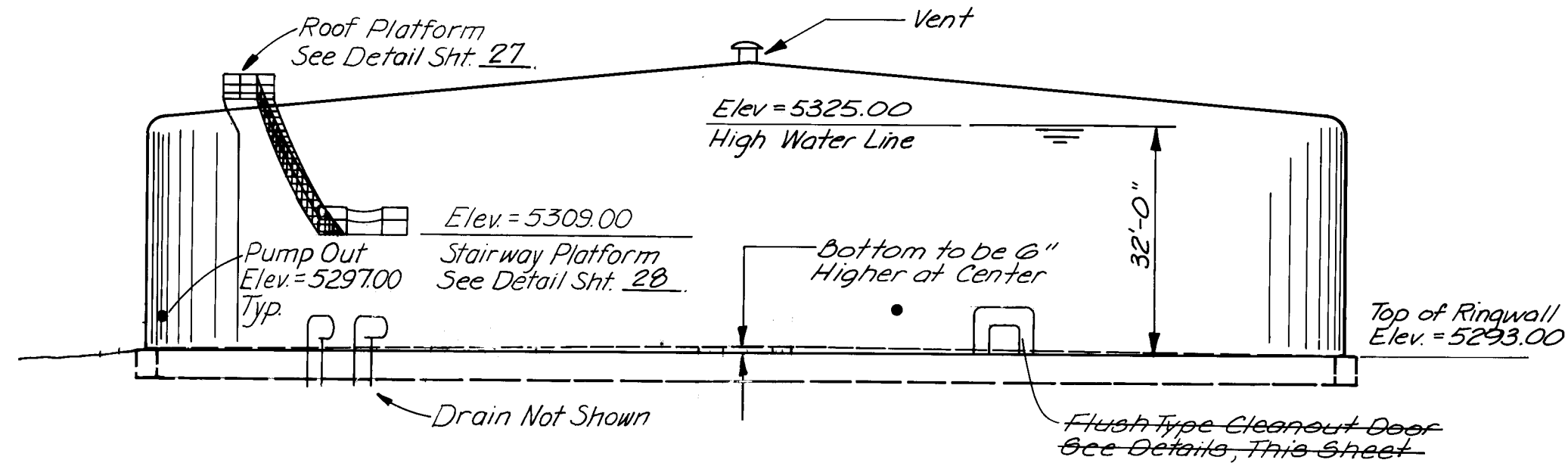
6/7/88

SCALE: AS SHOWN

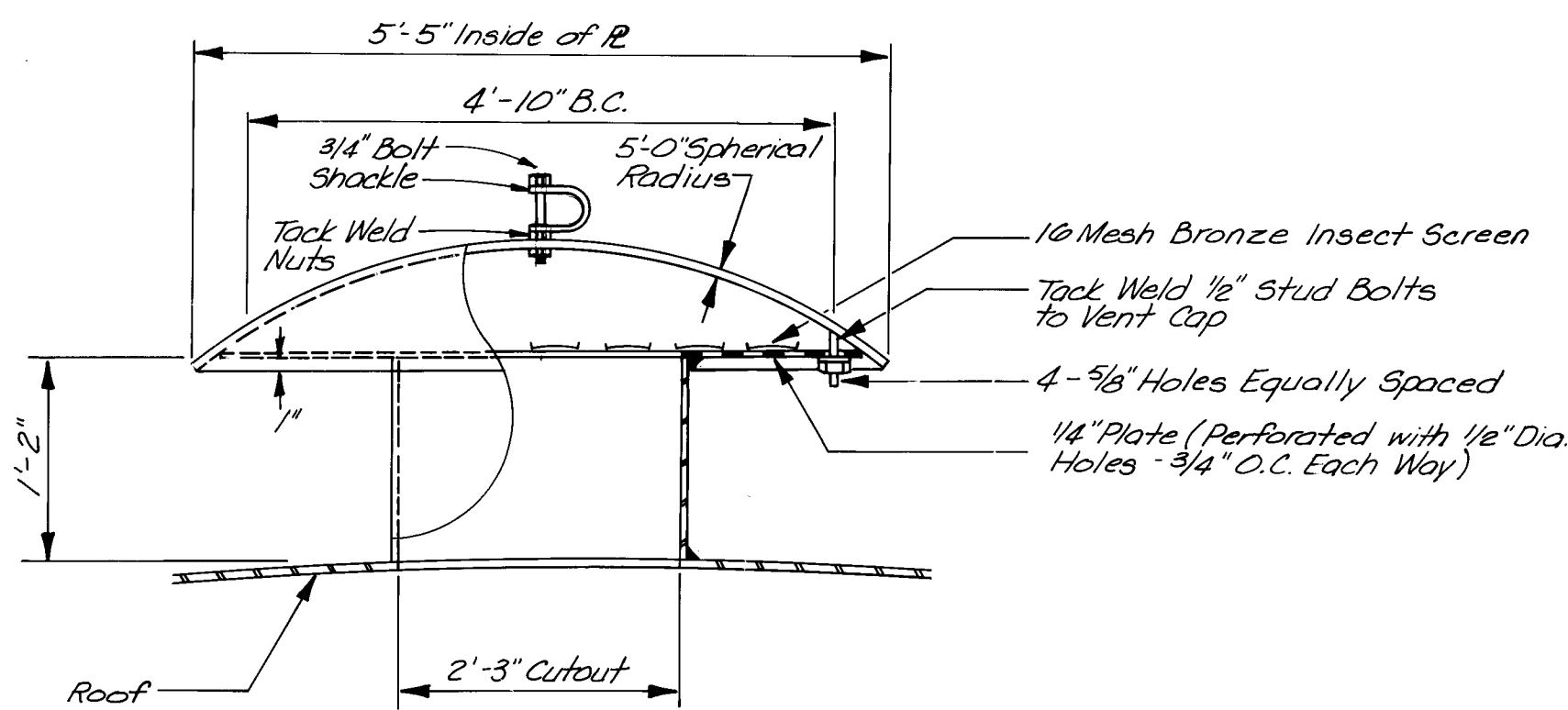
CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
DOOR SECTIONS AND DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO.	2947	MAP NO.	D-18	SHEET	23 OF 34

26 2947 2388

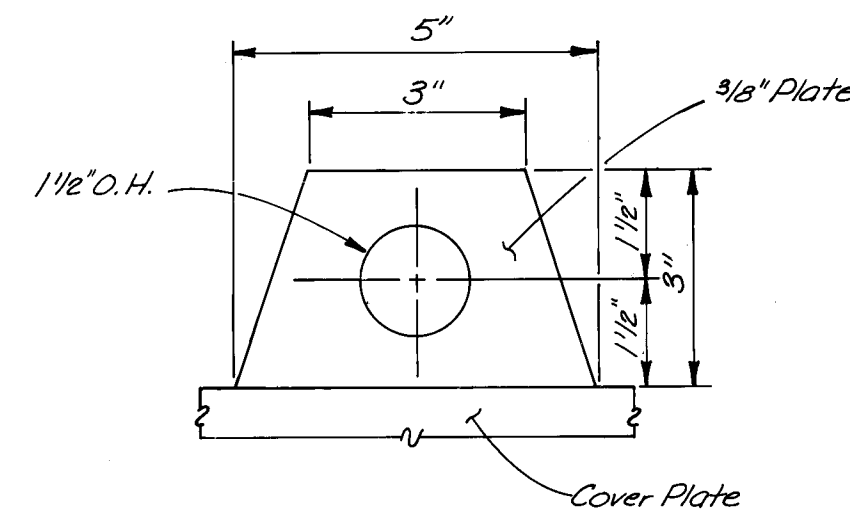
JOB NO. 42360



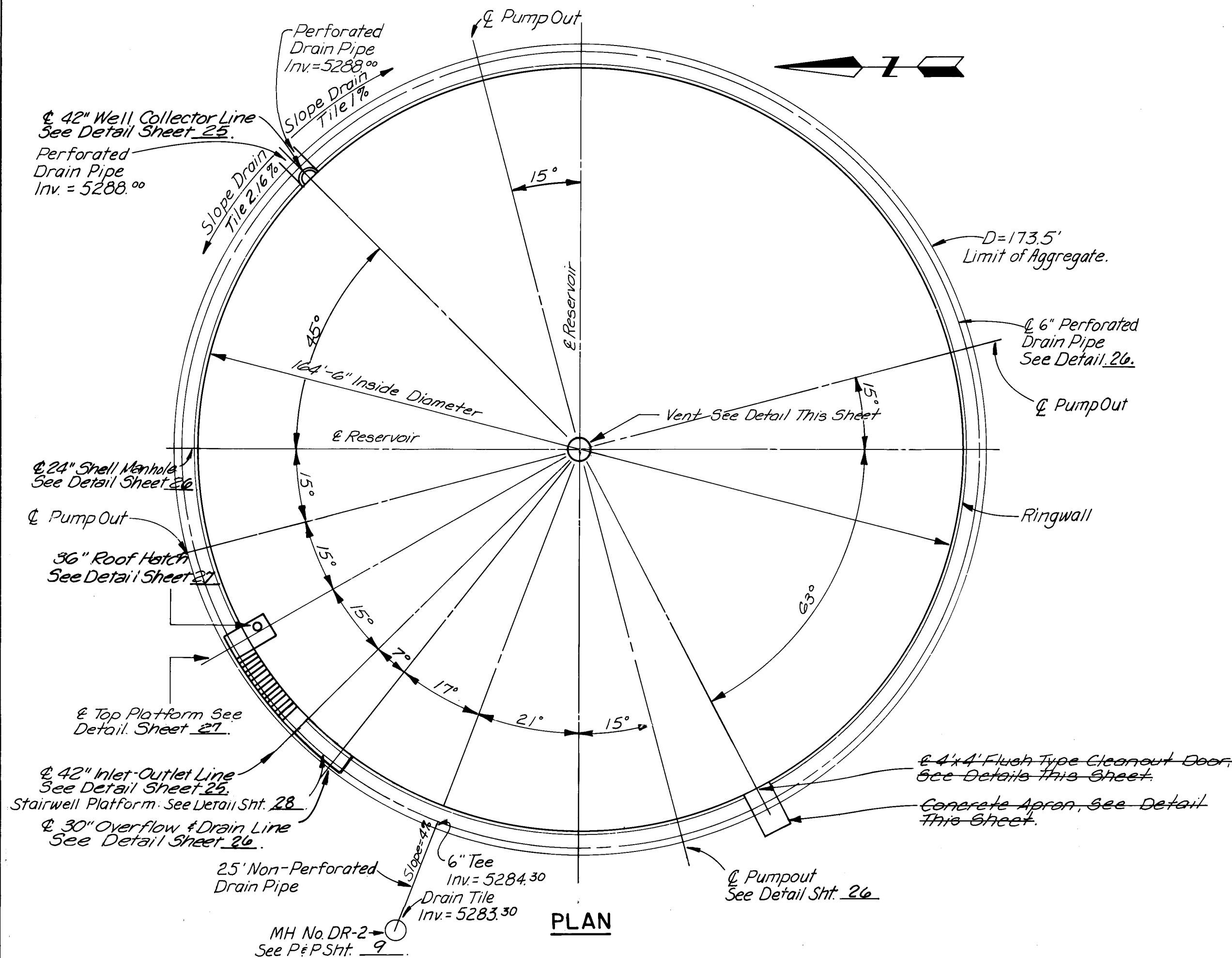
ELEVATION



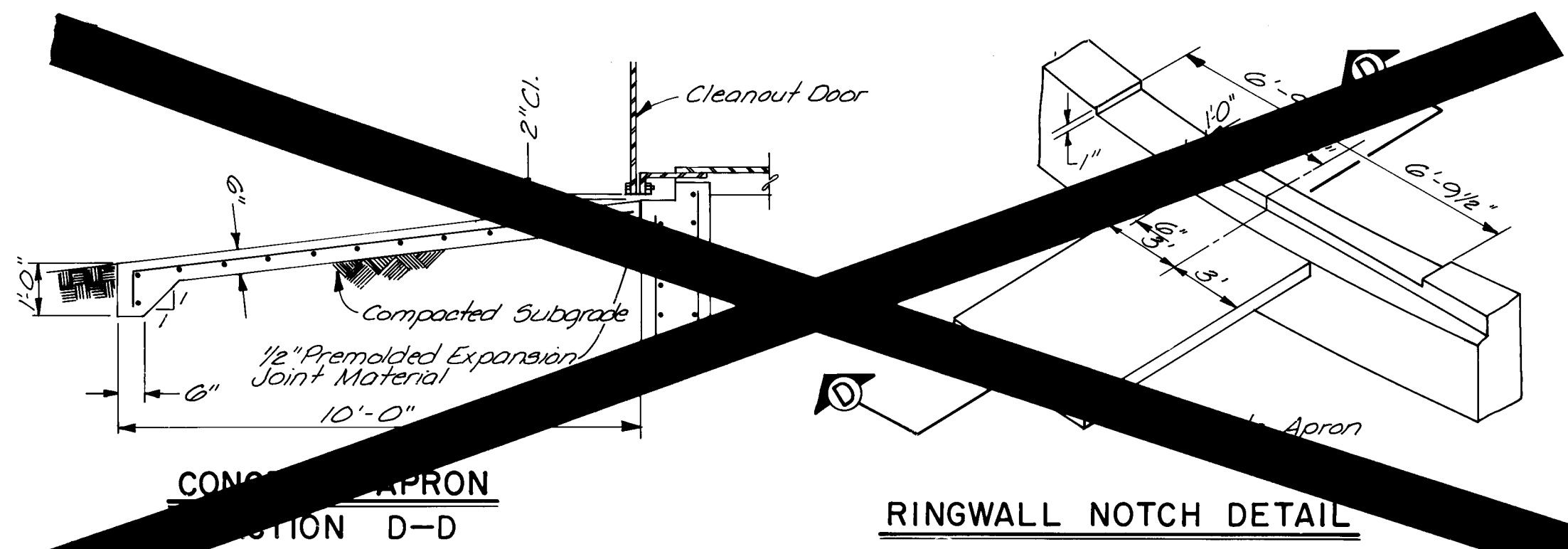
VENT DETAIL



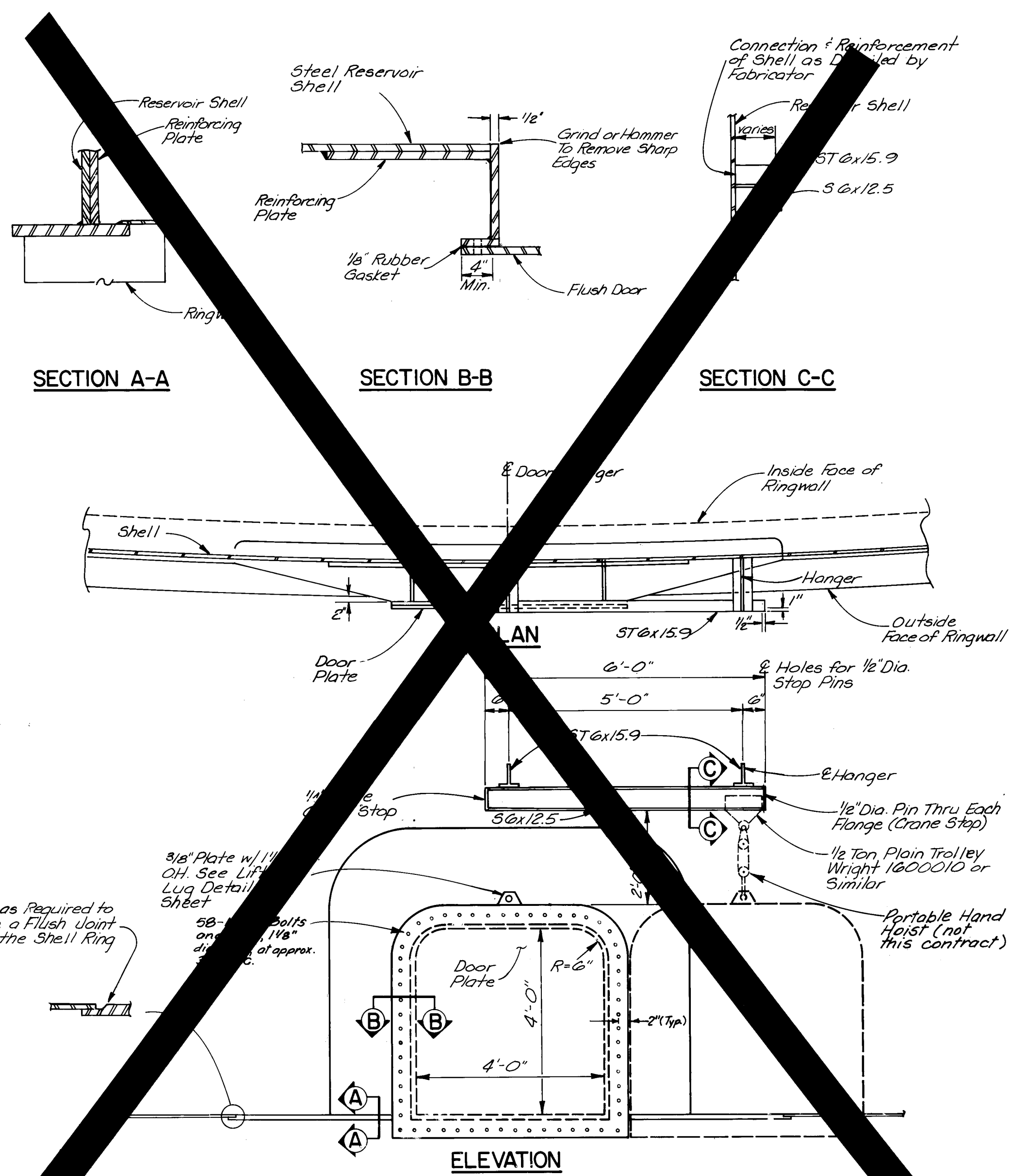
LIFTING LUG DETAIL



WATER RESERVOIR



RINGWALL NOTCH DETAIL



FLUSH TYPE CLEANOUT DOOR

SCALE: AS SHOWN

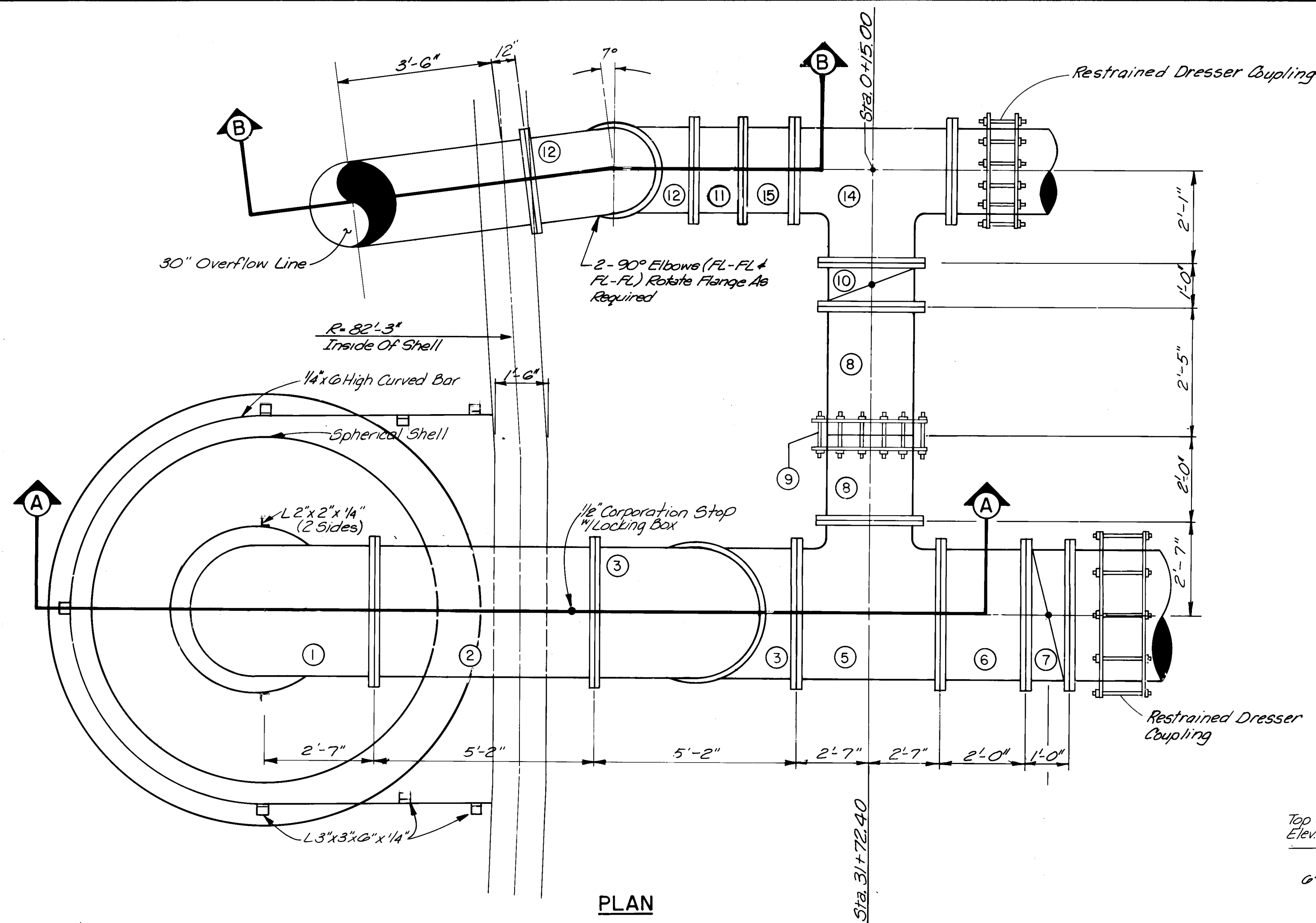
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT-WATER TRANSMISSION LINE
RESERVOIR DETAILS

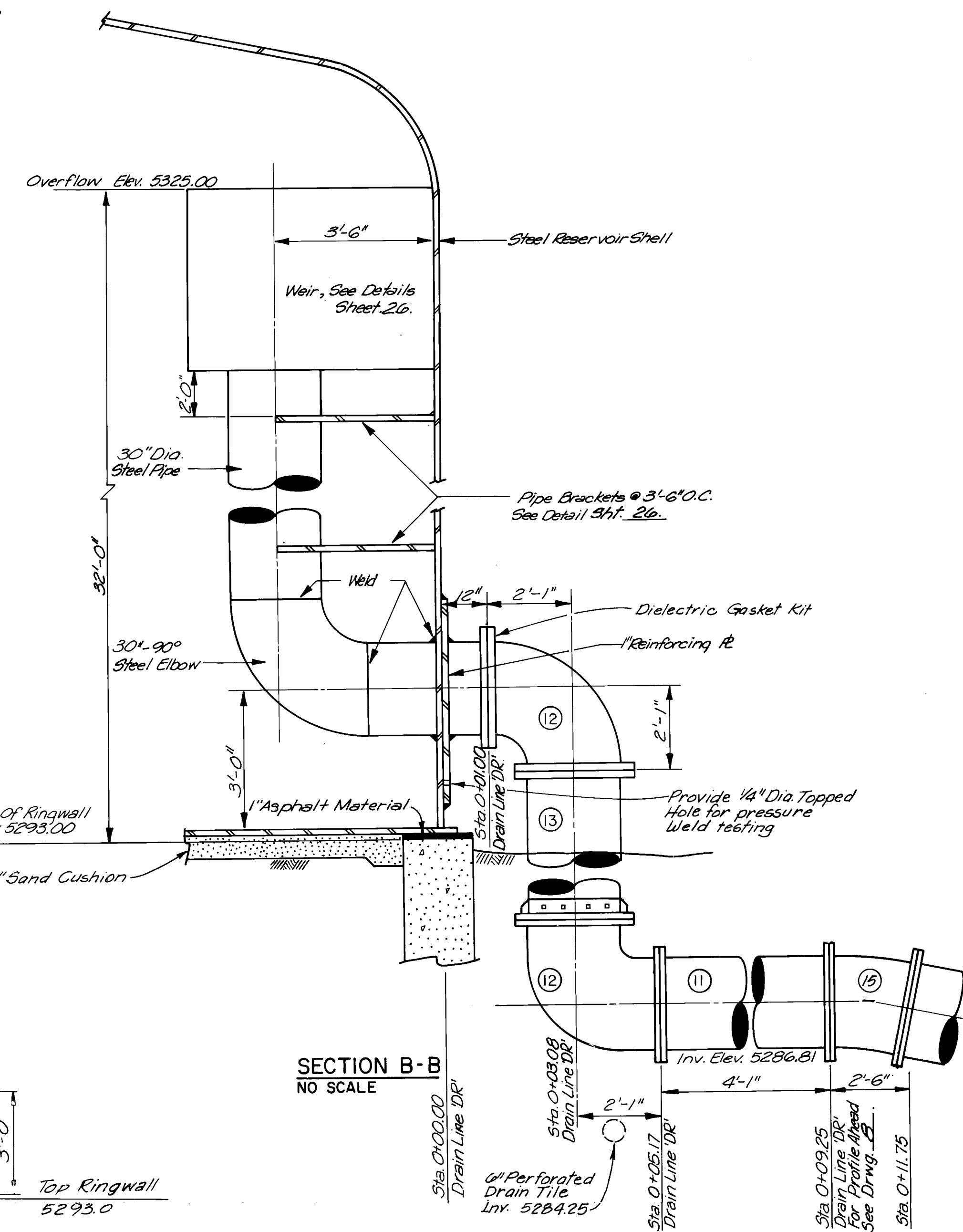
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO. 2947 MAP NO. D-18 SHEET 24 OF 34

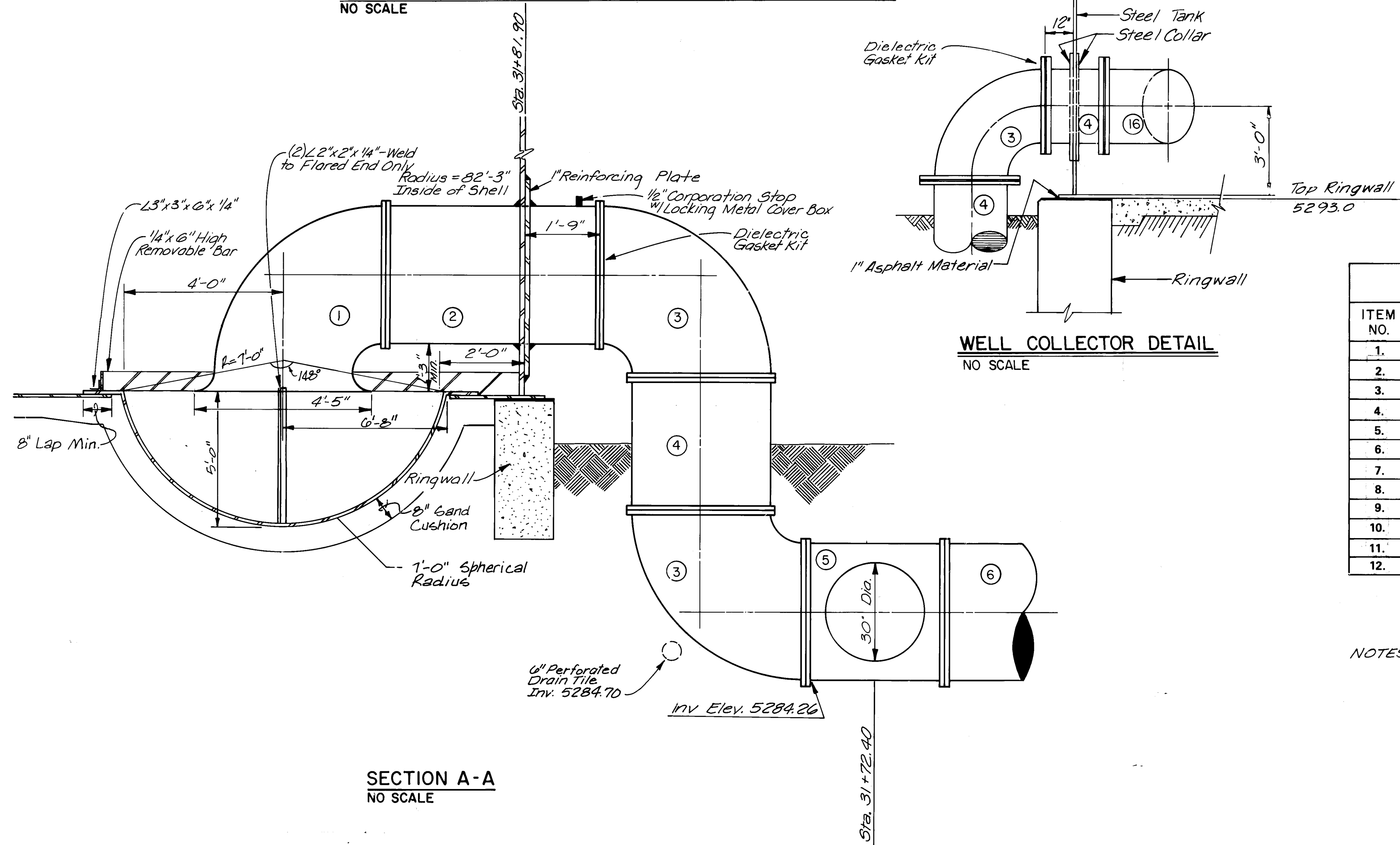
26 2947 2488



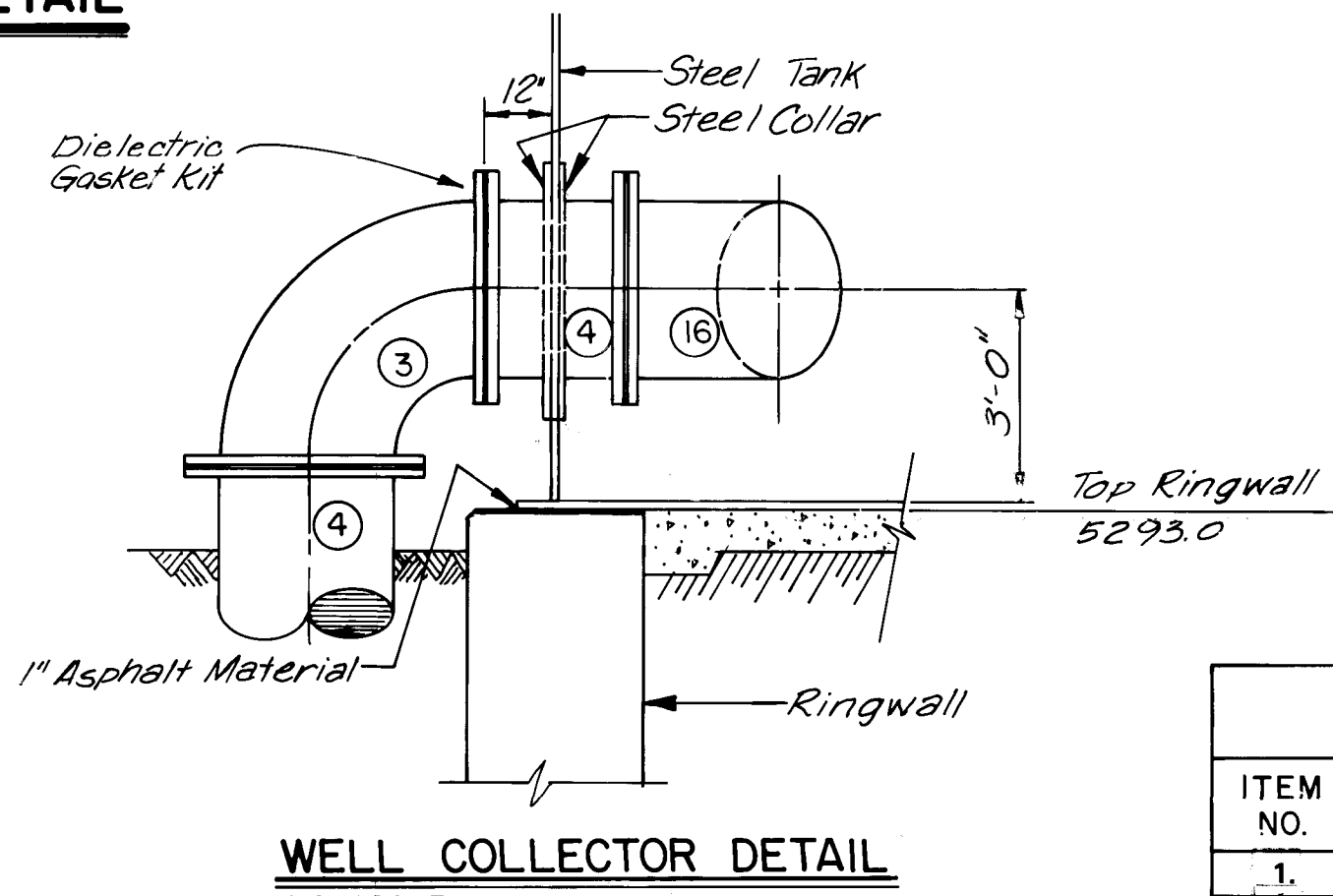
INLET-OUTLET, OVERFLOW & DRAIN LINE DETAIL
NO SCALE



SECTION B-B
NO SCALE



SECTION A-A
NO SCALE



WELL COLLECTOR DETAIL
NO SCALE

FITTING SCHEDULE			
ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
1.	42" - 90° BEND - FLxFLARED END	13.	30" SPOOL - FLxFL
2.	42" SPOOL - FLxFL	14.	30"x30"x30" - TEE - FLxFLxFL
3.	42" 90° BEND - FLxFL	15.	30" 11 1/4° BEND FL x FL
4.	42" SPOOL - FLxFL	16.	42" 11 1/4° BEND FL x PE
5.	42"x42"x30" TEE - FLxFLxFL		
6.	42" SPOOL - FLxFL		
7.	42" BUTTERFLY VALVE - FLxFL		
8.	30" SPOOL - FLxPE		
9.	30" DRESSER COUPLING		
10.	30" BUTTERFLY VALVE W/ VALVE		
11.	30" SPOOL - FLxFL		
12.	30" 90° BEND - FLxFL		

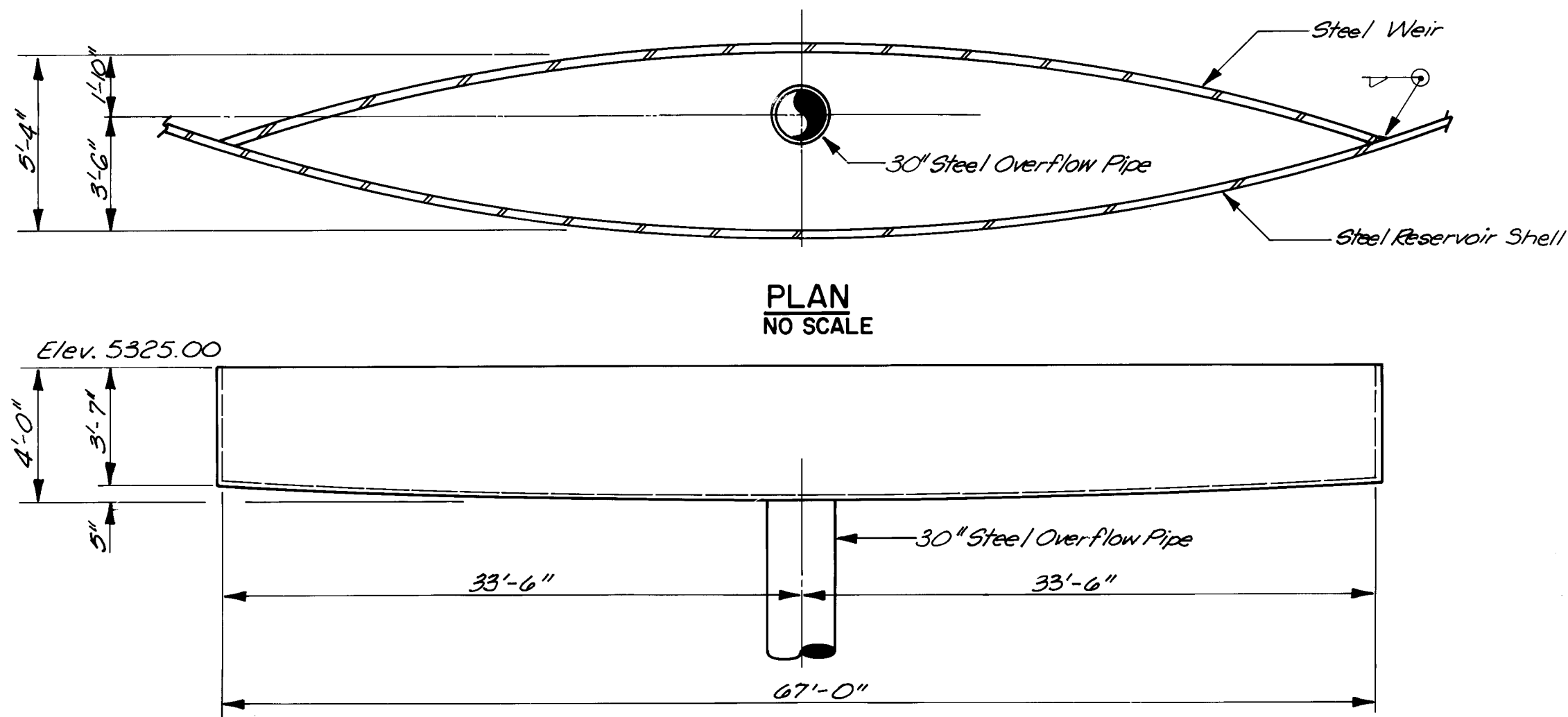
NOTES:
1. All pipe and fittings welded directly to any portion of the reservoir shall be included in the lump sum bid item for the reservoir.

SCALE: AS SHOWN

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
RESERVOIR DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO.	2947	MAP NO.	D-18	SHEET	25 OF 34

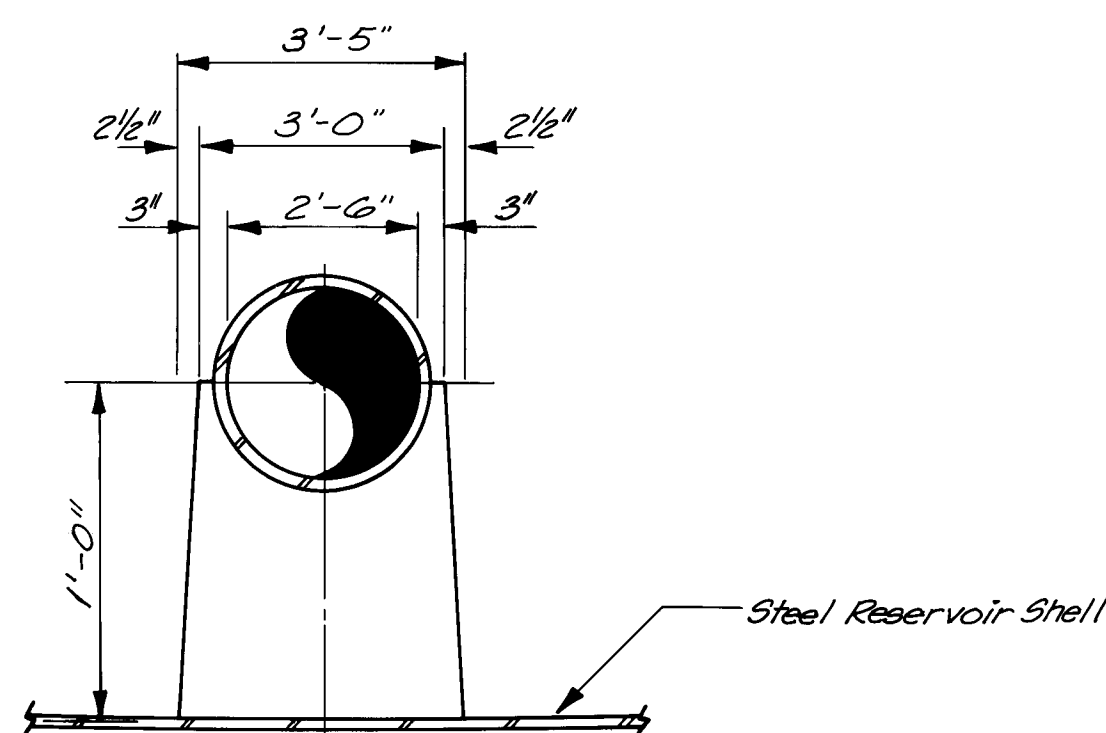
26 2947 2588

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	MECO, Inc.	DATE	6/1/83	FIELD NOTES	DATE	BY	DATE
WORK BY	S. Walker	DATE	6/1/83	NO.			
INSPECTOR	BHI	DATE	6/1/83				
ACCEPTANCE BY	BHI	DATE	6/1/83				
FIELD VERIFICATION BY	BHI	DATE	6/1/83				
DRAWINGS BY	BHI	DATE	6/1/83				
CHECKED BY	BHI	DATE	6/1/83				
RECORDED BY		DATE					
		NO.					

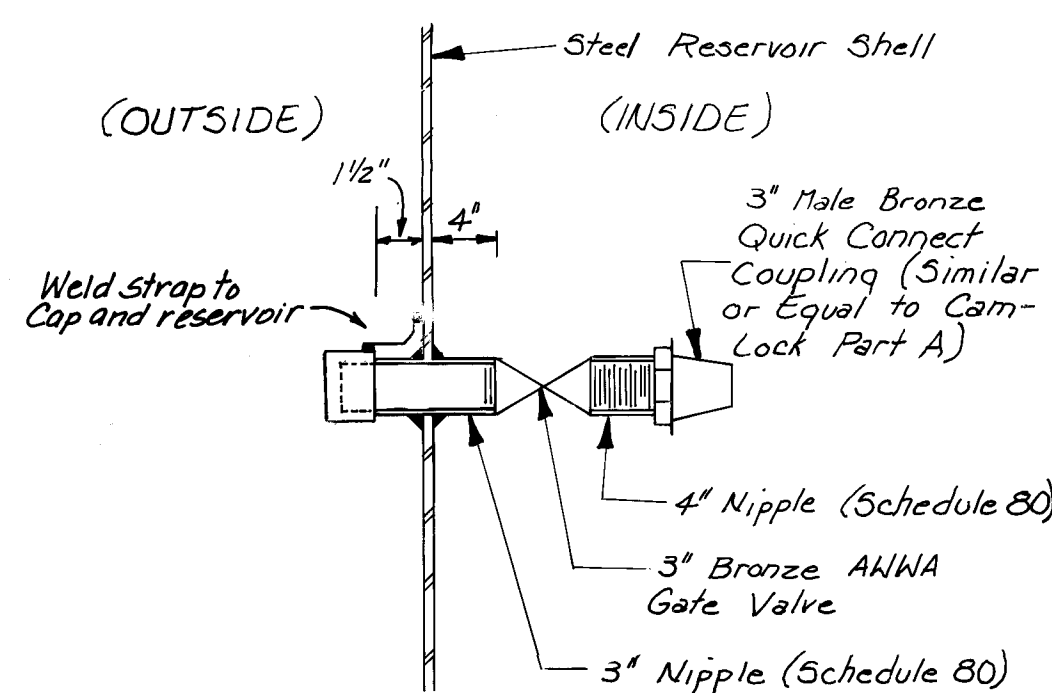


WEIR DETAIL
NO SCALE

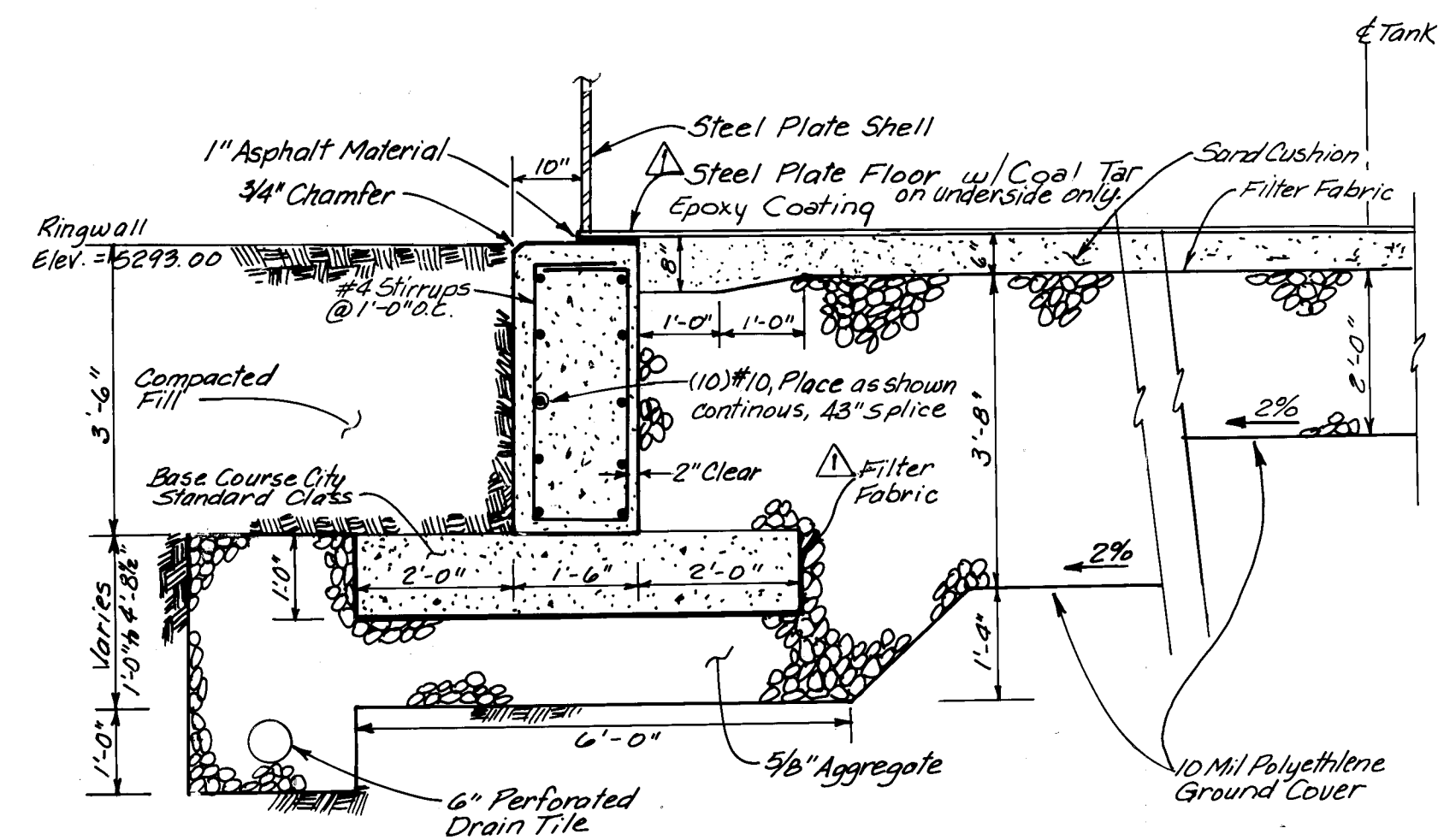
Provide Steel Angle Supports for Weir Structure as Required by Tank Manufacturer.



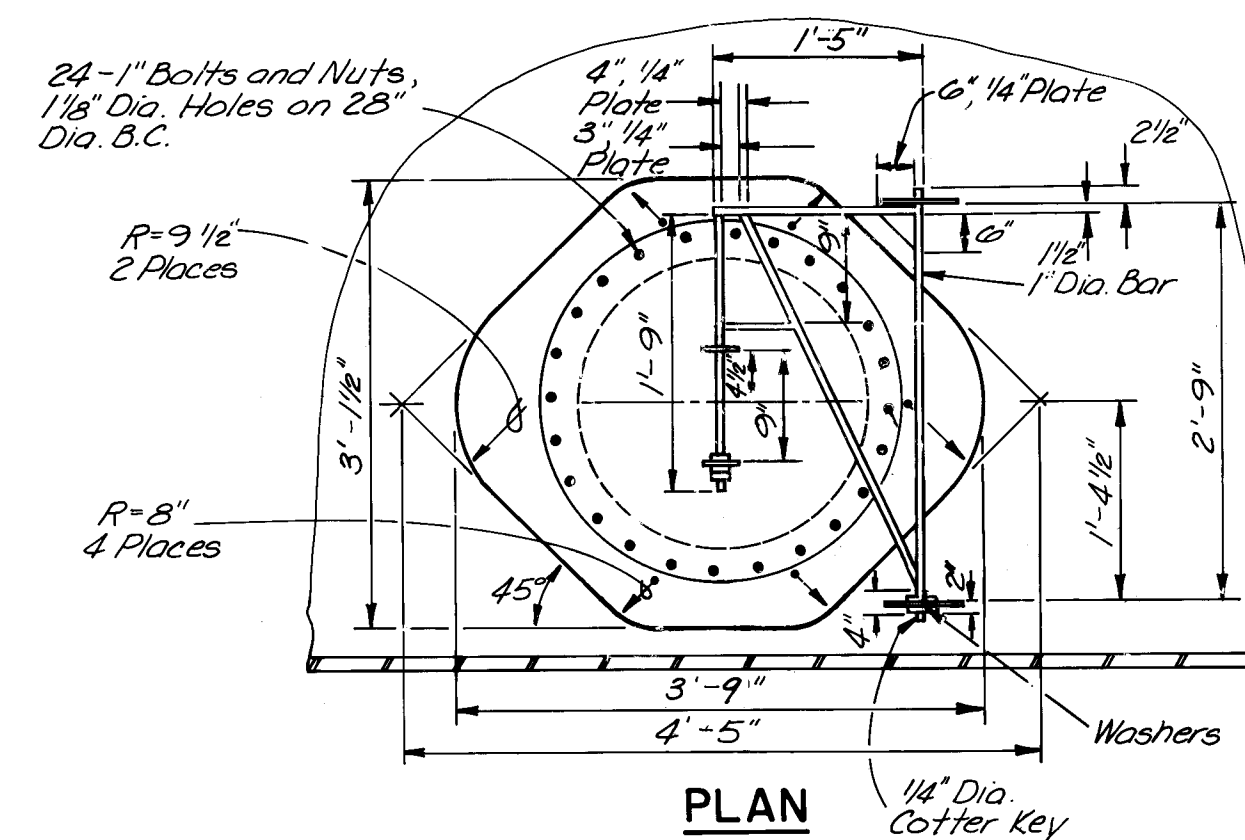
PIPE BRACKET DETAIL
NO SCALE



PUMP OUT
NO SCALE
4 REQ'D



RINGWALL FOUNDATION AND PERFORATED DRAIN DETAIL
NO SCALE



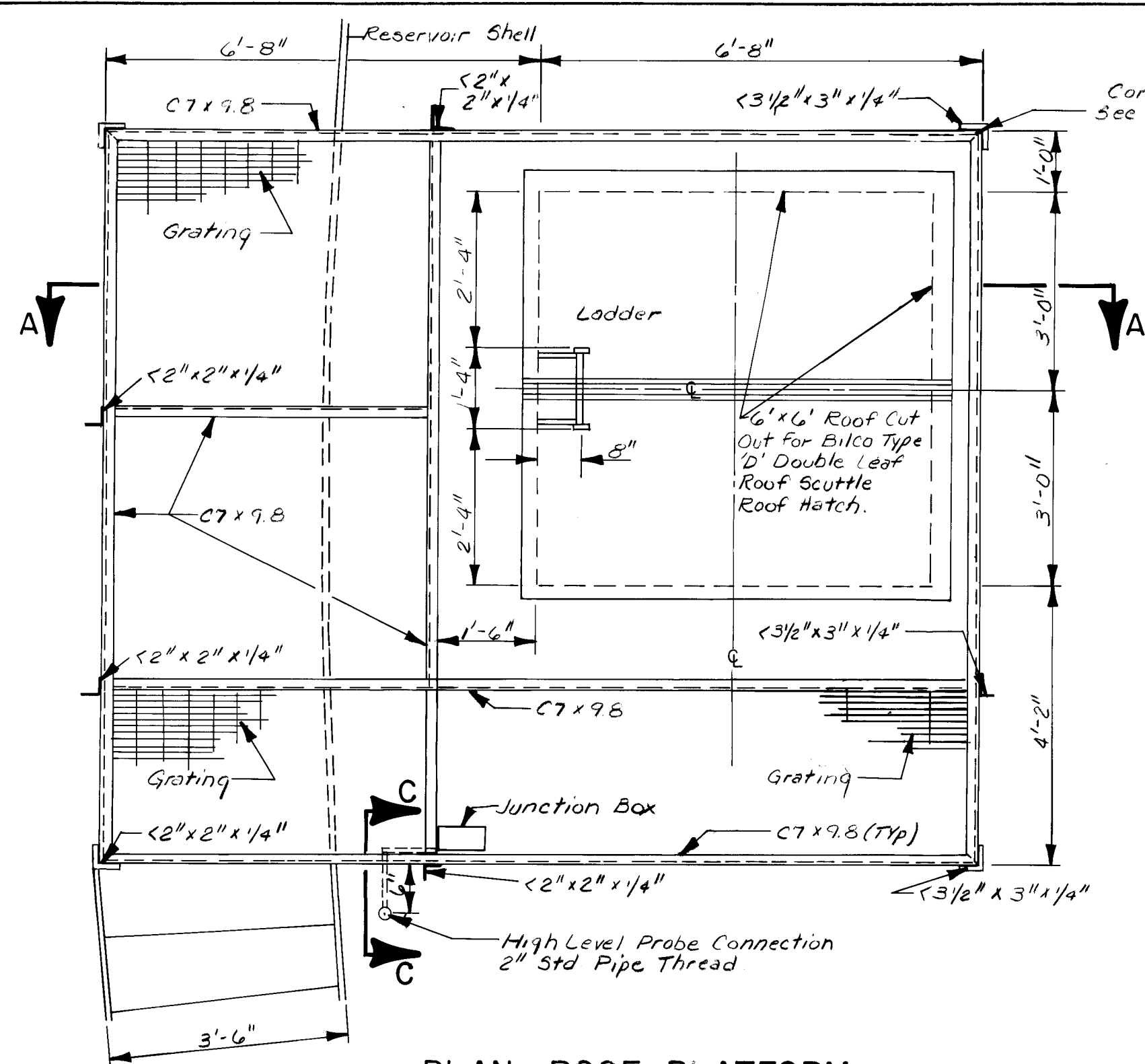
24" SHELL MANHOLE
NO SCALE

NOTES:
1. All pipe and fittings welded directly to any portion of the reservoir shall be included in the lump sum bid item for the reservoir.

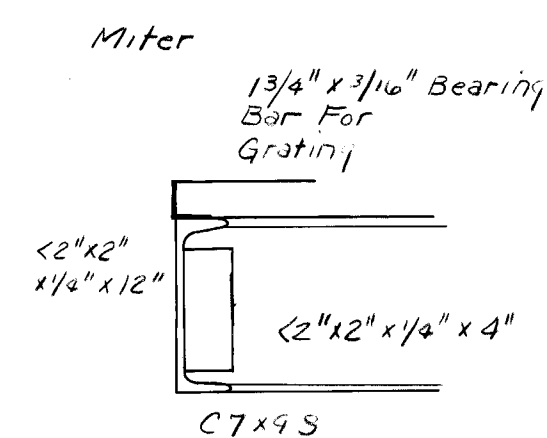
SCALE: AS SHOWN

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
RESERVOIR DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		
DRAWING NO. 2947			MAP NO. D-18		
			SHEET 26 OF 34		

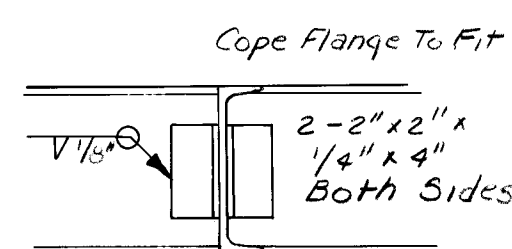
26 2947 2688



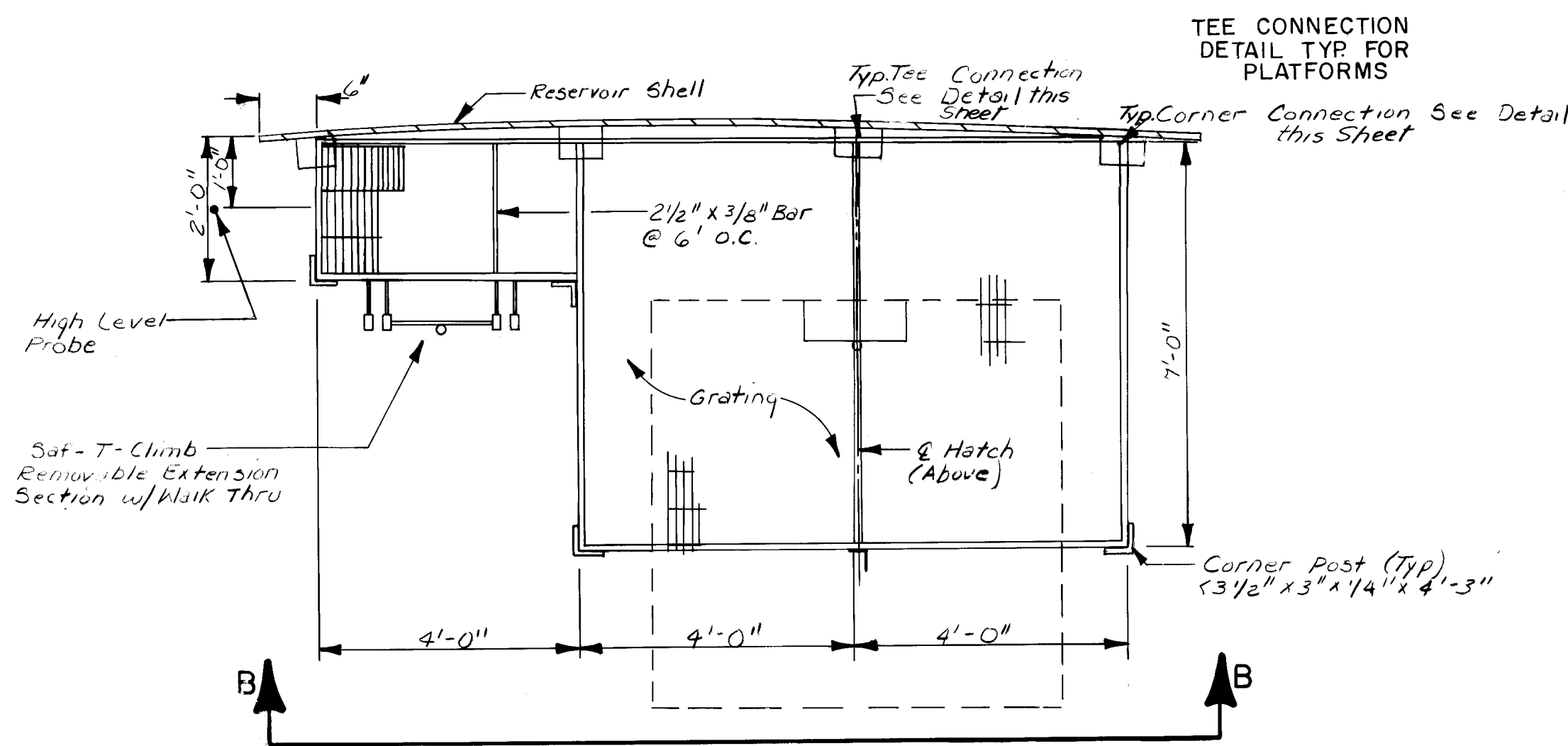
PLAN - ROOF PLATFORM
NO SCALE



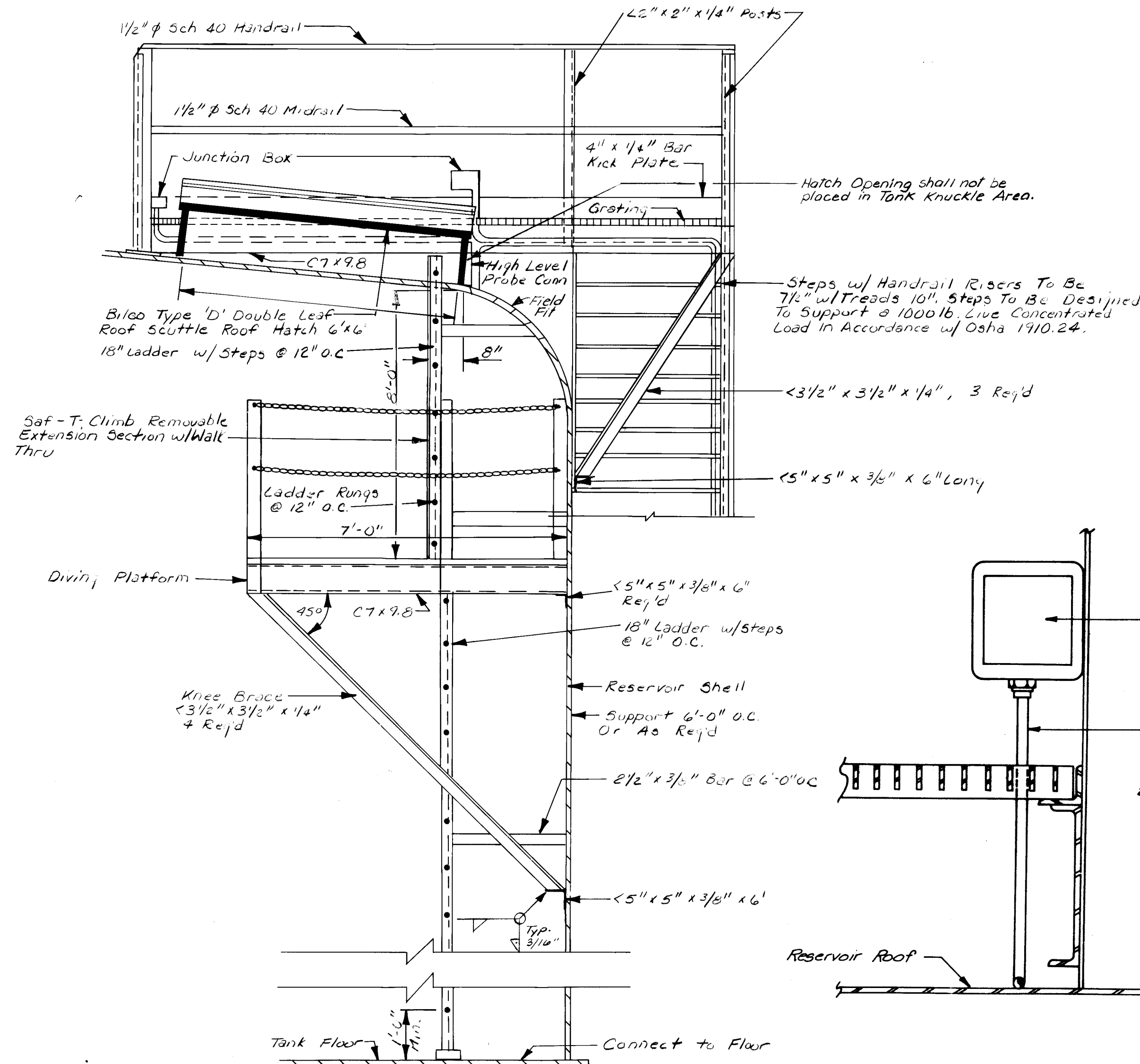
CORNER CONNECTION
DETAIL TYP FOR ALL
PLATFORMS



TEE CONNECTION
DETAIL TYP FOR
PLATFORMS

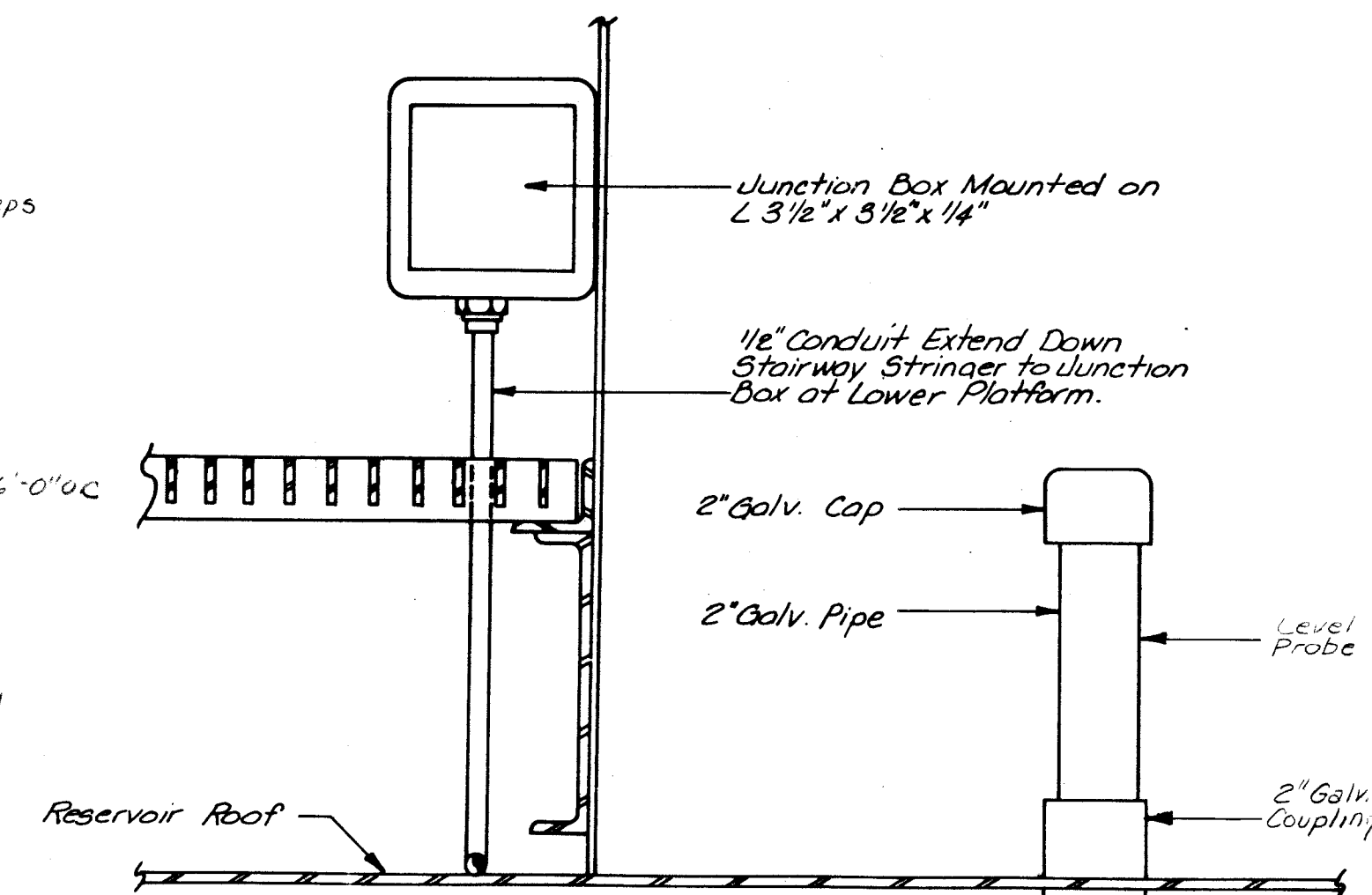


PLAN - DIVING PLATFORM
NO SCALE

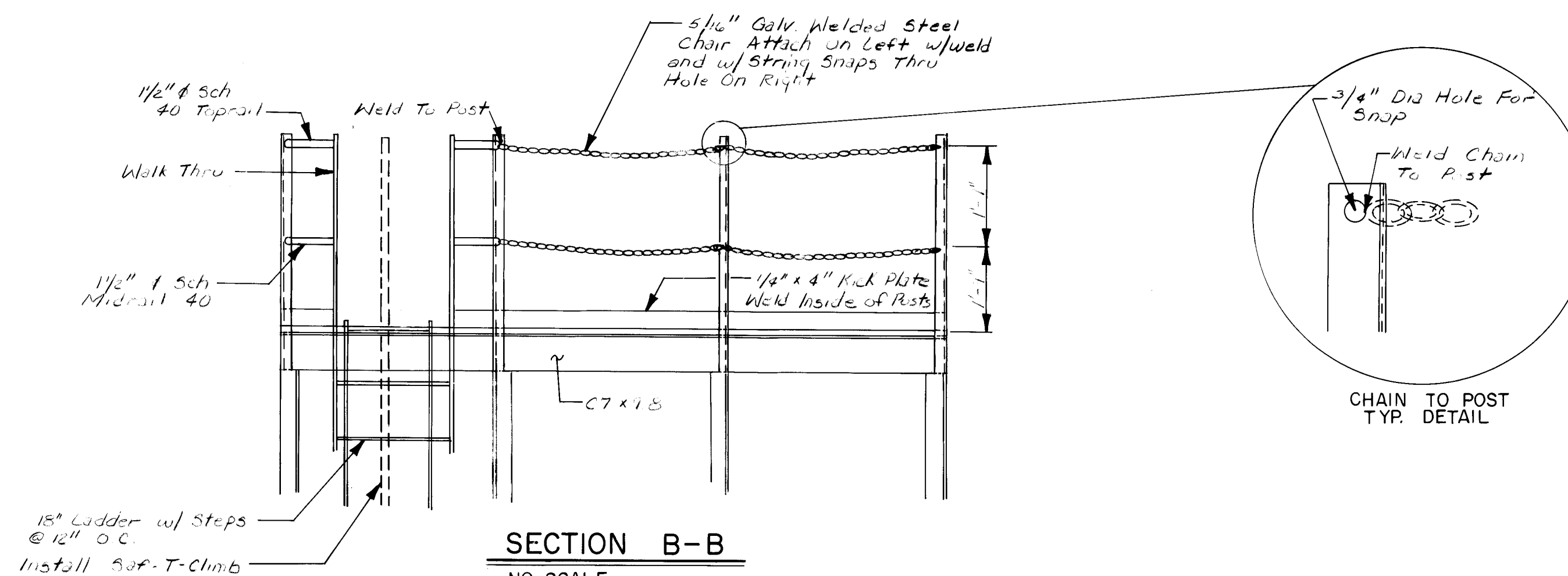


SECTION A-A
NO SCALE

The Ladder Shall
Comply w/ OSHA 1910.27



SECTION C-C



SECTION B-B
NO SCALE



RECORD DRAWINGS
DATE 6/7/88

SCALE: AS SHOWN

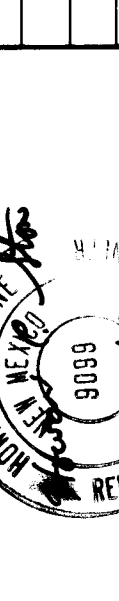
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR:
CORONADO NO. 1 WELL EQUIPMENT-WATER TRANSMISSION LINE

RESERVOIR DETAILS				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer			Liquid Waste	
A C E - Design			Traffic	
A C E - Hydrology			Water	

DRAWING NO. 2947 MAP NO. D-18 SHEET 27 OF 34

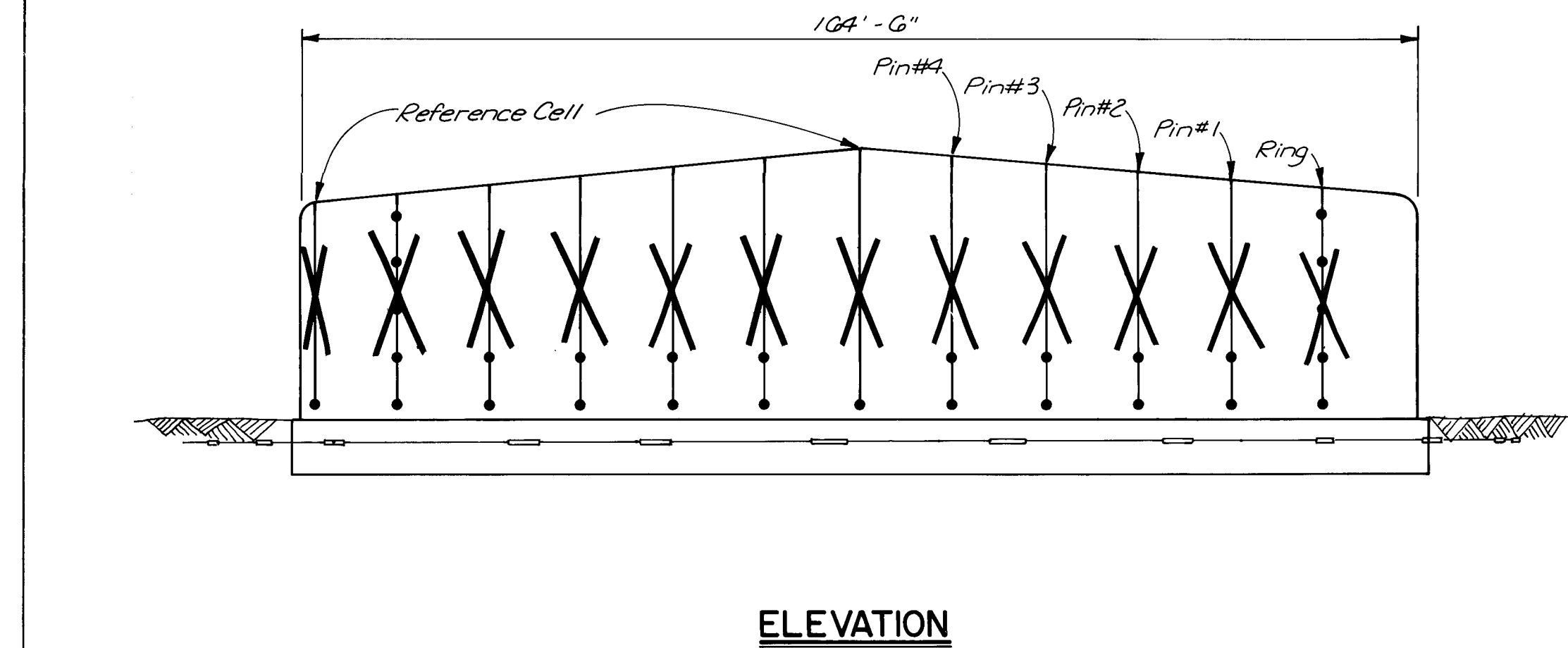
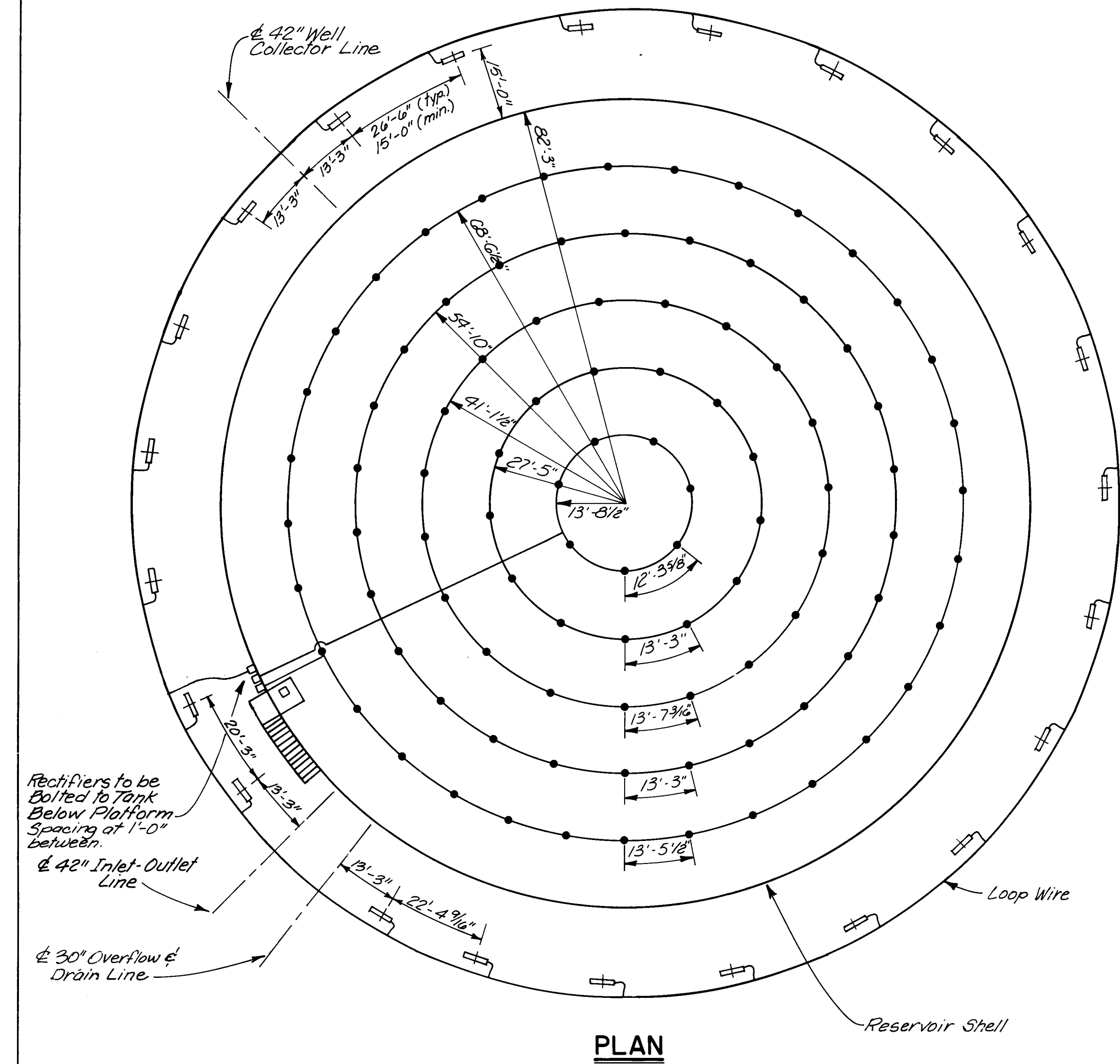
26 2947 2788

ENGINEER'S SEAL										SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION			
										FIELD NOTES							
										BY		DATE					
										NO.							
QUE ARTMENT SION										REMARKS							
										BY							
										NO.		DATE					
										DESIGNED BY		DATE					
										DRAWN BY		DATE					
										CHECKED BY		DATE					
CORONADO RESERVOIR										SHEET		OF					
TRANSFER TRANSMISSION LINE										37		34					
AILS																	
VALS		ENGINEER		DATE													
iste																	

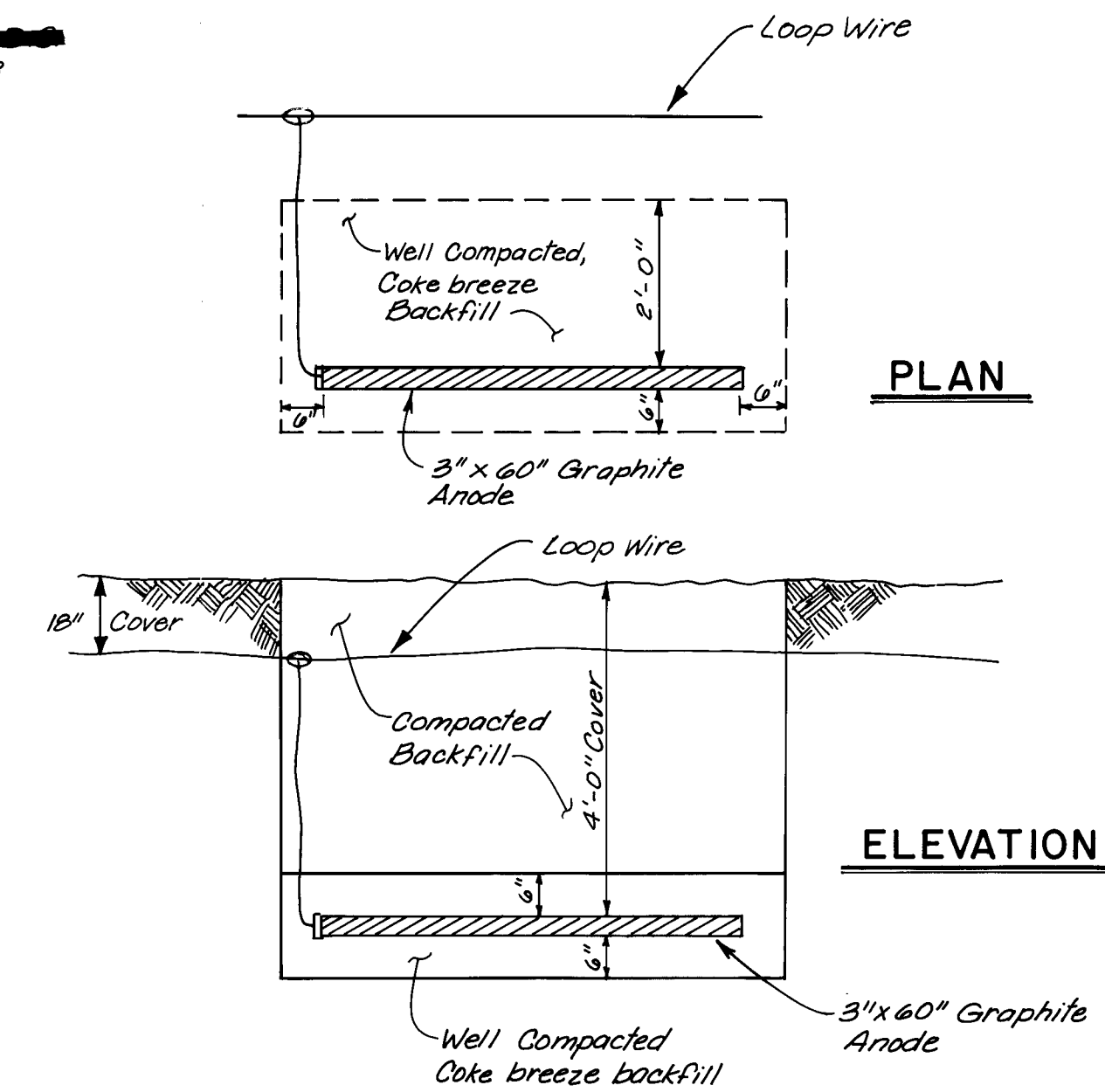
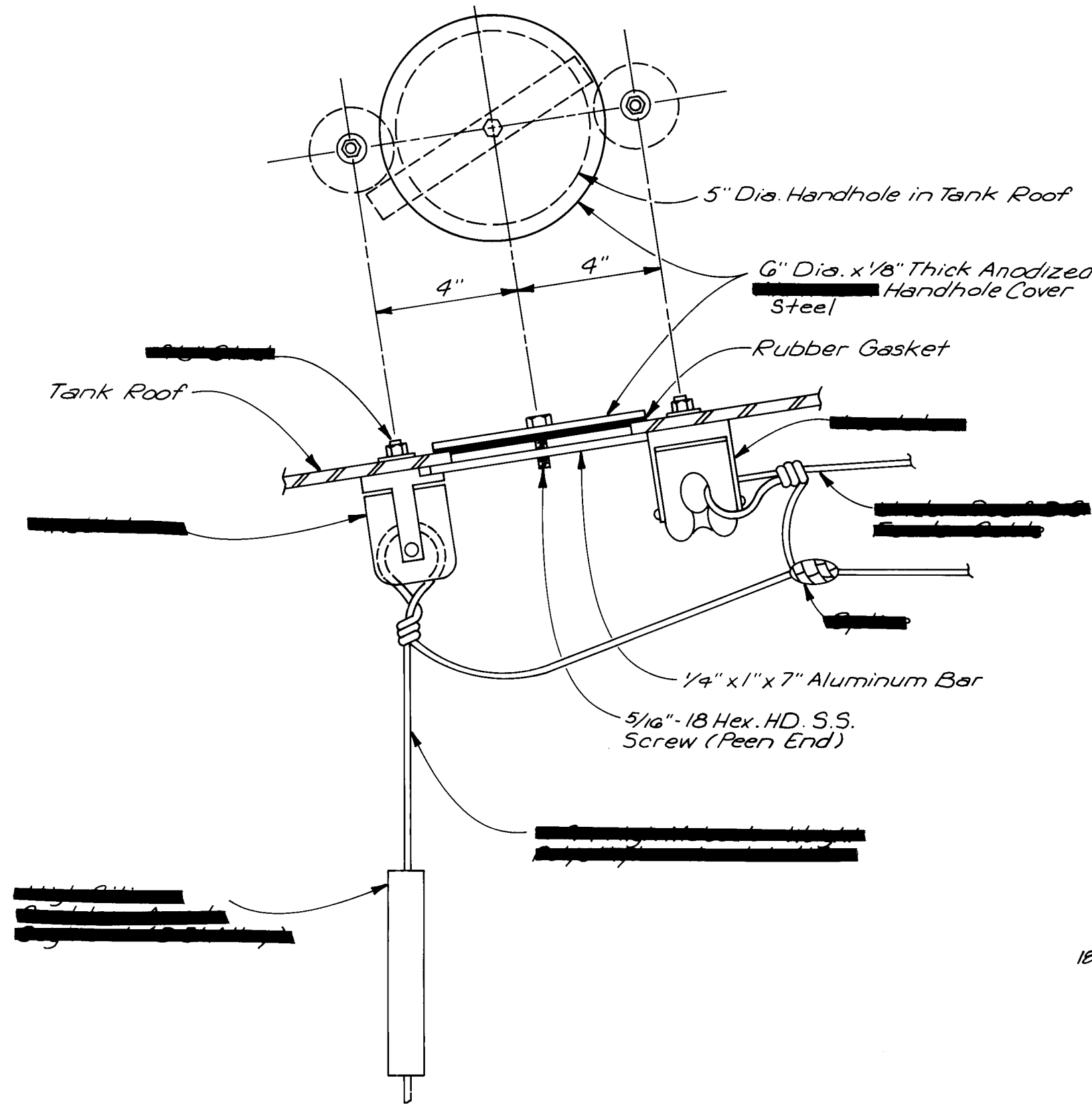


1	2	3	4	5	6	7	8	9	10	11	12
26		29	47					28	88		

BRUNING 44.132 62236



STEEL RESERVOIR CATHODIC PROTECTION



Note:
Interior Cathodic Protection System
Deleted By Change Order

Location	Strings	Anodes	Bottom Clearance	Vertical Spacing	Type	Rectifier Voltage	Rectifier Current
Pin#1	26	5	2'	7'	1 1/8" x 9" Duriron	70	50
Pin#2	19	2	4'	7'	1 1/8" x 9" Duriron	50	50
Pin#3	13	2	4'	7'	1 1/8" x 9" Duriron	50	50
Bottom	—	23	4' Cover	—	3" x 60" Graphite	60	40

- NOTES:
- Contractor shall install copper sulfate electrode (permanent type) at center of tank, with leads to rectifier for monitoring.
 - Contractor shall install dielectric flange gasket kits on all pipes connecting to tank.
 - Contractor shall use standard copper wire and Scotch cast splicing kits.

SCALE: AS SHOWN

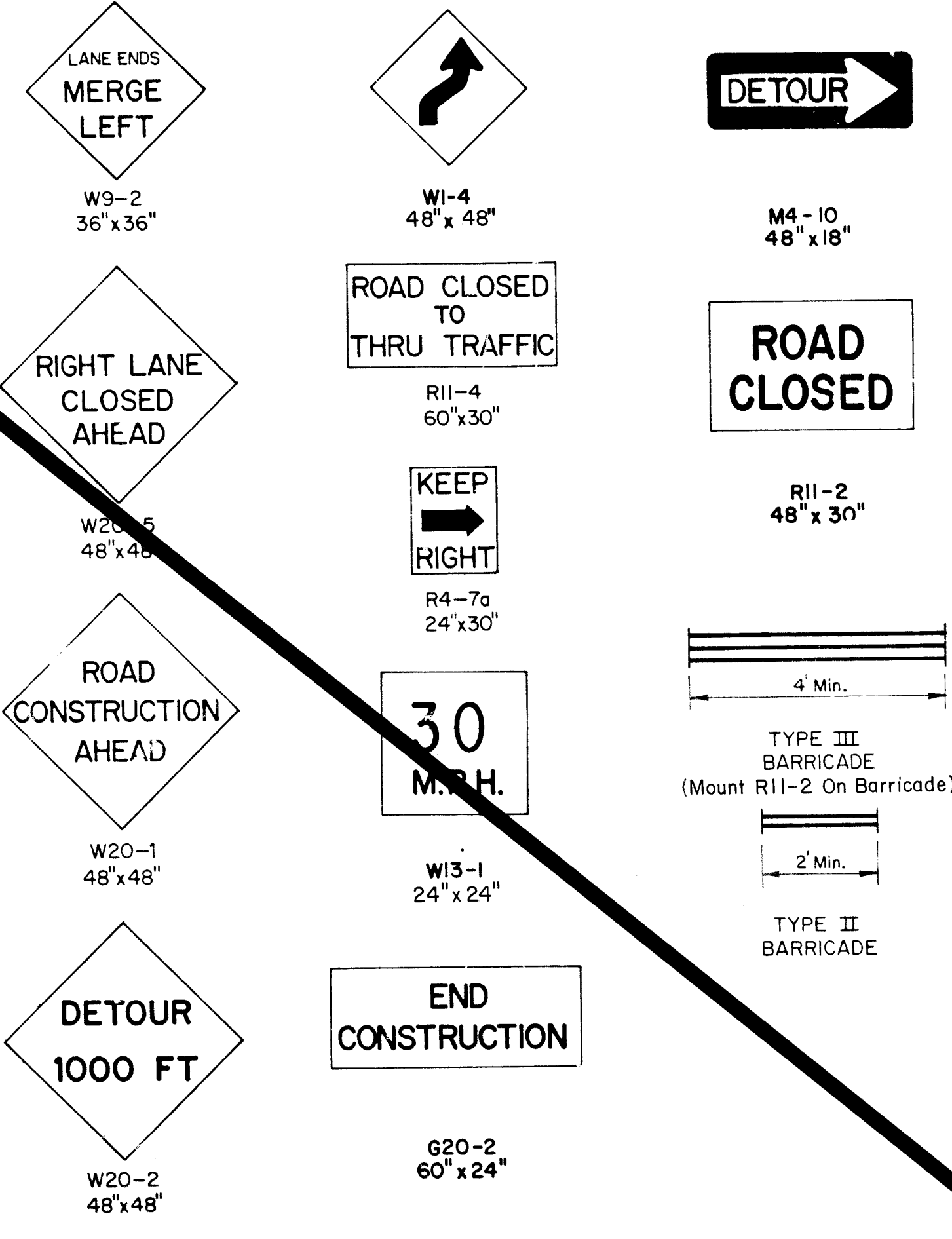
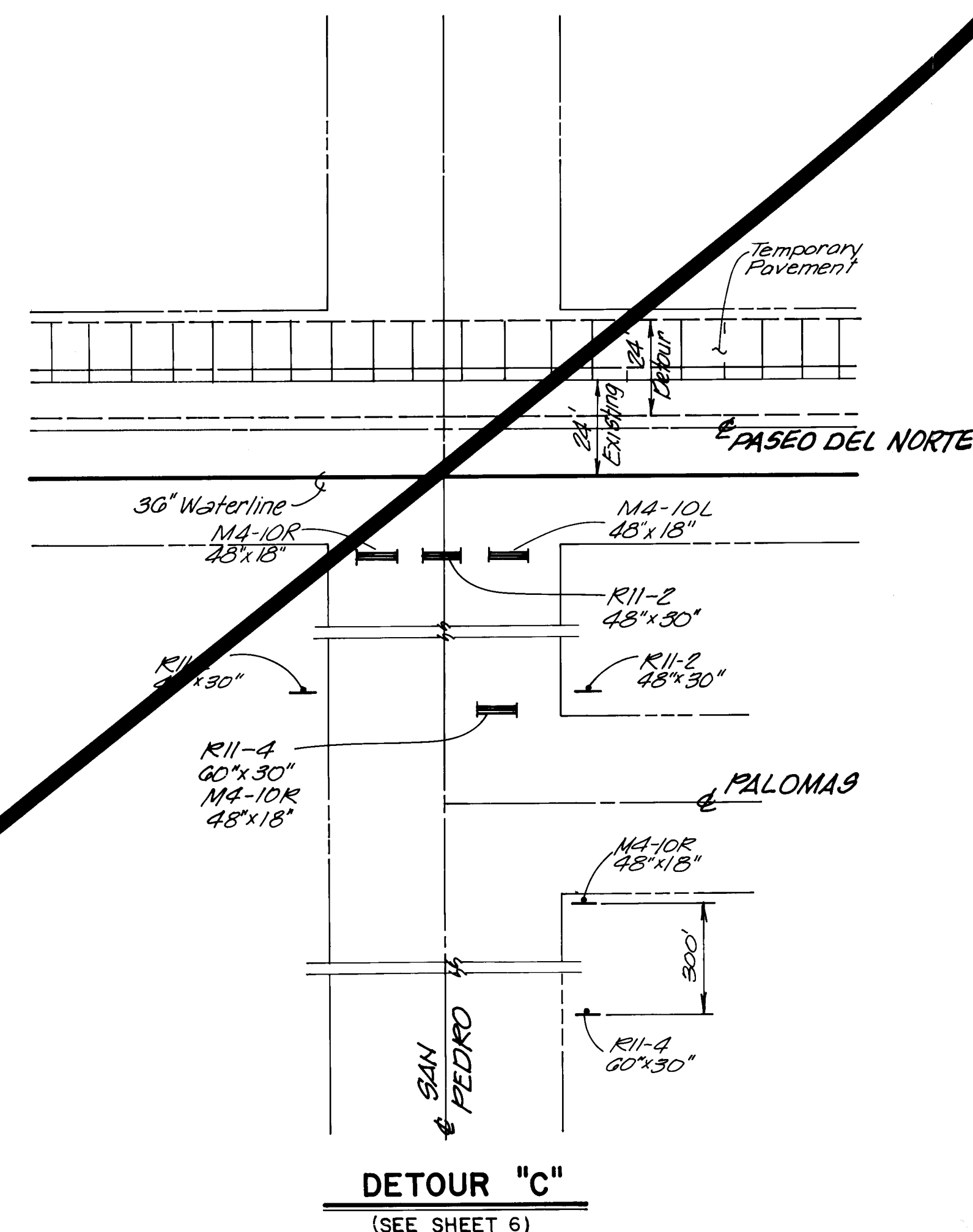
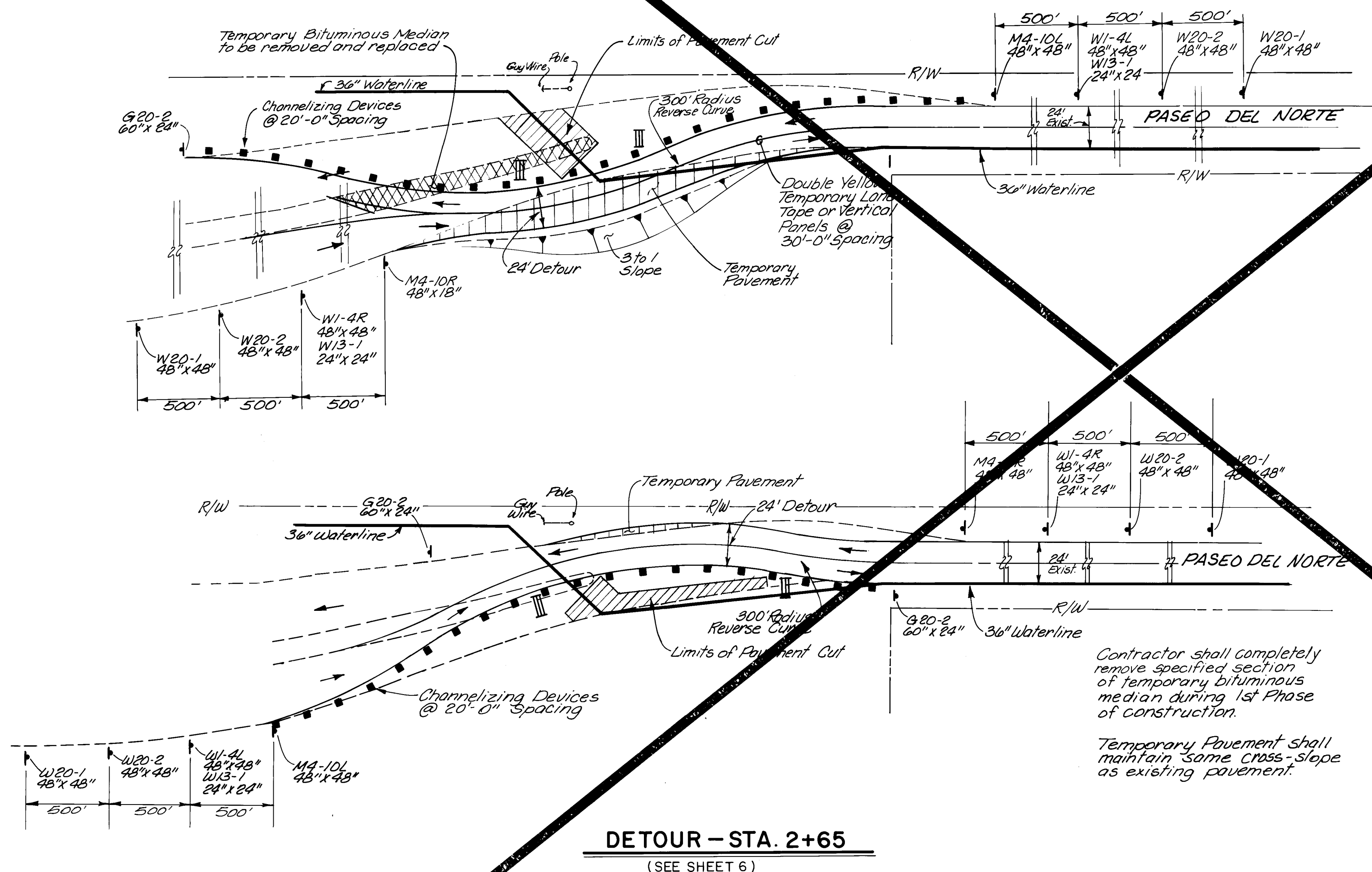
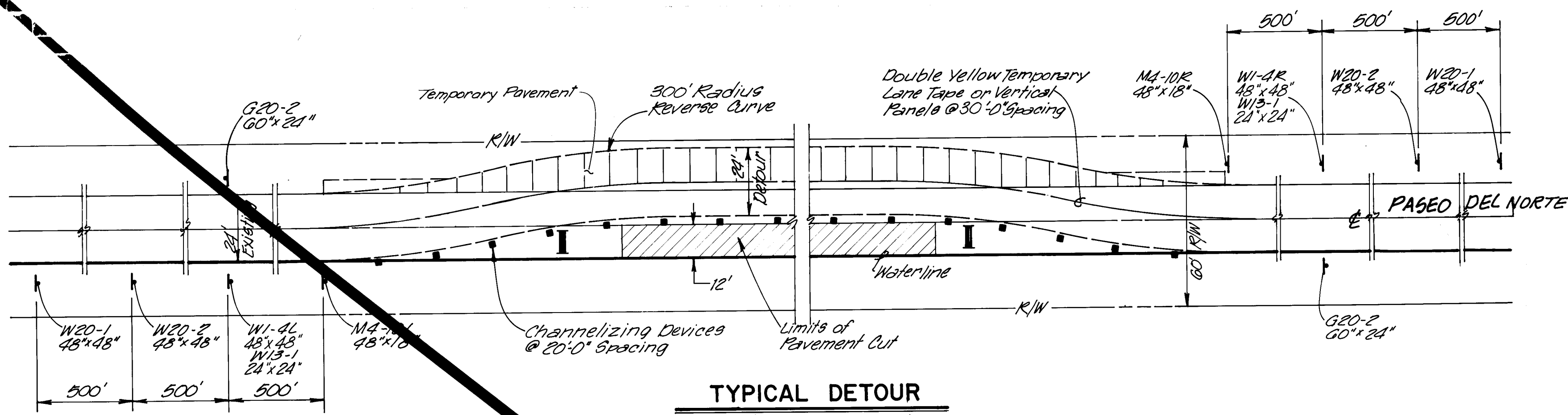
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
WATER SYSTEMS DIVISION

TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR
CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE
CATHODIC PROTECTION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO. 2947 MAP NO. D-18 SHEET 29 OF 34

26 2947 2988



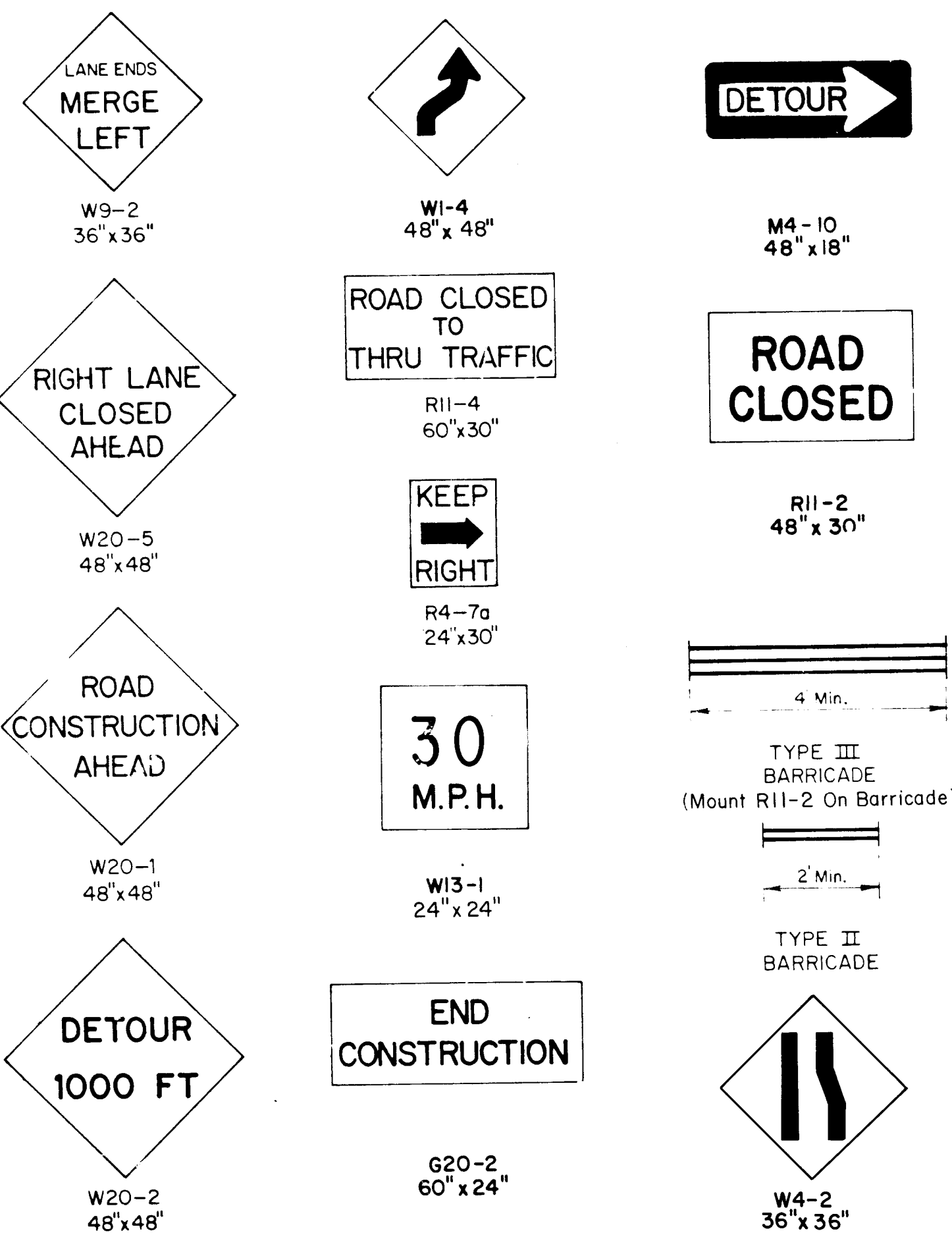
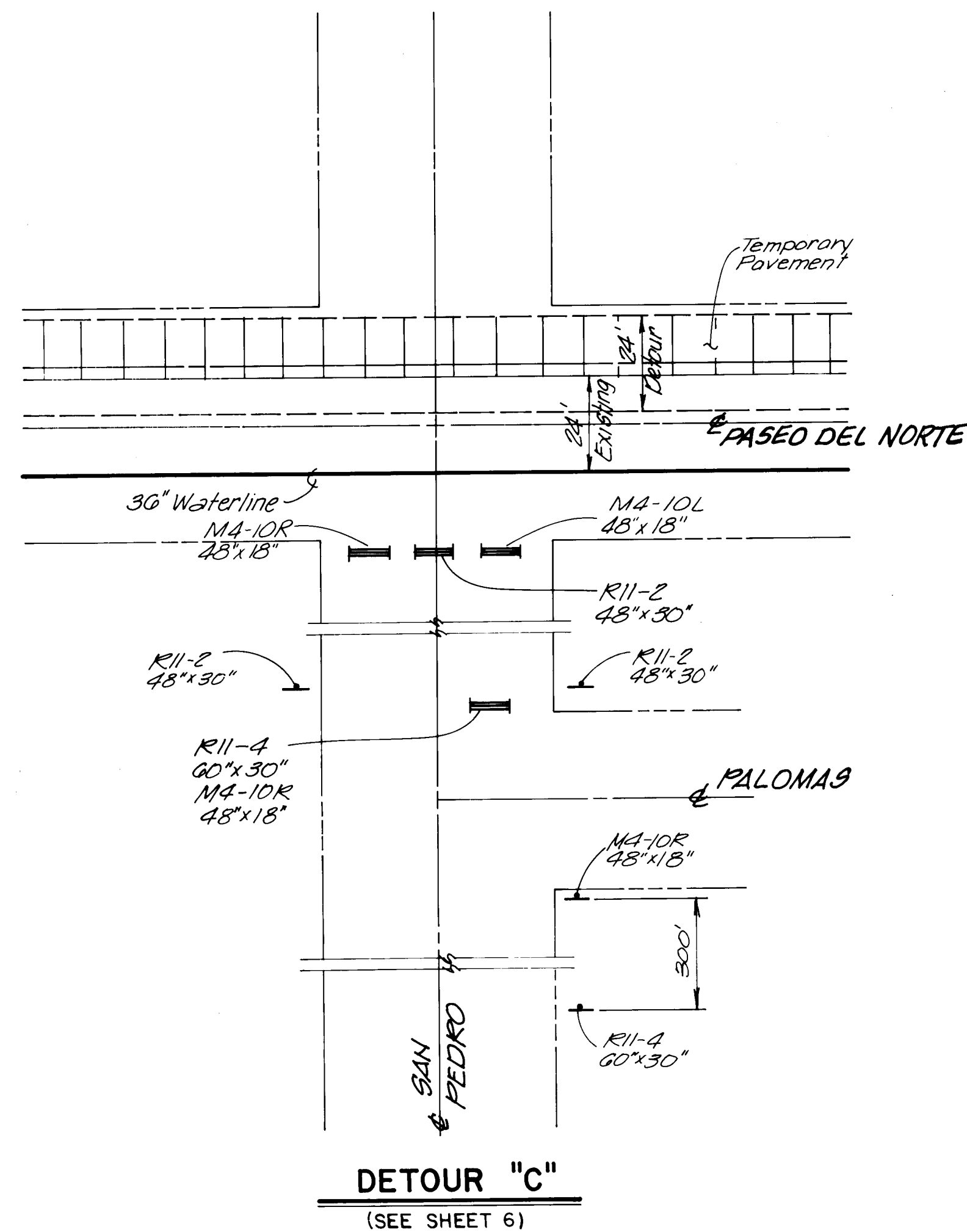
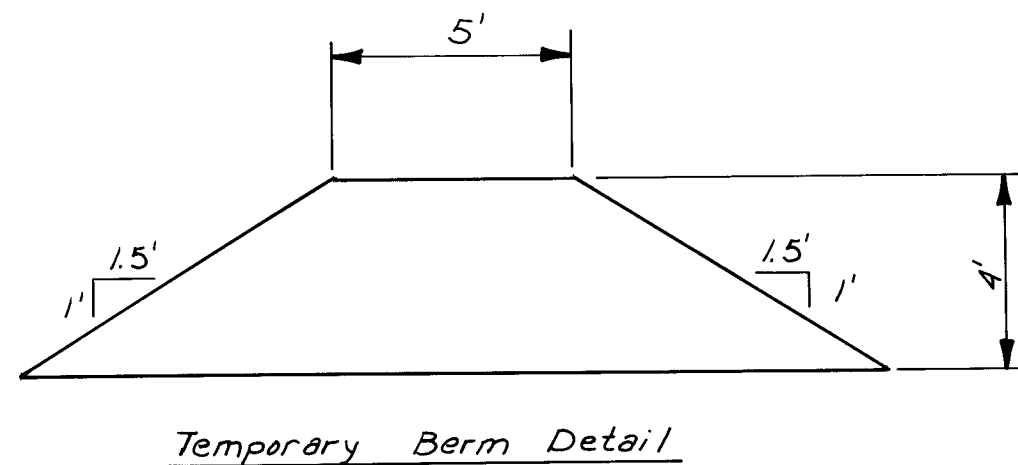
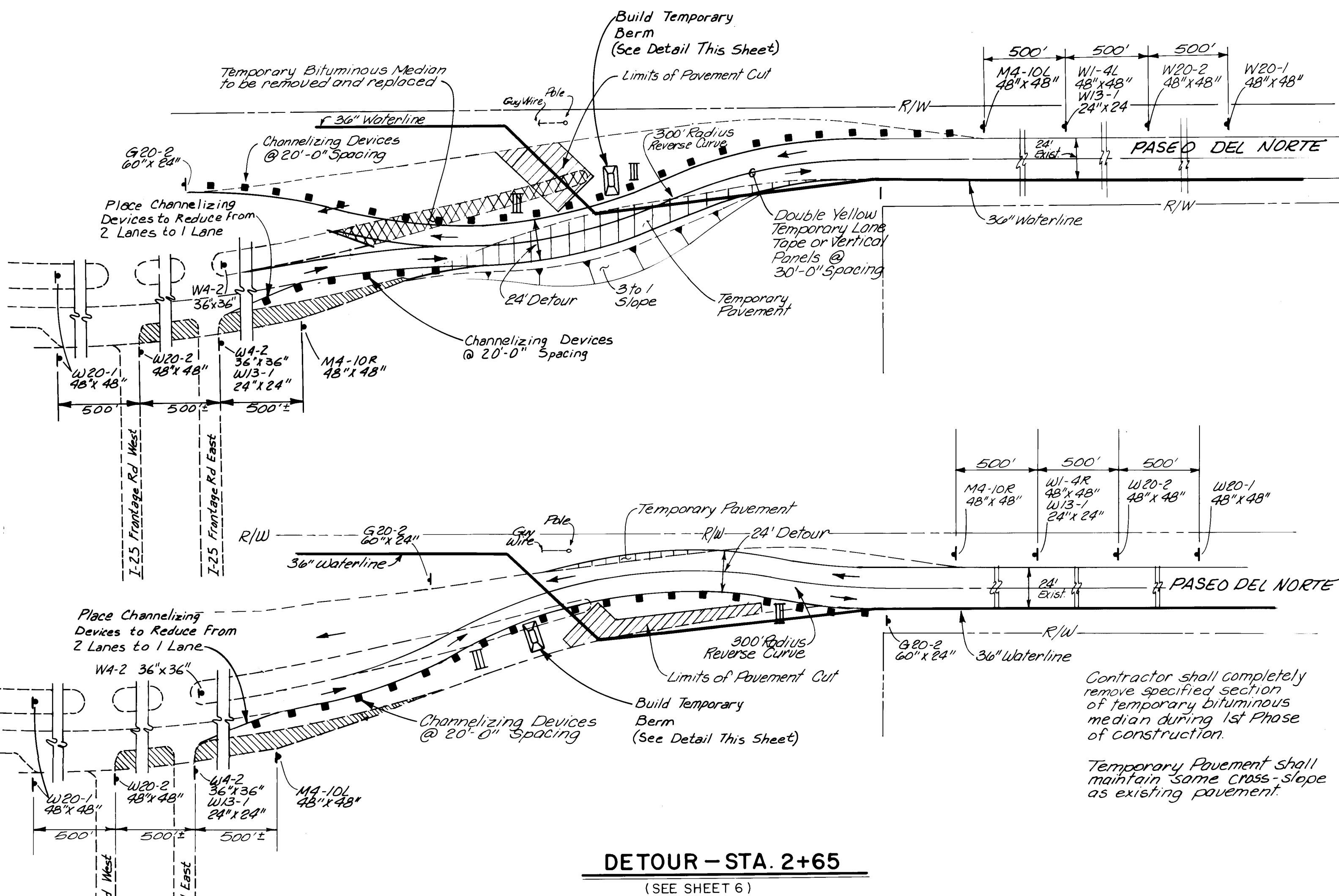
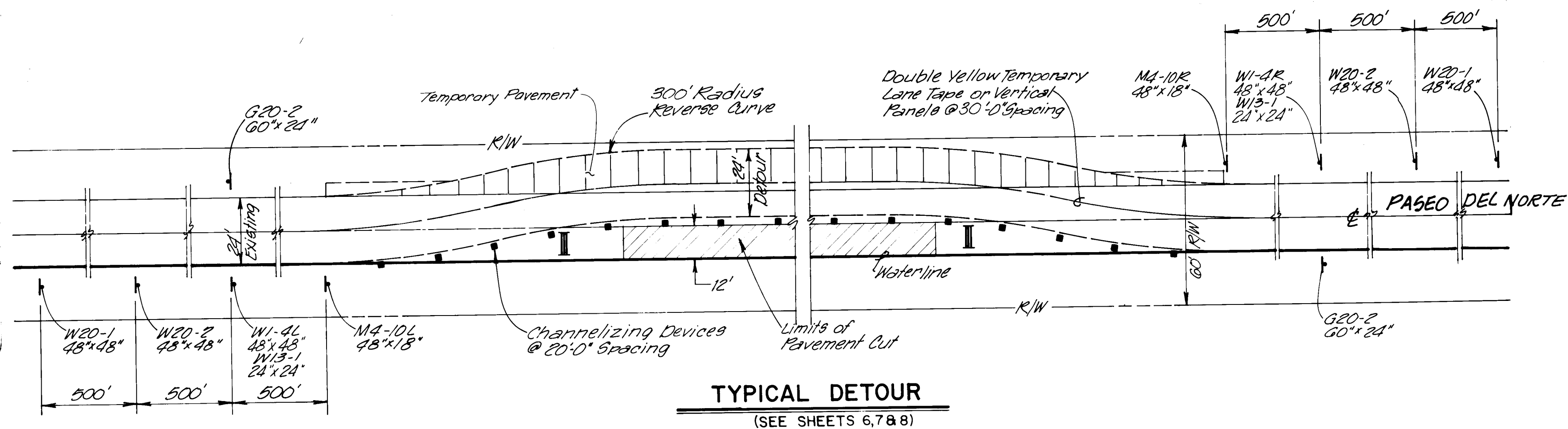
NOTE:
Contractor shall maintain one lane of traffic in each direction at all times.

RECORD DRAWINGS
6/7/88

SCALE: AS SHOWN

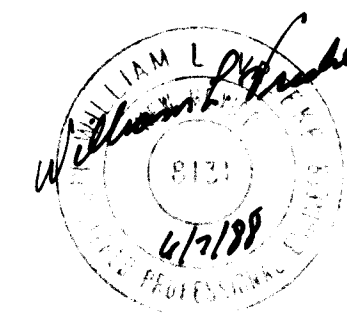
CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION			
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE			
DETOUR PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer			Liquid Waste
A C E - Design			Traffic
A C E - Hydrology			Water
DRAWING NO.	2947	MAP NO.	D-18
SHEET	30	OF	34

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	MCC, Inc.	NO.	DATE	NO.	DATE	NO.	DATE
WORKED BY	S. Walker	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTED BY	B.H.I.	NO.	DATE	NO.	DATE	NO.	DATE
ACCEPTANCE BY	B.H.I.	NO.	DATE	NO.	DATE	NO.	DATE
VERIFICATION BY	B.H.I.	NO.	DATE	NO.	DATE	NO.	DATE
SPANNING BY	B.H.I.	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION		NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY		NO.	DATE	NO.	DATE	NO.	DATE



△ Sheet 30A Replaces Sheet 30 in Plan Set.

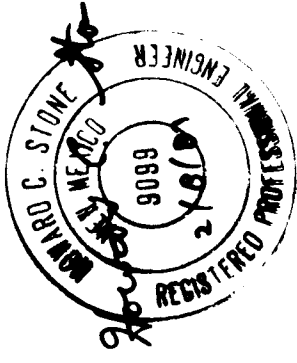
NOTE:
Contractor shall maintain one lane of traffic in each direction at all times.



SCALE: AS SHOWN

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE					
DETOUR PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO.	2947	MAP NO.	D-18	SHEET OF	30A 34

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	MCC, Inc.	NO.		NO.		NO.	
STATED BY	S. Walker	DATE	1/27/87	BY		DATE	1/27/87
FIELD		DATE	1/27/87	REVISIONS		DATE	1/27/87
ADJUSTED		DATE	1/27/87	DESIGN		DATE	1/27/87
CORRECTED BY	B.H.I.	DATE	1/27/87	CHECKED BY	HCS	DATE	1/27/87
RECORDED BY	B.H.I.	DATE	1/27/87				
NO.							



REVISIONS	NO.	DATE	BY	REMARKS
1	5/13/87			Revisions (Replaces Sht 30)

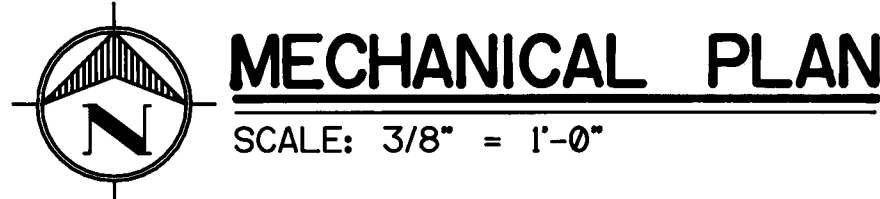


Diagram illustrating the assembly of a slide damper into a duct. The components shown are:

- DUCT
- CLIPS TO HOLD SLIDE DAMPER
- DRIVE SLIP
- SLIDE DAMPER-ONE GAUGE HEAVIER THAN DUCTWORK.
- COVER
- STANDING SEAM ON THREE SIDES

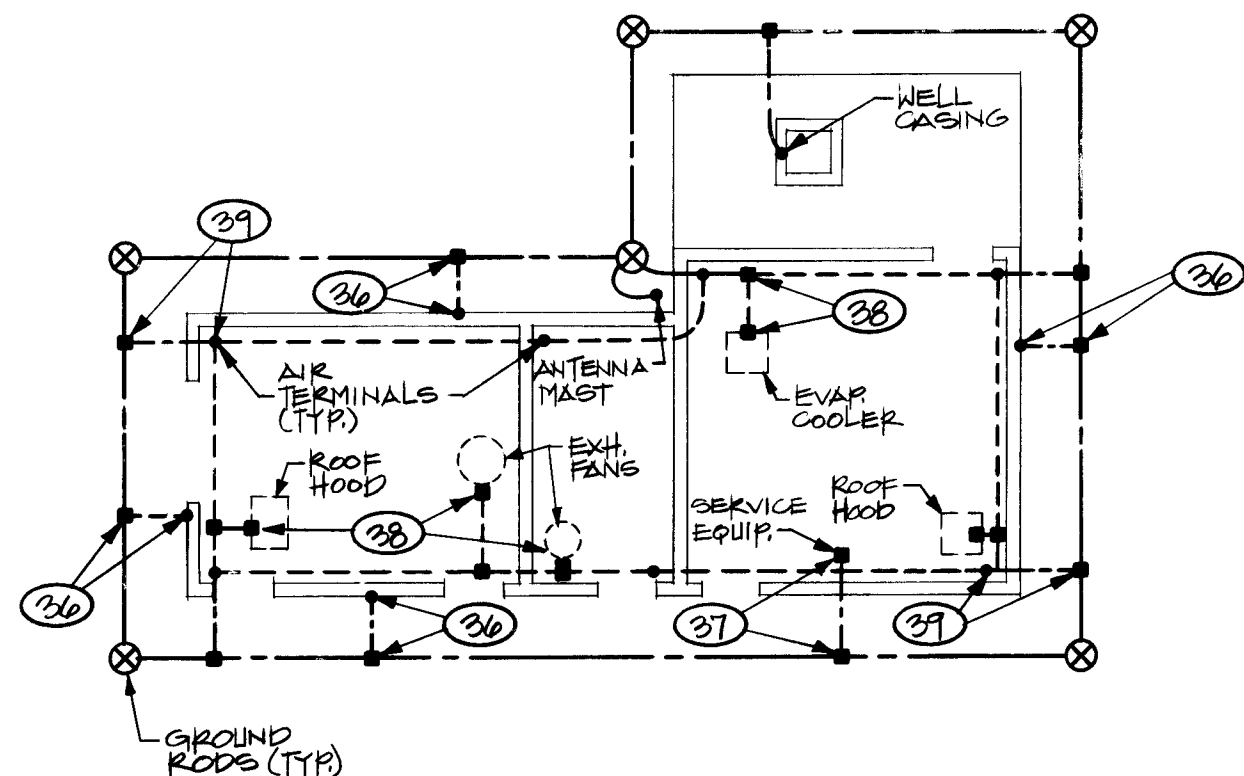
WILLIAM L. B. BAKER
6/7/88

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E -Hydrology			Water		

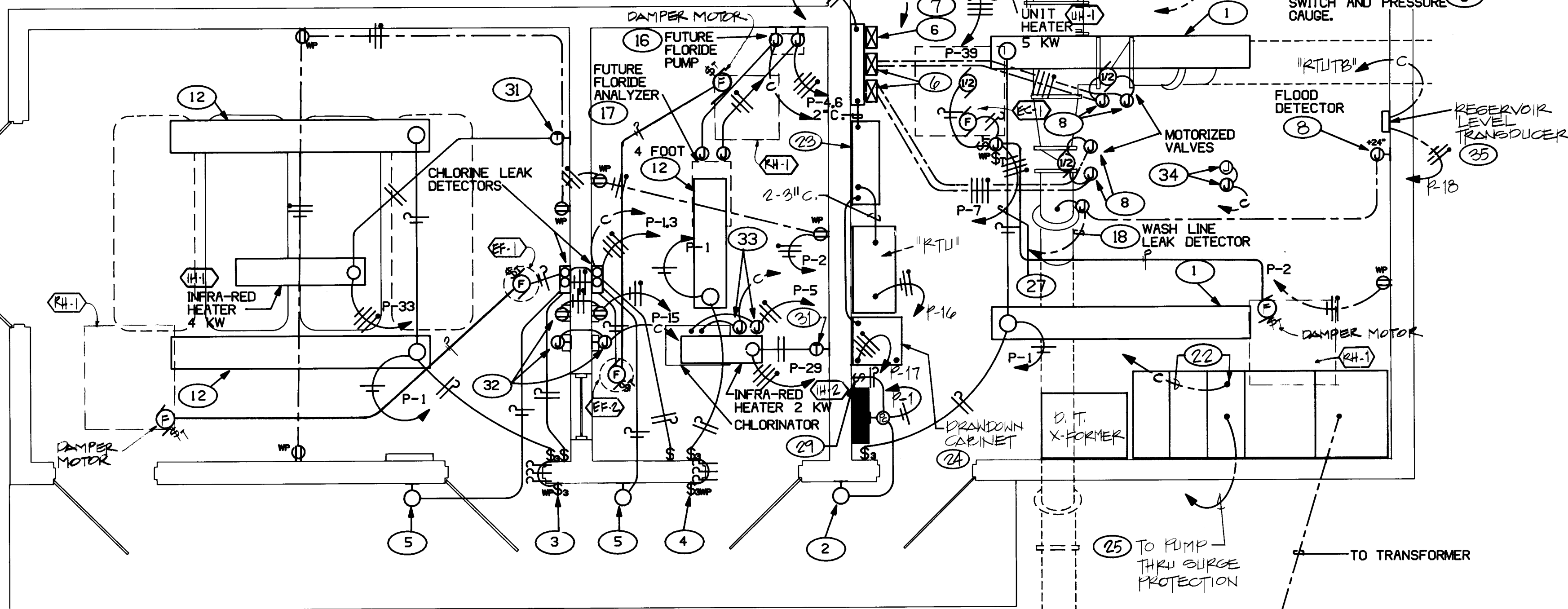
DRAWING NO.	2947	MAP NO.	D-18	SHEET	31	OF	34
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JOB NO. 42360

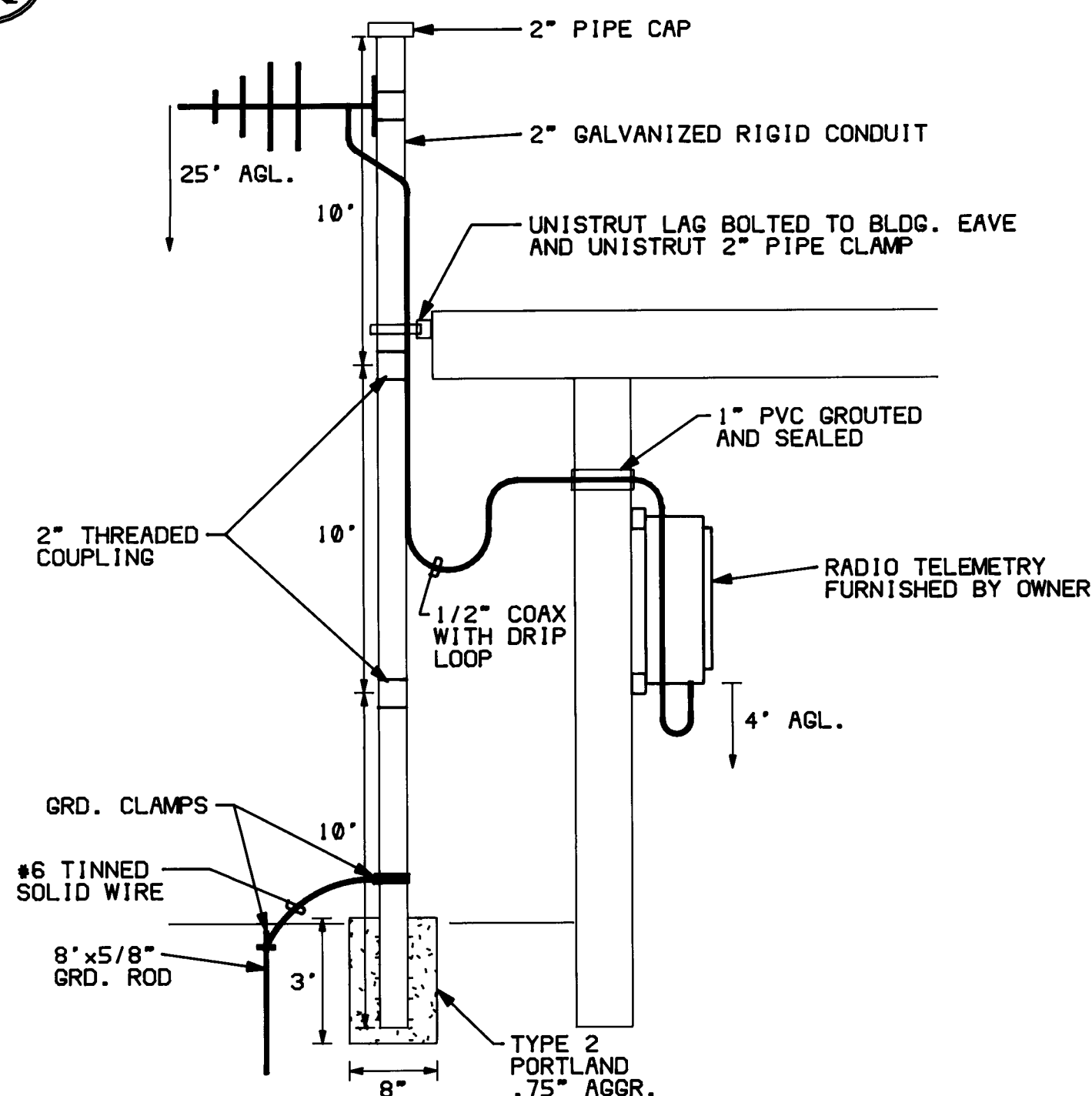
26	2947	3188
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LIGHTNING PROTECTION PLAN
SCALE: 1" = 10'-0"



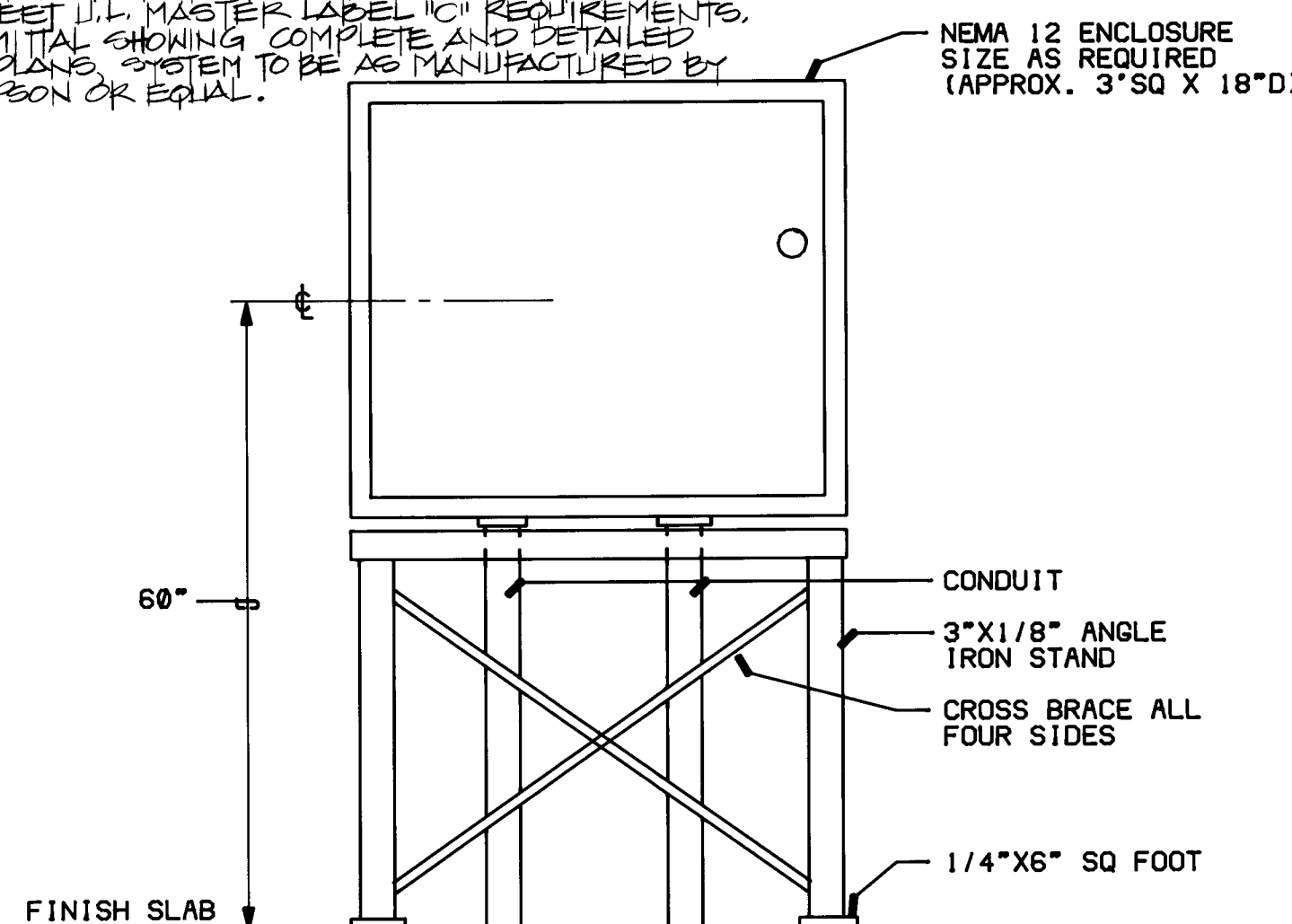
ELECTRICAL PLAN (20)
SCALE: 3/8" = 1'-0"



ANTENNA MAST DETAIL
SCALE: NONE

LIGHTNING PROTECTION NOTES

1. ALL GROUNDING CONDUCTORS TO BE #1/0 COPPER.
2. GROUND RODS TO BE 3/4" DIA. X 10'-0" LONG COPPER CLAD.
3. ALL CONDUCTOR CONNECTIONS TO BE MADE USING CAPWELL PROCESS.
4. ENTIRE LIGHTNING PROTECTION AND COUNTERPOISE SYSTEM TO MEET U.L. MASTER LABEL 'C' REQUIREMENTS. FURNISH SUBMITTAL SHOWING COMPLETE AND DETAILED PROTECTION PLANS. SYSTEM TO BE AS MANUFACTURED BY ROBINS, THOMPSON OR EQUAL.



SURGE PROTECTION ENCLOSURE DETAIL
SCALE: NONE

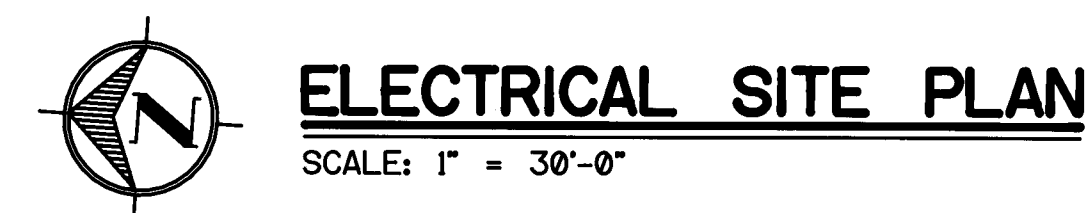
KEYED NOTES

- 1 FURNISH AND INSTALL 8" INDUSTRIAL LIGHTING FIXTURE WITH 2/F96T12/HO LAMPS. LAMP GUARD AND END CAPS SURFACE MOUNTED. FIXTURE TO BE BENJAMIN #FL-1025-BU/FL-173.
- 2 FURNISH AND INSTALL WALL MOUNTED HPS LIGHTING FIXTURE. DEVINE #LUP60-100 HPS UP 7'-0".
- 3 INSTALL NAMEPLATE READING "STORAGE ROOM LIGHTING".
- 4 INSTALL NAMEPLATE READING "CHEMICAL FEEDROOM LIGHTING".
- 5 FIXTURE TO BE A INTERMITTENT AUDIBLE ALARM WITH INCANDESCENT FLASHING LIGHT AND RED LEXAN GLOBE. INSTALL UP 7'-0". 120 VOLT AC, SIMILAR AND EQUAL TO BENJAMIN #KL-5011-120.
- 6 FURNISH AND INSTALL THREE COMBINATION MAGNETIC REVERSING MOTOR STARTERS. 208 V., 3 PHASE WITH 120 V. COILS. NEMA SIZE 1 IN NEMA 2R ENCLOSURE. TWO STARTERS FOR WASH LINE VALVES AND ONE FOR BYPASS VALVE. WIRE AND LABEL FOR RESPECTIVE CONTROL. FUSE AT 125% FLA OF MOTOR.
- 7 FURNISH AND INSTALL 4" X 4" X LENGTH REQUIRED S.C. WIREWAY BELOW STARTERS.
- 8 INSTALL WP JUNCTION BOX AT HEIGHT REQUIRED TO CONNECTION TO EQUIPMENT. FINAL CONNECTION TO BE MADE USING LIQUID TIGHT FLEX CONDUIT. VERIFY REQUIREMENTS AND LOCATION IN FIELD.
- 9 INSTALL JUNCTION BOX AND LIQUID TIGHT FLEX CONDUIT FOR DRAWDOWN LEVEL TRANSDUCER. EXTEND CONDUIT AND CONDUCTORS TO DRAWDOWN LEVEL INDICATOR CABINET IN NOTE 24.
- 10 STUB RIGID CONDUIT 6" ABOVE FLOOR SLAB. INSTALL THREADED COUPLING AND EXTEND LIQUID TIGHT FLEX CONDUIT TO FINAL CONNECTION.
- 11 INSTALL RECEPTACLE AND JUNCTION BOX FOR CONNECTION OF EQUIPMENT INDICATED. VERIFY HEIGHT IN FIELD.
- 12 FURNISH AND INSTALL 8' CORROSION PROTECTED LIGHTING FIXTURE COMPLETE WITH 2/F46/LW LAMPS AND SURFACE MOUNT. BENJAMIN #FAD-2425-8.
- 13 SURGE PROTECTION EQUIPMENT TO BE INSTALLED IN A NEMA 12 ENCLOSURE PER DETAIL BELOW.
- 14 INCANDESCENT ENCLOSED AND GASKETED WALL MOUNTED LIGHTING FIXTURE. BENJAMIN #11WH50-P W/150W IF LAMP AND POLYCARBONATE GLOBE UP 7'-0".
- 15 DELETED.
- 16 INSTALL JUNCTION BOX ON WALL UP 36" FOR FUTURE POWER AND CONTROL CONNECTION OF FLUORIDE PUMP.
- 17 INSTALL JUNCTION BOX AT CEILING FOR FUTURE POWER AND CONTROL CONNECTION OF FLUORIDE ANALYZER.
- 18 EXTEND TO PROBE RELAY LOCATED BELOW DRAWDOWN INDICATOR CABINET. (NOTE 24)
- 19 INSTALL JUNCTION BOX UP 6'-0" FOR POWER AND CONTROL CONNECTION TO TELEMETRY RADIO. (RADIO FURNISHED BY OWNER).
- 20 ALL CONTROL CONDUITS TO BE 1" MINIMUM UNLESS OTHERWISE INDICATED.
- 21 2" RGS CONDUIT ANTENNA MAST. SEE DETAIL THIS SHEET.
- 22 INSTALL 2" CONDUIT BETWEEN RTU AND WELL PUMP STARTER. INSTALL 16#14 CONDUCTORS. VERIFY CONNECTIONS REQUIRED AND LABEL ALL UNUSED CONDUCTORS AS SPARES.
- 23 24" X 24" X 8" NEMA 12 ENCLOSURE FOR TERMINATION OF ALL CONTROL CONDUITS/CONDUCTORS (RTU/RTUB). ALL CONTROL AND INSTRUMENTATION CONDUITS & CONDUCTORS TO TERMINATE AT THIS ENCLOSURE.
- 24 INSTRUMENT PANEL WITH DRAWDOWN INDICATOR, WELL FLOW TOTALIZER/INDICATOR AND BYPASS VALVE CONTROL. INSTALL PROBE RELAYS FOR FLOOD DETECTOR, FLOW ELECTRODE AND WASH LINE LEAK DETECTOR IN NEMA 1 ENCLOSURE BELOW THIS CABINET.
- 25 SEE POWER RISER DIAGRAM FOR REQUIREMENTS.
- 26 INSTALL WP J-BOX 52" ABOVE FINISH FLOOR ON PUMP PEDESTAL. INSTALL JUMBO MUSHROOM HEAD MAINTAINED CONTACT PULL-RUN/PUSH-STOP OPERATOR AND LABEL "EMERGENCY STOP" OPERATOR TO BE EQUIVILANT TO SQ "B" CLASS 5001 CAT.# KR-SR AND BE WIRED AS SHOWN IN PUMP CONTROL DIAGRAM.
- 27 EXTEND TO CIRCUIT INDICATED THRU EVAP COOLER CONTROLS.
- 28 EVAP COOLER SWITCHES. CONNECT PER EVAP COOLER CONTROL DIAGRAM. LABEL EACH SWITCH FOR RESPECTIVE CONTROL.
- 29 INSTALL SWITCH IN PARALLEL WITH PHOTO-CELL CONTACT. LABEL "PHOTOCELL OVER RISE".
- 30 INDOOR LINE VOLTAGE T-STAT. CLOSE ON RISE. SET FOR 80 DEG F.
- 31 T-STAT FURNISHED WITH RADIANT HEATING PANELS.
- 32 RECEPTACLE AND CONTROL J-BOX FOR CONNECTION OF CHLORINE CYLINDER SCALES.
- 33 INSTALL J-BOXES AT CEILING FOR POWER AND CONTROL CONNECTIONS OF CHLORINATOR.
- 34 LOCATE J-BOX AT CEILING FOR AMBIENT TEMPERATURE SENSOR AND SMOKE DETECTOR.
- 35 NEMA 12 ENCLOSURE SIZED TO HOUSE THE RESERVOIR LEVEL TRANSDUCER. INSTALL TRANSDUCER AT SAME ELEVATION AS KINGWALL OF RESERVOIR.
- 36 BOND STRUCTURAL STEEL (RE-BAR, ETC) TO COUNTERPOISE. (TYP)
- 37 CONNECT ELECTRICAL SERVICE GROUND TO BUILDING COUNTERPOISE.
- 38 BOND MECHANICAL EQUIPMENT AND PIPING TO COUNTERPOISE.
- 39 EXTEND DOWN CONDUCTOR FROM AIR TERMINAL LOOP AT COUNTERPOISE. (TYPICAL)

SCALE: AS SHOWN

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION					
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT-WATER TRANSMISSION LINE					
ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO. 2947		MAP NO. D-18		SHEET 32 OF 34	

26 2947 3288

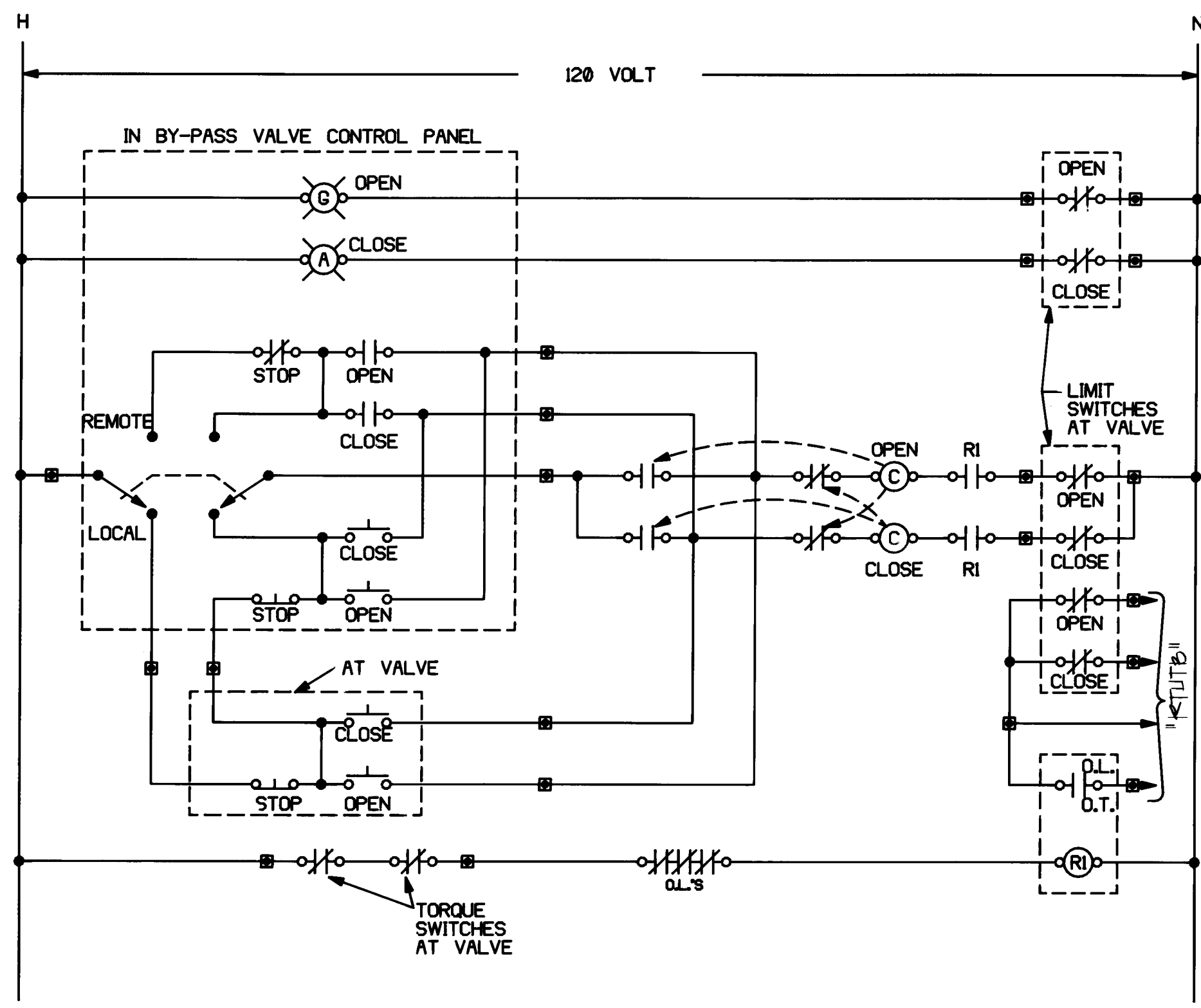


NOTE : CCTS 8,10,12,14 TO BE GFI CIRCUIT INTERRUPTING TYPE.

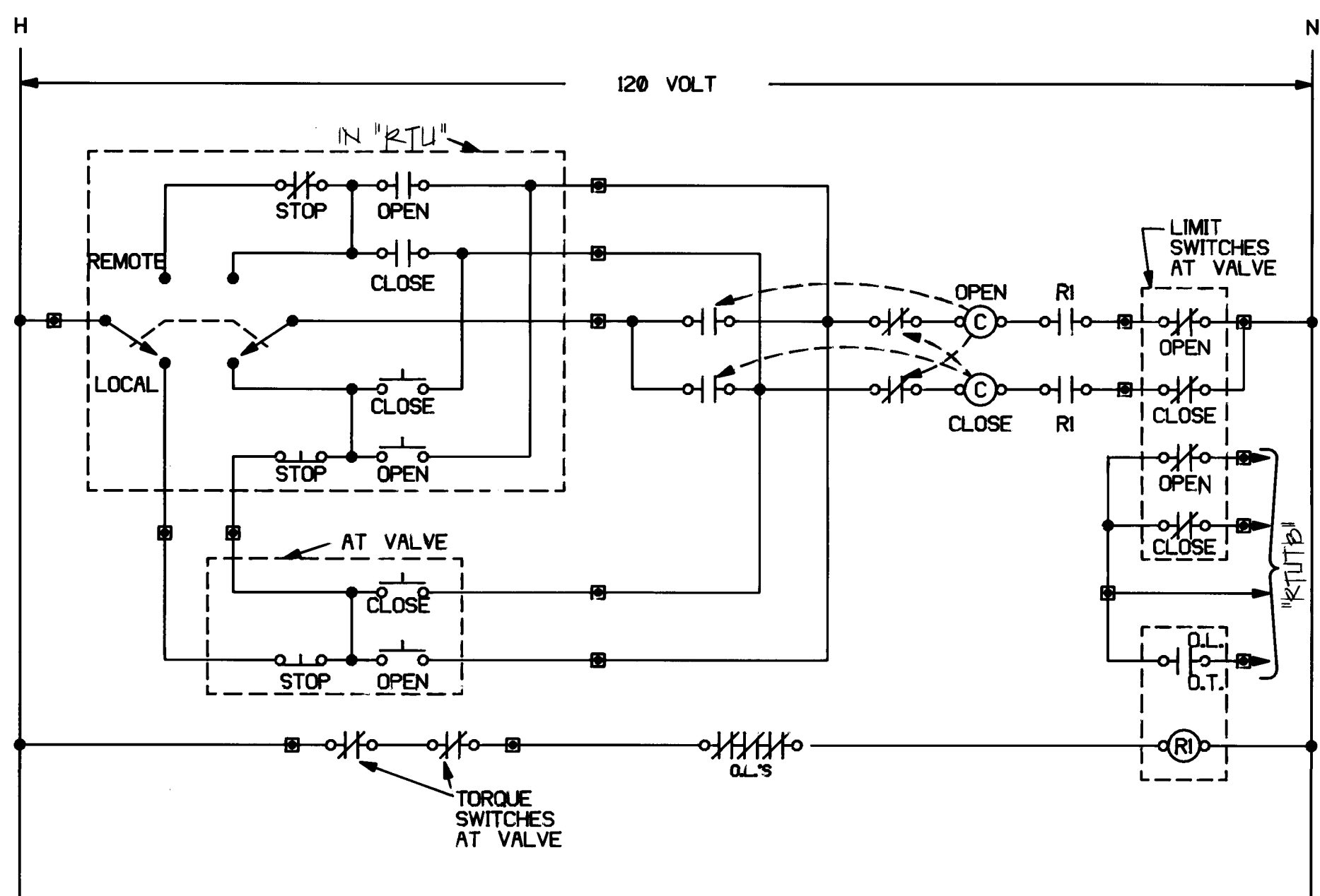


- NOTE:
- PRIMARY SERVICE FEEDER SHALL BE PAID FOR ON A LINEAL FOOT BASIS FROM POINT OF PNM SERVICE TO PAD MOUNTED TRANSFORMER AND SWITCH GEAR.

SCALE: AS SHOWN				DATE		DRAWN BY		CHECKED BY		NO.	
		CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION									
TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE ELECTRICAL DETAILS											
APPROVALS		ENGINEER		DATE		APPROVALS		ENGINEER		DATE	
City Engineer						Liquid Waste					
A C E - Design						Traffic					
A C E - Hydrology						Water					
DRAWING NO. 2947				MAP NO. D-18				SHEET 33 OF 34			

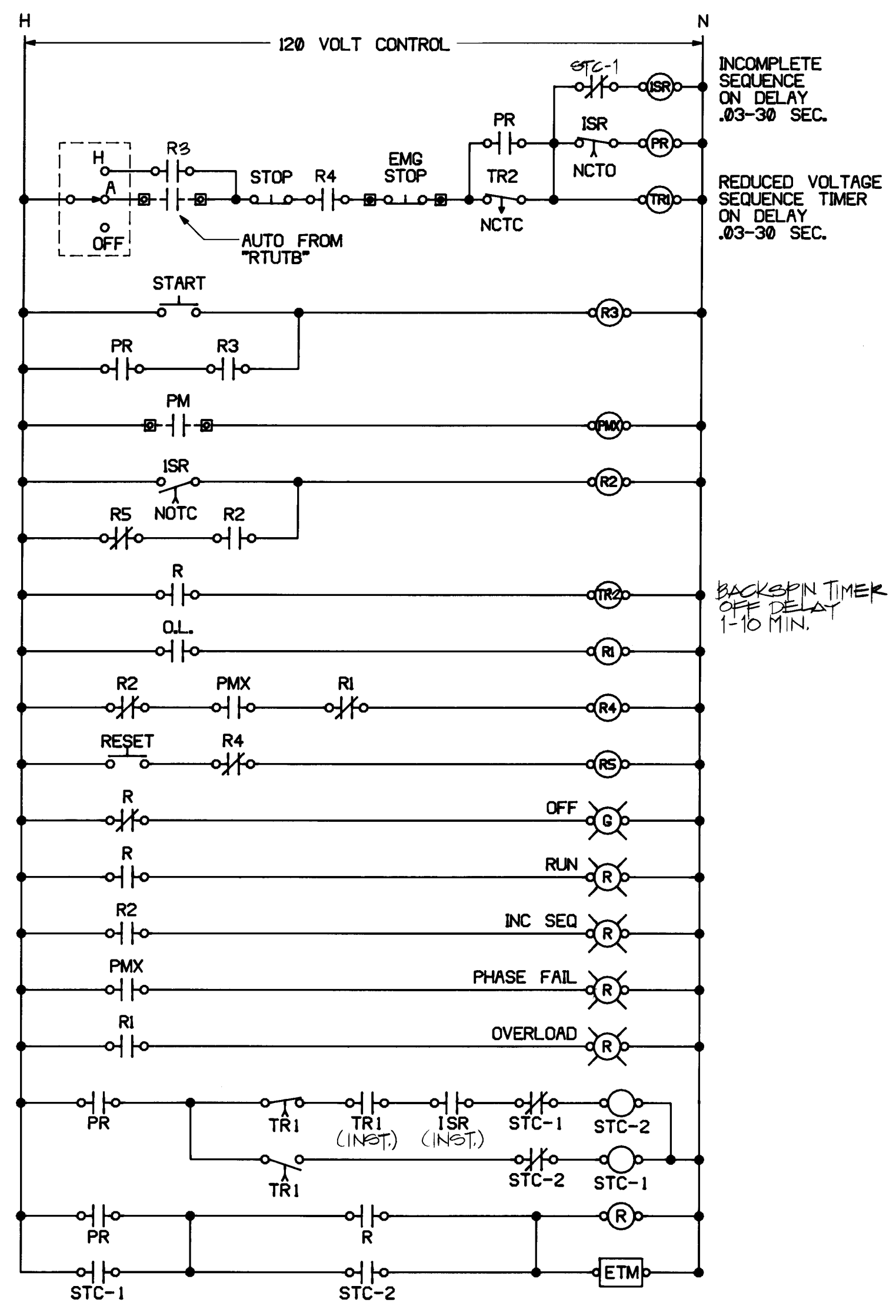


BY-PASS VALVE CONTROL DIAGRAM
SCALE: NONE

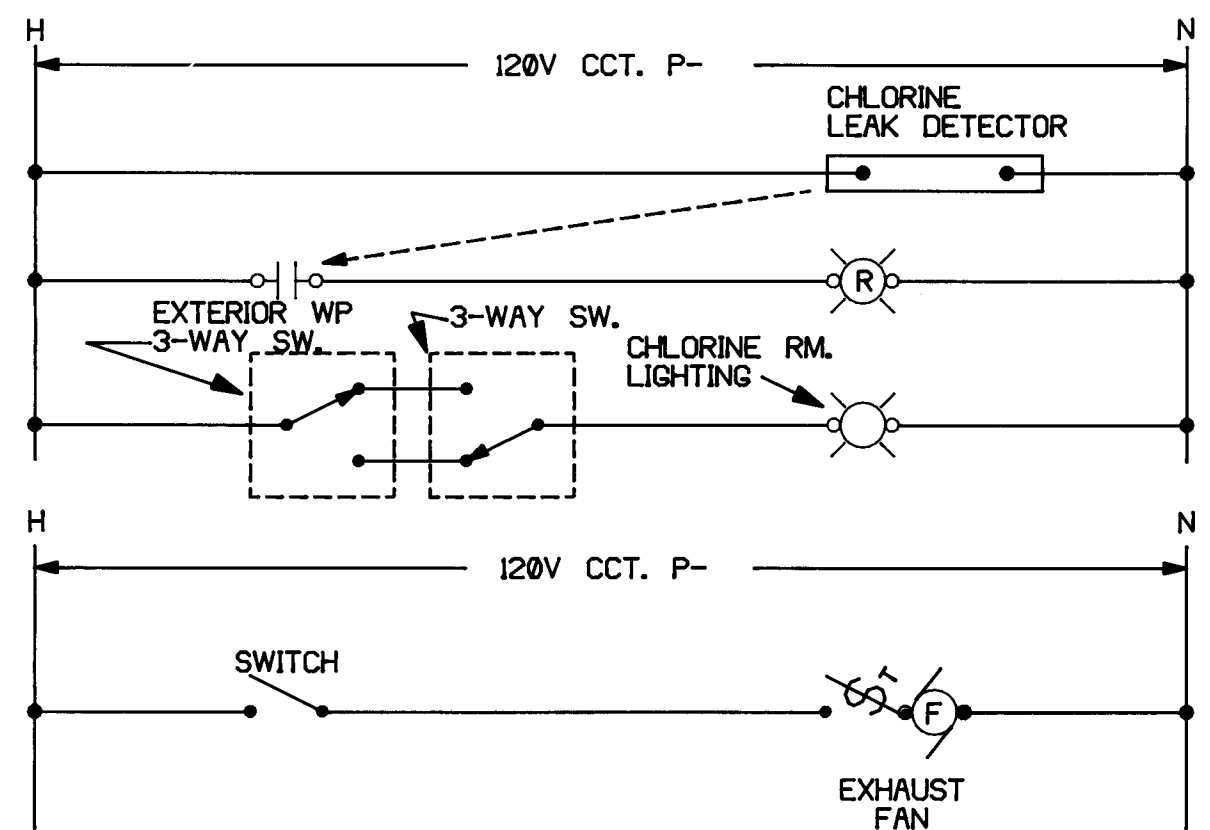


VALVE CONTROL DIAGRAM
SCALE: NONE (WASH & LINE VALVES)

LIMIT SWITCH	VALUE POSITION		
	CLOSED	INTERMEDIATE	OPEN
RTUTB OPEN SIGNAL	CLOSED	CLOSED	OPEN
RTUTB CLOSED SIGNAL	OPEN	CLOSED	CLOSED

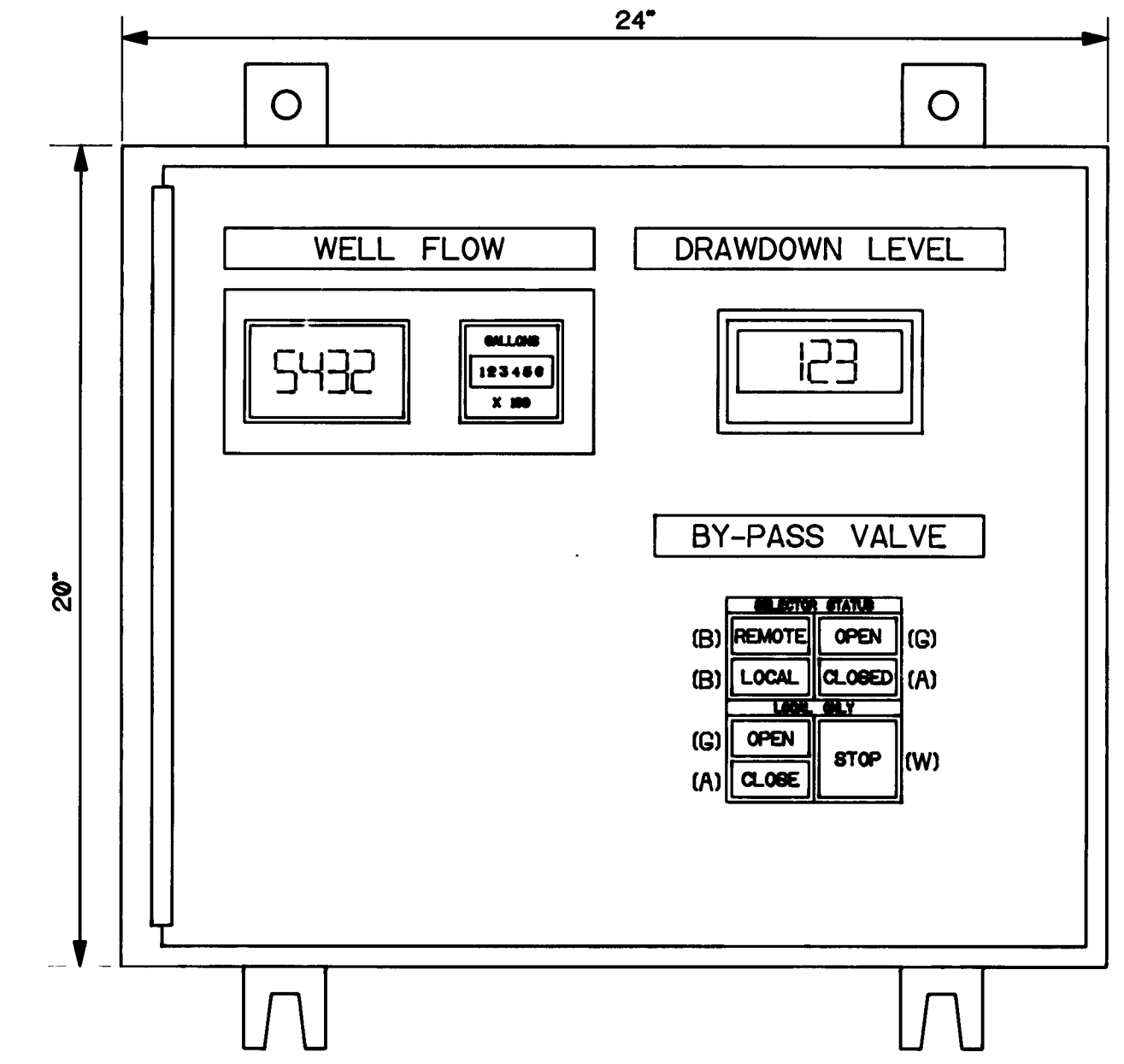


WELL PUMP CONTROL DIAGRAM
SCALE: NONE

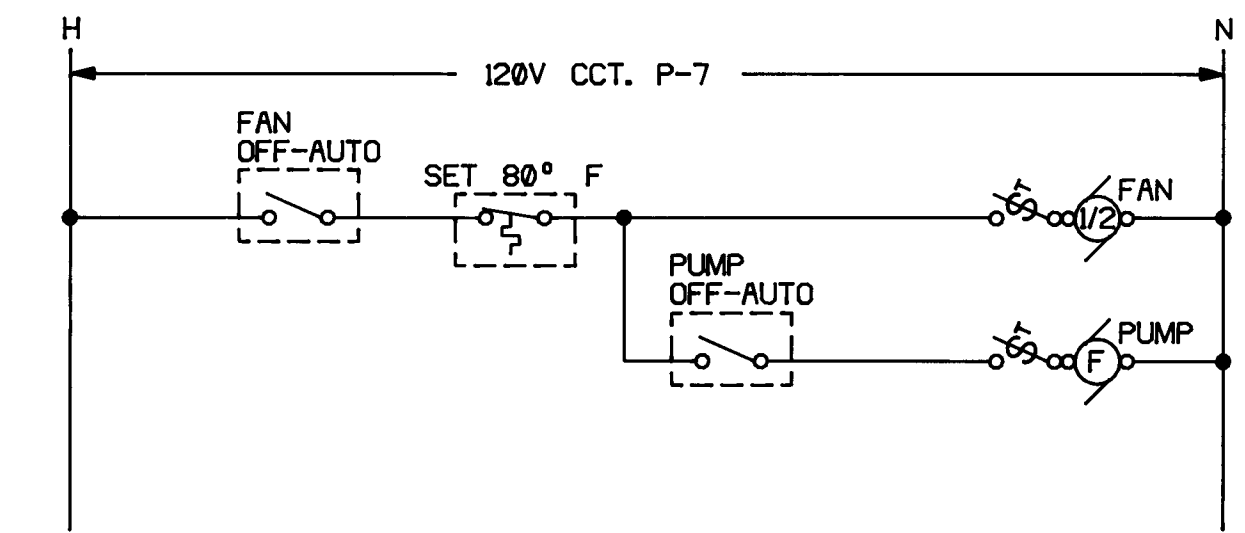


CHLORINE ROOM CONTROL DIAGRAMS
SCALE: NONE (TYPICAL OF TWO)

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
○	BRACKET OUTLET AND FIXTURE.
○	CEILING OUTLET AND FIXTURE.
□	FLUORESCENT OUTLET AND FIXTURE.
⌂	SINGLE POLE WALL SWITCH.
⌂	THREE WAY WALL SWITCH.
⌂	PILOT SWITCH.
⌂	THERMAL SWITCH, WEATHERPROOF IF INSTALLED OUTSIDE, OR IN WET OR EXTERIOR LOCATIONS.
⌂	JUNCTION BOX FLUSH IN WALL, HEIGHT AS INDICATED WITH CONNECTION TO EQUIPMENT. WP DENOTES WEATHERPROOF.
⌂	DUPLEX CONVENIENCE OUTLET, UP 36" OR AS INDICATED. WP DENOTES WEATHERPROOF.
⌂	THERMOSTAT, UP 48" UNLESS OTHERWISE INDICATED.
⌂	SPECIAL CABINET, TELEPHONE TYPE OR AS NOTED.
⌂	BRANCH CIRCUIT POWER PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
⌂	MOTOR CONNECTION WITH HP INDICATED.
⌂	MOTOR CONTROLLER, SIZE AND POLES FOR MOTOR FURNISHED. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.
⌂	SAFETY SWITCH, TO HAVE POLES AND RATING REQUIRED, TO BE NEMA 3R IF INSTALLED OUTDOORS.
⌂	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP). PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.
⌂	PHOTOCELL LIGHTING CONTROLLER, PRECISION #T-15 MOUNTED ON 1/2" RIGID CONDUIT STUBBED 12" ABOVE ROOF WITH WINDOW FACING NORTH.
⌂	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED.
⌂	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR WITH CONDUCTORS INDICATED.
⌂	HOME RUN TO PANEL WITH EACH ARROW INDICATING 1 - 20A/1P C/B. UNLESS OTHERWISE INDICATED.
⌂	CONTROL CONDUIT TO "RTUTB". MINIMUM SIZE 1".



DRAWDOWN LEVEL / WELL FLOW / BY-PASS VALVE CONTROL PANEL
SCALE: NONE



EVAP COOLER CONTROL DIAGRAM
SCALE: NONE

AS BUILT INFORMATION CONTRACTOR: MCC, Inc. WORK: S. Walker DATE: 4/17/88 INSPECTOR: BHI DATE: 4/20/88 FIELD: BHI DATE: 4/20/88 DRAWING: BHI DATE: 4/20/88 MICRO-FILM INFORMATION RECORDED BY: BHI DATE: 4/20/88		BENCH MARKS NO. DATE BY		SURVEY INFORMATION NO. DATE BY		ENGINEER'S SEAL REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 3980 NAME: G. ROBERT		REVISIONS NO. DATE BY DESIGN		DESIGNED BY DATE		DRAWN BY DATE		CHECKED BY DATE	
SCALE: AS SHOWN CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT WATER SYSTEMS DIVISION TITLE: ZONE 2E ALAMEDA TRUNK FACILITIES-CORONADO RESERVOIR CORONADO NO. 1 WELL EQUIPMENT - WATER TRANSMISSION LINE ELECTRICAL DETAILS APPROVALS: ENGINEER DATE APPROVALS ENGINEER DATE City Engineer Liquid Waste A C E - Design Traffic A C E - Hydrology Water DRAWING NO. 2947 MAP NO. D-18 SHEET 34 OF 34 JOB NO. 42360															