CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

SERWTP DISINFECTANT CONCENTRATION-TIME IMPROVEMENTS PROJECT

VOLUME 3 OF 3
APPENDIX

DISTRICT PROJECT NO. 4393

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

For Information Regarding this Project Contact:
Josh Curtis, P.E.
154 East 14075 South
Draper, Utah 84020
(801) 495-2224

BOWEN COLLINS & ASSOCIATES

October 2026

CONTRACT DOCUMENTS FOR

SERWTP Disinfectant Concentration-Time Improvements

JVWCD PROJECT #: 4393

October 6, 2026

OWNER

Jordan Valley Water Conservancy District
8215 South 1300 West
West Jordan, Utah 84088
801-565-4300

ENGINEER

Bowen, Collins and Associates
154 East 14075 South
Draper, Utah 84020

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END OF SECTION

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1983

SELECTED SERWTP 3 MG RESERVOIR AND VALVE VAULT RECORD DRAWINGS
2003

SELECTED WATERPRO METER VAULT RECORD DRAWINGS
2003

SELECTED SERWTP 1 MG RESERVOIR RECORD DRAWINGS
1983

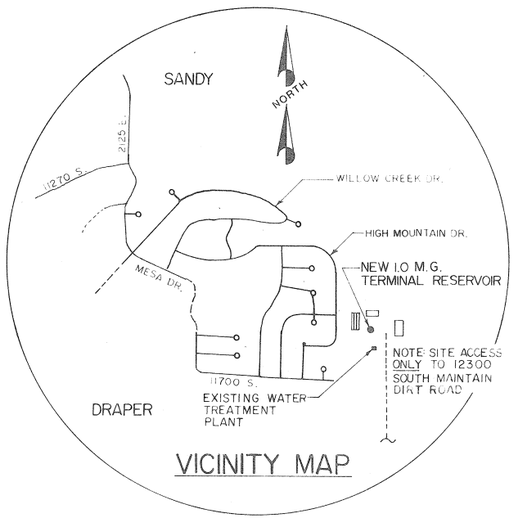
1.0 MILLION GALLON TERMINAL RESERVOIR

SALT LAKE COUNTY WATER CONSERVANCY DISTRICT
SOUTHEAST REGIONAL WATER TREATMENT PLANT

DISTRICT APPROVALS

ROBERT B. HILBERT
GENERAL MANAGER

MATTHEW R. MARSHALL
CHIEF ENGINEER



VICINITY MAP

INDEX TO DRAWINGS

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S-1	SITE WORK PLAN & PIPING DETAILS
S-2	PLAN VIEWS, WALL & COLUMN SECTIONS
S-3	ROOF SLAB REINFORCING PLAN
S-4	OUTLET PIPING & VALVE BOX DETAILS
S-5	INLET & OVERFLOW PIPING, MISC. DETAILS
S-6	BENCH VENT DETAILS

REGISTERED PROFESSIONAL ENGINEER No. 1770 S. WALLACE JACKSON STATE OF UTAH

S. WALLACE JACKSON, P.E.

REGISTERED PROFESSIONAL ENGINEER No. 4768 DEAN WEBB STATE OF UTAH

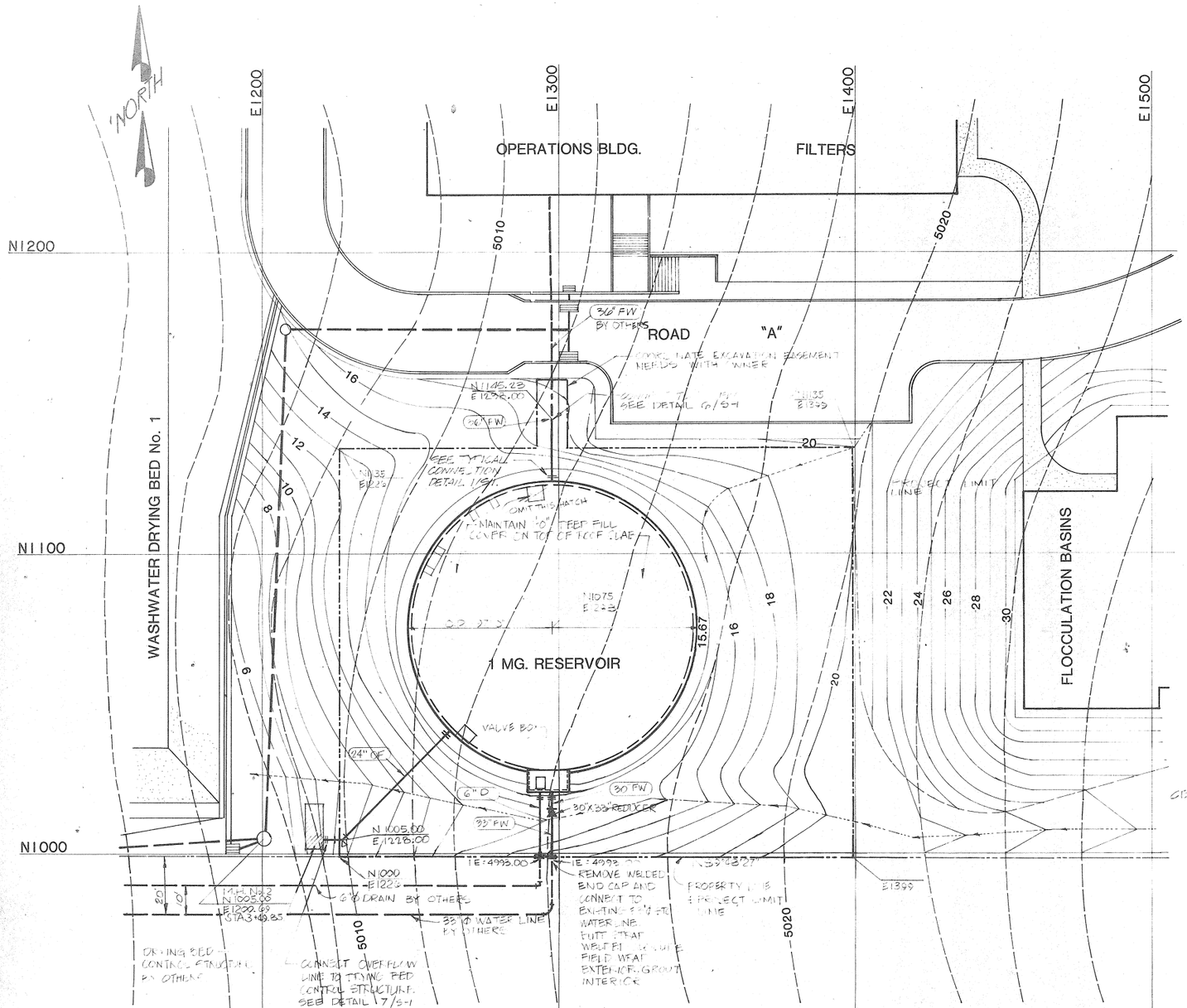
DEAN L. WEBB, P.E.

AS BUILT

ENGINEERS: DMJM Coon, King and Knowlton

PLANNING
ARCHITECTURE
ENGINEERING
SURVEYING

5330 SOUTH 900 EAST
SALT LAKE CITY, UTAH 84117
TELEPHONE (801) 262-2951



SITE PLAN
SCALE 1"= 20'-0"

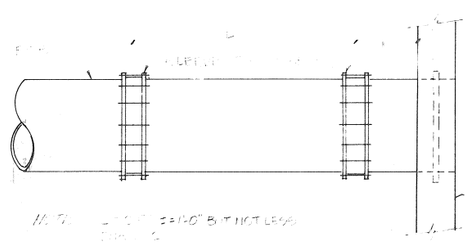
NOTES:
1. THE PLANT GRID SYSTEM IS TRUE NORTH-SOUTH. THE HORIZONTAL CONTROL POINT IS THE SOUTHWEST CORNER OF PROPOSED STOCKHAMPTON ESTATES SUBDIVISION WHICH IS ASSUMED TO BE N. 10000.00 E. 10000.00.
2. ALL STATIONING AND COORDINATES ARE ON A HORIZONTAL PLANE.
3. CONTRACTOR ENTRANCE SHALL BE ALONG GRADED GRAVEL ROAD NORTH FROM 12TH SOUTH STREET AT ABOUT 20TH EAST STREET. CONTRACTOR SHALL MAINTAIN ENTRANCE ROAD DURING PERIOD OF CONSTRUCTION. NO ACCESS WILL BE PERMITTED FROM HIGH MOUNTAIN DRIVE.
4. ~~COAL MAY BE STOCK PILED SOUTH OF SITE ON CENTER IRRIGATION COMPANY LAND. COORDINATES NEEDED THROUGH OWNER.~~
5. COATING SCHEDULE DENOTED THUS C-1 (BLUE) — SYSTEM, COLOR
6. PIPE BEDDING SHALL BE TYPE-3 - BACKFILL SHALL BE TYPE-C.

PIPING SCHEDULE

SYSTEM DESIGNATION		MATERIAL	LINING	COATING
24"	OF	STEEL (t=0.25)	CML (t=0.75)	TAPE 20 MIL ER CMC
36"	FW	STEEL (t=0.375)	CML (t=0.75)	TAPE 20 MIL ER CMC
30"	FW	STEEL (t=0.25)	CML (t=0.75)	TAPE 20 MIL ER CMC
33"	FW (35"O.D.)	STEEL (t=0.156)	CML (t=0.75)	TAPE 20 MIL ER CMC
6"	D	DUCTILE IRON (CL50)	CML	COAL TAR

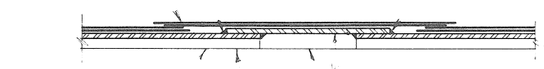
24" OF — PIPE SCHEDULE DESIGNATION
PIPE SIZE (I.D.)

CML = CEMENT MORTAR LINING
CMC = CEMENT MORTAR COATING
ER = VERIFIED IN FIELD
FW = FINISHED WATER
D = DRAIN

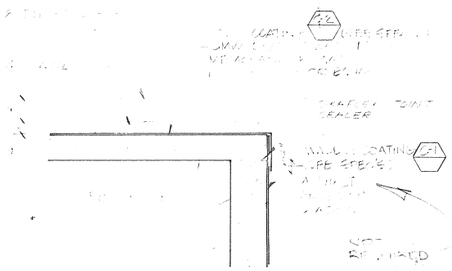


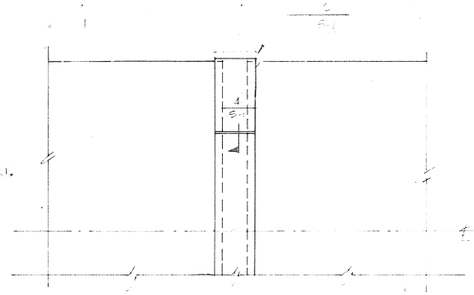
1/S-1 TYPICAL CONNECTION DETAIL

4/S-1 SECTION

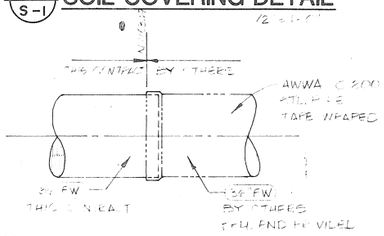


2/S-1 SECTION AT BUTT STRAP



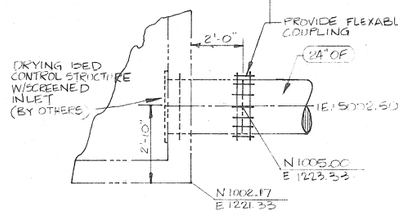


3/S-1 BUTT STRAP CLOSURE DETAIL



5/S-1 SOIL COVERING DETAIL

6/S-1 36" ϕ CONNECTION DETAIL



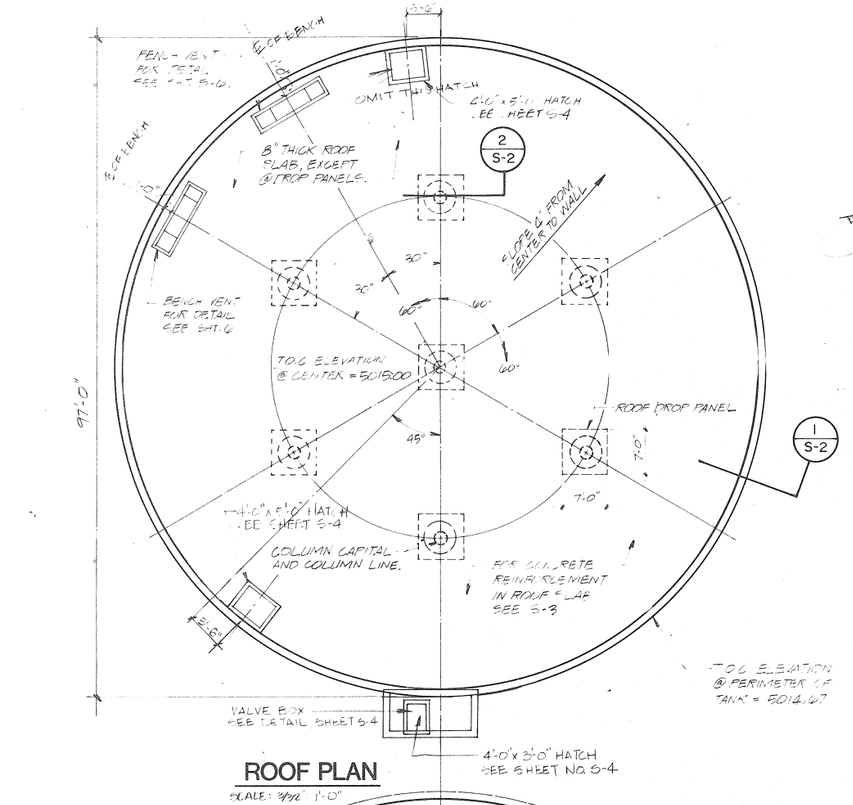
7/S-1 CONNECTION DETAIL

REGISTERED PROFESSIONAL ENGINEER
No. 3770
S. WALLACE JACKSON
STATE OF UTAH

AS BUILT

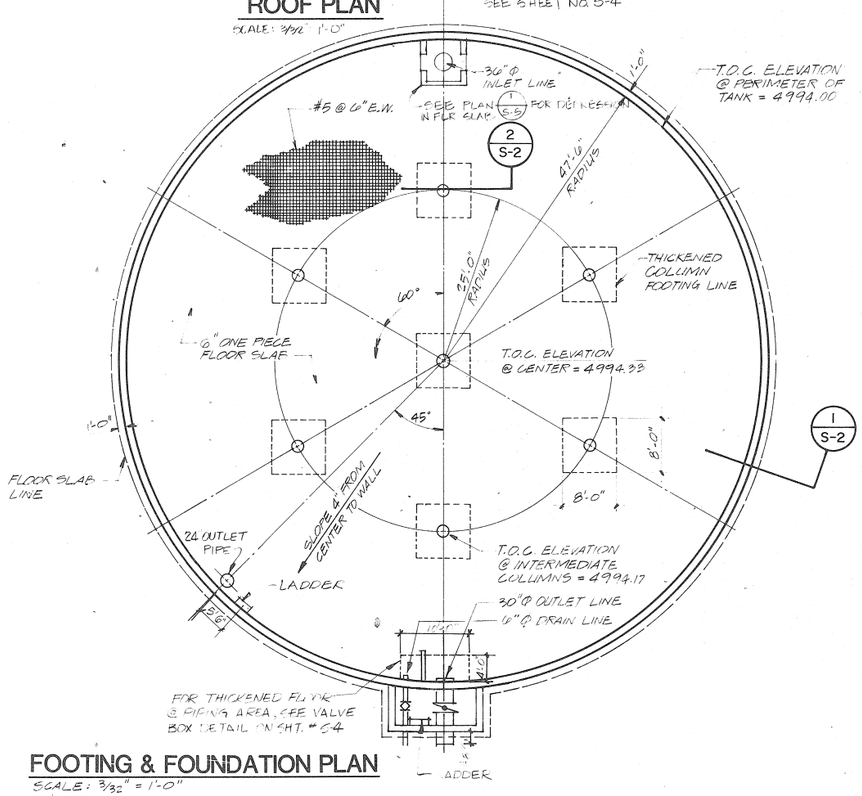
JOB NUMBER 1618-04-01	DELETED WALL COATING; INLET HATCH; NOTE #4 3/21/83	DMJM Coon, King and Knowlton	SALT LAKE COUNTY WATER CONSERVANCY DISTRICT SOUTHEAST REGIONAL WATER TREATMENT PLANT TERMINAL RESERVOIR
DRAWN BY S.H. DATE	REVISIONS DATE	PLANNING ARCHITECTURE ENGINEERING SURVEYING	SITE WORK PLAN & PIPING DETAILS 82CI15A
CHECKED BY S.W.J. DATE		5330 SOUTH 900 EAST SALT LAKE CITY, UTAH 84117 TELEPHONE (801) 262-2951	PROJECT/OWNER / SHEET TITLE

S-1



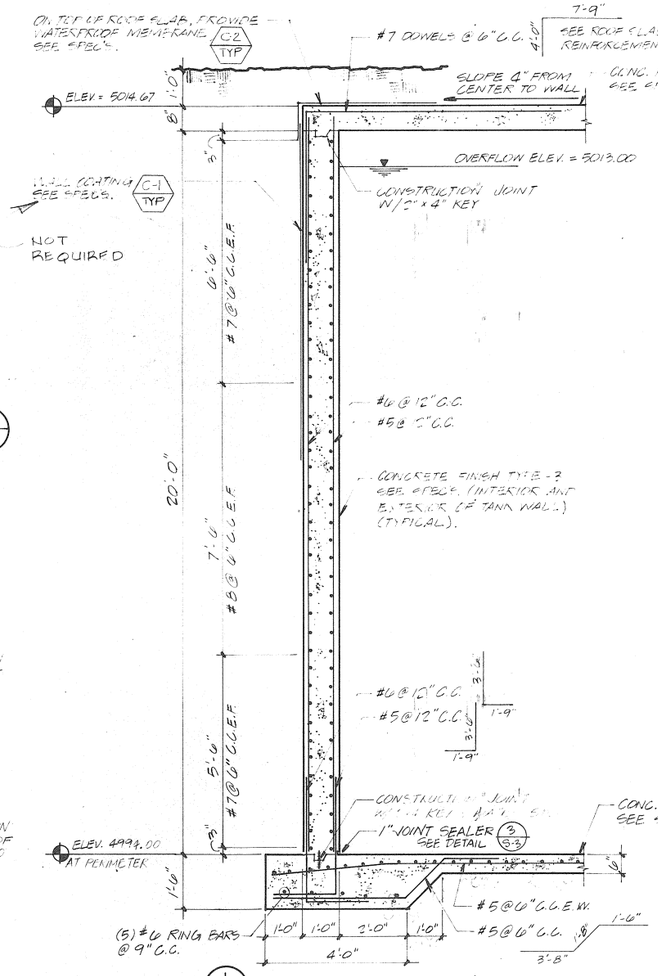
ROOF PLAN

SCALE: 3/32" = 1'-0"

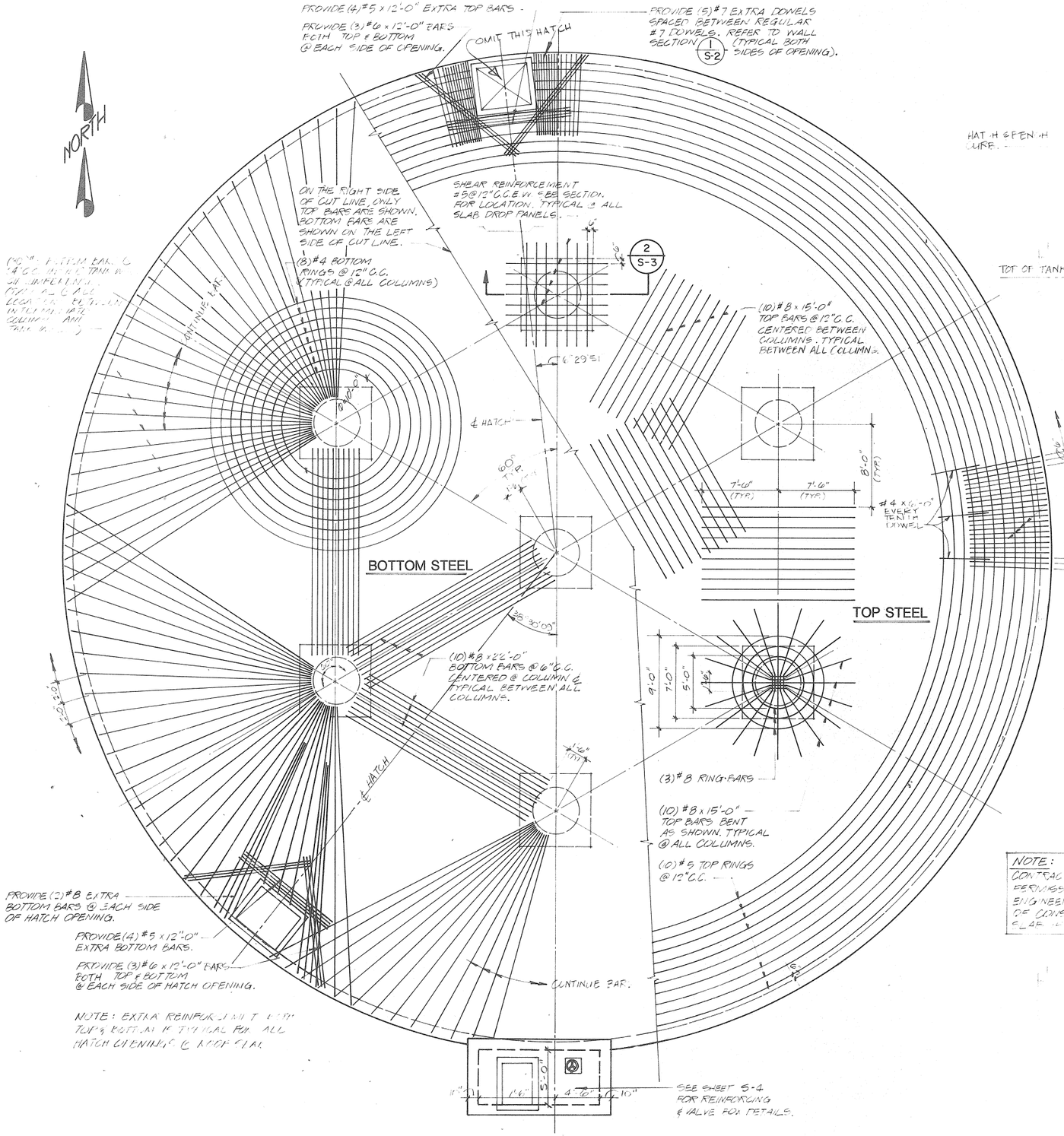


FOOTING & FOUNDATION PLAN

SCALE: 3/32" = 1'-0"

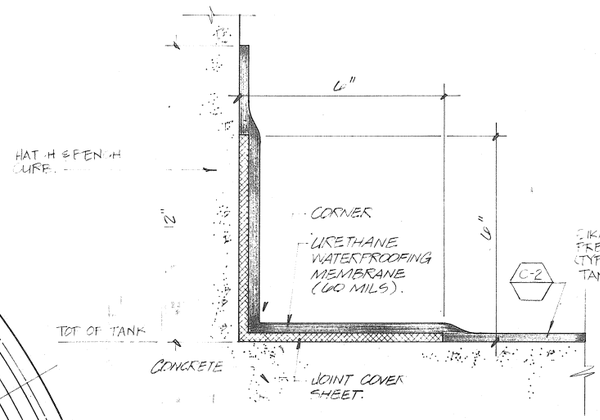


1618-04-01 JOB NUMBER B. PAXMAN DRAWN BY DATE S.W.J. CHECKED BY DATE	DELETED INLET HATCH; WALL COATING 3/21/83 REVISIONS DATE	DMJM Coon, King and Knowlton PLANNING ARCHITECTURE ENGINEERING SURVEYING 5330 SOUTH 900 EAST SALT LAKE CITY, UTAH 84117 TELEPHONE (801) 262-2951	SALT LAKE COUNTY WATER CONSERVANCY DISTRICT SOUTHEAST REGIONAL WATER TREATMENT PLANT TERMINAL RESERVOIR PROJECT/OWNER	PLAN VIEWS, WALL & COLUMN SECTIONS 82C115A SHEET TITLE	S-2



ROOF SLAB REINFORCING PLAN

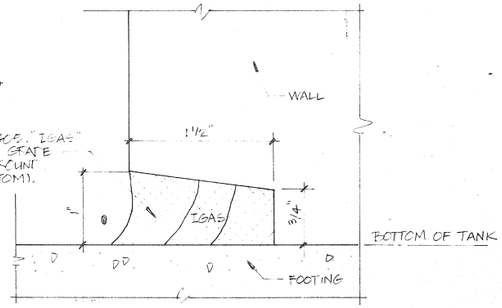
SCALE: 3/16" = 1'-0"



WATERPROOF MEMBRANE

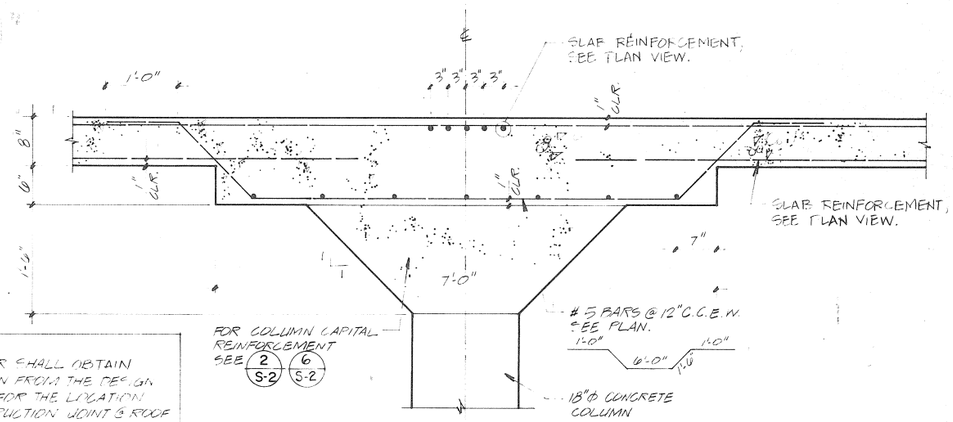
1/S-3 **CORNER DETAIL**

NO SCALE



3/S-3 **JOINT SEALER DETAIL**

NO SCALE



NOTE:
CONTRACTOR SHALL OBTAIN PERMISSION FROM THE DESIGN ENGINEER FOR THE LOCATION OF CONSTRUCTION JOINT & ROOF SLAB IF DESIRED.

FOR COLUMN CAPITAL REINFORCEMENT SEE 2/S-2 & 6/S-2

2/S-3 **REINFORCING @ DROP PANEL**

SCALE: 1" = 1'-0"

UTAH REGISTERED PROFESSIONAL ENGINEER No. 4769 DEAN L. WEBB 12/1/83 State of Utah

AS BUILT

1618-04-01 JOB NUMBER	DELETED DET HATCH	3/21/83 DATE
B. PAXMAN DRAWN BY DATE	REVISIONS	
S.W.J. CHECKED BY DATE		

DMJM Coon, King and Knowlton
PLANNING
ARCHITECTURE
ENGINEERING
SURVEYING

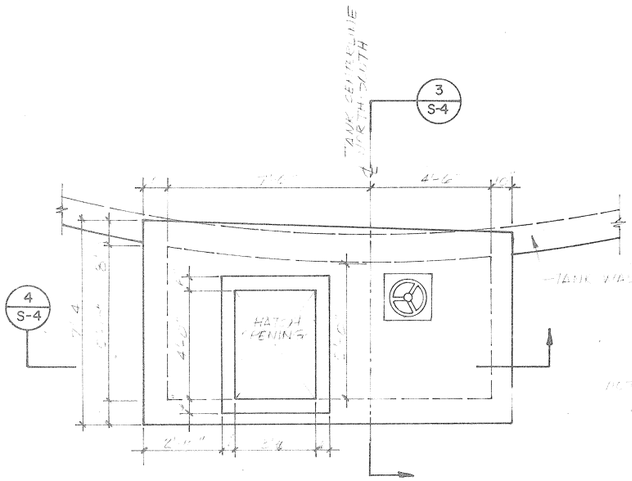
5330 SOUTH 900 EAST
SALT LAKE CITY, UTAH 84117
TELEPHONE (801) 262-2951

SALT LAKE COUNTY WATER CONSERVANCY DISTRICT
SOUTHEAST REGIONAL WATER TREATMENT PLANT
TERMINAL RESERVOIR
PROJECT/OWNER

ROOF SLAB REINFORCING PLAN
82C115A
SHEET TITLE

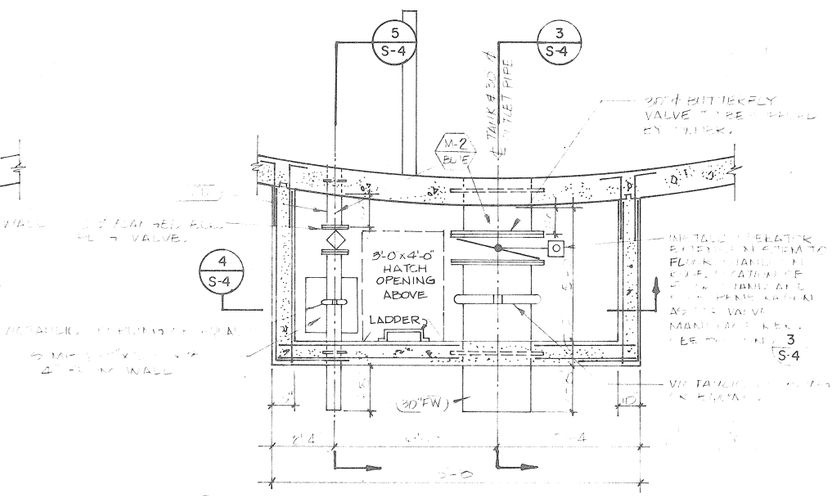
S-3

NORTH



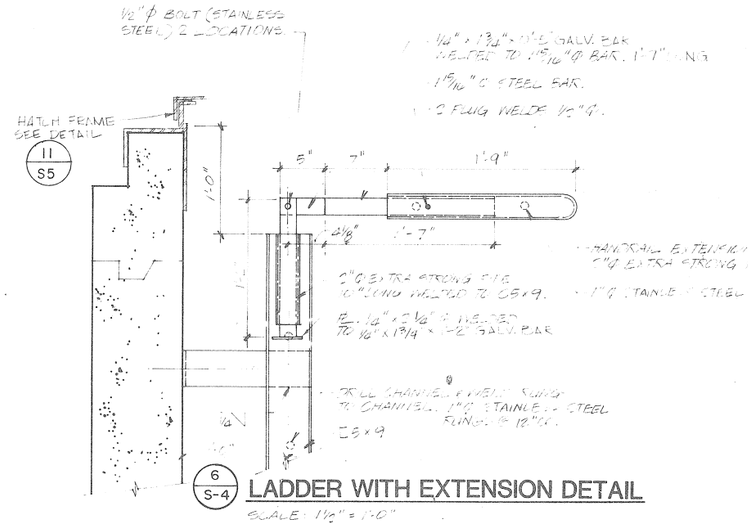
1 S-4 **VALVE BOX PLAN**

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



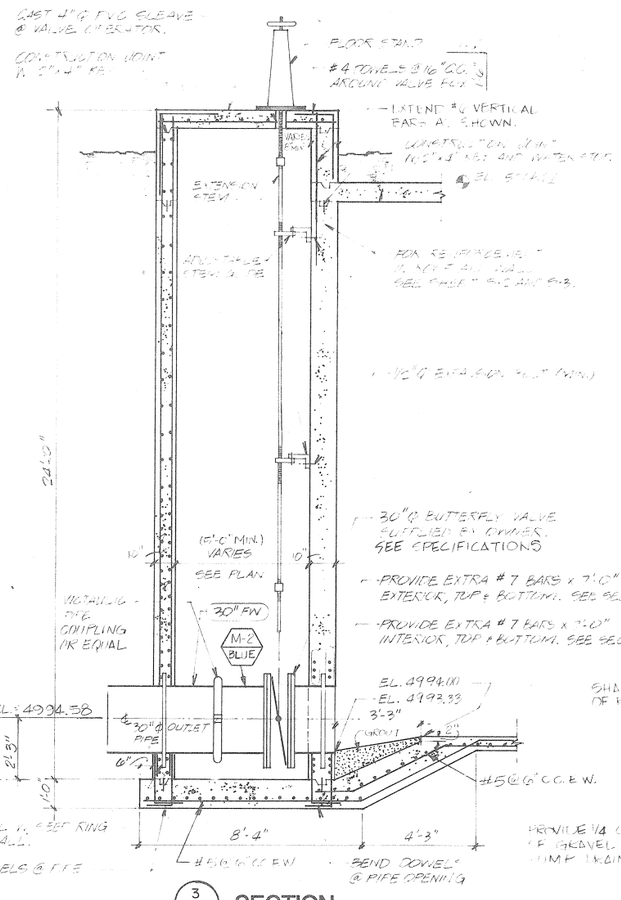
2 S-4 **VALVE BOX PLAN SECTION @ OUTLET PIPING**

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



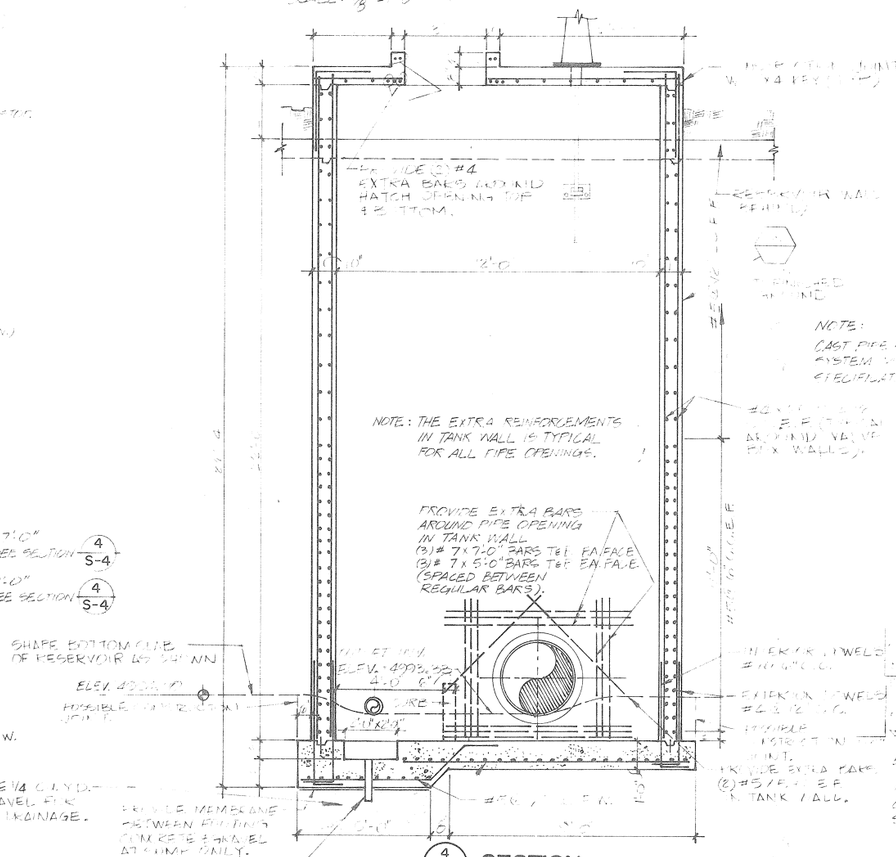
LADDER WITH EXTENSION DETAIL

SCALE: 1½"=1'-0"



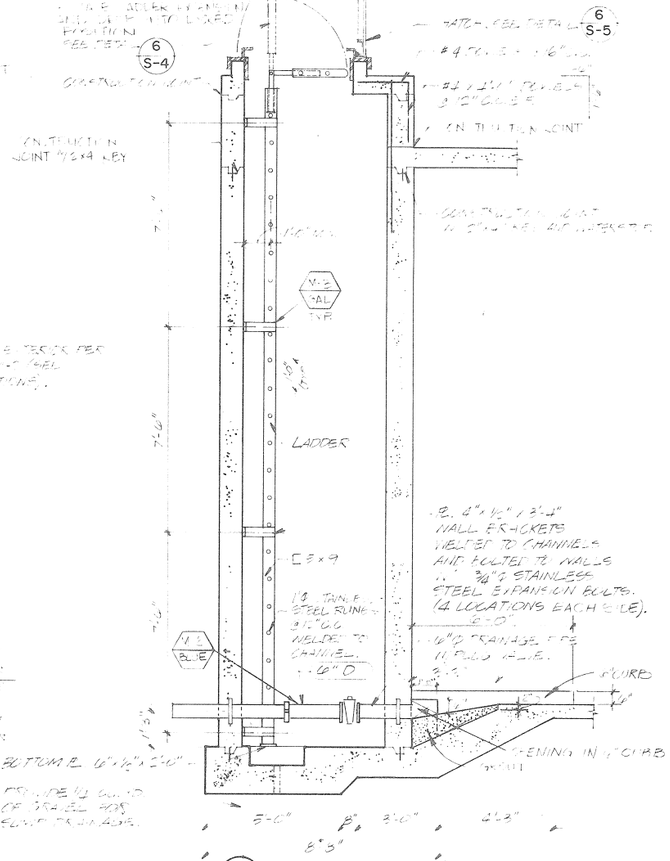
3 S-4 **SECTION**

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



4 S-4 **SECTION**

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



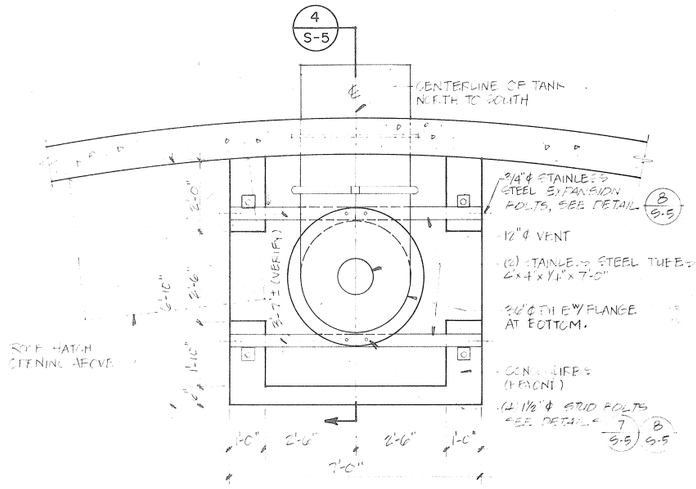
5 S-4 **SECTION**

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

AS BUILT

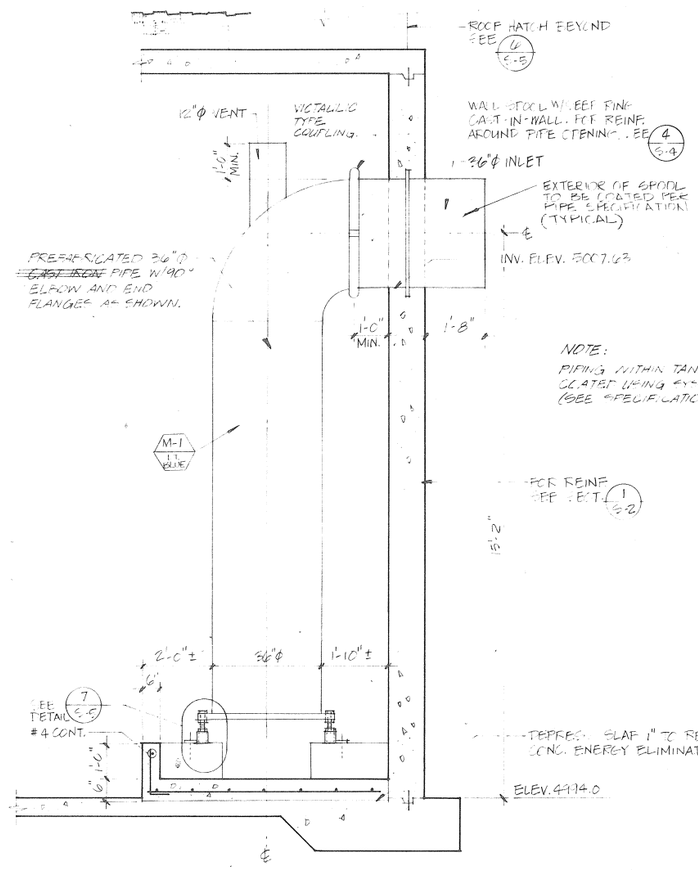
REGISTERED PROFESSIONAL ENGINEER
No. 4769
DEAN L. WEBB
State of Utah

1018-04-01 JOB NUMBER B. PAXMAN DRAWN BY DATE S.W.J. CHECKED BY DATE	S.W. REVISIONS 3/21/83 DATE	DMJM Coon, King and Knowlton PLANNING ARCHITECTURE ENGINEERING SURVEYING 5330 SOUTH 900 EAST SALT LAKE CITY, UTAH 84117 TELEPHONE (801) 262-2951
SALT LAKE COUNTY WATER CONSERVANCY DISTRICT SOUTHEAST REGIONAL WATER TREATMENT PLANT TERMINAL RESERVOIR PROJECT/OWNER	OUTLET PIPING & VALVE BOX DETAILS 82C115A SHEET TITLE	S-4



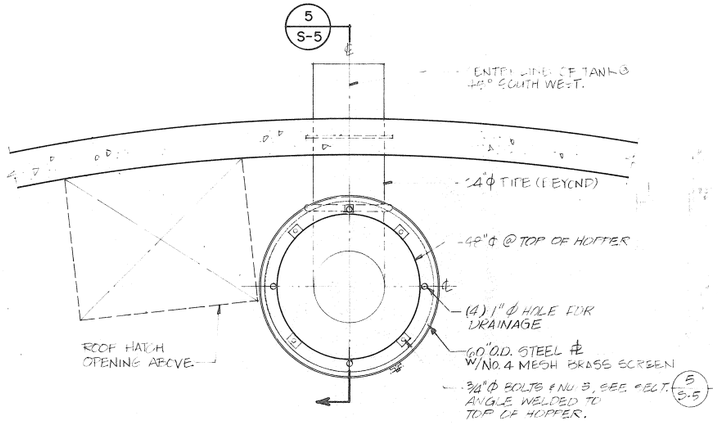
1 S-5 **PLAN SECTION @ INLET PIPE**

1/2" = 1'-0"



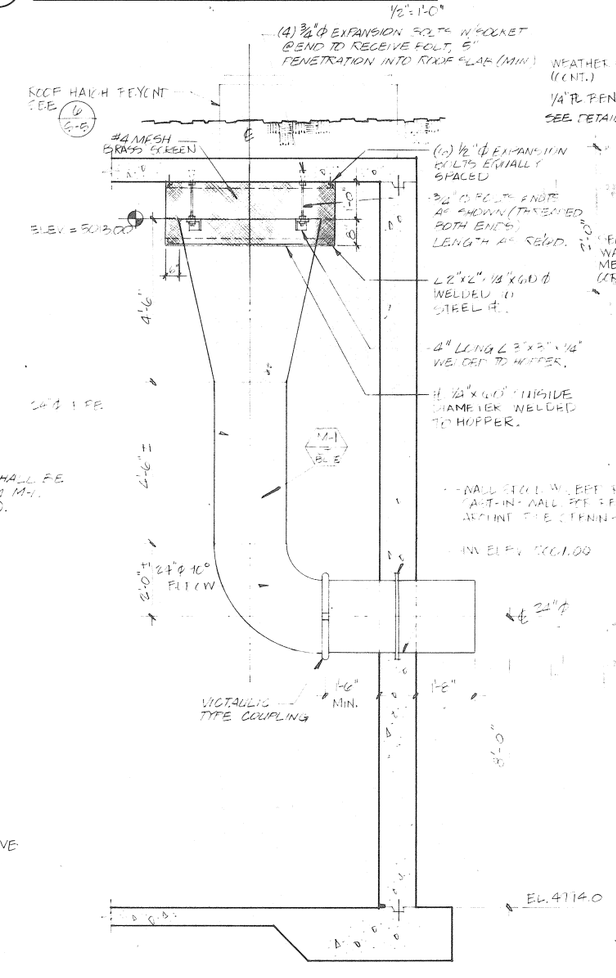
4 S-5 **INLET PIPE SECTION**

2" = 1'-0"



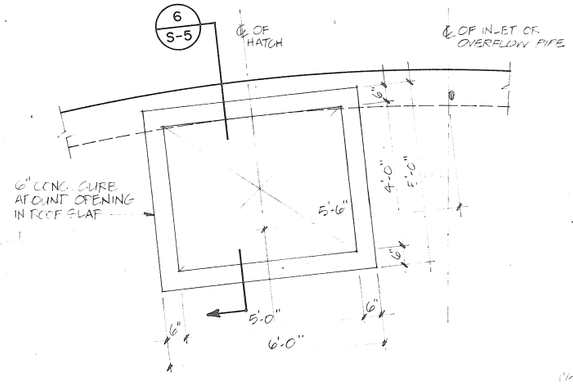
2 S-5 **PLAN SECTION @ OVERFLOW PIPE**

1/2" = 1'-0"



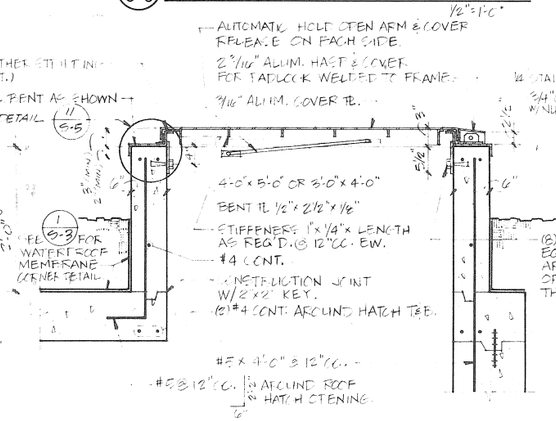
5 S-5 **OVERFLOW PIPE SECTION**

1/2" = 1'-0"

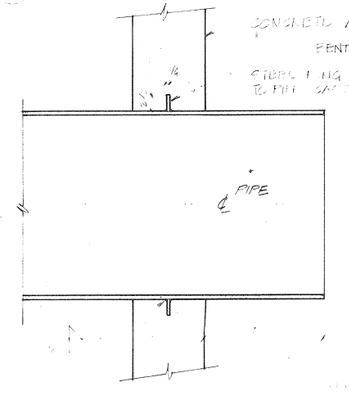


3 S-5 **ROOF HATCH LOCATION PLAN**

1/2" = 1'-0"

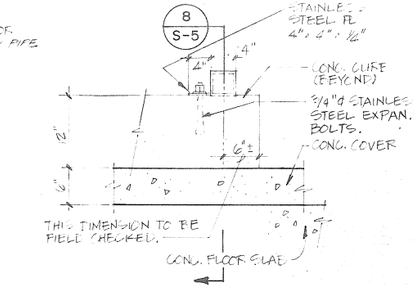


6 S-5 **ROOF HATCH SECTION**



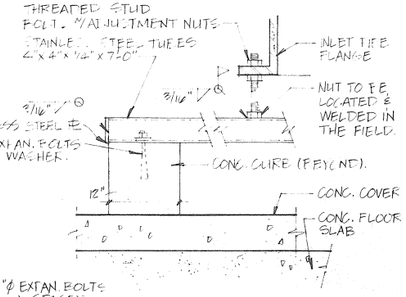
9 S-5 **SEEP RING DETAIL**

NOTE: PROVIDE 4-#7x7'-0" DIAGONALS IN EACH FACE OF THE WALL AT PIPE PENETRATIONS.



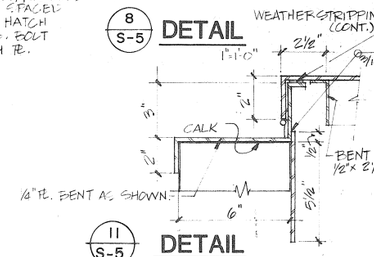
7 S-5 **DETAIL.**

1"=1'-0"



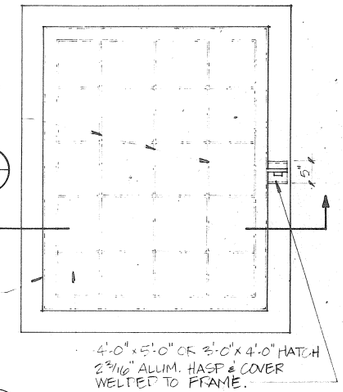
8 S-5 **DETAIL**

1"=1'-0"



11 S-5 **DETAIL**

3"=1'-0"



10 S-5 **ROOF HATCH COVER PL**

3/4" = 1'-0"

OR APPROVED EQUAL HATCH

AS BUILT

REGISTERED PROFESSIONAL ENGINEER No. 4769 DEAN L. WEBB State of Utah 3/7/03

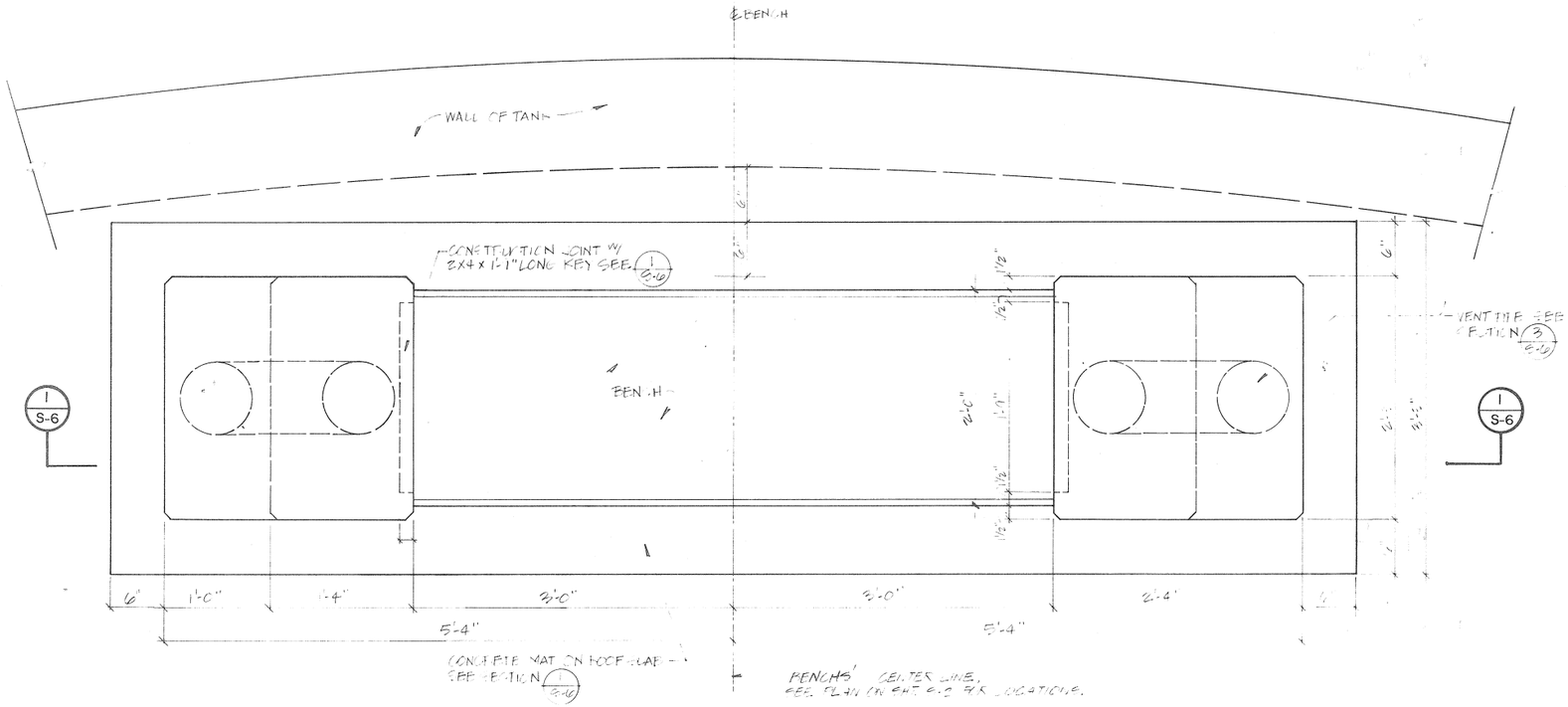
1618-04-01 JOB NUMBER	
L.MONTOYA TE DRAWN BY	DATE
CLW CHECKED BY	DATE
ADDED OR EQUAL HATCH REVISIONS	3/2/03 DATE

DMJM Coon, King and Knowlton
PLANNING
ARCHITECTURE
ENGINEERING
SURVEYING
5330 SOUTH 900 EAST
SALT LAKE CITY, UTAH 84117
TELEPHONE (801) 262-2951

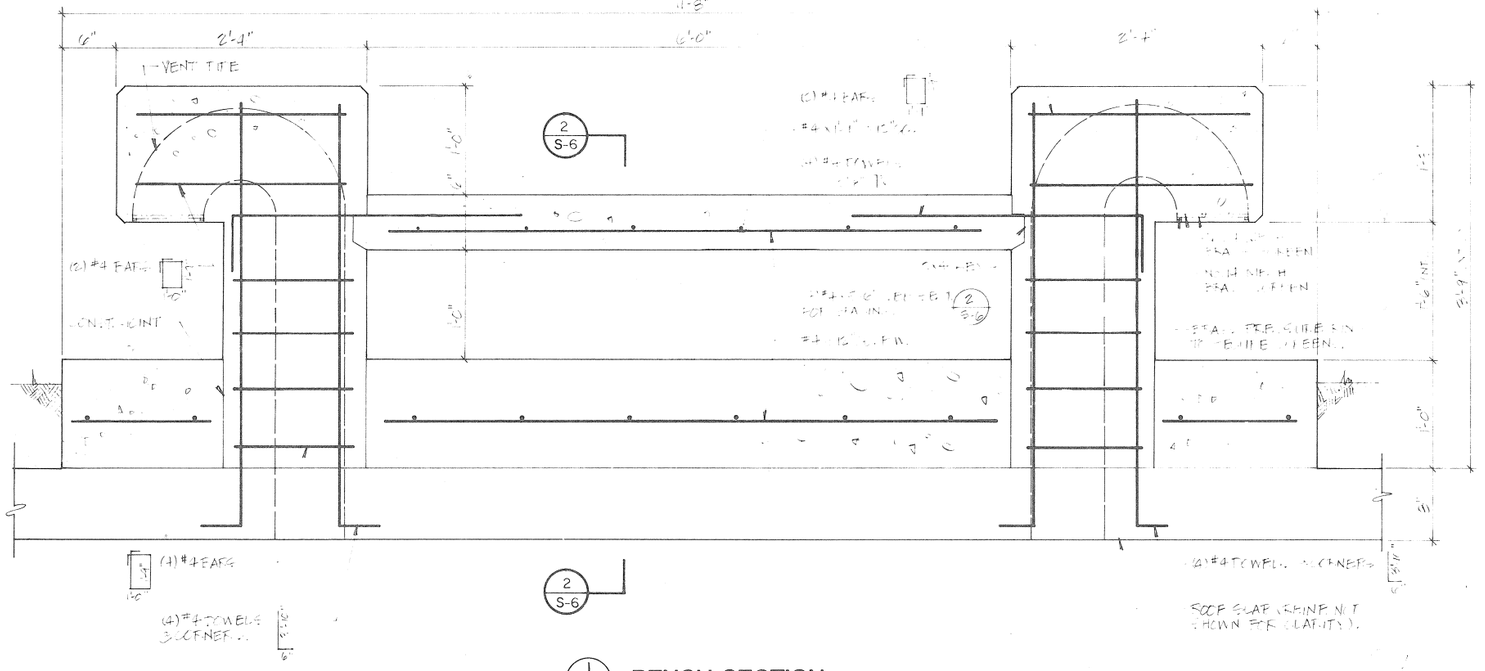
SALT LAKE COUNTY WATER CONSERVANCY DISTRICT
SOUTHEAST REGIONAL WATER TREATMENT PLANT
TERMINAL RESERVOIR
PROJECT/OWNER

INLET AND OVERFLOW PIPING, MISCELLANEOUS DETAILS
SHEET TITLE
82C115A

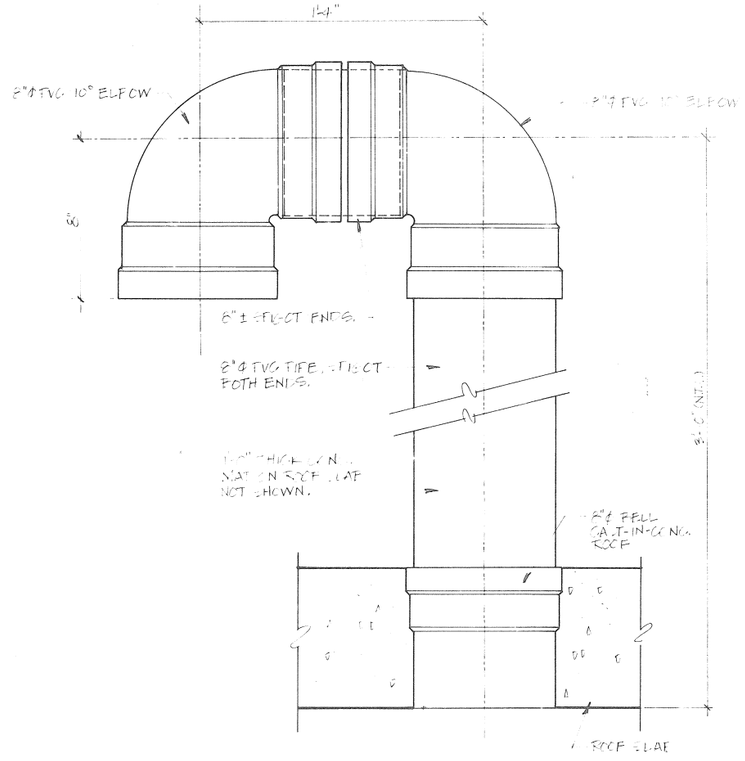
S-5



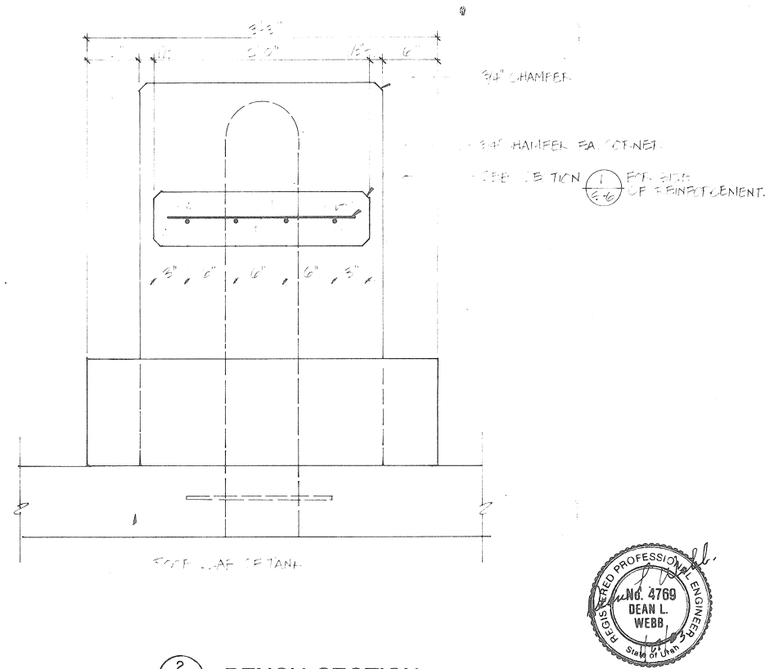
BENCH VENT PLAN



1/S-6 BENCH SECTION



3/S-6 VENT PIPE DETAIL



2/S-6 BENCH SECTION

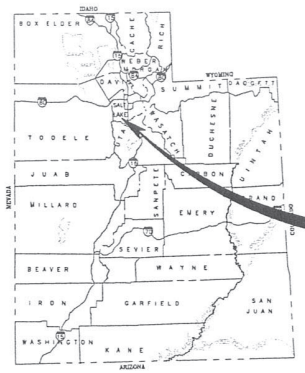
AS BUILT

5-21-83 JOB NUMBER	DMJM Coon, King and Knowlton	SALT LAKE COUNTY WATER CONSERVANCY DISTRICT SOUTHEAST REGIONAL WATER TREATMENT PLANT TERMINAL RESERVOIR
DRAWN BY DATE DLW 5/83	PLANNING ARCHITECTURE ENGINEERING SURVEYING	BENCH VENT DETAILS
CHECKED BY DATE	5330 SOUTH 900 EAST SALT LAKE CITY, UTAH 84117 TELEPHONE (801) 262-2951	S-6
DLW 5/21/83 REVISIONS DATE	PROJECT/OWNER	SHEET TITLE 82CIISA

SELECTED SERWTP 3 MG RESERVOIR AND VALVE VAULT RECORD DRAWINGS 2003

Draper Irrigation Co.

7 & 3 MG RESERVOIRS



PROJECT LOCATION

PROJECT LOCATION MAP

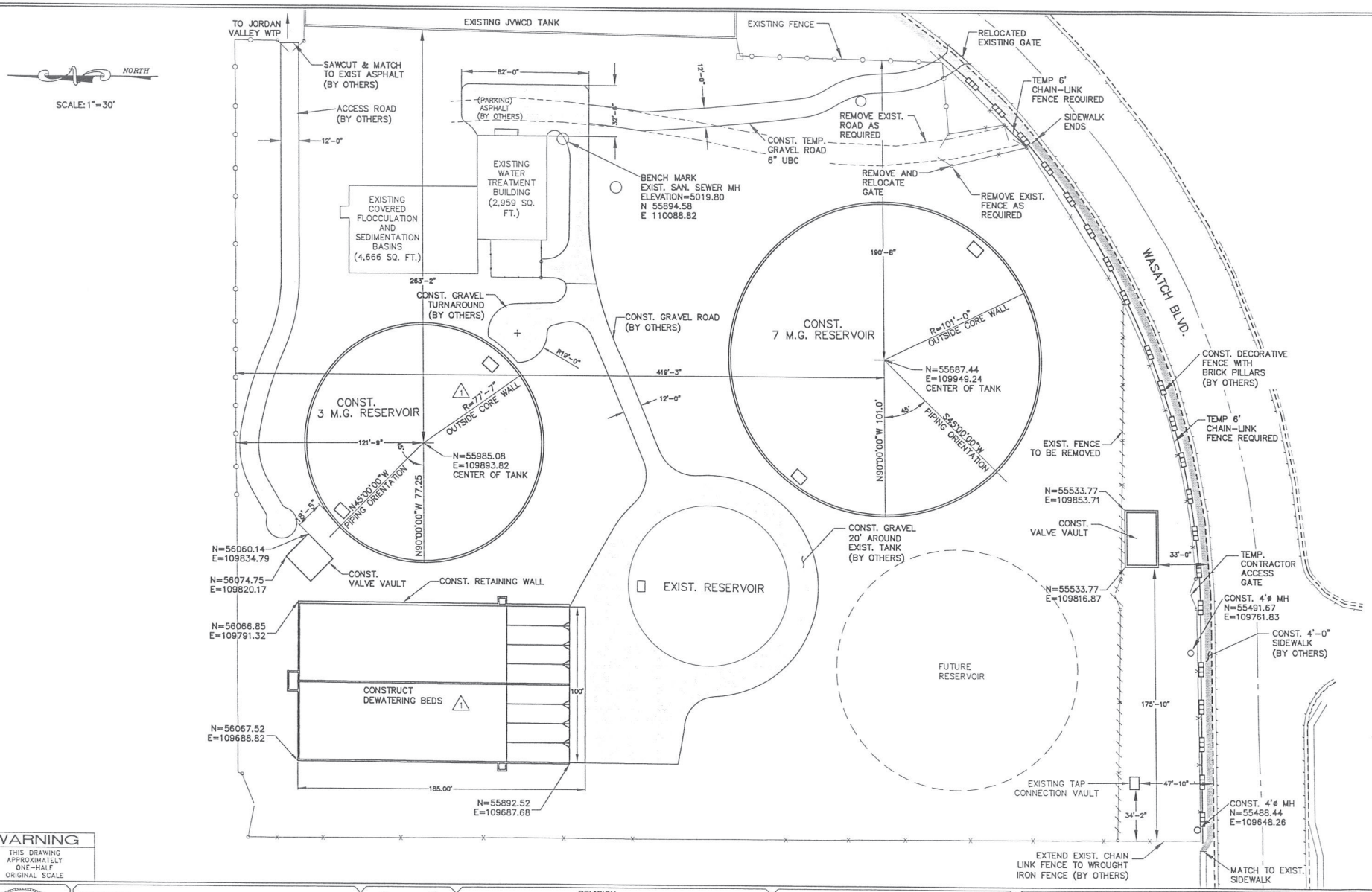
DRAWING INDEX 3 MG RESERVOIR (JORDAN VALLEY WATER CONSERVANCY DISTRICT)		
SHEET #	TITLE	
1	COVER SHEET	
2	COORDINATE CONTROL AND ACCESS ROAD	11800 SOUTH
7	CUT SLOPE SITE PLAN	12300 SOUTH
8	FILL SLOPE SITE PLAN	
16	ELECTRICAL SITE PLAN	
30	3 MG SITE PIPING PLAN	
31	3 MG PIPE PROFILES	
32	3 MG PIPE PROFILES & DRAIN BOX	
33	3 MG TAP CONNECTION DETAIL	
34	3 MG VALVE VAULT ROOF PLAN	
35	3 MG VALVE VAULT BASEMENT FLOOR PLAN	
36	3 MG VALVE VAULT ELEVATIONS	
37	3 MG VALVE VAULT BUILDING SECTIONS	
38	3 MG CONCRETE REINFORCING	
39	3 MG VALVE VAULT ELECTRICAL PLAN	
40	3 MG ELECTRICAL DETAILS	
41	3 MG SECTIONS	
42	3 MG RESERVOIR FLOOR PLAN	
43	3 MG RESERVOIR CROSS SECTION	
44	3 MG RESERVOIR PRESTRESSED WALL	
45	3 MG RESERVOIR SEISMIC & WRAPPING CABLE DETAILS	13800 SOUTH
46	3 MG RESERVOIR HORIZONTAL PRESTRESSED WALL	
47	3 MG RESERVOIR CONVENTIONAL WALL	
48	3 MG RESERVOIR COLUMNS	
49	3 MG RESERVOIR ROOF PLAN	
50	3 MG RESERVOIR ROOF REINFORCEMENT	
51	3 MG RESERVOIR PIPING	
52	3 MG RESERVOIR PIPING	
53	3 MG RESERVOIR LADDER & PLATFORM DETAILS	



PROJECT VICINITY MAP

DRAWING INDEX 7 MG RESERVOIR (DRAPER IRRIGATION COMPANY)	
SHEET #	TITLE
1	COVER SHEET
2	COORDINATE CONTROL AND ACCESS ROAD
3	SITE PIPING PLAN
4	1 MG RESERVOIR MODIFICATION PLAN
5	24" SUPPLY & DRAIN PLAN & PROFILE
6	SITE PIPING SECTIONS
7	CUT SLOPE SITE PLAN
8	FILL SLOPE SITE PLAN
9	VALVE VAULT ROOF PLAN
10	VALVE VAULT BASEMENT FLOOR PLAN
11	VALVE VAULT BUILDING SECTIONS
12	VALVE VAULT PIPE SECTIONS
13	VALVE VAULT ELEVATIONS
14	VALVE VAULT CONCRETE REINFORCEMENT
15	VALVE VAULT REINFORCEMENT AT WALL OPENINGS
16	ELECTRICAL SITE PLAN
17	VALVE VAULT ELECTRICAL PLAN
18	VALVE VAULT ELECTRICAL DETAILS
19	7 MG RESERVOIR CROSS SECTIONS
20	7 MG RESERVOIR FLOOR PLAN
21	7 MG RESERVOIR CROSS SECTION
22	7 MG RESERVOIR PRESTRESSED WALL
23	7 MG RESERVOIR SEISMIC & WRAPPING CABLE DETAILS
24	7 MG RESERVOIR COLUMNS
25	7 MG RESERVOIR ROOF PLAN
26	7 MG RESERVOIR ROOF REINFORCEMENT
27	7 MG RESERVOIR ROOF REINFORCEMENT
28	7 MG RESERVOIR PIPING
29	7 MG RESERVOIR LADDER & PLATFORM DETAILS
	TYPICAL DETAILS
54	TYPICAL DETAILS
55	TYPICAL DETAILS
56	TYPICAL DETAILS
57	TYPICAL DETAILS
58	TYPICAL DETAILS
59	TYPICAL DETAILS

N:\PROJ\9802-DRAPER-IRR\117-SITE\dwg\=SHEETS\COVER.dwg 03/14/02 09:00:20 AM MST



WARNING
THIS DRAWING APPROXIMATELY ONE-HALF ORIGINAL SCALE

REGISTERED PROFESSIONAL ENGINEER
NO.169278
DON I. OLSEN
STATE OF UTAH

Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D SALT LAKE CITY, UTAH 84118 (801) 955-5605
175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-5600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	ASBUILT

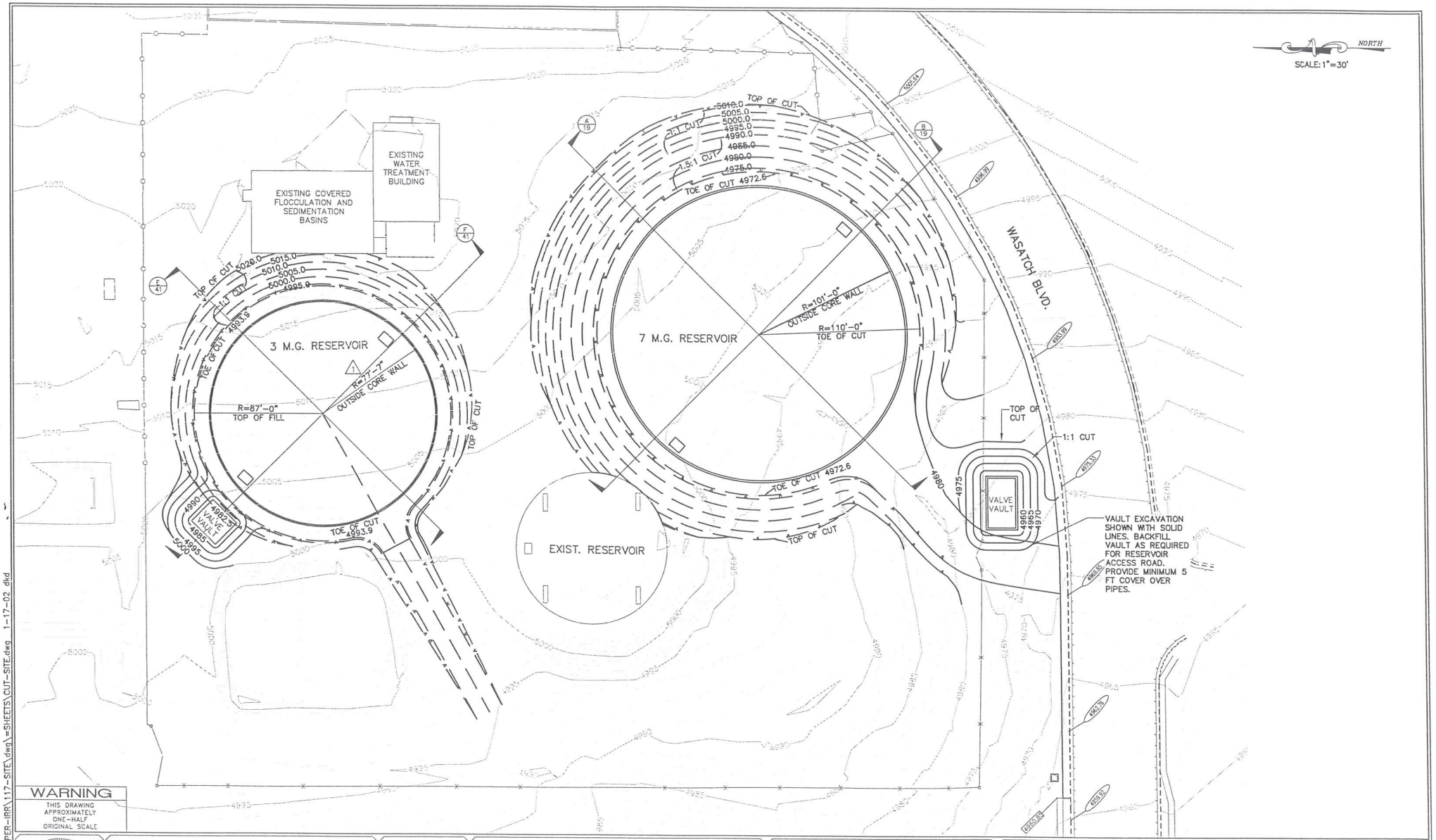
Draper Irrigation
12421 SOUTH 800 EAST
DRAPER, UT 84020
(801) 571-2232

COORDINATE CONTROL AND ACCESS ROAD
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 2 OF 59

N:\PROJ\9802-DRAPER-IRR\148-7MG & 3 MG Tanks\dwg\=SHEETS-ASBUILTS\02-COORD-new.dwg 11/13/03 10:33:26 AM MST



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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION

NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	ASBUILT

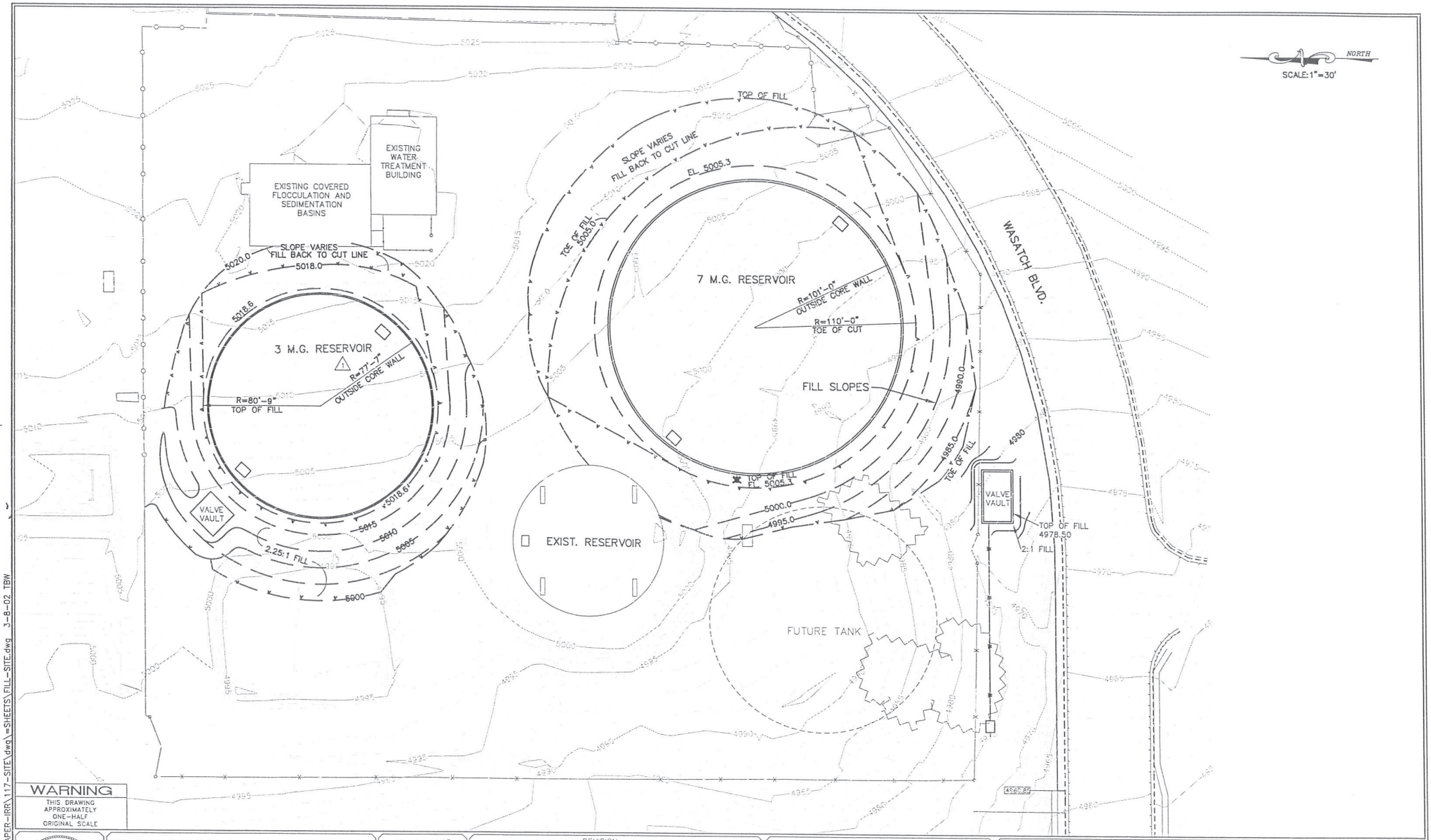
Draper Irrigation
12421 SOUTH 800 EAST
DRAPER, UT 84020
(801) 571-2232

CUT SLOPE SITE PLAN
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 7 OF 59

N:\PROJ\9802-DRAPER-IRR\117-SITE\dwg\=SHEETS\CUT-SITE.dwg 1-17-02 dkd



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E2 Epic Engineering, P.C.
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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO.	DATE	REV. BY	ISSUE
1	11/13/03	TJW	ASBUILT

Draper Irrigation
12421 SOUTH 800 EAST
DRAPER, UT 84020
(801) 571-2232

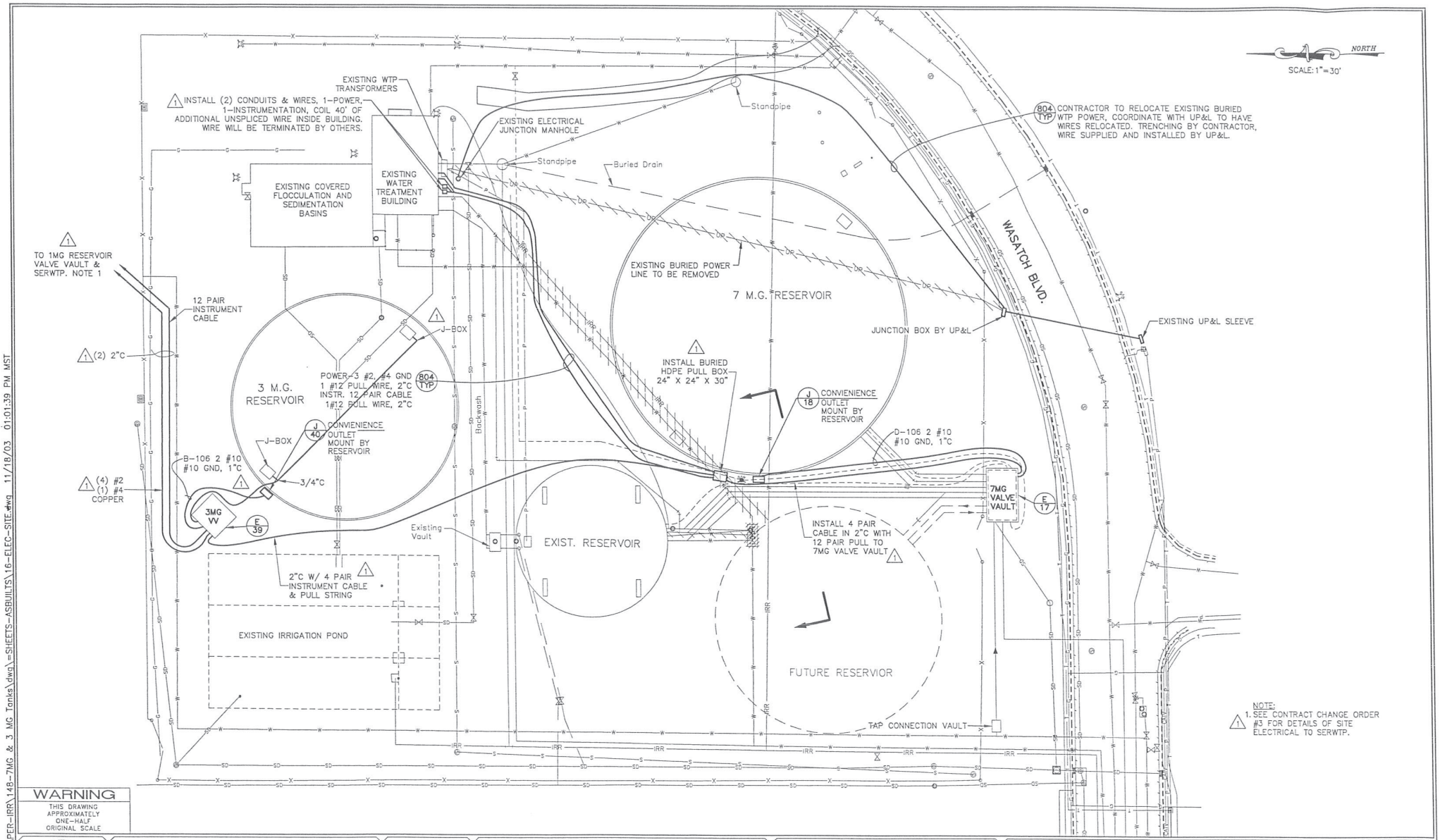
FILL SLOPE SITE PLAN

7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 8 OF 59

N:\PROJ\9802-DRAPER-IRR\117-SITE\dwg\=SHEETS\FILL-SITE.dwg 3-8-02 TBW



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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	AS-BUILT

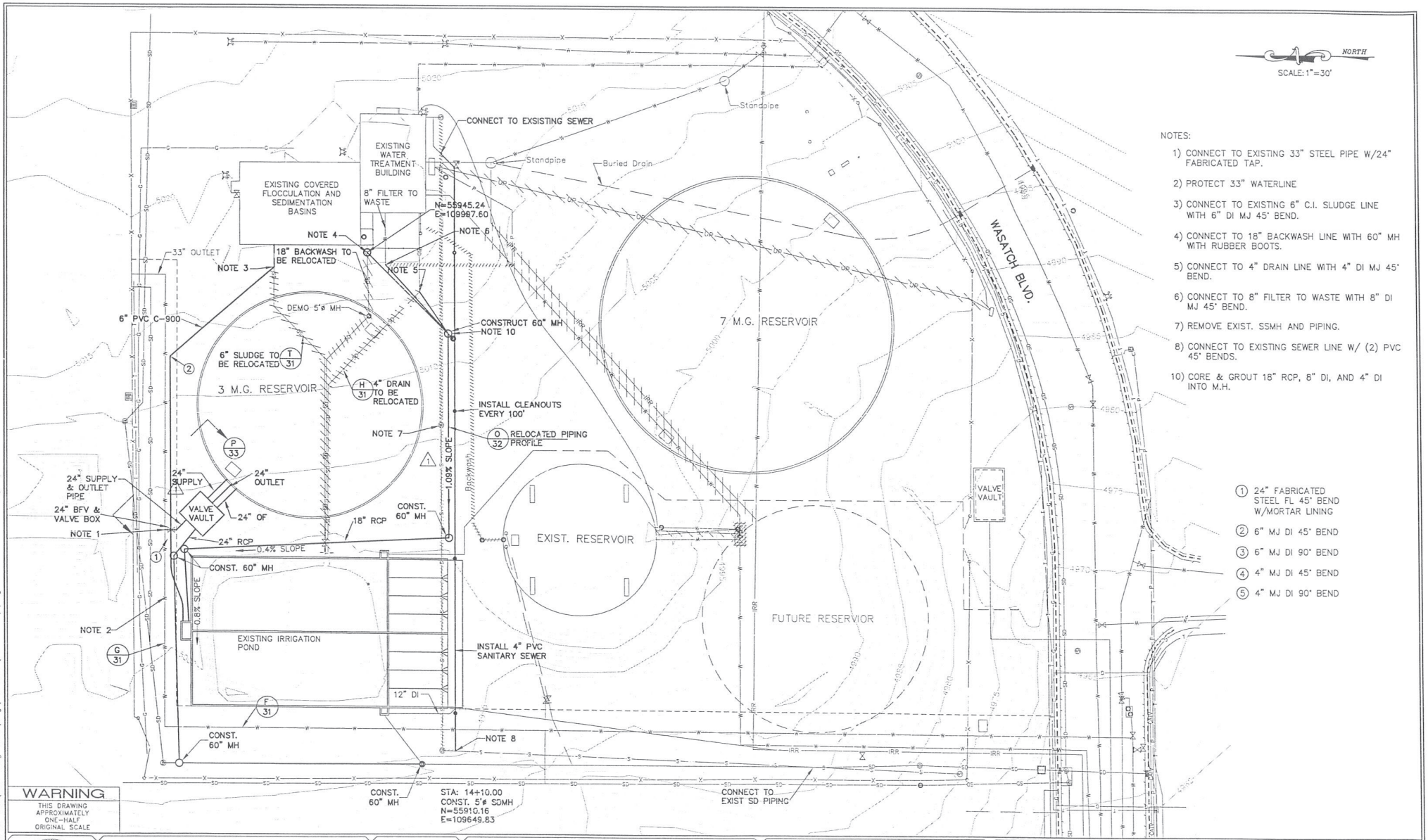
Draper Irrigation
12421 SOUTH 800 EAST
DRAPER, UT 84020
(801) 571-2232

ELECTRICAL SITE PLAN
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	CLP
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 16 OF 59

N:\PROJ\9802-DRAPER-IRR\148-7MG & 3 MG Tanks\dwg\-SHEETS-ASBUILTS\16-ELEC-SITE.dwg 11/18/03 01:01:39 PM MST



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DON I. OLSEN
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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	AS-BUILT

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

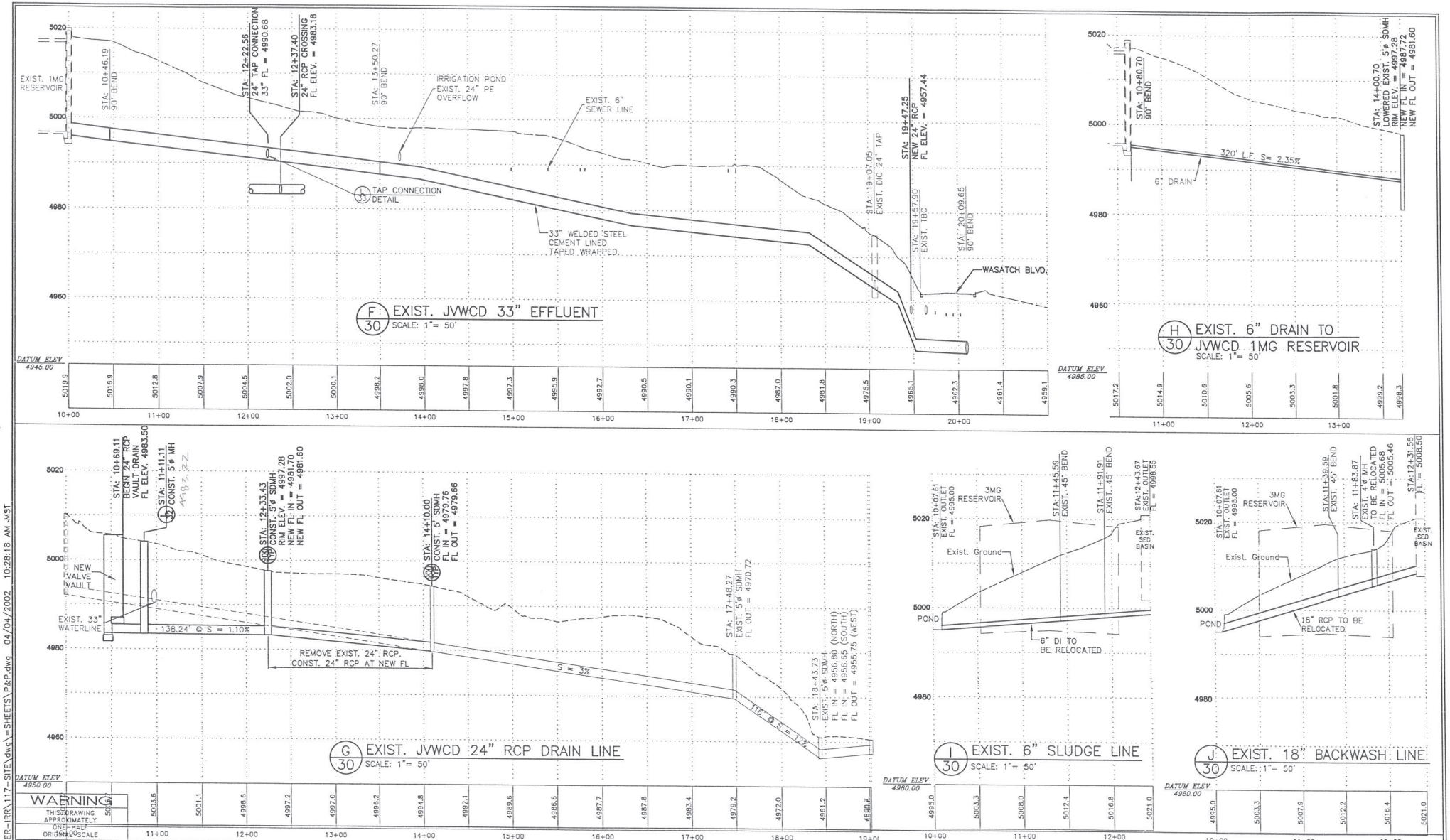
3 MG SITE PIPING PLAN

7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 30 OF 59

N:\PROJ\9802-DRAPER-IRR\117-3mg-tank\dwg\=SHEETS\3MG-site-piping 5-28-2003.DWG -05/28/03 09:53:46 AM MDT



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Epic Engineering, P.C.
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SALT LAKE CITY, UTAH 84118
(801) 955-5605
175 NORTH MAIN, STE 104
HEBER CITY, UTAH 84032
(435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

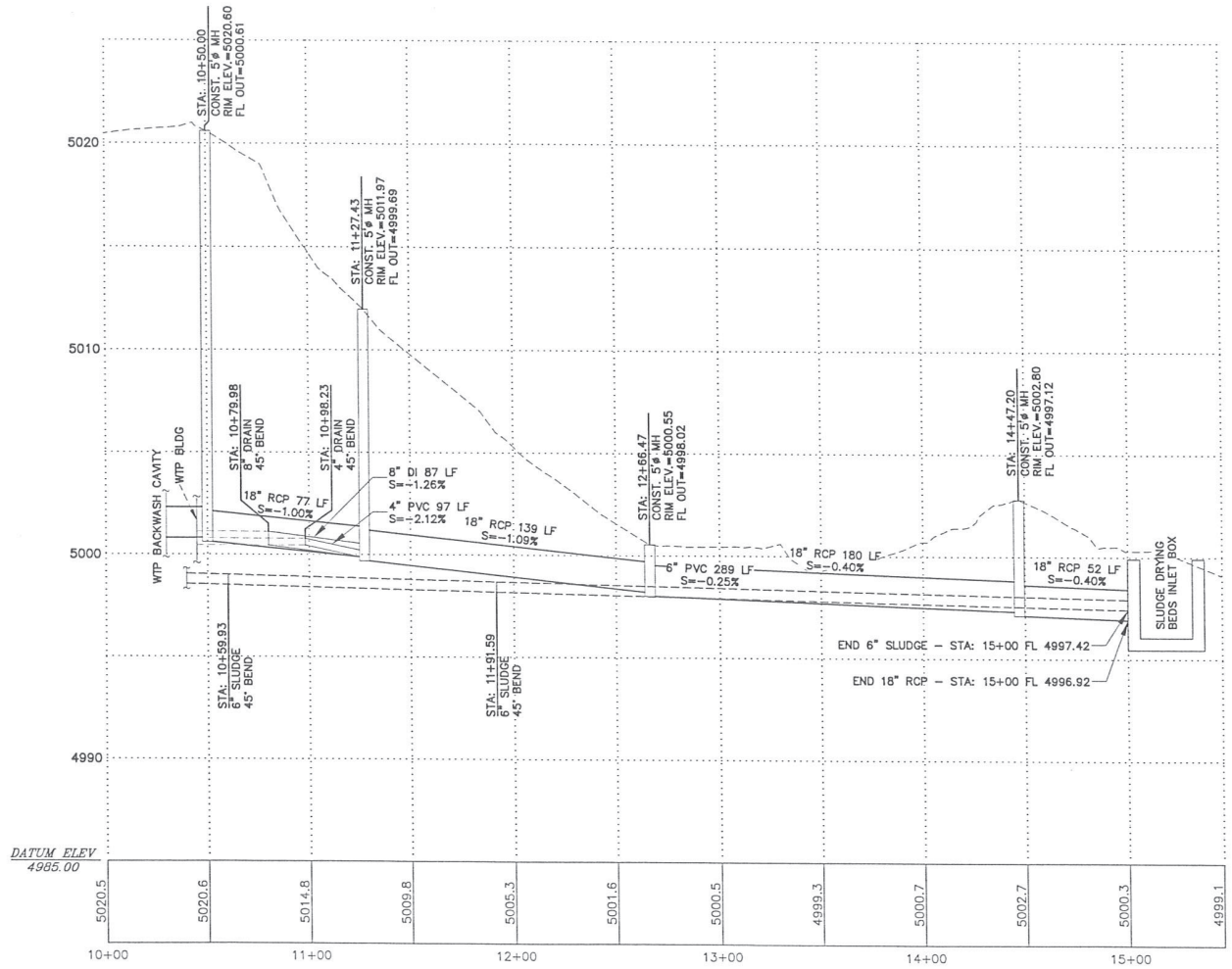
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3 MG PIPE PROFILES
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 31 OF 59

N:\PROJ\9802-DRAPER-IRR\117-SITE\dwg\=SHEETS\P&P.dwg 04/04/2002 10:28:18 AM MST



0/30 RELOCATED PIPING PROFILE
SCALE: 1/2" = 1'

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Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D SALT LAKE CITY, UTAH 84118 (801) 955-5605
175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	1/14/04	TJW	AS-BUILT

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

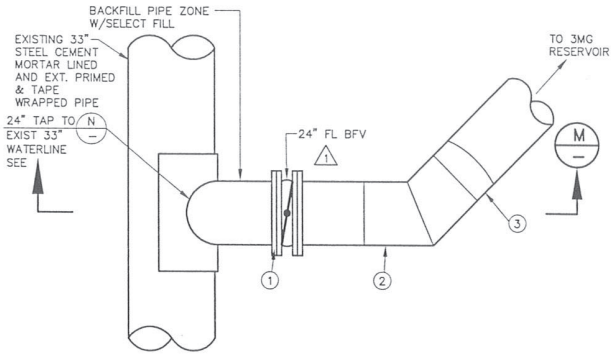
3MG PIPING PLAN

7 & 3 MG RESERVOIRS

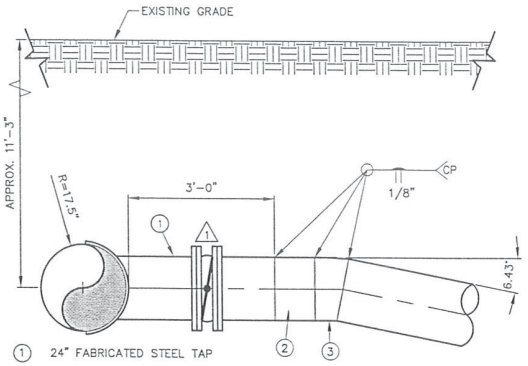
DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 32 OF 59

N:\PROJ\9802-DRAPER-IRR\117-3mg-tank\dwg\=SHEETS\3MG-PROFILE PIPING BASE.DWG, 04/08/2002 04:00:26 AM MDT

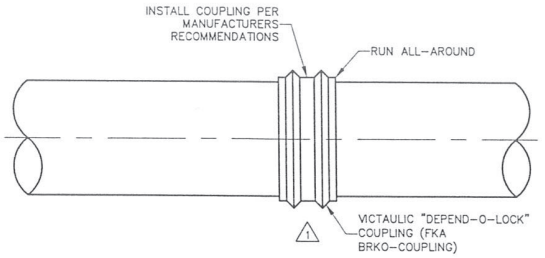


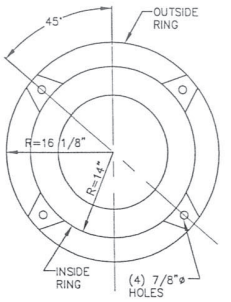
L TAP CONNECTION PLAN VIEW
SCALE 1/2" = 1' - 0"



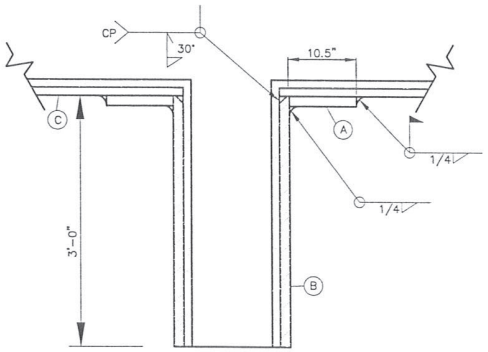
1 24" FABRICATED STEEL TAP
2 24" FABRICATED 45° BEND
3 24" PIPE MITER

M SECTION
SCALE 1/2" = 1' - 0"





Q 24" DEPEND-O-LOCK FLEXIBLE COUPLING
SCALE NTS

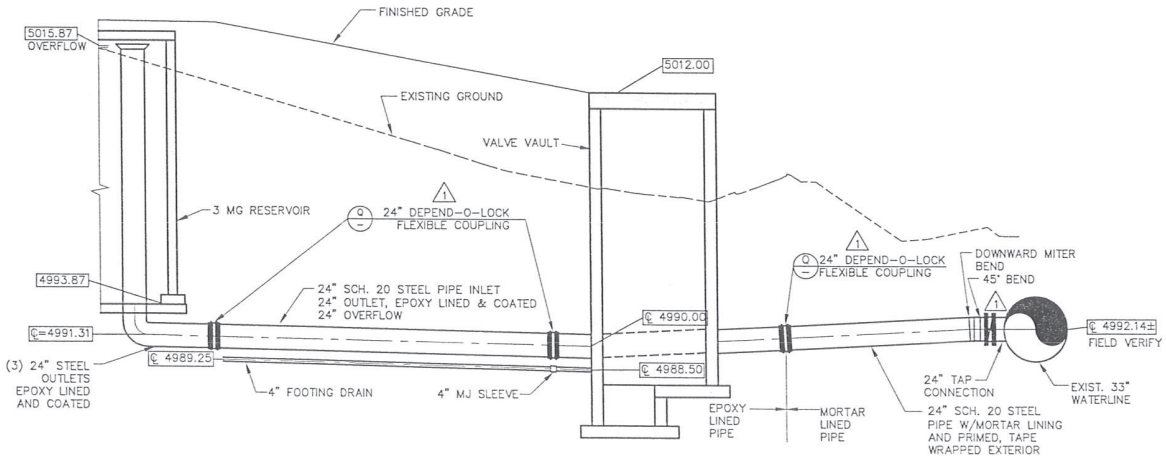


A. FIELD VERIFICATION REQ'D COLLAR APPROXIMATELY 17.5" ROLLED RADIUS A36 STEEL, 1/4 INCH THICK.

B. 24 INCH O.D. TAPE WRAPPED AND CEMENT MORTAR LINED PIPELINE THIMBLE, 1/4 INCH THICK, ACCORDING TO AWWA C208.

C. EXISTING 33 INCH TAPE WRAPPED AND CEMENT MORTAR LINED PIPELINE. (I.D.=33", O.D.=35" APPROXIMATELY) (FIELD VERIFY O.D. OF PIPE)

N WELDING DETAIL
N.T.S.



P 24" INLET PROFILE
SCALE NTS

NOTES

1. EXISTING TAPE WRAP SHALL BE CAREFULLY CUT AND NEATLY REMOVED 12 INCHES BEYOND THE EDGE OF THE COLLAR.
2. THE STEEL REINFORCING COLLAR SHALL BE MADE FROM A36 STEEL. THE COLLAR SHALL BE CIRCULAR, AND EXTEND 10.5 INCHES AROUND ALL SIDES OF THE 24 INCH PIPE THIMBLE.
3. THE INSIDE OF THE 24 INCH PIPE THIMBLE SHALL BE LINED WITH CEMENT MORTAR 5/16 INCH THICK IN ACCORDANCE WITH AWWA C205. ANY DAMAGE TO THE MORTAR LINING OF THE 33 INCH WATER LINE WILL BE REPAIRED WITH CEMENT MORTAR MATCHING THE THICKNESS OF THE EXISTING MORTAR LINING. USE THORITE QUICK SETTING MORTAR OR EQUAL. APPLY IN ACCORDANCE WITH AWWA C602.
4. CONTRACTOR TO REMOVE ONLY ENOUGH MATERIAL TO MAKE TAP CONNECTION TO EXISTING WATERLINE.
5. PREPARE THE EXPOSED METAL OF THE 33 INCH LINE AND THE PIPE THIMBLE FOR PRIMING AND TAPE WRAPPING IN ACCORDANCE WITH AWWA C209. GRIND WELDING SLAG AND CLEAN BARE METAL SURFACES WITH AN APPROVED SOLVENT AND/OR WIRE BRUSHING. BARE SURFACES SHALL BE FREE OF ANY FOREIGN MATERIAL.
6. PRIME SURFACES TO BE WRAPPED WITH POLYKEN 1027 PRIMER. APPLY PRIMER AT LEAST 3 INCHES BEYOND THE EDGE OF THE EXISTING WRAP.
7. APPLY TWO LAYERS OF POLYKEN 934-35 TAPE WRAP. THE TOTAL THICKNESS OF THE TAPE WRAP SHALL BE AT LEAST 70 MILS. TAPE WRAP THE 12 INCH PIPE THIMBLE UP TO THE FLANGE. USE POLYKEN ADHESIVE FILLER TAPE 931 BENEATH THE 934 TAPE WHERE THE 12 INCH PIPE JOINS THE 33 INCH PIPE TO PROVIDE A SMOOTH TRANSITION. FOLLOW MANUFACTURE'S APPLICATION PROCEDURES AND AWWA C209.

WARNING
THIS DRAWING APPROXIMATELY ONE-HALF ORIGINAL SCALE

REGISTERED PROFESSIONAL ENGINEER
NO. 169278
DON I. OLSEN
STATE OF UTAH

Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D SALT LAKE CITY, UTAH 84118 (801) 955-5605
175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	AS-BUILT

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

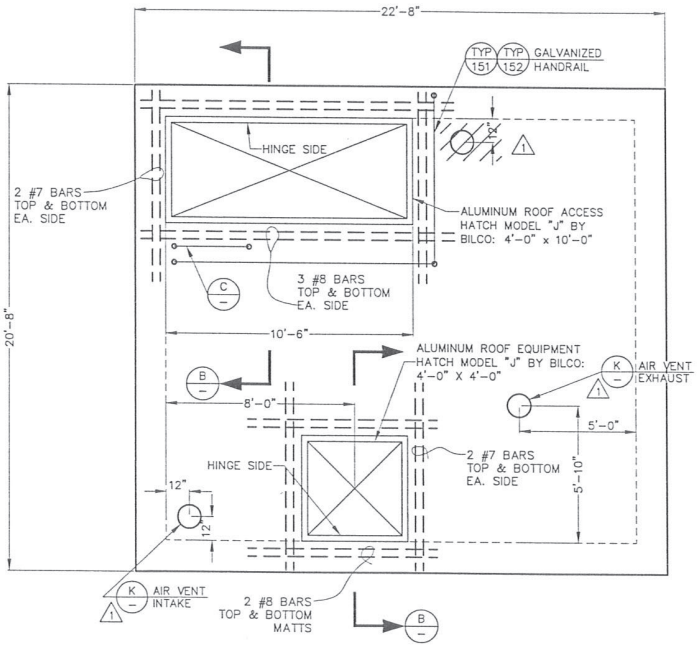
3 MG TAP CONNECTION DETAILS

7 & 3 MG RESERVOIRS

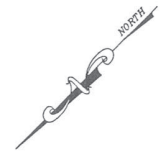
DESIGNER	CAD
DIO	TBW
REVIEWED	PROJECT NO.
DIO	9802-117

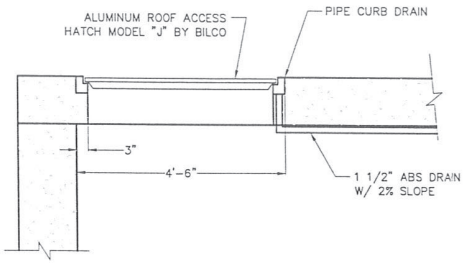
SHEET 33 OF 59

N:\PROJ\9802-DRAPER-IRR\148-7MG & 3 MG Tanks\dwg\-SHEETS-ASBUILTS\33-TAP_CONNECT.DWG 11/19/03 10:40:38 AM MST



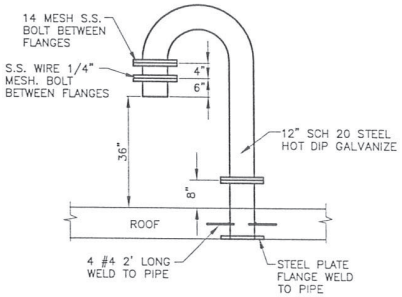
A ROOF LAYOUT
SCALE: 3/8" = 1'-0"



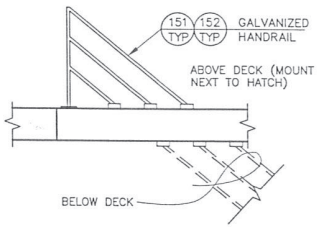


NOTE: REBAR NOT SHOWN.

B ACCESS HATCH DETAIL
SCALE: 3/4" = 1'-0"



K AIR VENT
SCALE: NTS



C HANDRAIL DETAIL
NTS

WARNING
THIS DRAWING APPROXIMATELY ONE-HALF ORIGINAL SCALE

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NO. 169278
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STATE OF UTAH

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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
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1	11/13/03	TJW	AS-BUILT

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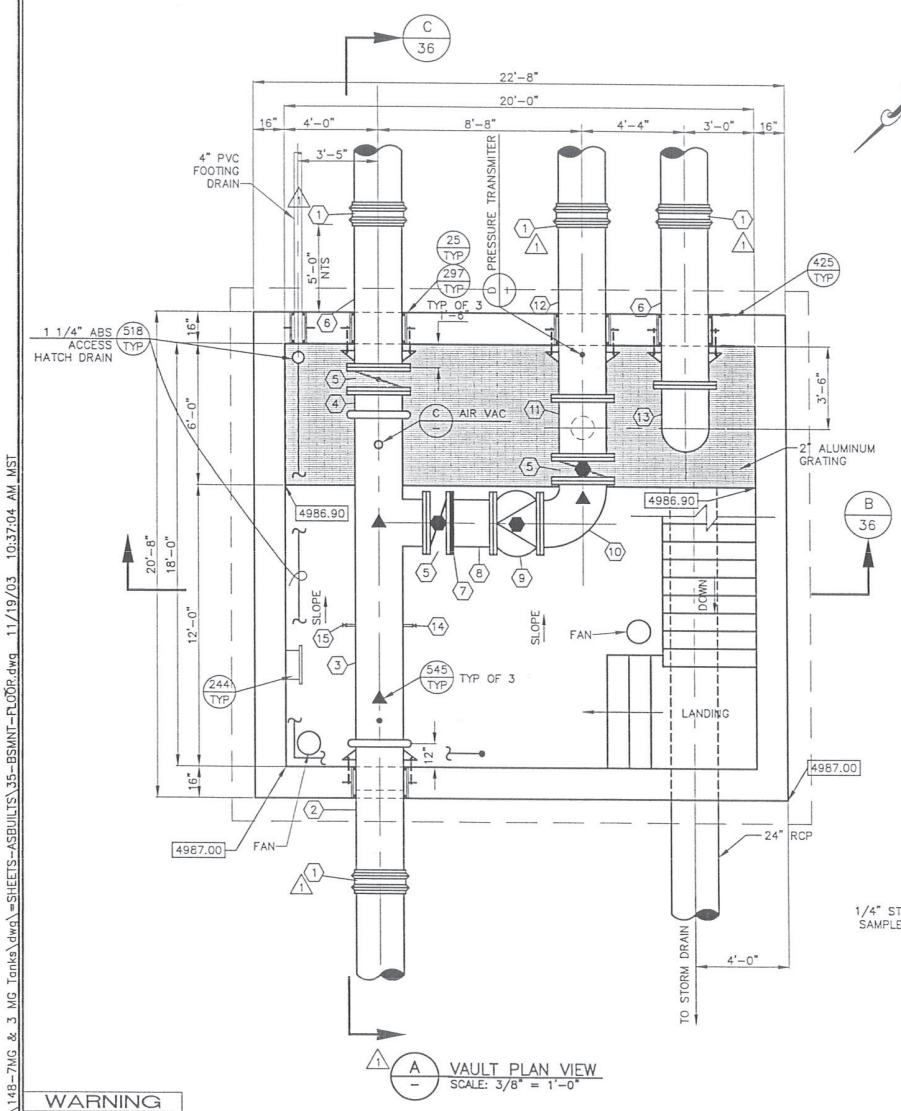
3 MG VALVE VAULT
ROOF PLAN

7 & 3 MG RESERVOIRS

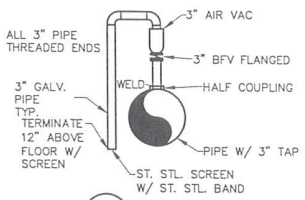
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

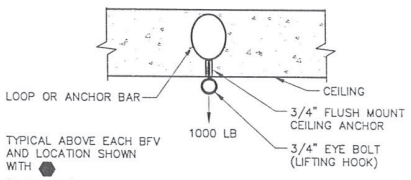
SHEET 34 OF 59

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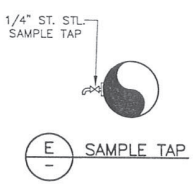


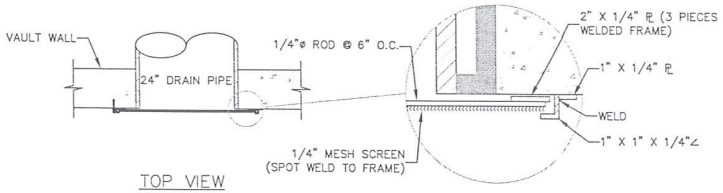


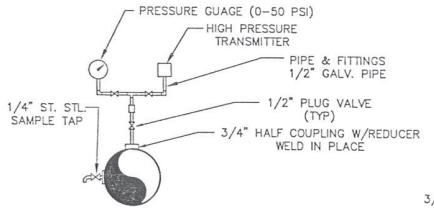


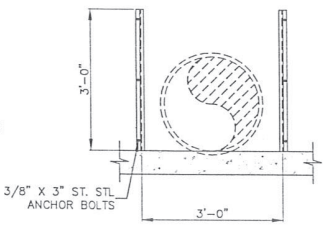


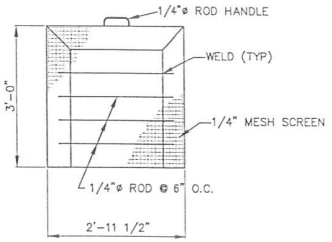
EQUIPMENT SCHEDULE	
MARK	EQUIPMENT
1	24" DEPEND-O-LOCK COUPLING
2	24" GROOVED X PLAIN END PIPE X 6'-0" LONG W/THRUST RESTRAINT
3	24" FABRICATED HEADER W/3" TAP & 3/4" TAP
4	24" FL X GROOVED END PIPE X 12" LONG
5	24" FL BFV
6	24" FL X PE PIPE W/THRUST RESTRAINT
7	24" GROOVED FL ADAPTOR
8	24" FL X GROOVED END PIPE
9	24" FL SILENT DISC CHECK VALVE
10	24" FL 90° BEND
11	24" X 24" X 12" FL TEE
12	24" FL X PE PIPE W/THRUST RESTRAINT & 3/4" TAPS
13	24" FL X PE 90°
14	3/4" HALF COUPLING W/1/4" ST. STL. NO THREAD SAMPLE TAP
15	3/4" HOSE BIB W/30' OF HEAVY DUTY HOSE











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STATE OF UTAH

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2880 WEST 4700 SOUTH, STE D SALT LAKE CITY, UTAH 84118 (801) 955-5605
175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	ASBUILT

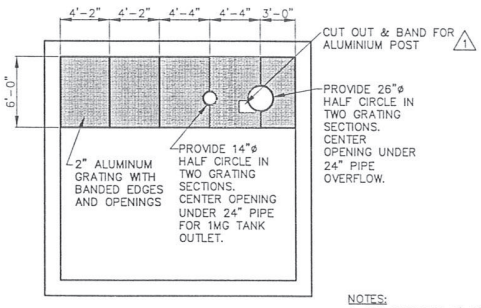
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3 MG VALVE VAULT
BASEMENT FLOOR PLAN
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

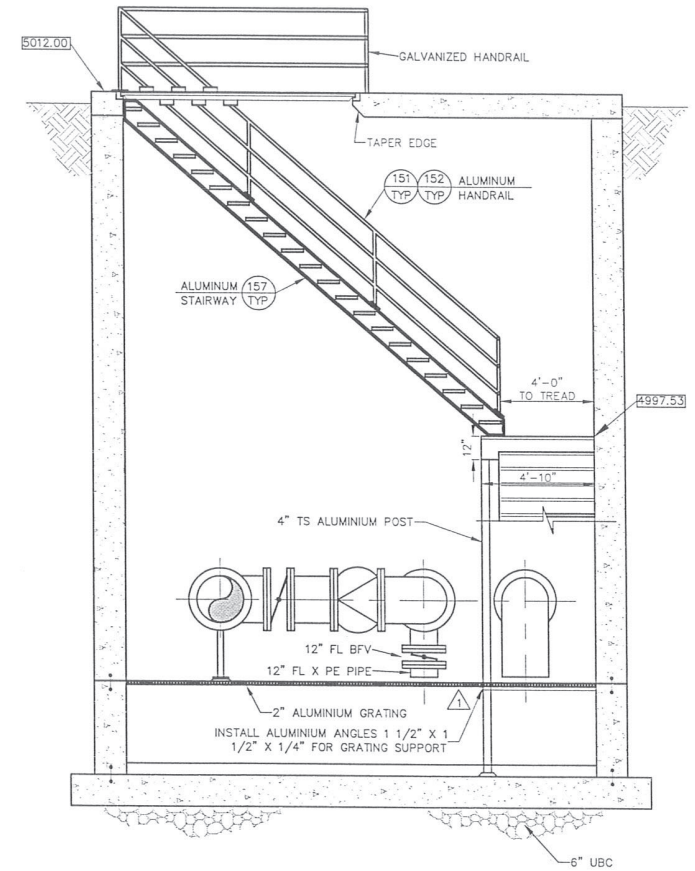
SHEET 35 OF 59

N:\PROJ\9802-DRAPER-IRR\148-7MG & 3 MG Tanks\dwg\=SHEETS-ASBUILTS\35-BSMNT-FLOOR.dwg 11/19/03 10:37:04 AM MST

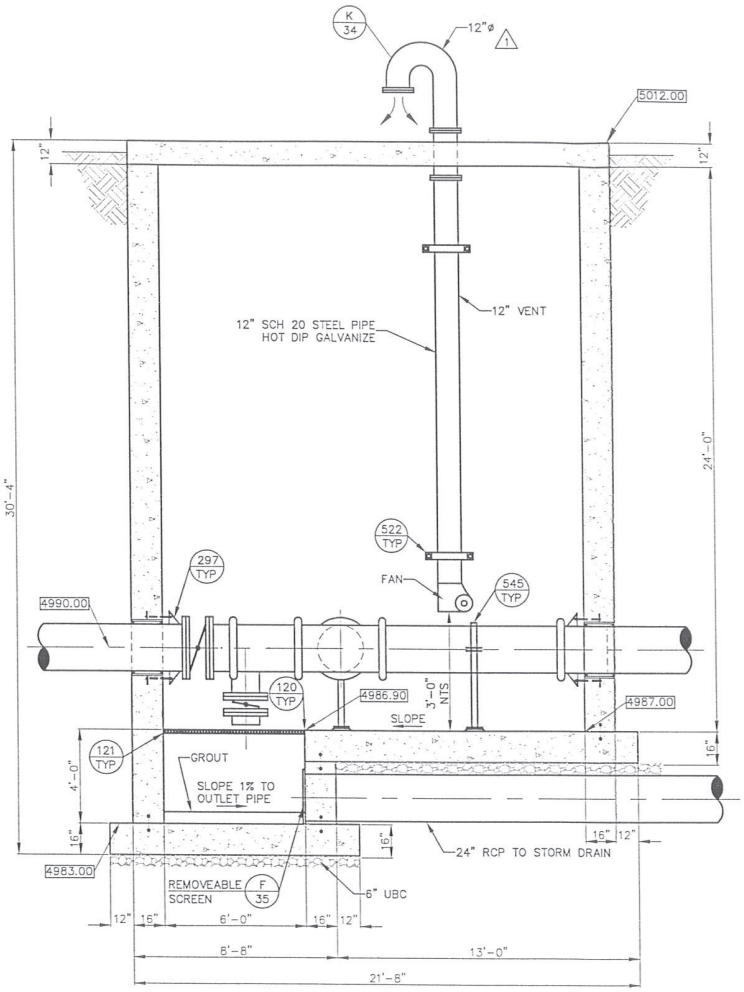


A / — GRATING PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. ALL SECTIONS 6'-0" WIDE.
2. GRATING SECTIONS SHALL BE CLAMPED TOGETHER.



B / 35 VAULT SECTION
SCALE: 3/8" = 1'-0"



C / 35 VAULT SECTION
SCALE: 3/8" = 1'-0"

NOTES:
1. SEE CONTRACTOR SUBMITTALS ON SHOP DRAWINGS FOR GRATING, FABRICATED PIPING, AND STAIRS FOR EXACT DETAILS.

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STATE OF UTAH

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2880 WEST 4700 SOUTH, STE D SALT LAKE CITY, UTAH 84118 (801) 955-5605
175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

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REVISION			
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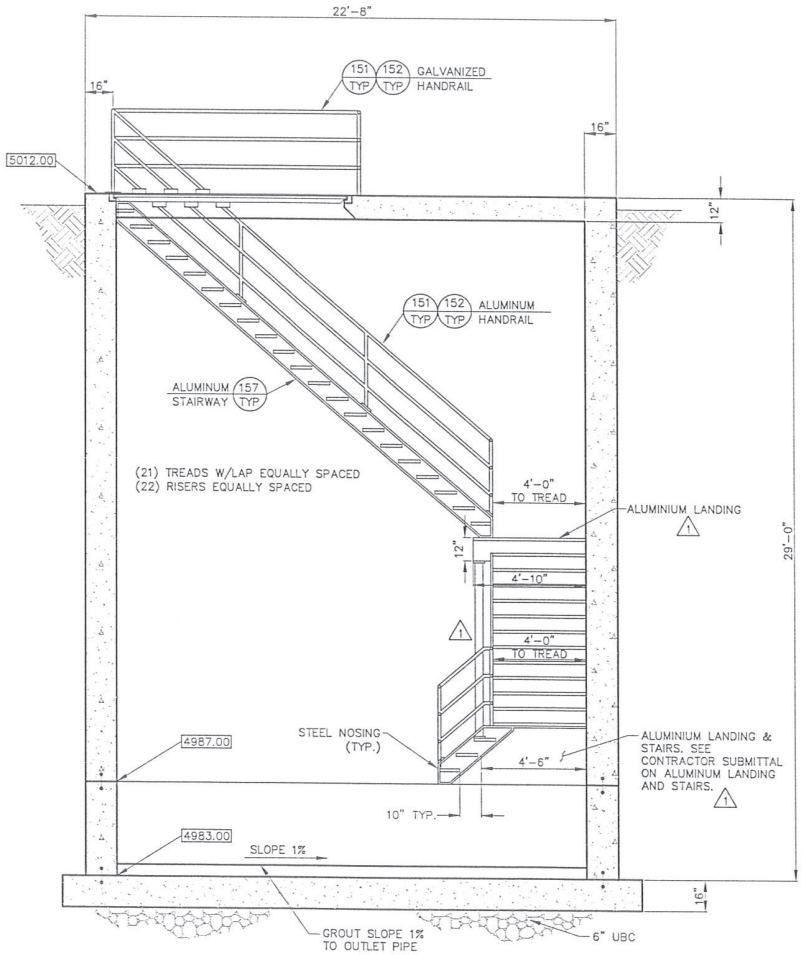
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3 MG VALVE VAULT ELEVATIONS
7 & 3 MG RESERVOIR

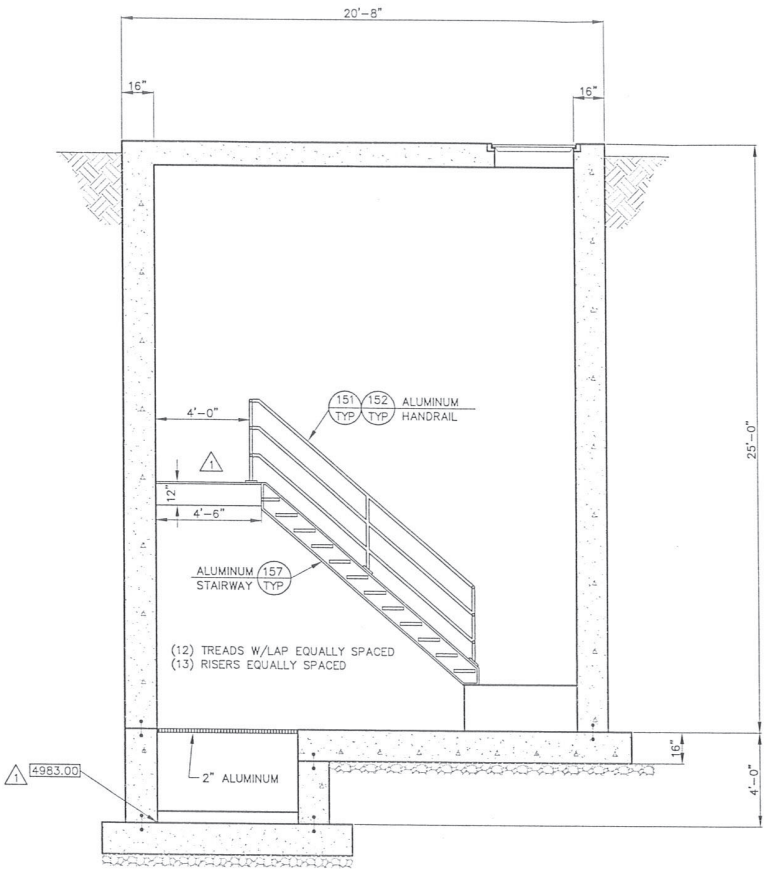
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 36 OF 59

N:\PROJ\9802-DRAPER-IRR\148-7MG & 3 MG Tanks\dwg\=SHEETS-ASBUILTS\36-ELEVATIONS.dwg 11/18/03 04:35:56 PM MST



A — REINFORCED CONCRETE SECTION
SCALE: 1/4" = 1'-0"



A — REINFORCED CONCRETE SECTION
SCALE: 1/4" = 1'-0"

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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

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REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	AS-BUILT

Jordan Valley Water Conservancy District
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3 MG VALVE VAULT
BUILDING SECTIONS
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

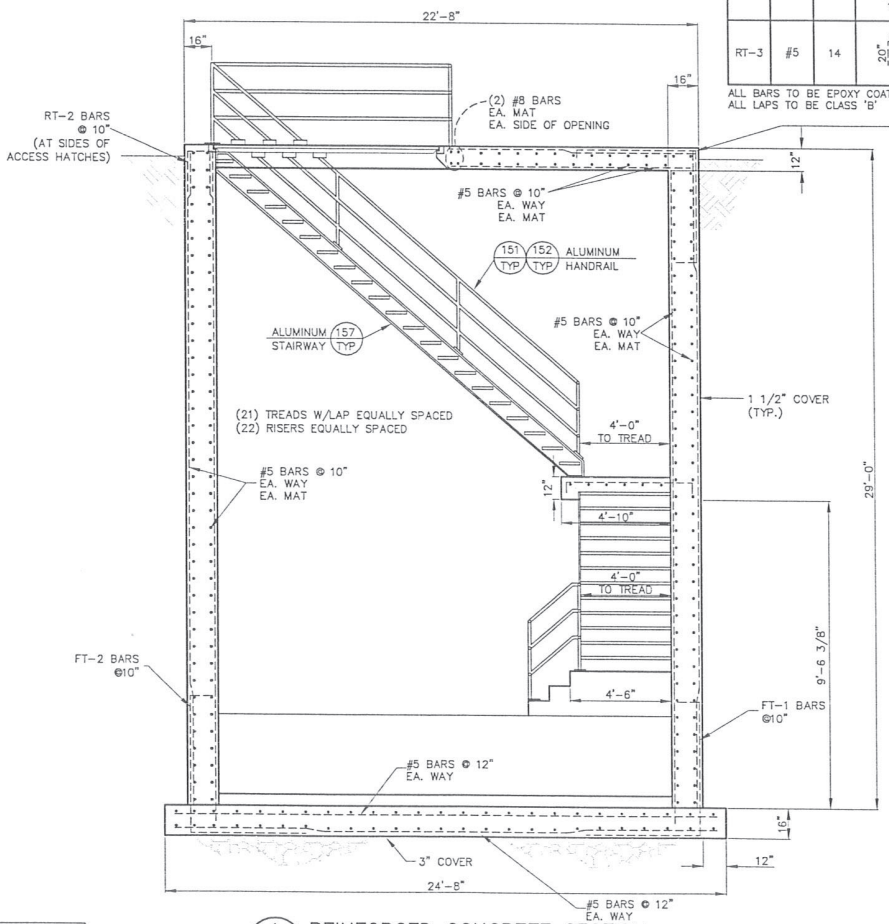
SHEET 37 OF 59

N:\PROJ\9802-DRAPER-IRR\148-7MG & 3 MG Tanks\dwg\=SHEETS-ASBUILTS\37-3MG-V-V-BUILD-SEC.dwg 11/19/03 09:22:05 AM MST

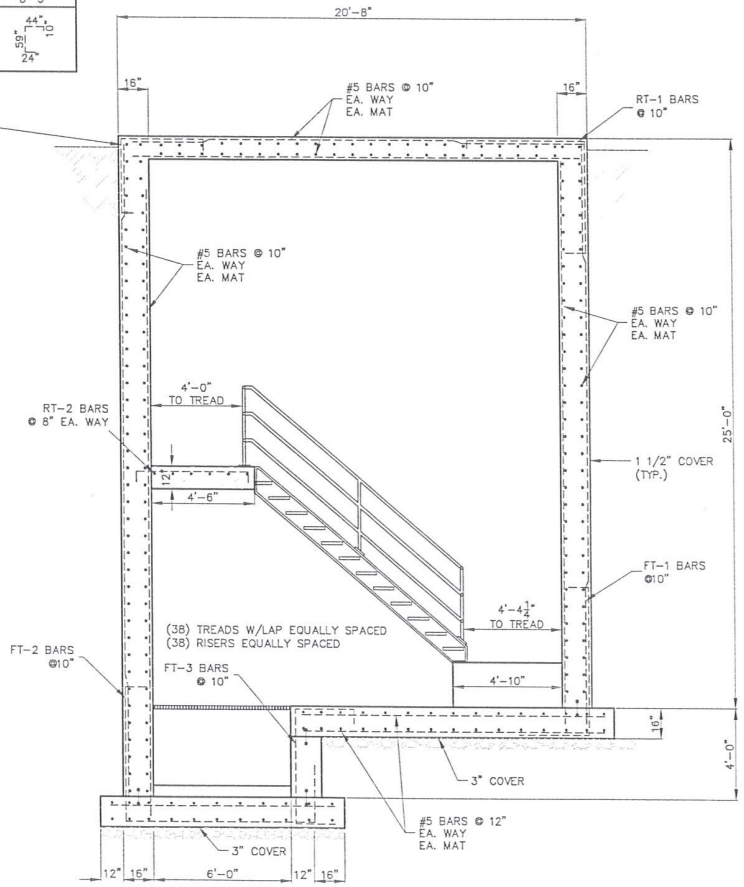
RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSIONS	BAR	SIZE	NO.	DIMENSIONS
RT-1	#5	80	54" 8" 54" 10"	FT-1	#5	70	10" 7'-0" 7'-0"
RT-2	#5	24	13" 8" 54" 10"	FT-2	#5	28	10" 7'-9" 43" 8'-5"
RT-3	#5	14	20" 66" 6"	FT-3	#5	28	59" 44" 10" 24"

ALL BARS TO BE EPOXY COATED
ALL LAPS TO BE CLASS 'B'



A — REINFORCED CONCRETE SECTION
SCALE: 1/4" = 1'-0"



A — REINFORCED CONCRETE SECTION
SCALE: 1/4" = 1'-0"

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0 1"
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REVISION			
NO	DATE	REV. BY	ISSUE

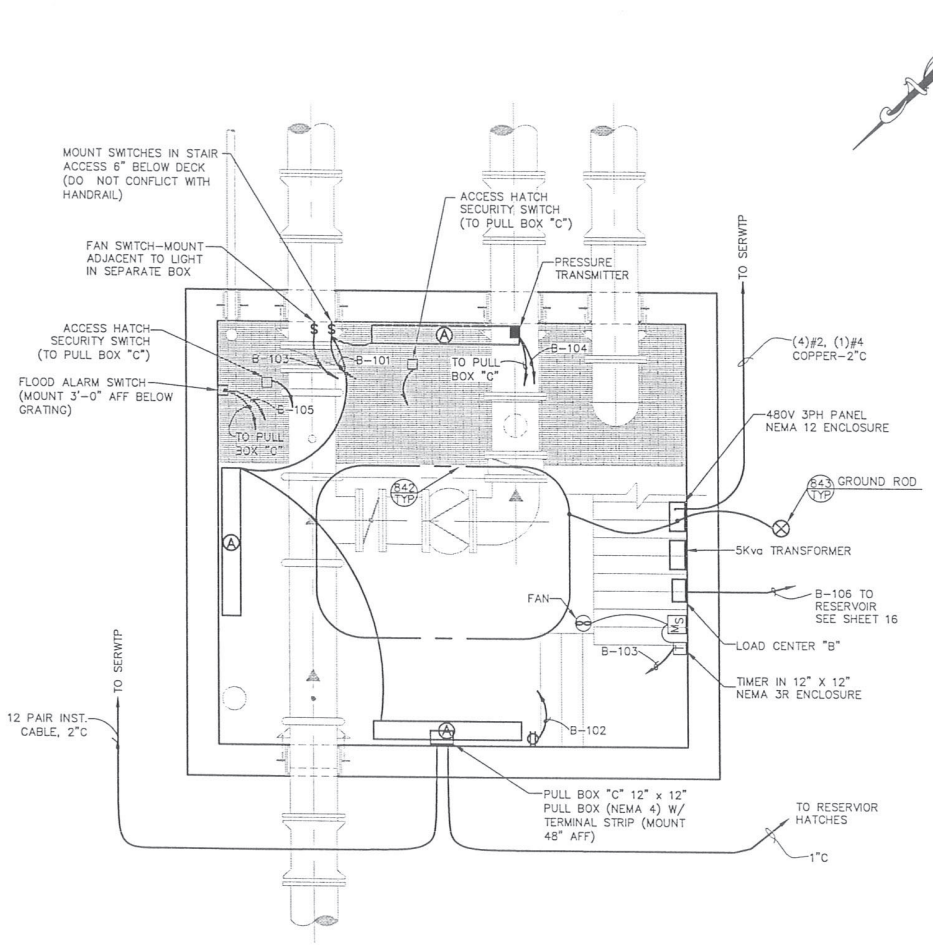
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3 MG VALVE VAULT
REINFORCED CONCRETE SECTIONS
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 38 OF 59

N:\PROJ\9802-DRAPER-IRR\117-3MG-VALVEVAULT\DWG\=SHEETS\BUILDING SECTIONS.DWG 04/06/02 10:59:29 AM MST



1 A — 3MG RESERVOIR VALVE VAULT ELECTRICAL PLAN
SCALE: 3/8" = 1'-0"

LEGEND

SYMBOL	DESCRIPTION
	CONDUIT EXPOSED (MIN. 3/4")
	CONDUIT ENCASED IN DUCTBANK OR SLAB (MIN. 3/4")
	DUPLEX RECEPTACLE 20A, 125V, GROUNDED TYPE, MTD 36" AFF
	HID OR INCADESCENT LIGHTING FIXTURE LETTER DENOTES TYPE
	FLUORESCENT FIXTURE
	FUSED
T	THERMOSTAT
*	INDICATES DEVICE LOCATED IN MCC OR LOAD CENTER
□	INDICATES DEVICE LOCATED IN INSTR. PANEL
△	INDICATES DEVICE LOCATED IN FIELD
RTM OR RTM	RUNNING TIME METER
CR OR CR	CONTROL RELAY
TDR OR TDR	TIME DELAY RELAY
SV OR SV	SOLENOID VALVE
TM OR TM	TIMER
TM	LIMIT SWITCH
TM	FLOAT SWITCH
TM	PRESSURE SWITCH
	STOP PUSH BUTTON
	STOP LOCKOUT PUSH BUTTON
	START PUSH BUTTON
	SELECTOR SWITCH
PC OR PC	PHOTOCELL
S	MOTOR — NUMBER INDICATES H.P.
M	VALVE MOTOR OPERATOR
20 A / 1P	CIRCUIT BREAKER WITH TRIP CURRENT AND NUMBER OF POLES
	GROUND CONNECTION
OR	MOTOR SPACE HEATER
	BIMETALLIC OVERLOAD
$ OR PC	SINGLE POLE SWITCH
MS OR $M	MANUAL STARTER W/OVERLOAD PROTECTION MTD 48" AFF
WP	WEATHER PROOF
SA	SURGE ARRESTOR
GND	GROUND
C	CONDUIT
AFF	ABOVE FINISH FLOOR
SHD.PR	SHIELDED PAIR (INSTRUMENTATION CABLE)
	MAINTAIN CONTACT TYPE PUSH BUTTON WITH RING AND PADLOCKABLE
	BATTERY PACK LIGHT
	HEAVY DUTY DISCONNECT SWITCH
T	THERMOSTAT
ø	HAND-OFF-AUTO SELECTOR SWITCH
	FUSED DISCONNECT
H O A	SELECTOR SWITCH
	DISCONNECT

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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1" — BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION

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1	01/14/04	TJW	ASBUILT

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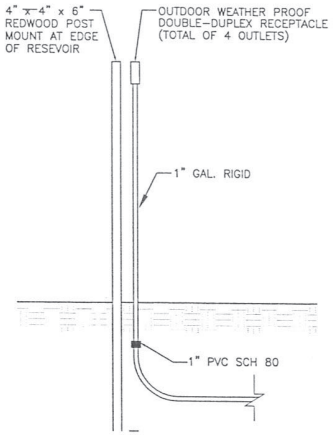
3 MG VALVE VAULT ELECTRICAL PLAN

7 & 3 MG RESERVOIR

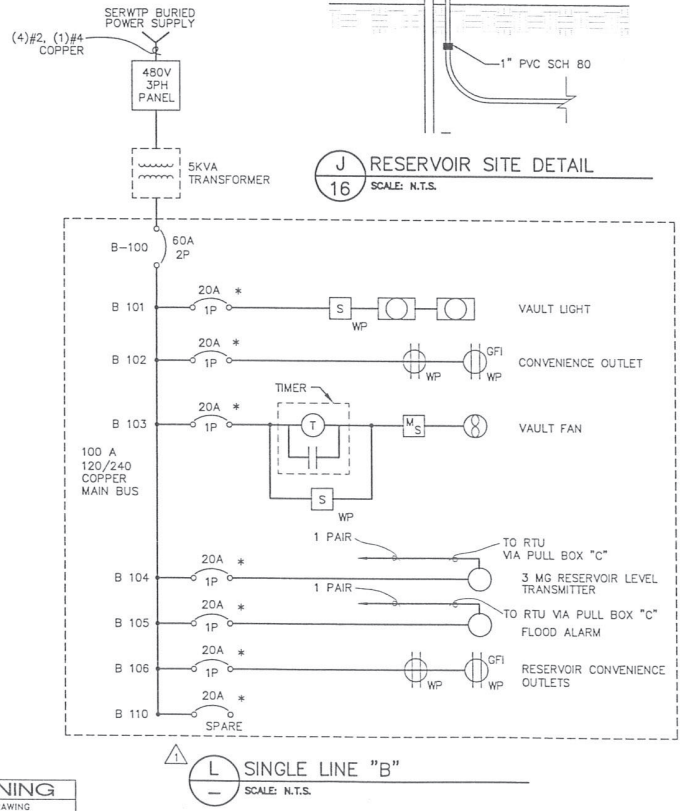
DESIGNER	CAD
DIO	CLP
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 39 OF 59

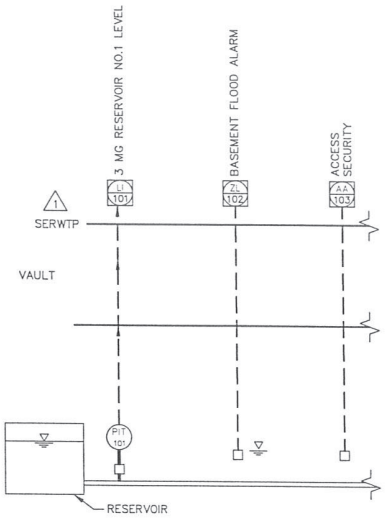
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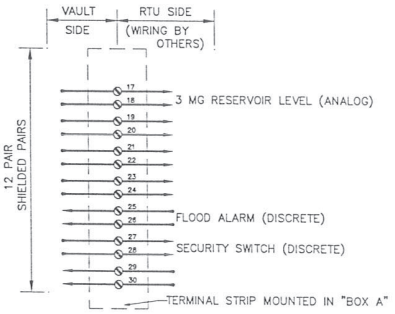
J / 16 RESERVOIR SITE DETAIL
SCALE: N.T.S.



1 L / — SINGLE LINE "B"
SCALE: N.T.S.



A / — BOOSTER STATION P & ID
SCALE: N.T.S.



K / — PULL BOX "A" TERMINAL STRIP
SCALE: N.T.S.

INSTRUMENT TABLE 1 IDENTIFICATION LETTERS

	FIRST-LETTER		SUCCEEDING-LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE			CONTROL	
D	USER'S CHOICE	DIFFERENTIAL			
E	VOLTAGE		SENSOR, (PRIM. ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELEC.)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	USER'S CHOICE	MOMENTARY			MIDDLE
N	TORQUE		USER'S CHOICE	USER'S CHOICE	
O	USER'S CHOICE		ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECH. ANALYSIS			VALVE, DAMPER LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASS. FINAL CONTROL ELEMENT	

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WEST JORDAN, UTAH 84088-0070
(801) 565-8903

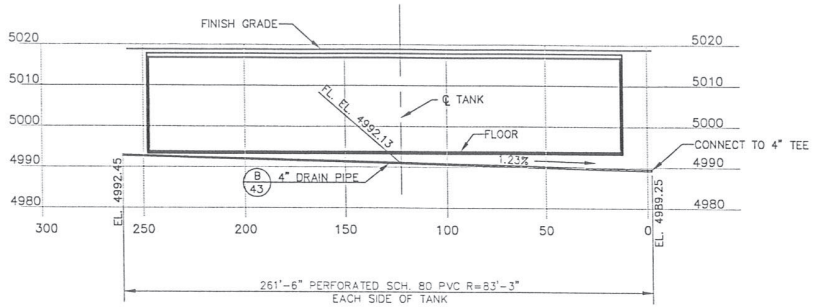
3 MG ELECTRICAL DETAILS

7 & 3 MG RESERVOIR

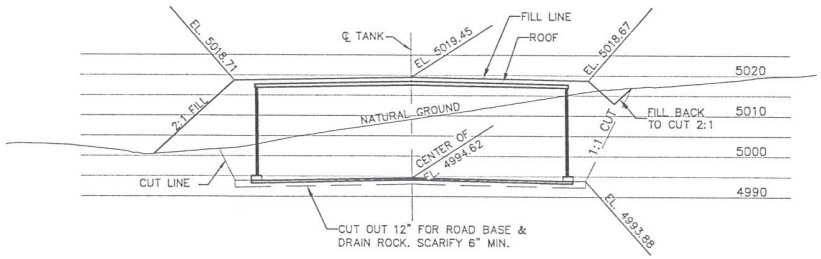
DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 40 OF 59

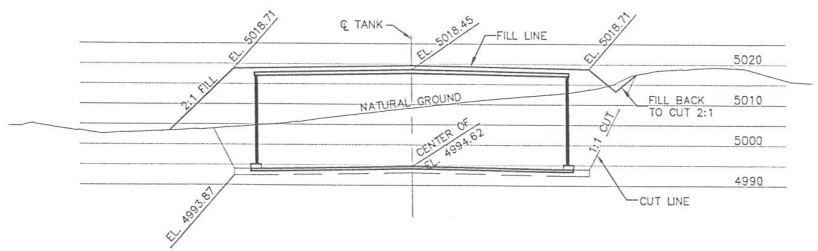
N:\PROJ\9802-DRAPER-IRR\117-3MG-VALVEVAULT\dwg\=SHEETS\P&ID.dwg 4-7-02 CLP



C — 4" UNDER DRAIN PROFILE
SCALE: HORZ. 1"=30'
VERT. 1"=15'



E
7
SECTION
SCALE: HORZ. 1"=30'
VERT. 1"=15'



F
7
SECTION
SCALE: HORZ. 1"=30'
VERT. 1"=15'

N:\PROJ\9802-DRAPER-IRR\117-3MG-TANK\dwg\=SHEETS\3MG SECTION.DWG 10/30/01 12:05:10 PM MST

REGISTERED PROFESSIONAL ENGINEER
NO.169278
DON I. OLSEN
STATE OF UTAH

Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D
SALT LAKE CITY, UTAH 84118
(801) 955-5605
175 NORTH MAIN, STE 104
HEBER CITY, UTAH 84032
(435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

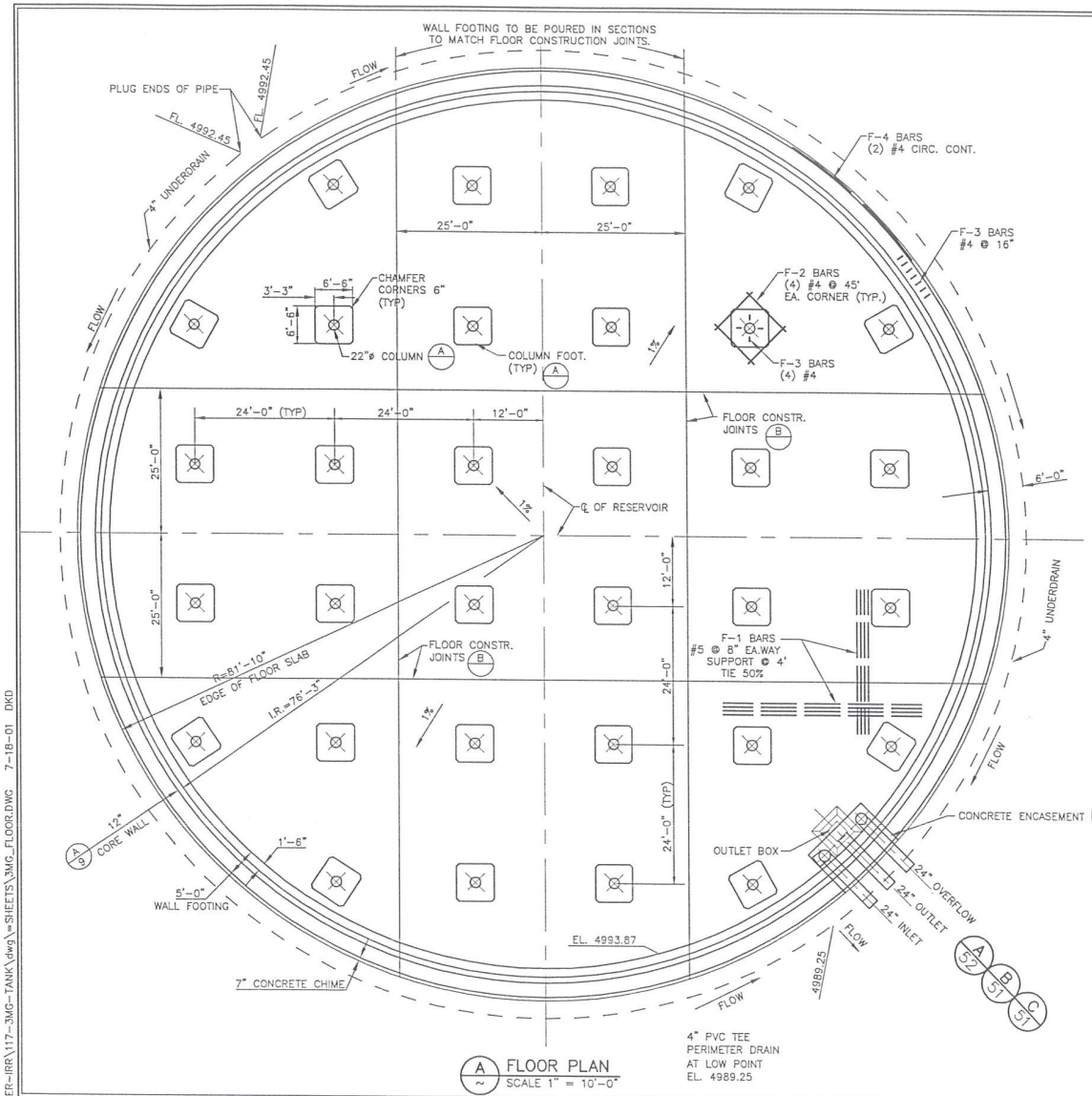
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3MG SECTIONS

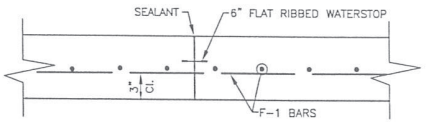
7 & 3MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 41 OF 59



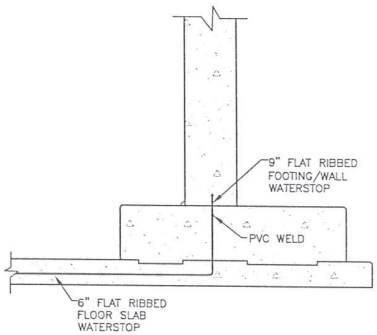
A FLOOR PLAN
SCALE 1" = 10'-0"



B FLOOR JOINT DETAIL
N.T.S.

FLOOR RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSION
F-1	#5	495	VARIES 0 TO 163'-3"
F-2	#4	128	10'-0"
F-3	#4	492	10'-5" / 3" / 3"
F-4	#4	2	513' CIRC. CONT.



C FOOTING WATERSTOP DETAIL
(TYP OF 8)
SCALE: NTS

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2880 WEST 4700 SOUTH, STE D, SALT LAKE CITY, UTAH 84118, (801) 955-5605
175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION

NO	DATE	REV. BY	ISSUE

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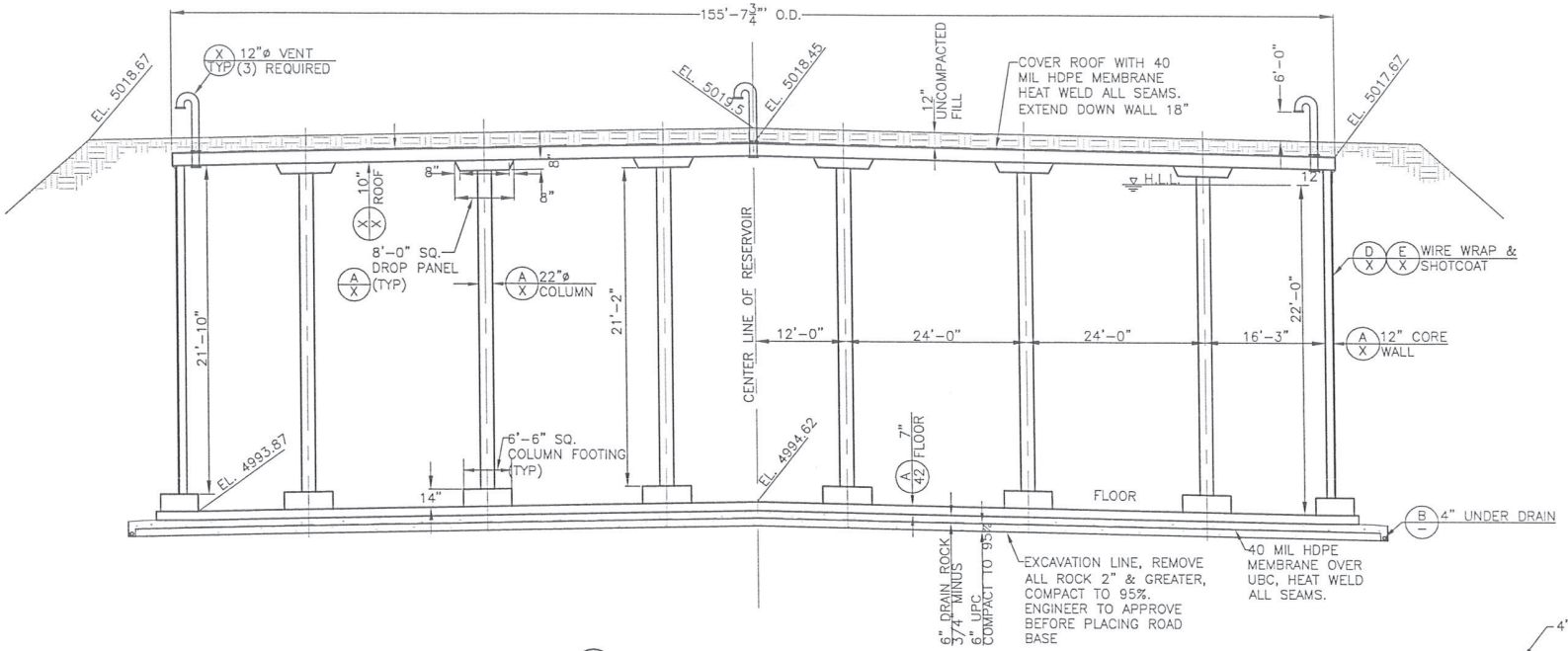
3 MG RESEVOIR FLOOR PLAN

7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 42 OF 59

N:\PROJ\9802-DRAPER-IRR\117-3MG-TANK\dwg\-SHEETS\3MG_FLOOR.DWG 7-18-01 DKD



A — CROSS SECTION AT CENTER LINE OF RESERVOIR
SCALE: HORZ. 1/8"=1'-0"
VERT. 1/4"=1'-0"

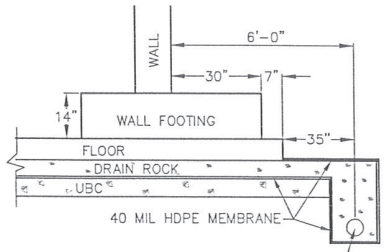
CEMENT MIX:

CEMENT	7 SACKS/CY
SUPERPLASTICIZER	12 OZ./100# CEMENT
FIBERMESH	1.5#/CY
AIR	5-6% MAX.
WATER	32 GAL./CY
CRUSHED ROCK	¾"-#4 60-65%
SAND	35-40%
SLUMP	5"
28 DAY STRENGTH	5000 PSI

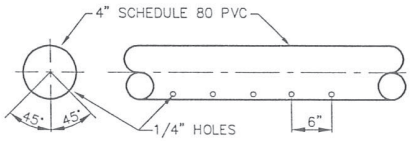
CEMENT TO BE TYPE II (ASTM C-150)
SUPERPLASTICIZER (ASTM C-494 TYPE F/G)

FIBERMESH S.G. 0.90, TENSILE STRENGTH
70 KSI MIN, LENGTHS ½", ¾", 1½", 2"

REBAR TO BE GRADE 60



B — PERIMETER FOUNDATION DRAIN PIPE
N.T.S.



N:\PROJ\9802-DRAPER-IRR\117-3MG-TANK\dwg\=SHEET\3MG_TSEC.DWG 7-18-01 DKD

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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

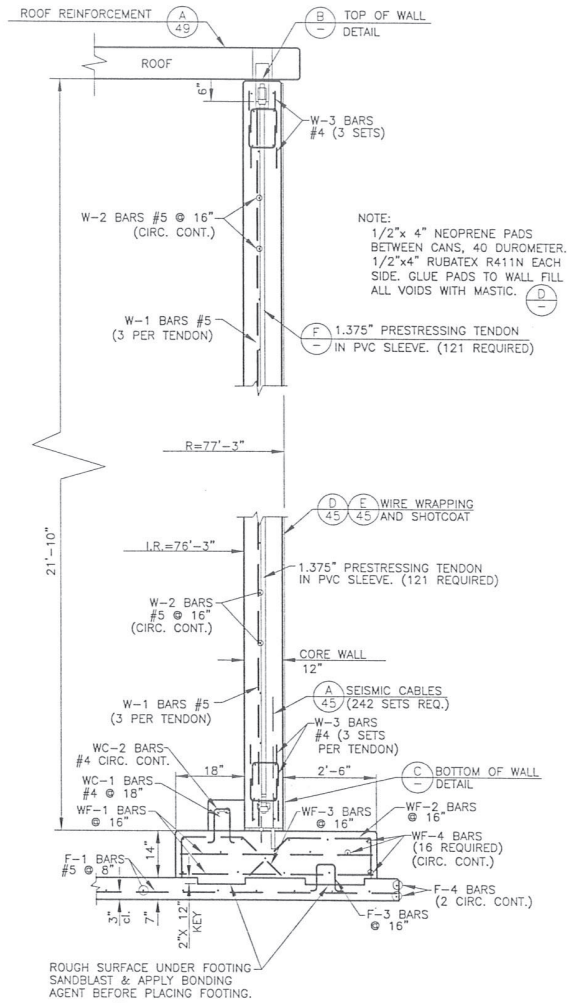
Jordan Valley Water Conservancy District
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WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3 MG RESERVOIR CROSS SECTION

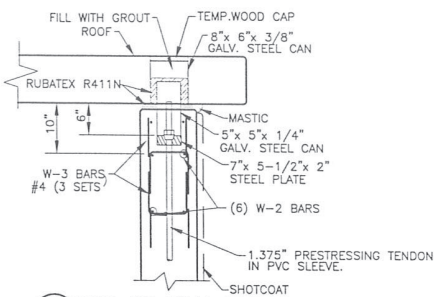
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 43 OF 59



A 7|8 PRESTRESSED WALL SECTION
NTS

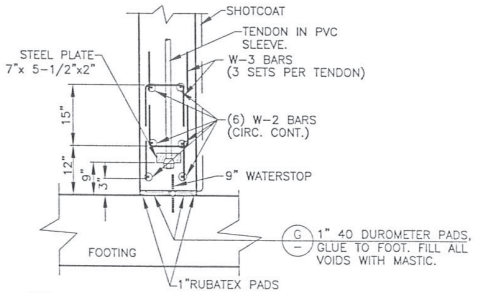


B — TOP OF WALL DETAIL
NTS

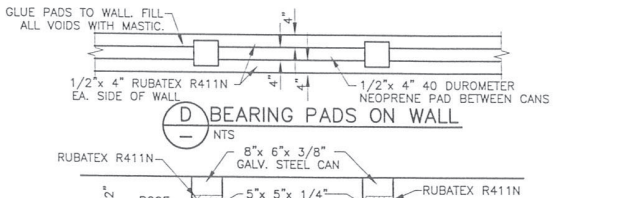
RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSION
WF-1	#5	730	4'-8"
WF-2	#5	365	15° 2'-8" 1"
WF-3	#5	365	11" 16" 15°
WF-4	#5	16	CIRC. CONT. 486'
WC-1	#4	320	2" 12" 2"
WC-2	#4	2	CIRC. CONT. 477'
W-1	#5	374	21'-7"
W-2	#5	28	CIRC. CONT. 482'
W-3	#4	1500	24" 7"

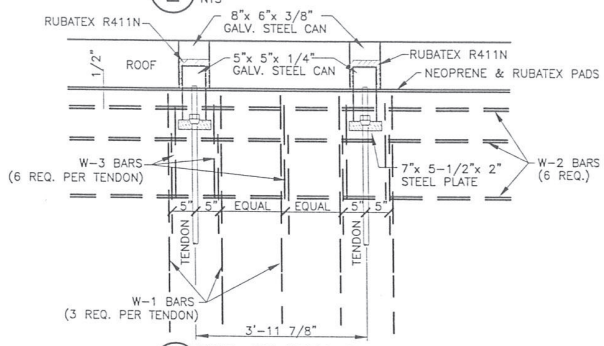
ALL BARS TO BE EPOXY COATED
ALL LAPS TO BE CLASS 'B'



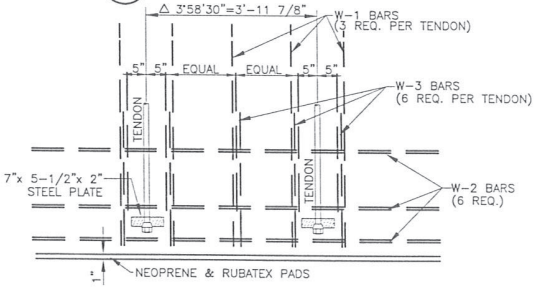
C — BOTTOM OF WALL DETAIL
NTS



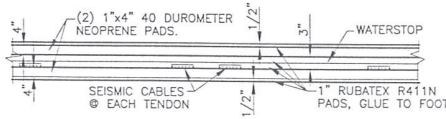
D — BEARING PADS ON WALL
NTS



E — TOP OF WALL ELEVATION
NTS



F — BOTTOM OF WALL ELEVATION
NTS



G — BEARING PADS ON FOOTING
NTS

△1 ASBUILT NOTE
WALL TYPE NOT CONSTRUCTED

N:\PROJ\9802-DRAPER-IRR\117-3MG-TANK\dwg\-SHEETS\3MG_WALL.DWG 4-03-02 TJW

REGISTERED PROFESSIONAL ENGINEER
NO.169278
DON I. OLSEN
STATE OF UTAH

Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D SALT LAKE CITY, UTAH 84118 (801) 955-5605
175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION

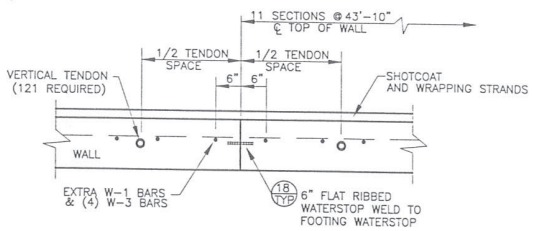
NO	DATE	REV. BY	ISSUE
1	01/14/04	TJW	ASBUILT

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

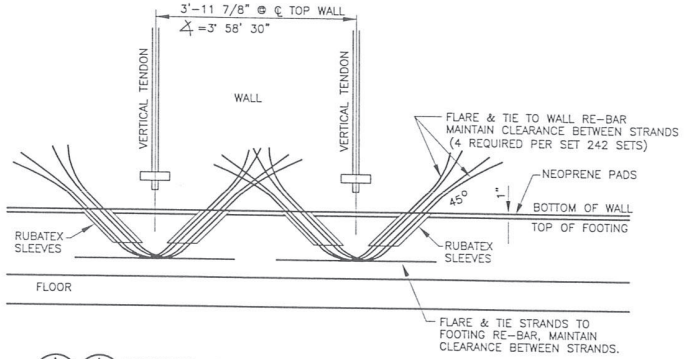
3 MG HORIZONTAL & VERTICAL PRESTRESSED WALL ALTERNATIVE
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

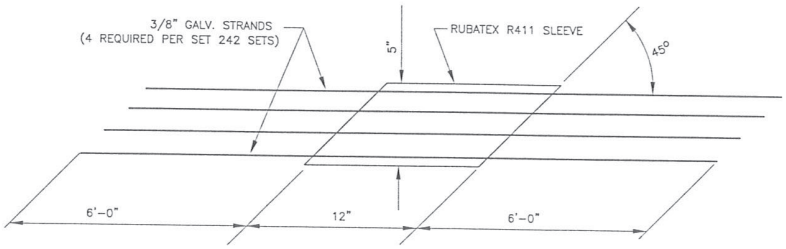
SHEET 44 OF 59



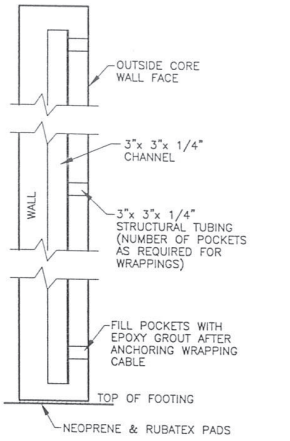
C — NTS **VERTICAL WALL JOINT DETAIL**



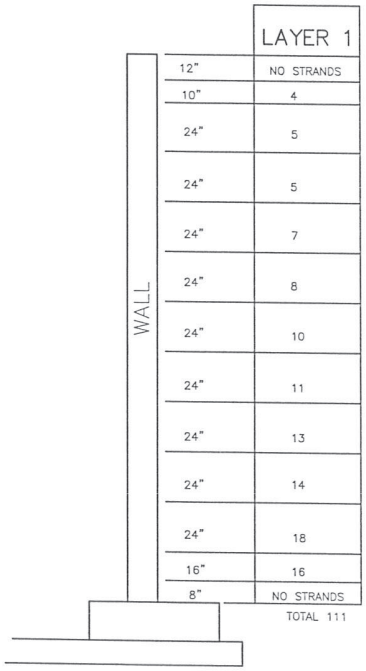
A/44 A/46 NTS **SEISMIC CABLES AT FLOOR — ELEVATION**



B — NTS **SEISMIC CABLE DETAIL**



D/44 NTS **WRAPPING STRANDS ANCHOR**



	LAYER 1
12"	NO STRANDS
10"	4
24"	5
24"	5
24"	7
24"	8
24"	10
24"	11
24"	13
24"	14
24"	18
16"	16
8"	NO STRANDS

TOTAL 111

E/44 E/46 NTS **WRAPPING SCHEDULE**

1 ASBUILT NOTE
WALL TYPE
NOT CONSTRUCTED

REGISTERED PROFESSIONAL ENGINEER — NO. 169278 — DON I. OLSEN — STATE OF UTAH

E2 Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D, SALT LAKE CITY, UTAH 84118, (801) 955-5605
175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1" — BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	01/14/04	TJW	ASBUILT

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
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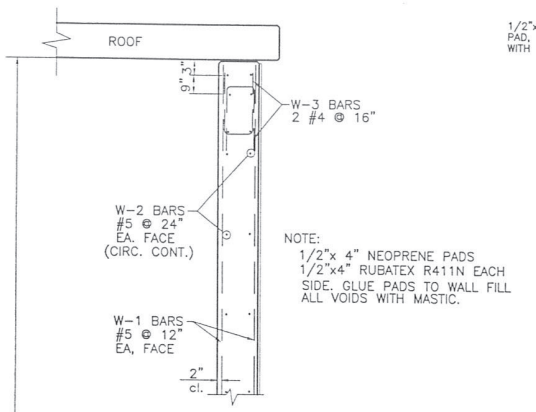
3 MG SEISMIC AND WRAPPING CABLE DETAILS

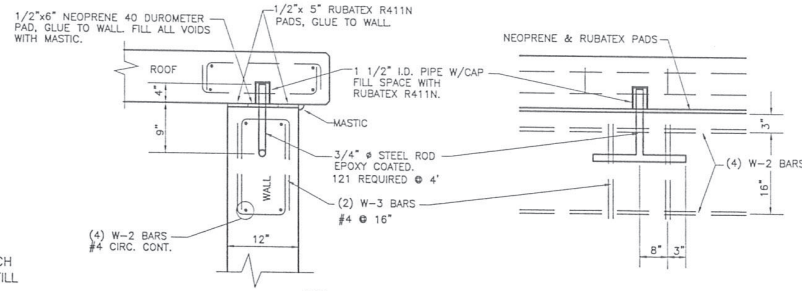
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 45 OF 59

N:\PRO\9802-PRAPER-PRO\117-3MG-TANK\dwg\SHEETS\3MG-SEIS.DWG, 4-03-02 TJW



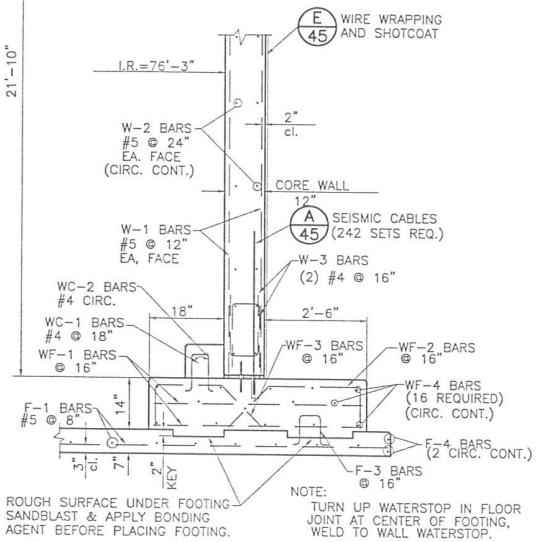


C TOP OF WALL DETAIL
NTS

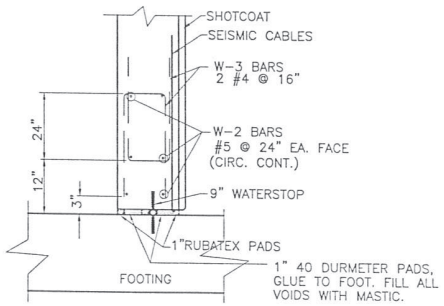
RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSION
WF-1	#5	730	4'-8"
WF-2	#5	365	15" / 2'-8" / 11"
WF-3	#5	365	11" / 16" / 15"
WF-4	#5	16	CIRC. CONT. 486'
WC-1	#4	320	2" / 2" / 12" / 5"
WC-2	#4	2	CIRC. CONT. 477'
W-1	#5	964	21'-7"
W-2	#5	48	CIRC. CONT. 482'
W-3	#4	1450	24" / 7"

ALL BARS TO BE EPOXY COATED
ALL LAPS TO BE CLASS 'B'

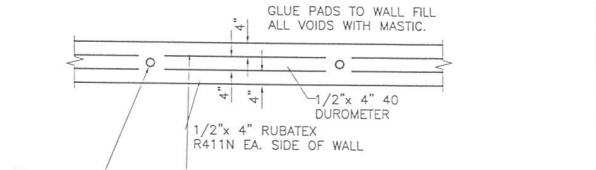


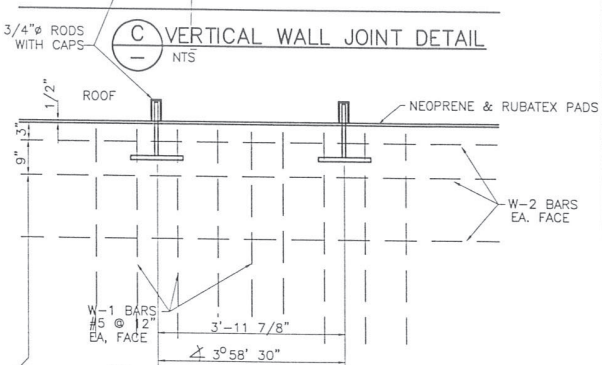
A HORIZONTAL PRESTRESSED WALL SECTION
NTS



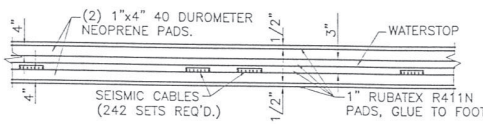
C BOTTOM OF WALL
NTS

1 ASBUILT NOTE
WALL TYPE
NOT CONSTRUCTED





F BOTTOM OF WALL ELEVATION
NTS



G BEARING PADS ON FOOTING
NTS

REGISTERED PROFESSIONAL ENGINEER
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0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	01/14/04	TJW	ASBUILT

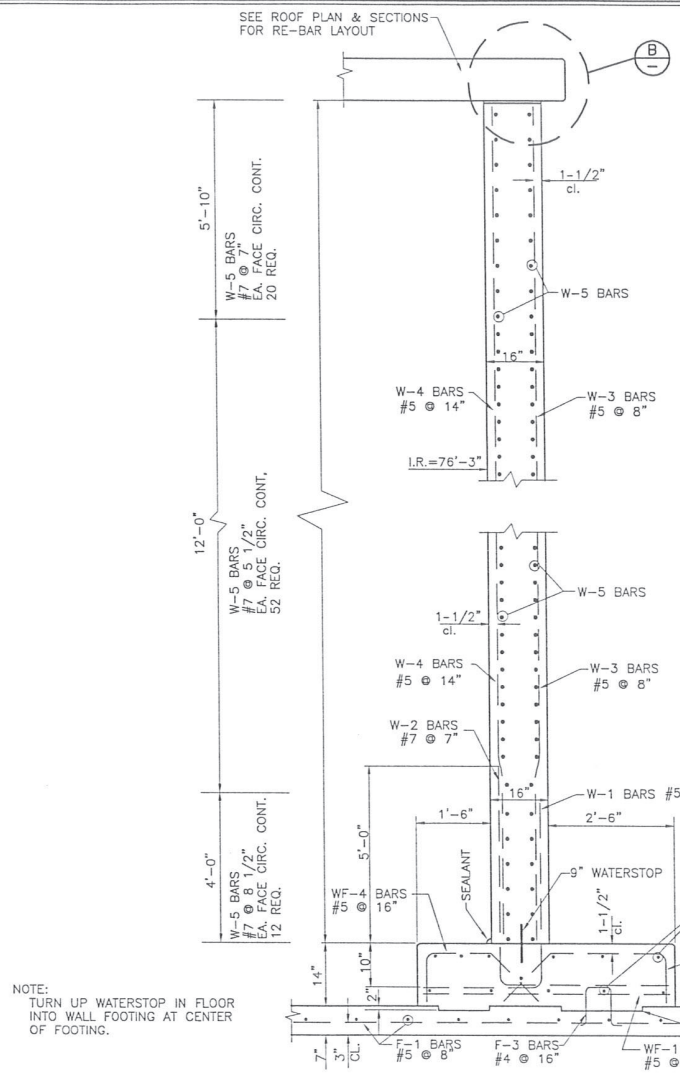
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
(801) 565-8903

3 MG HORIZONTAL PRESTRESSED WALL ALTERNATIVE
7 & 3 MG RESERVOIRS

DESIGNER	CAD
GJ	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 46 OF 59

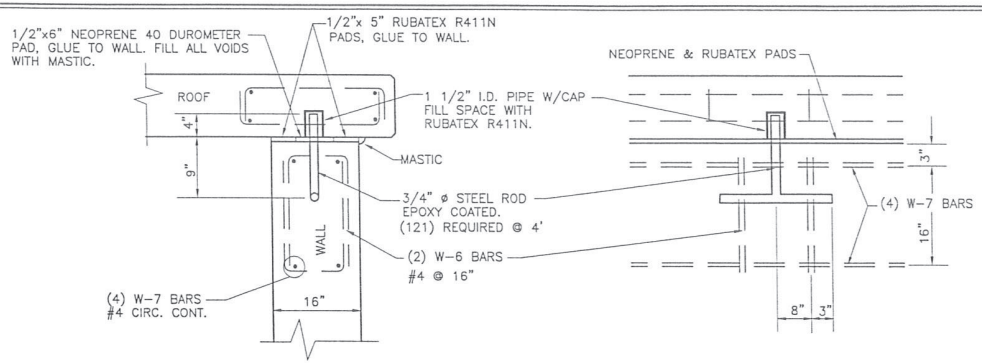
N:\PROJ\9802-DRAPER-IRR\117-3mg-tank\dwg\=SHEETS\ALT WALL 2.DWG 04/08/2002 - 11:05:37 AM MDT



NOTE:
TURN UP WATERSTOP IN FLOOR INTO WALL FOOTING AT CENTER OF FOOTING.

NOTE:
ROUGH SURFACE UNDER FOOTING. SANDBLAST & APPLY BONDING AGENT BEFORE PLACING CONCRETE.

A CONVENTIONAL WALL DETAIL
NTS



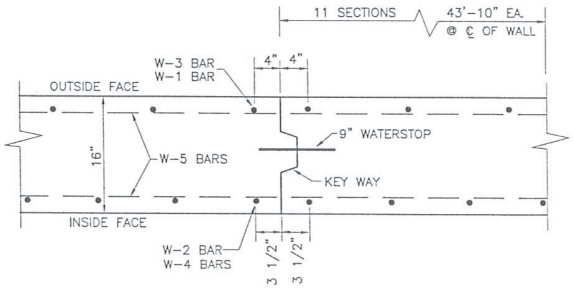
B TOP OF WALL DETAIL
NTS

NOTE:
STAGGER HORIZONTAL SPLICES IN CIRCULAR RE-BAR 5 FEET MINIMUM. SPLICES SHALL NOT COINCIDE IN VERTICAL ARRAYS MORE FREQUENTLY THAN EVERY FOURTH BAR ROW. ALL BARS TO BE EPOXY COATED. ALL LAPS TO BE CLASS 'B'

NOTE:
PLACE 1" OF MORTAR IN WALL FORM PRIOR TO PLACING CONCRETE (1 CEMENT-1 SAND)

CONVENTIONAL WALL RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSION
WF-1	#5	364	5'-8"
WF-2	#5	12	486" CONT.
WF-3	#5	364	45° 32" 10"
WF-4	#5	364	10" 18" 45° 13 1/2
W-1	#5	730	34" 4'-10"
W-2	#7	840	40" 5'-10"
W-3	#5	730	21'-6"
W-4	#5	420	21'-6"
W-5	#7	86	486" CONT.
W-6	#4	728	24" 10"
W-7	#4	4	486" CONT.



C VERTICAL WALL JOINT DETAIL
NTS

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0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

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WEST JORDAN, UTAH 84088-0070
(801) 565-8903

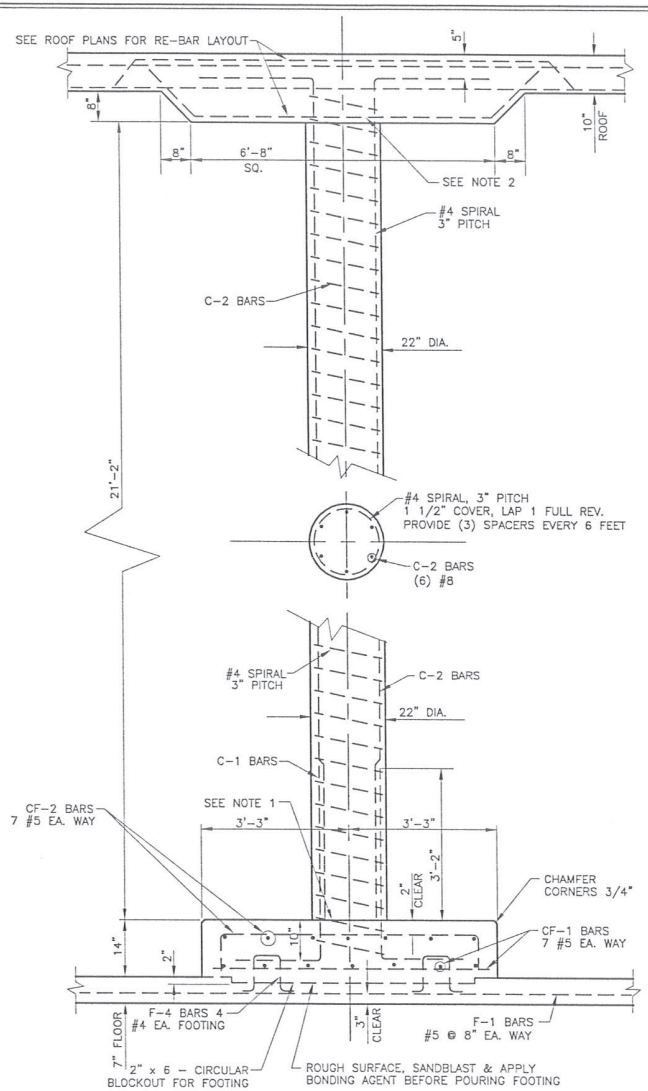
3MG CONVENTIONAL WALL ALTERNATIVE

7 & 3 MG RESERVOIRS

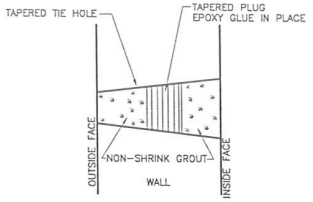
DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 47 OF 59

N:\PROJ\9802-DRAPER-IRR\117-3mg-tank\dwg\=SHEETS\ALT WALL.DWG 04/07/2002 11:09:58 AM MDT



A — COLUMN SECTION
SCALE: 3/4"=1'-0"



L — FORM HOLE DETAIL
SCALE: NTS

COLUMN RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSION
CF-1	#5	448	6'-0"
CF-2	#5	448	10" 6'-0" 10"
C-1	#8	192	26" 48"
C-2	#8	192	36" 22'-2"
SPIRAL	#4	32	22'-3"

ALL BARS TO BE EPOXY COATED

NOTES:
1. CLEAN AND SANDBLAST AREA TO RECEIVE COLUMN BEFORE PLACING FORM.
2. CLEAN TOP OF COLUMN BEFORE PLACING ROOF CONCRETE.

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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-5600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

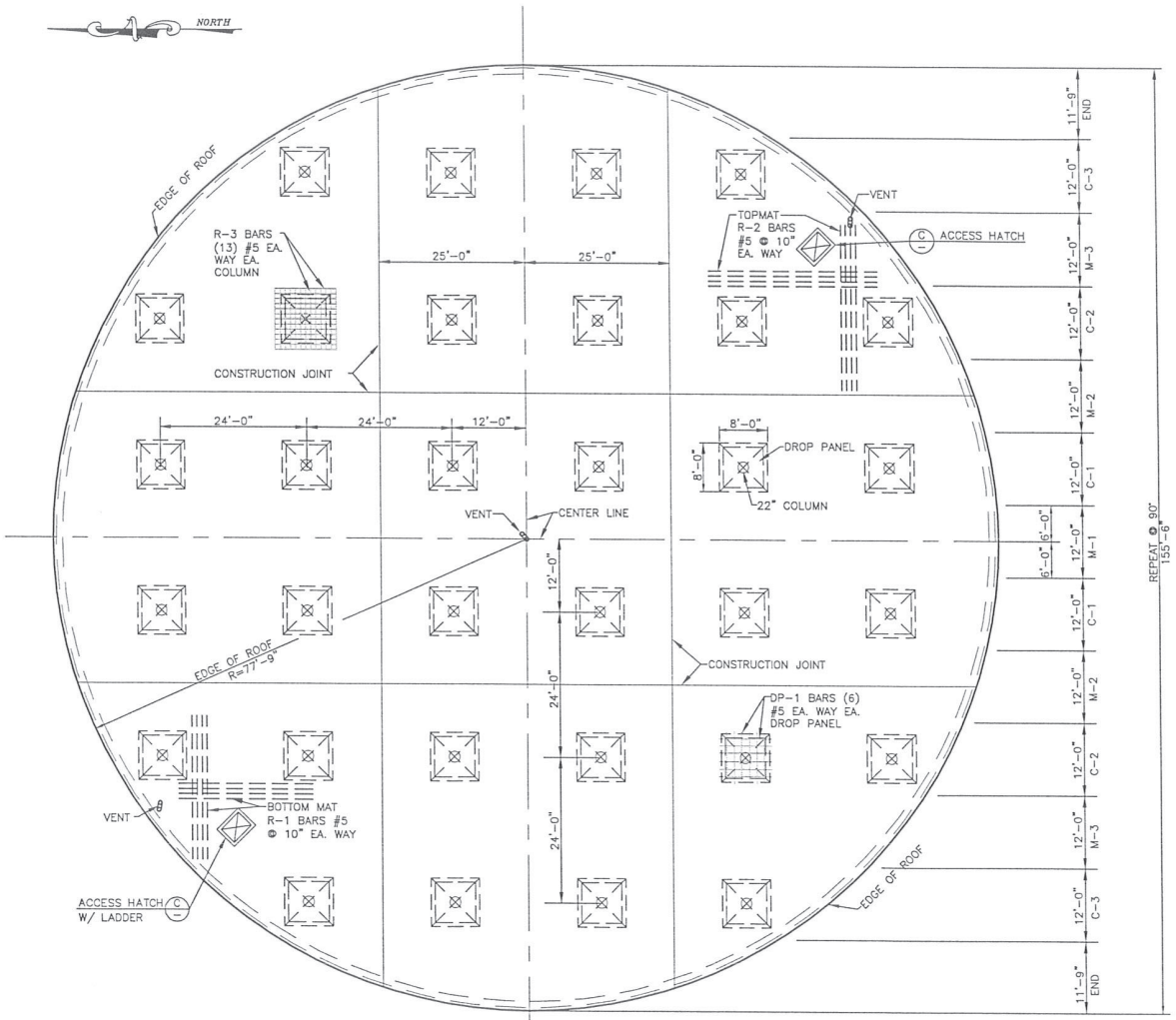
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3 MG COLUMNS
7 & 3 MG RESERVOIRS

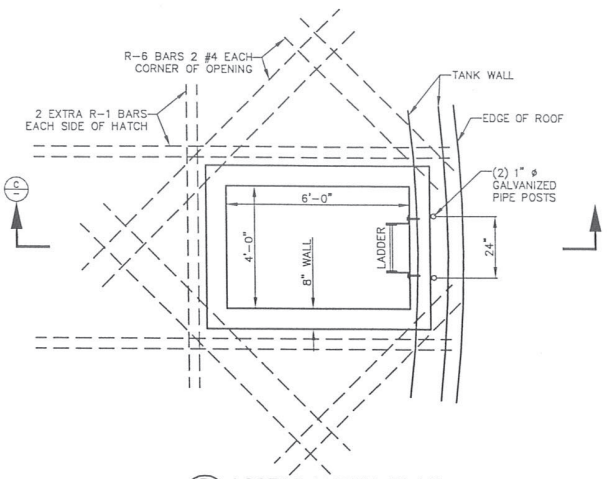
DESIGNER	CAD
DIO	DKD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 48 OF 59

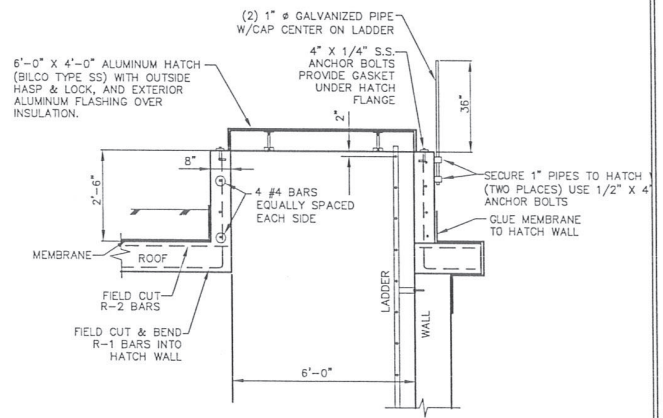
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A ROOF PLAN
SCALE: 1"=10'



B ACCESS HATCH PLAN
SCALE: 1/2" = 1'-0"



C ACCESS HATCH SECTION
SCALE: 1/2" = 1'-0"

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0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
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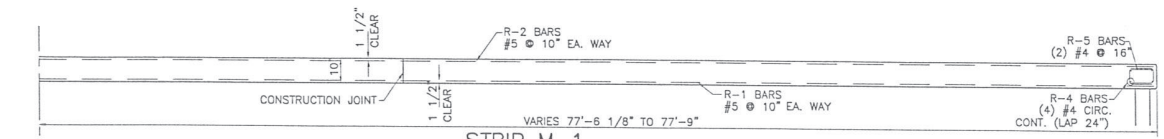
3 MG ROOF PLAN

7 & 3 MG RESERVOIRS

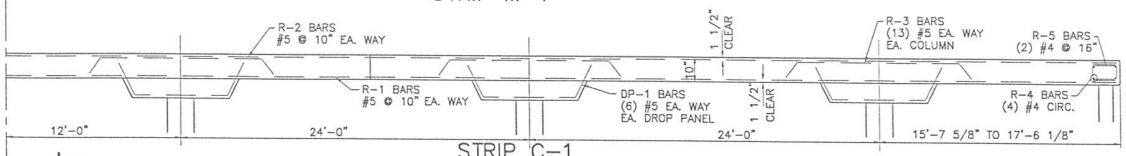
DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 49 OF 59

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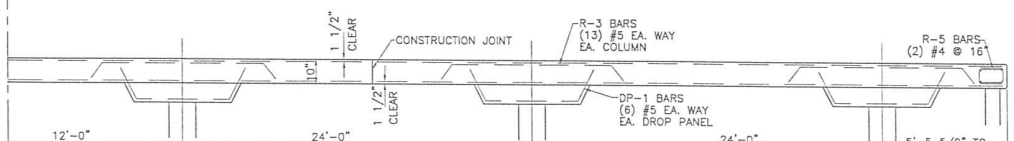
STRIP M-1



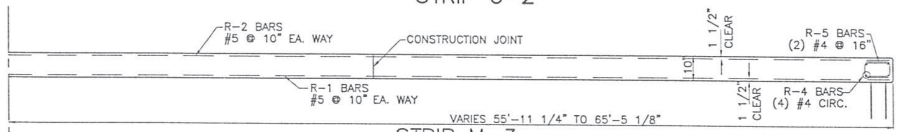
STRIP C-1



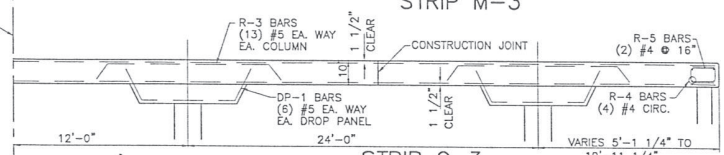
CLEAR M-2



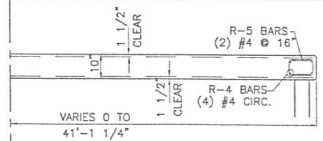
STRIP C-2



STRIP M-3



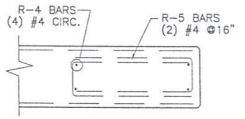
STRIP C-3



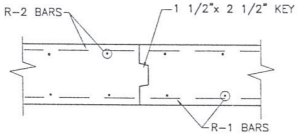
END STRIP

SYMMETRICAL ABOUT CENTER LINE REPEAT AT 90°

A ROOF SECTIONS
SCALE: N.T.S.



B ROOF EDGE DETAIL
SCALE: N.T.S.



C ROOF JOINT DETAIL
SCALE: N.T.S.

ROOF RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSION
R-1	#5	375	VARIES 0 TO 155'-0"
R-2	#5	375	VARIES 0 TO 155'-0"
R-3	#5	832	10'-8" 45° 8" 6"
DP-1	#5	384	15" 6'-4" 15" 45°
R-4	#4	4	487' CIRC. CONT.
R-5	#4	732	20" 5"

1. ALL BARS TO BE EPOXY COATED.
2. ALL LAPS TO BE CLASS "B". NO LAPS THRU CONSTRUCTION JOINTS.
3. BOTTOM MAT TO BE SUPPORTED ON BEAM BOLSTERS @ 4' SPACING.
4. TOP MATS TO BE SUPPORTED ON CHAIRS @ 4' GRID.
5. MATS TO BE TIED 50%.
6. MINIMUM LAP 24" UNLESS NOTED OTHERWISE.

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0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

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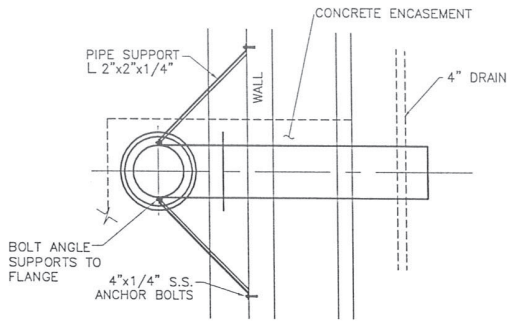
3 MG ROOF REINFORCEMENT

7 & 3 MG RESERVOIRS

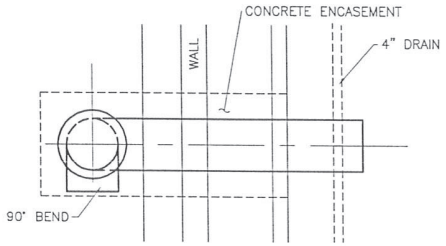
DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 50 OF 59

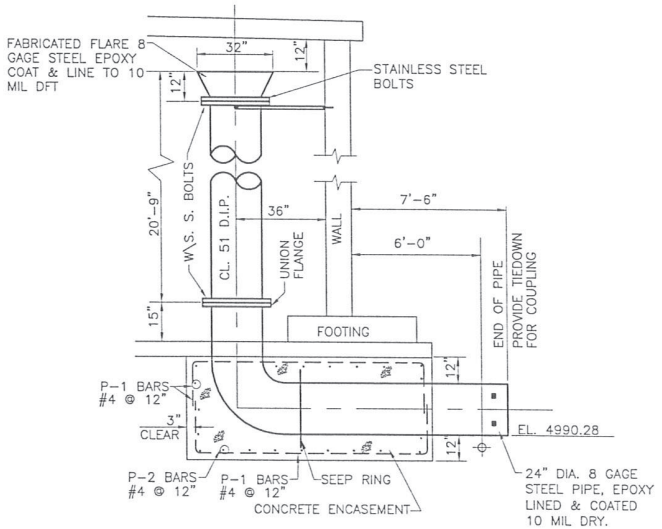
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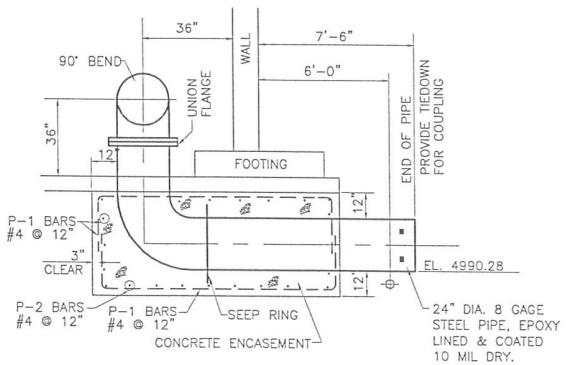
OVERFLOW PLAN



INLET PLAN



B — OVERFLOW DETAILS



C — INLET SECTION

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HEBER CITY, UTAH 84032
(435) 654-6600

0 1"

BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

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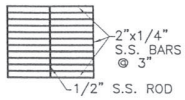
3 MG PIPE DETAILS

7 & 3 MG RESERVOIRS

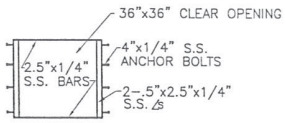
DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 51 OF 59

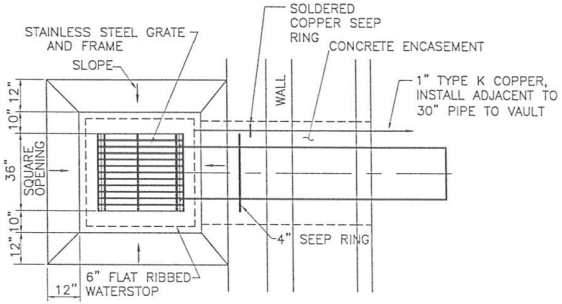
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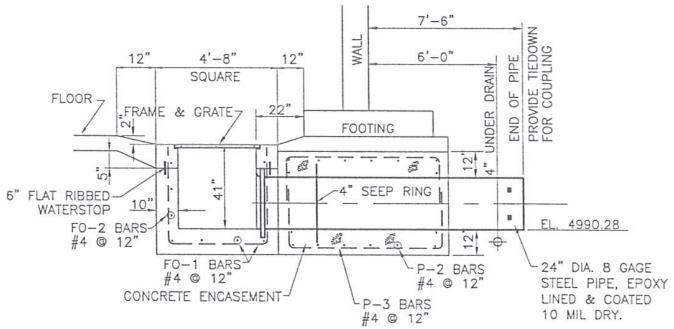
GRATE DETAIL



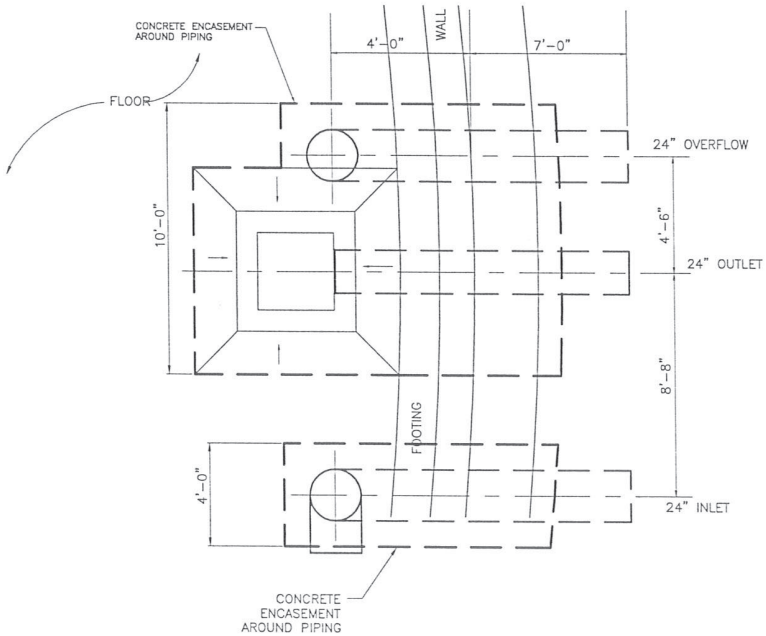
GRATE FRAME



OUTLET PLAN



A — 24" OUTLET DETAILS



C/42 OUTLET SUMP PLAN

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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO.	DATE	REV. BY	ISSUE

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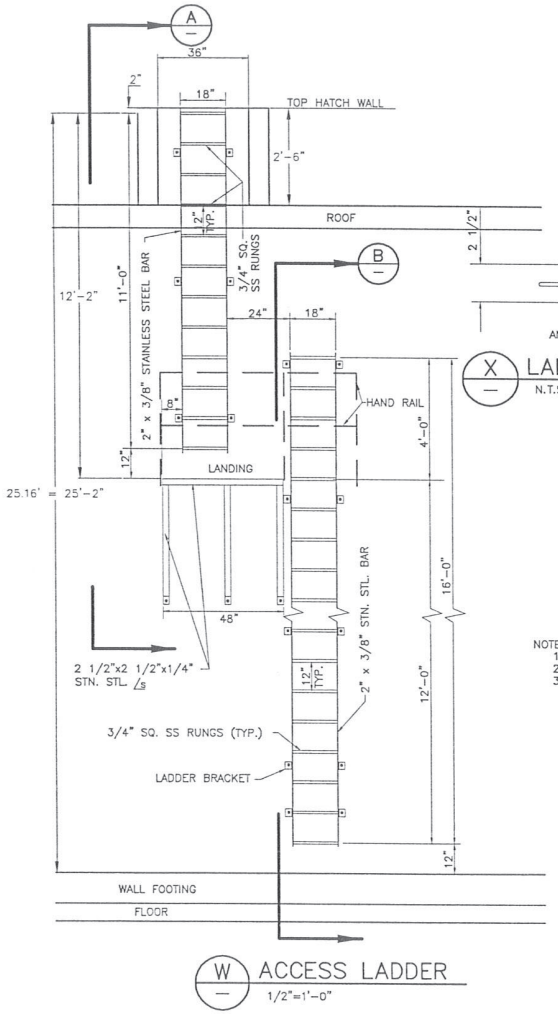
3 MG PIPE DETAILS

7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

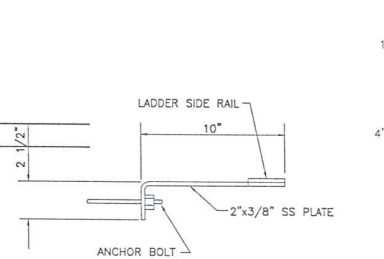
SHEET 52 OF 59

N:\PROJ\9802-DRAPER-IRR\117-3MG-TANK\dwg\-SHEETS\3MG PIPING-2.DWG, 7-18-01, DKD



W ACCESS LADDER

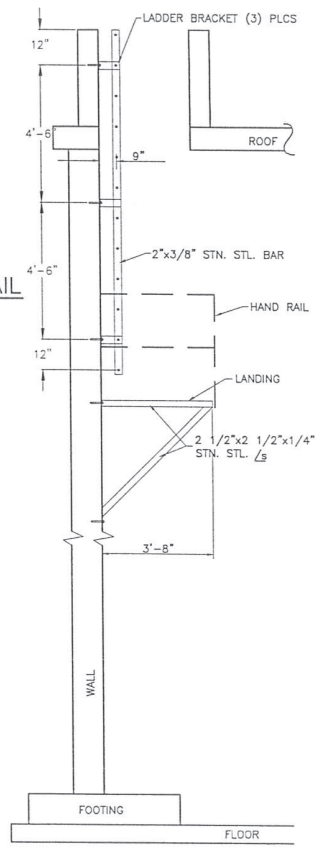
1/2"=1'-0"



X LADDER BRACKET DETAIL

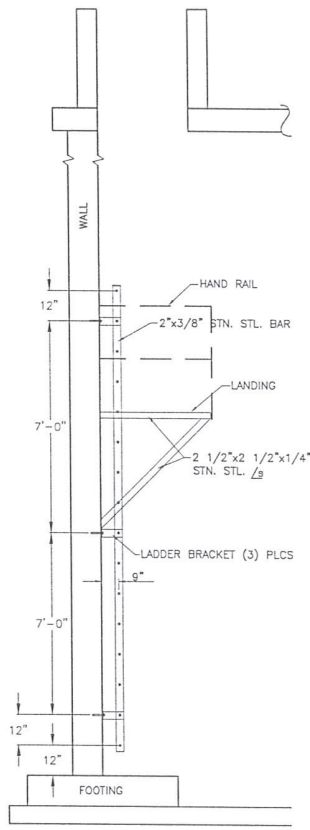
N.T.S.

NOTES:
1. ALL METALS TO BE STAINLESS STEEL.
2. WELD ALL JOINTS.
3. ANCHOR BOLTS 5/8"ø x 6" STN. STL.



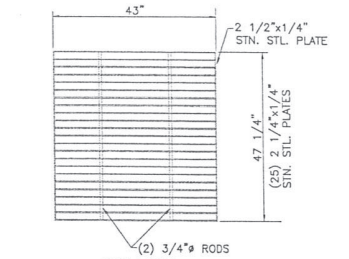
A UPPER ELEVATION

1/2"=1'-0"



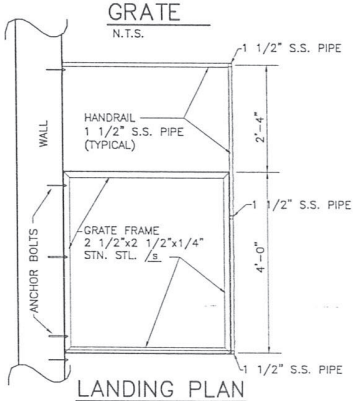
B LOWER ELEVATION

1/2"=1'-0"



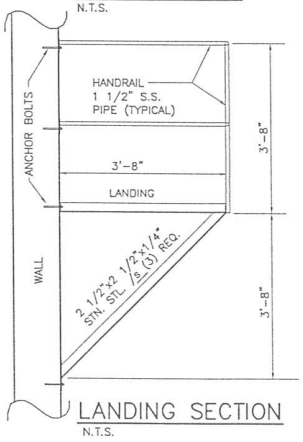
GRATE

N.T.S.



LANDING PLAN

N.T.S.



LANDING SECTION

N.T.S.

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SALT LAKE CITY, UTAH 84118
(801) 955-5605
175 NORTH MAIN, STE 104
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0 1"

BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE

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3 MG LADDER DETAIL

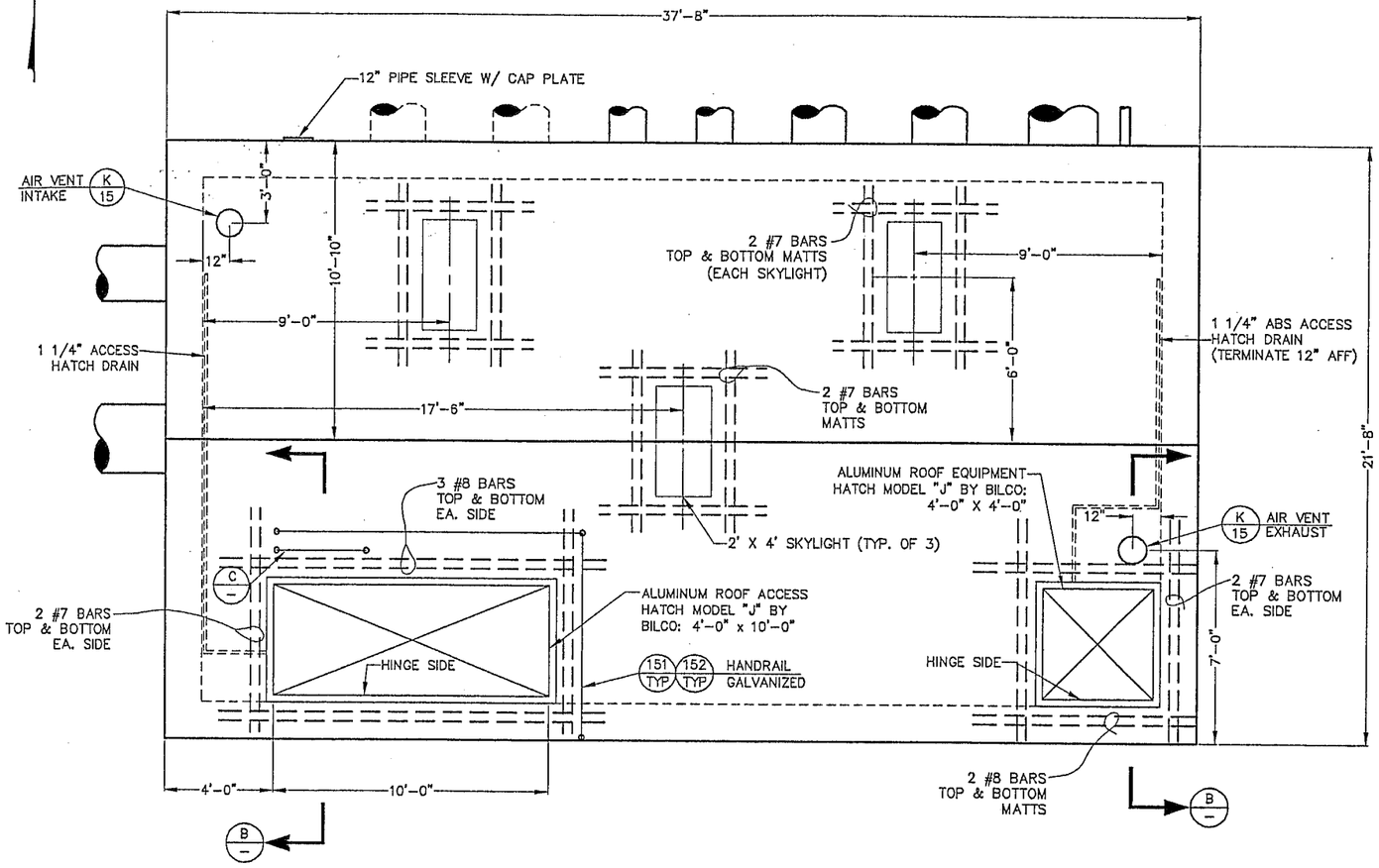
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	GJ
REVIEWED	PROJECT NO
DIO	9802-117

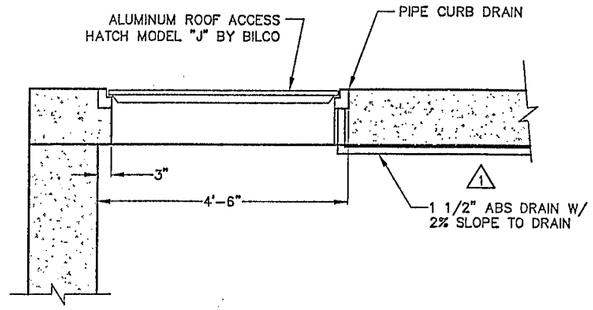
SHEET 53 OF 59

N:\PRO\9802-DRAPER-IRR\117-3MG-TANK\dwg\=SHEETS\3MG LADDER.DWG 7-18-01 DIO

SELECTED WATERPRO METER VAULT RECORD DRAWINGS
2003

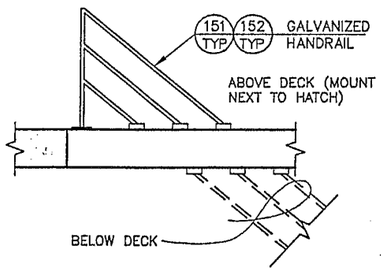


A ROOF LAYOUT
SCALE: 3/8" = 1'-0"



NOTE: REBAR NOT SHOWN.

B ACCESS HATCH DETAIL
SCALE: 3/4" = 1'-0"



C HANDRAIL DETAIL
NTS

WARNING
THIS DRAWING APPROXIMATELY ONE-HALF ORIGINAL SCALE

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D 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	ASBUILT

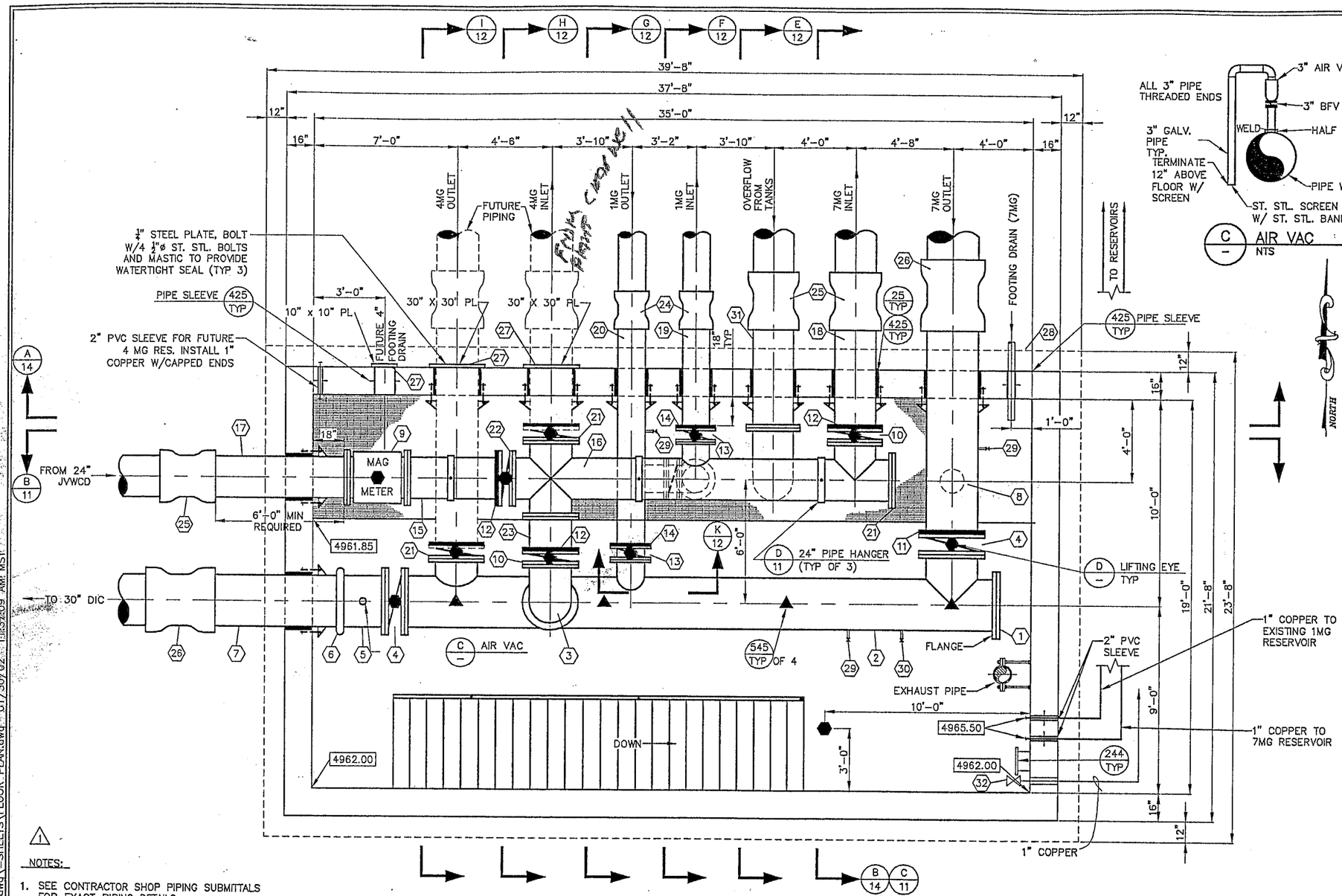
Draper Irrigation
12421 SOUTH 800 EAST
DRAPER, UT 84020
(801) 571-2232

7 MG VALVE VAULT
ROOF PLAN
7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 9 OF 59

N:\PROJ\9802-DRAPER-IRR\117-VALVEVAULT\dwg\=SHEETS\ROOF.dwg 03/27/02 10:38:07 AM MST



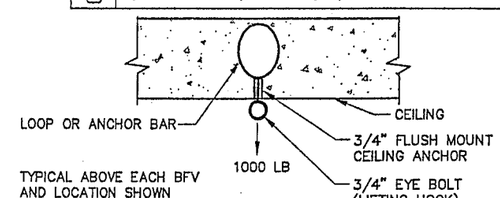
C — AIR VAC
NTS

EQUIPMENT SCHEDULE	
MARK	EQUIPMENT
1	30" BLIND FLANGE
2	30" FABRICATED STEEL HEADER
3	24" FL 90° BEND
4	30" FL BUTTERFLY VALVE
5	30" FL X GROOVED FABRICATED PIPE SPOOL
6	30" GROOVED COUPLING
7	30" GROOVED X PE STEEL PIPE X 6'-0" LONG WITH THRUST RETRAINTS (W/ DI OD END)
8	30" X 30" X 14" FABRICATED HEADER GROOVED X PE X FL W/TAP & THRUST RESTRAINT (W/ DI OD END)
9	24" FL MAG METER
10	24" FL BUTTERFLY VALVE
11	30" GROOVED FL ADAPTER
12	24" GROOVED FL ADAPTER
13	16" FL BUTTERFLY VALVE
14	16" GROOVED FL ADAPTER
15	24" FL X GE PIPE X 4'-6" LONG
16	24" FABRICATED STEEL HEADER
17	24" FL X PE X 5'-0" LONG STEEL PIPE W/THRUST RESTRAINTS (W/ DI OD END)
18	24" GE X PE X 5'-0" LONG STEEL PIPE W/THRUST RESTRAINTS (W/ DI OD END)
19	16" GE X PE X 5'-0" LONG STEEL PIPE W/THRUST RESTRAINTS (W/ DI OD END)
20	16" X 16" X 14" FABRICATED HEADER GROOVED X PE X FL W/TAP & THRUST RESTRAINT (W/ DI OD END)
21	24" BLIND FLANGE
22	24" FL BUTTERFLY VALVE W/ELECTRIC MOTOR OPERATOR
23	24" FL X GE PIPE SPOOL
24	16" MJ LONG SLEEVE
25	24" MJ LONG SLEEVE
26	30" MJ LONG SLEEVE
27	1/4" STEEL PLATE
28	4"ø X 3'-0 LONG SCH. 40 STEEL PIPE
29	3/4" HALF COUPLING W/ BRASS REDUCER & ST. STL NO THREAD SAMPLE TAP
30	2" HALF COUPLING W/ 2" BALL VALVE & THREADED HOSE CONNECTOR
31	24" FL X PE X 5'-0" LONG STEEL PIPE W/THRUST RESTRAINTS (W/ DI OD END)
32	3/4" HOSE BIB (3'-0" AFF) W/30' OF HEAVY DUTY HOSE

NOTES:

1. SEE CONTRACTOR SHOP PIPING SUBMITTALS FOR EXACT PIPING DETAILS.

1 A — FLOOR & PIPE LAYOUT
SCALE: 3/8" = 1'-0"



D — LIFTING EYE
SCALE: NTS

WARNING
THIS DRAWING APPROXIMATELY ONE-HALF ORIGINAL SCALE

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E2 Epic Engineering, P.C.
2880 WEST 4700 SOUTH, STE D, SALT LAKE CITY, UTAH 84118, (801) 955-5605
175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	ASBUILT

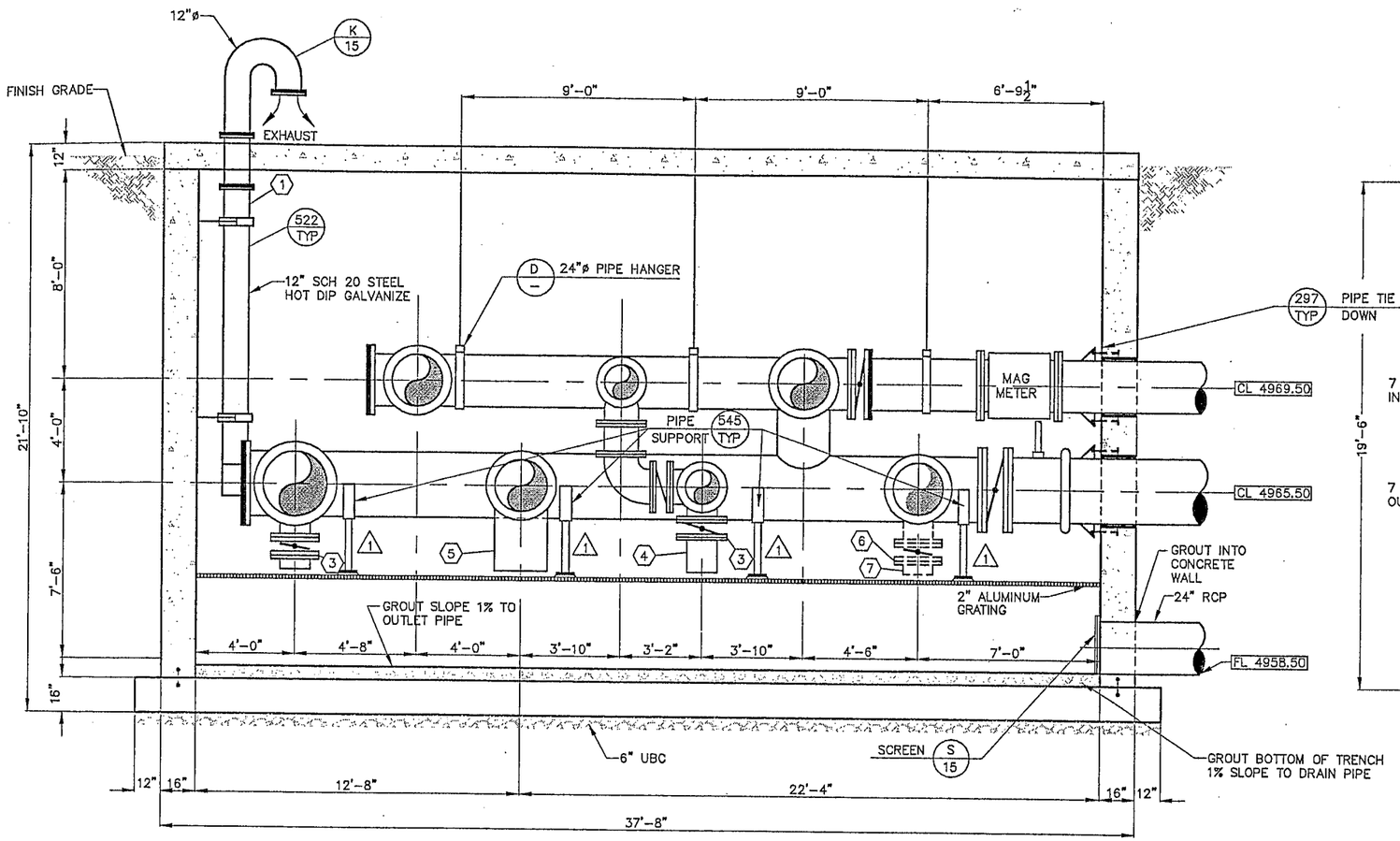
Draper Irrigation
12421 SOUTH 800 EAST
DRAPER, UT 84020
(801) 571-2232

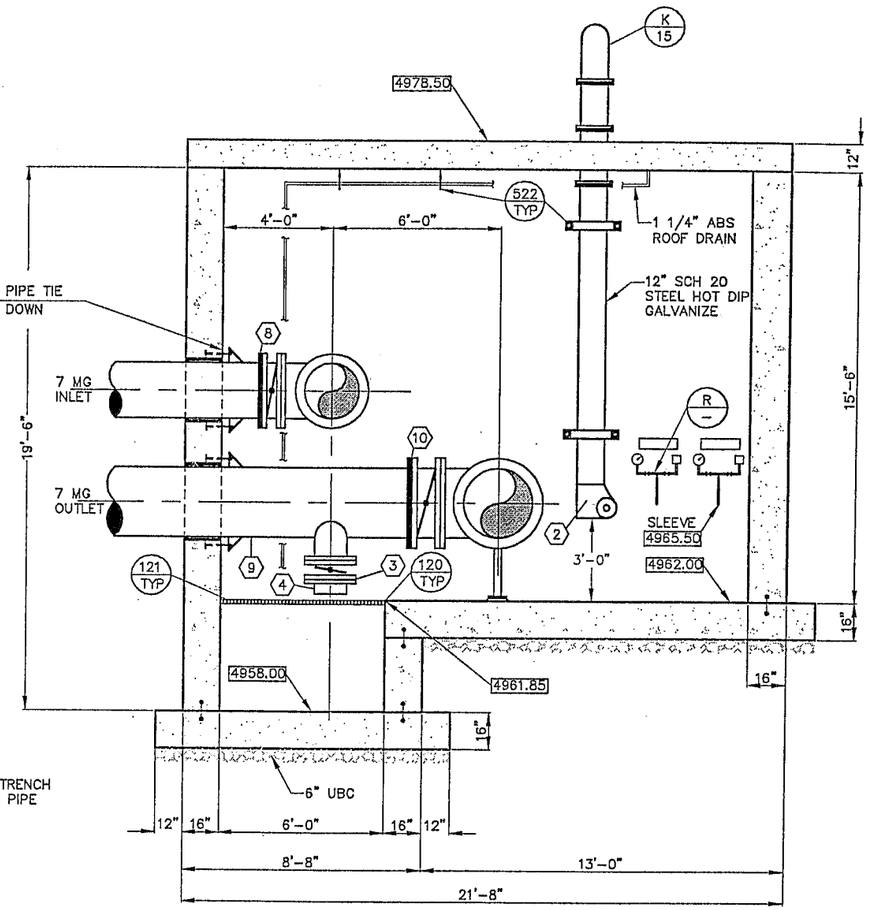
7MG VALVE VAULT BASEMENT FLOOR PLAN
7 & 3 MG RESERVOIRS

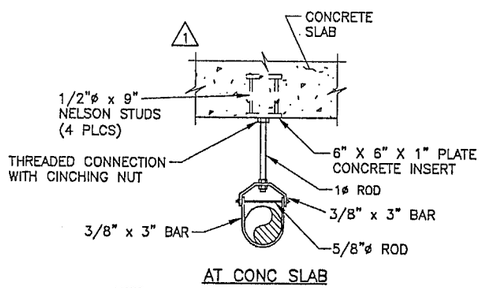
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 10 OF 59

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AT CONC SLAB

NOTE:
1. ALL MATERIALS SHALL BE HOT-DIP GALVANIZED.

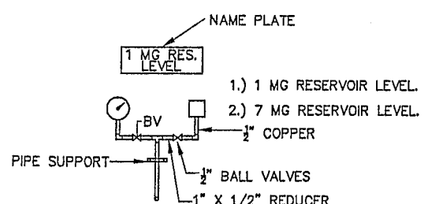
D — 24"ø PIPE HANGER
(TYPICAL OF 3)

B / 10 PIPE ELEVATIONS
SCALE: 3/8" = 1'-0"

⚠1 NOTES:
1. SEE CONTRACTOR SHOP PIPING SUBMITALS FOR EXACT PIPING DETAILS

EQUIPMENT SCHEDULE	
MARK	DESCRIPTION
1	12"ø SCH. 20 STEEL PIPE
2	EXHAUST FAN MOUNTED TO 12"ø PIPE
3	14" FL BUTTERFLY VALVE
4	14" FL x PE STEEL PIPE
5	24" STEEL PIPE OVERFLOW WITH FL 90° BEND
6	14" FL BUTTERFLY VALVE (FUTURE)
7	14" FL x PE STEEL PIPE (FUTURE)
8	24" GROOVED FL ADAPTER
9	30" GE X PE X 6'-0" LONG STEEL PIPE W/THRUST RESTRAINTS
10	30" GROOVED FL ADAPTER

C / 10 PIPE ELEVATIONS
SCALE: 3/8" = 1'-0"



R / — RESERVOIR LEVEL DETAIL

WARNING
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NO. 169278
DON T. OLSEN
STATE OF UTAH

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SALT LAKE CITY, UTAH 84118
(801) 955-5605
175 NORTH MAIN, STE 104
HEBER CITY, UTAH 84032
(435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

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1	11/13/03	TJW	AS-BUILT

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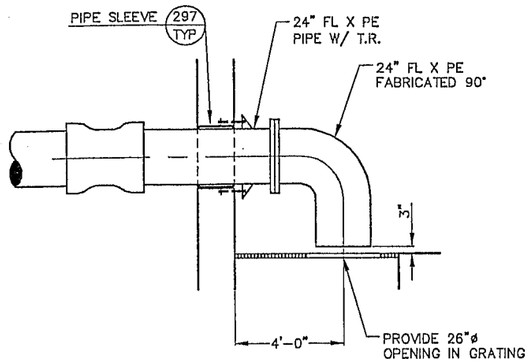
7 MG VALVE VAULT BUILDING SECTIONS

7 & 3 MG RESERVOIRS

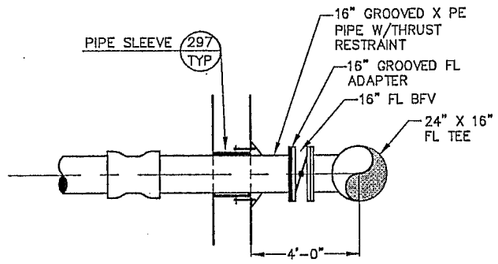
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 11 OF 59

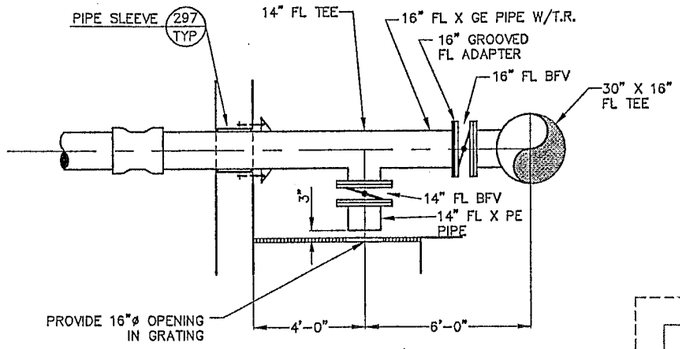
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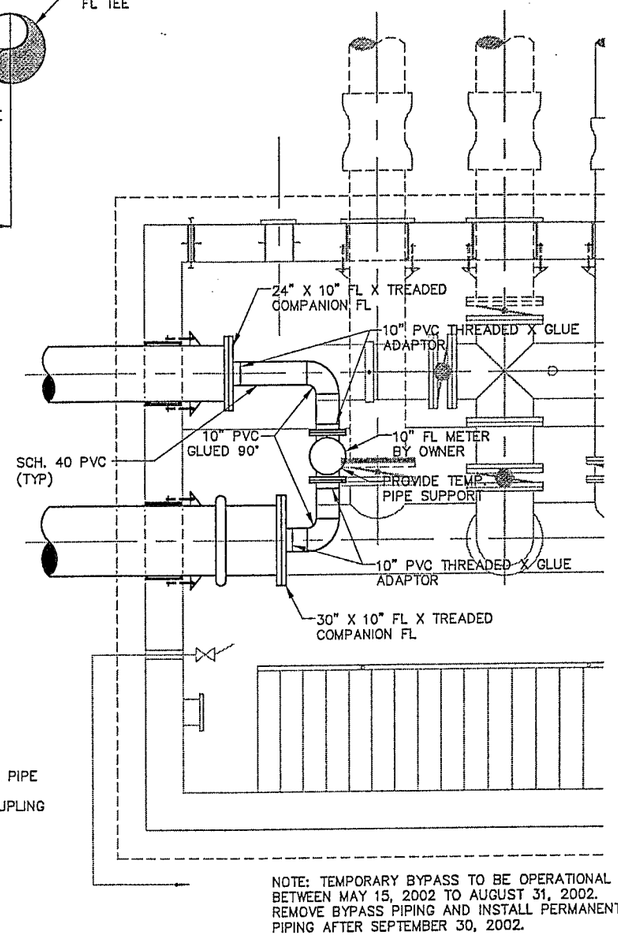
E 10 PIPE DETAIL
SCALE: 3/8" = 1'-0"



F 10 PIPE DETAIL
SCALE: 3/8" = 1'-0"

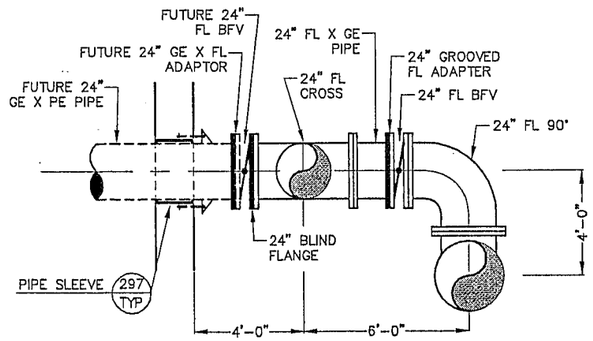


G 10 PIPE DETAIL
SCALE: 3/8" = 1'-0"

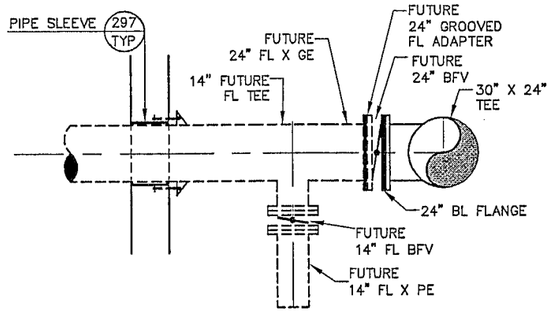


NOTE: TEMPORARY BYPASS TO BE OPERATIONAL BETWEEN MAY 15, 2002 TO AUGUST 31, 2002. REMOVE BYPASS PIPING AND INSTALL PERMANENT PIPING AFTER SEPTEMBER 30, 2002.

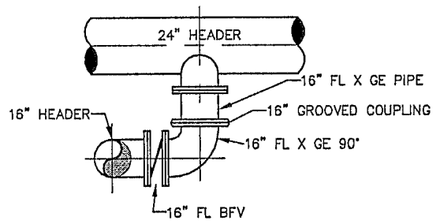
A — TEMPORARY BYPASS PIPING
SCALE: 3/8" = 1'-0"



H 10 PIPE DETAIL
SCALE: 3/8" = 1'-0"



I 10 PIPE DETAIL
SCALE: 3/8" = 1'-0"



K 10 PIPE DETAIL
SCALE: 3/8" = 1'-0"

WARNING
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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
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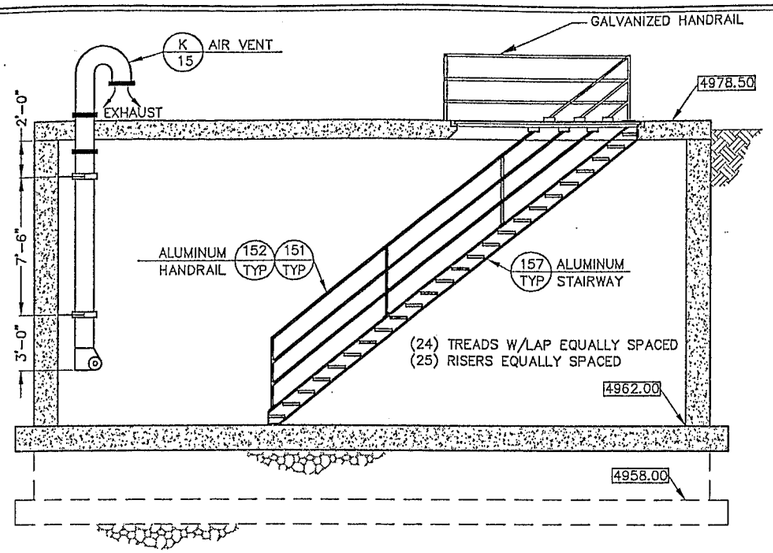
Draper Irrigation
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DRAPER, UT 84020
(801) 571-2232

7 MG VALVE VAULT
PIPE SECTIONS
7 & 3 MG RESERVOIRS

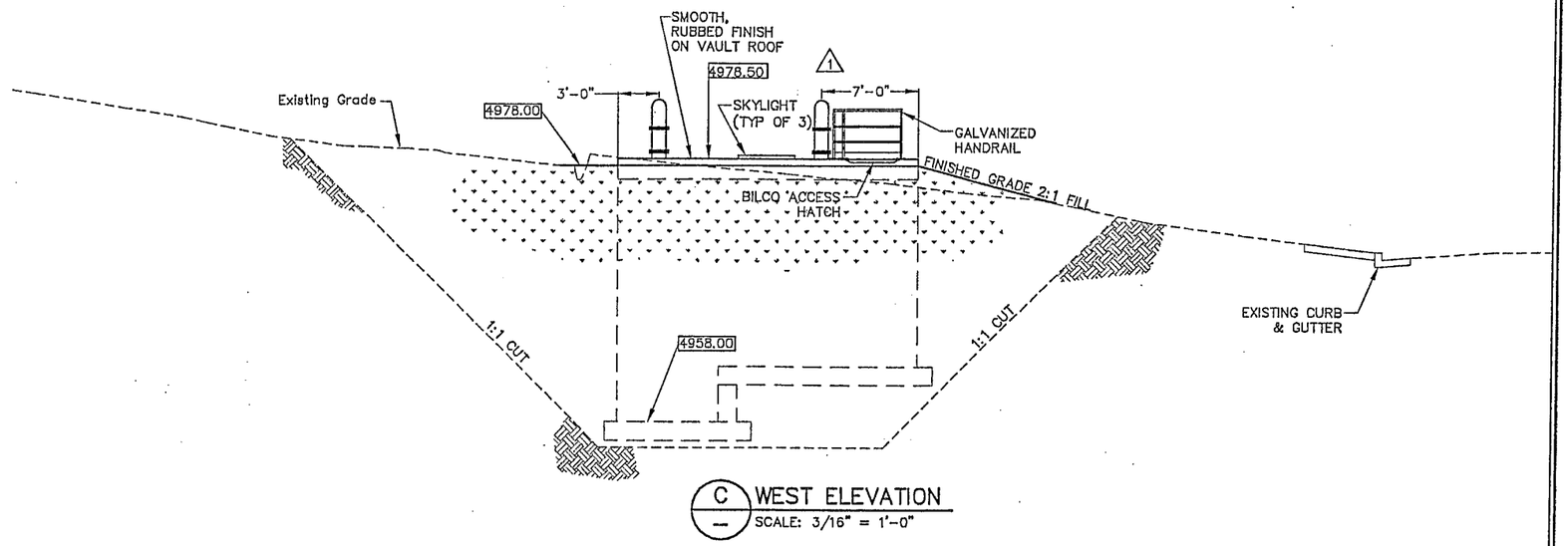
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 12 OF 59

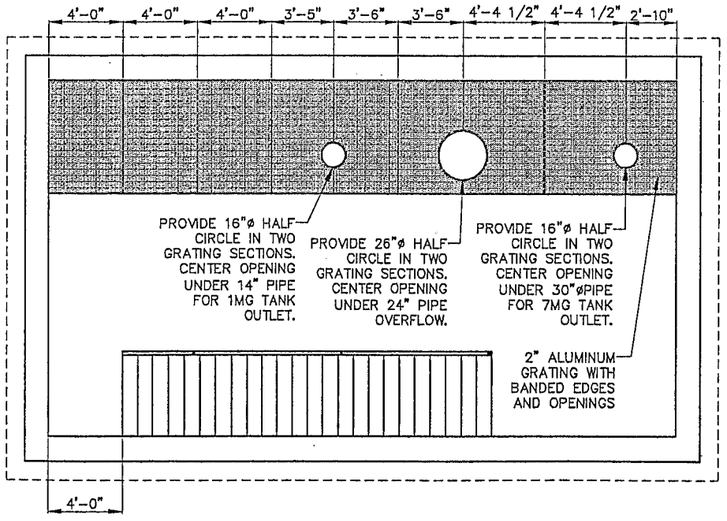
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A STAIR ELEVATION
SCALE: 1/4" = 1'-0"

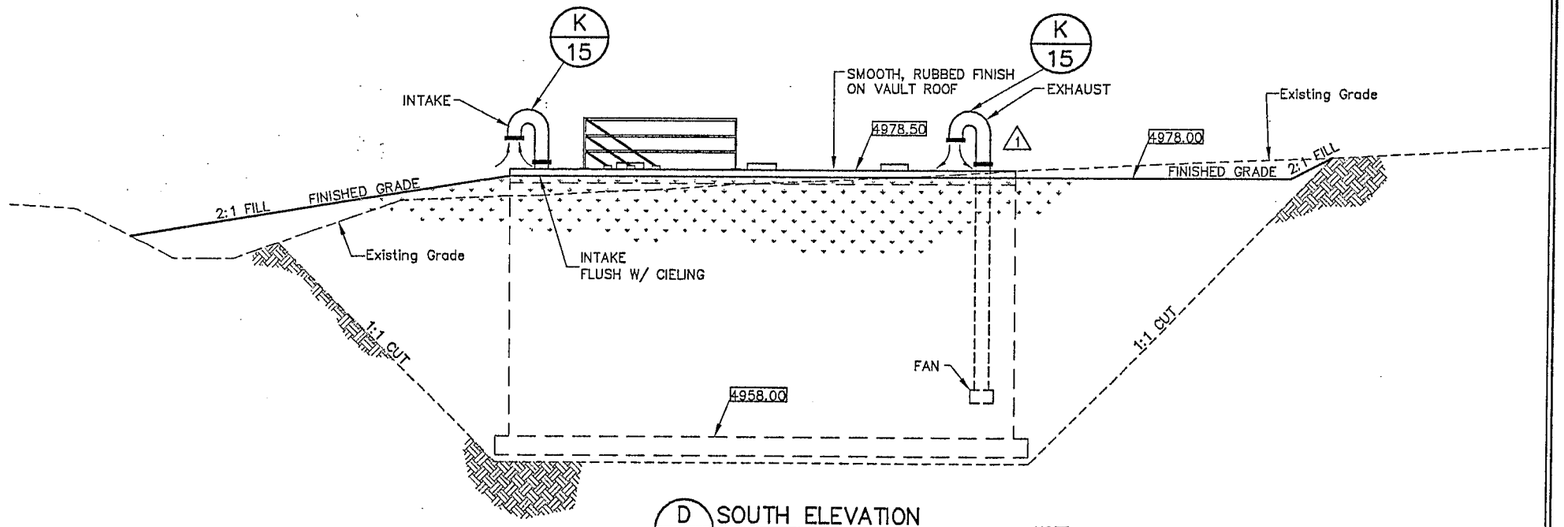


C WEST ELEVATION
SCALE: 3/16" = 1'-0"



B GRATING PLAN
SCALE: 1/4" = 1'-0"

NOTES:
1. ALL SECTION 6'-1 7/8" WIDE
2. GRATING SECTIONS SHALL BE CLAMPED TOGETHER



D SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

NOTE:
1. HANDRAIL KICKPLATE NOT SHOWN FOR CLARITY.

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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	AS-BUILT

Draper Irrigation
12421 SOUTH 800 EAST
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(801) 571-2232

7 MG VALVE VAULT ELEVATIONS
7 & 3 MG RESERVOIRS

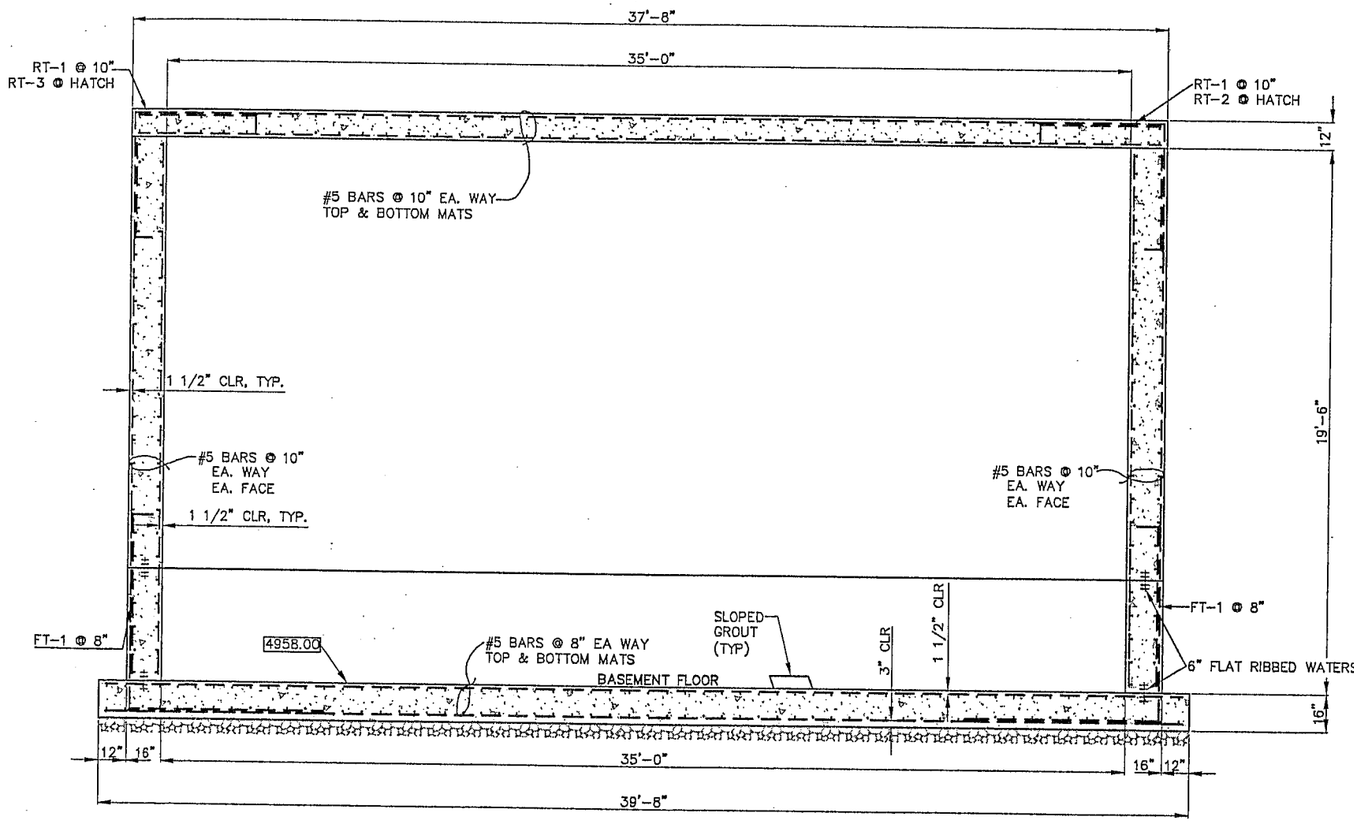
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117
SHEET	
13 OF 59	

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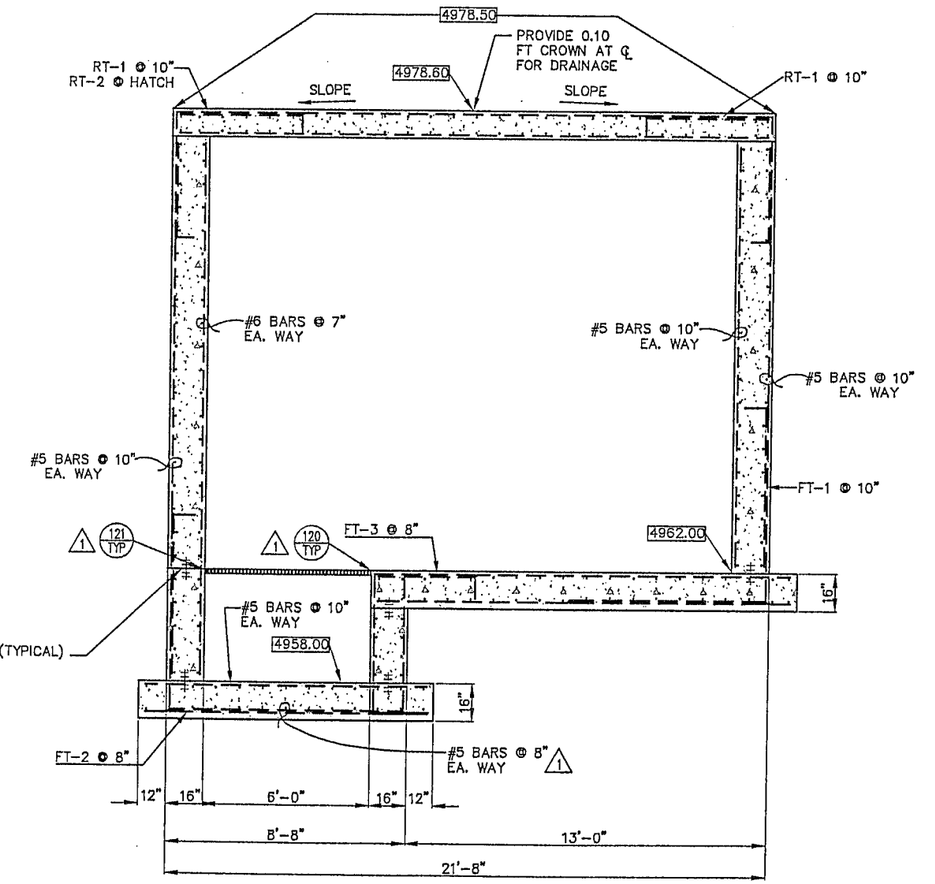
RE-BAR SCHEDULE

BAR	SIZE	NO.	DIMENSIONS	BAR	SIZE	NO.	DIMENSIONS
RT-1	#5	112	54" 8" 8" 54"	FT-1	#5	104	10" 7'-0" 7'-0"
RT-2	#5	17	13" 54" 8" 8"	FT-2	#5	55	10" 7'-0" 43" 8'-5"
RT-3	#5	5	45" 8" 54" 8"	FT-3	#5	55	44" 10" 59" 24"

ALL BARS TO BE EPOXY COATED
ALL LAPS TO BE CLASS 'B'



A 10 STRUCTURAL DETAIL
SCALE: 3/8" = 1'-0"



B 10 STRUCTURAL DETAIL
SCALE: 3/8" = 1'-0"

WARNING
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REGISTERED PROFESSIONAL ENGINEER NO.161278 DON T. OLSEN STATE OF UTAH

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175 NORTH MAIN, STE 104 HEBER CITY, UTAH 84032 (435) 654-5600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
NO	DATE	REV. BY	ISSUE
1	11/13/03	TJW	AS-BUILT

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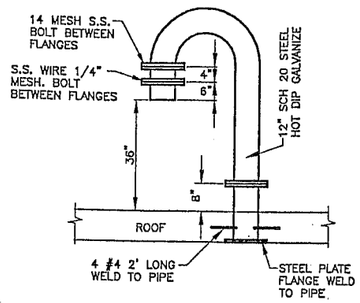
7 MG VALVE VAULT CONCRETE REINFORCEMENT

7 & 3 MG RESERVOIRS

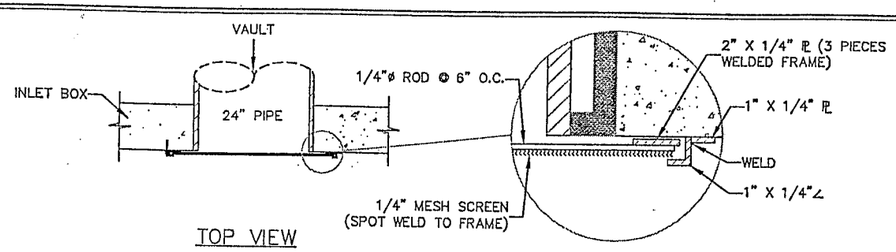
DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET *14* OF *59*

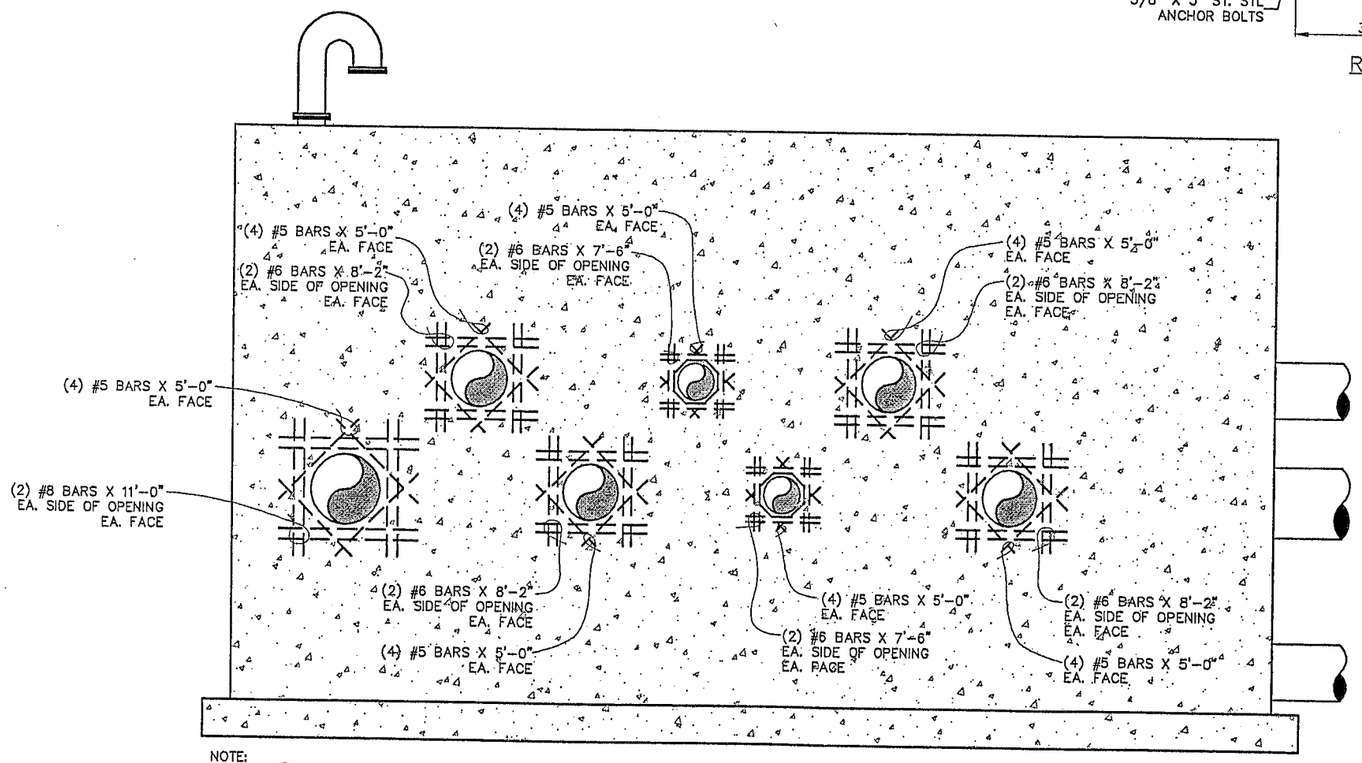
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K 11|9 AIR VENT
SCALE: NTS

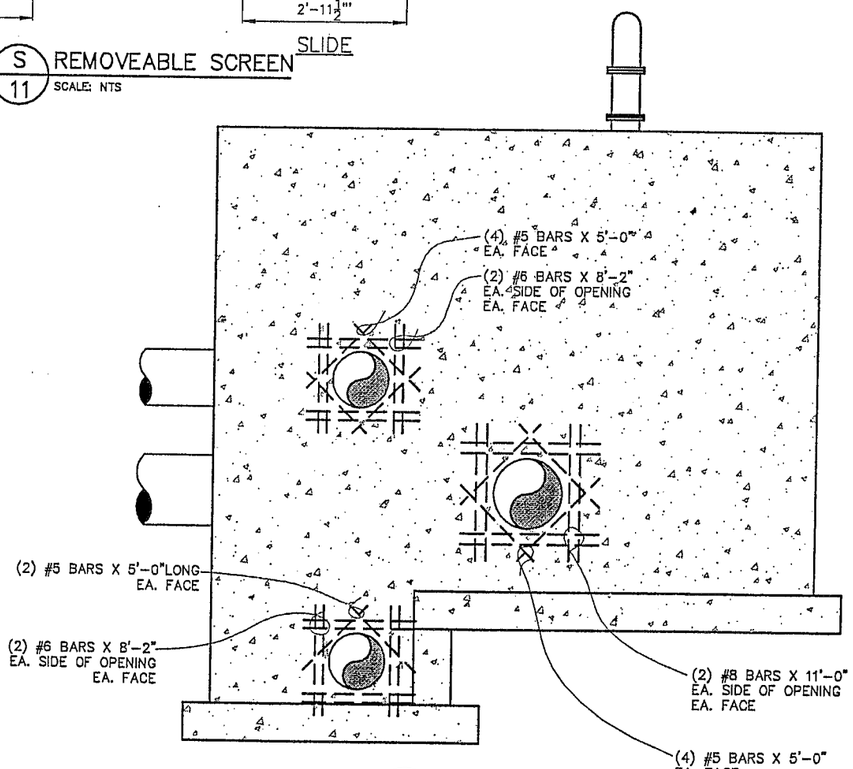


S 11 REMOVEABLE SCREEN
SCALE: NTS



NOTE:
1. SEE (25 TYP) FOR PLACEMENT OF OPENING REINFORCEMENT.

A — NORTH WALL REBAR
SCALE: 3/8" = 1'-0"



B — WEST WALL REBAR
SCALE: 3/8" = 1'-0"

WARNING
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175 NORTH MAIN, STE 104, HEBER CITY, UTAH 84032, (435) 654-6600

0 1"
BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST ACCORDINGLY FOR A HALF SIZE SHEET.

REVISION			
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7 MG VALVE VAULT REINFORCEMENT AT WALL OPENINGS

7 & 3 MG RESERVOIRS

DESIGNER	CAD
DIO	RDD
REVIEWED	PROJECT NO
DIO	9802-117

SHEET 15 OF 59

N:\PROJ\9802-DRAPER-IRR\117-VALVEVAULT\dwg\=SHEETS\WALL REBAR.dwg 03/25/2002 11:52:37 AM MST