CITY OF ALBUQUERQUE
GRIEGOS AND THOMAS RESERVOIRS
WATER SYSTEM REHABILITATION

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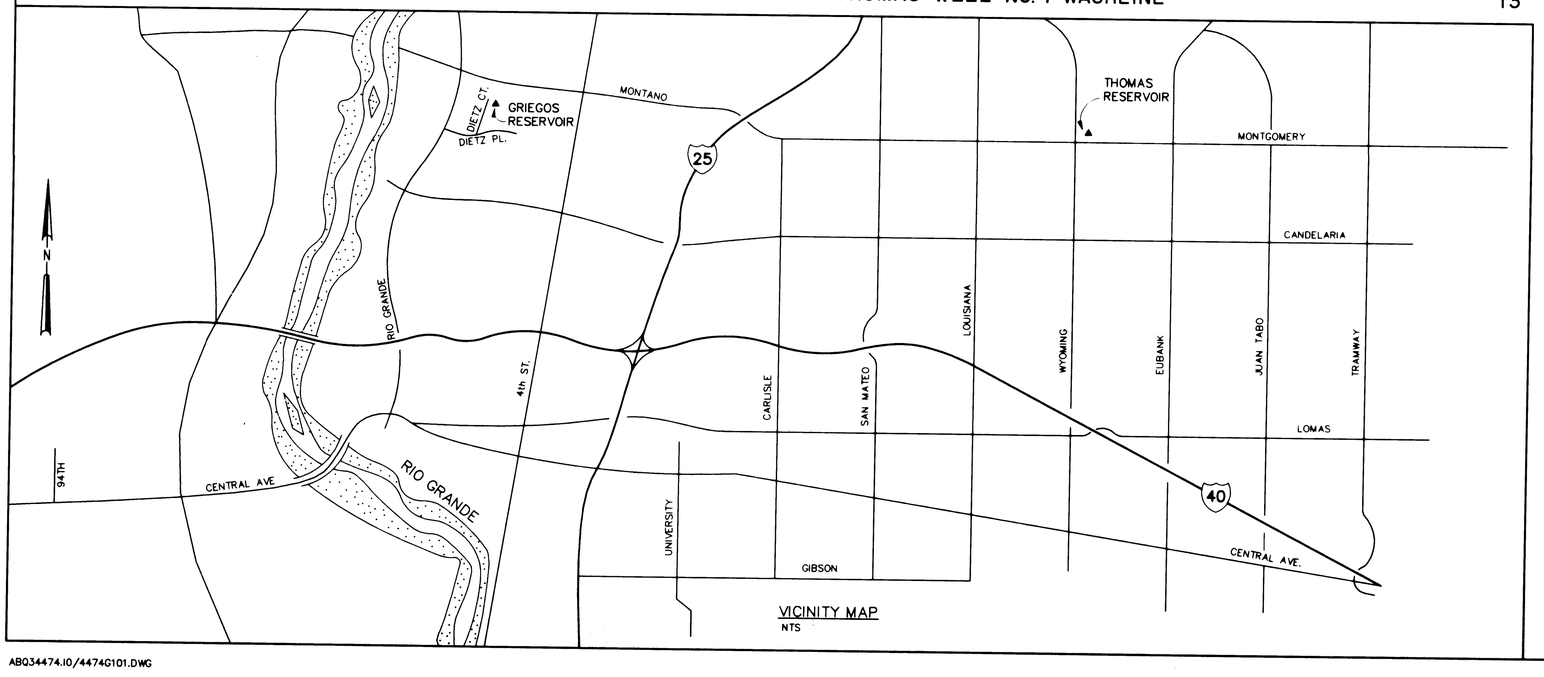

VICINITY MAP
NTS

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/24/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94

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26 4366.930194

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT	DATE	USER DEPT	DATE
APPROVAL OF REVISIONS							

MARK G. NANNINGA JR. 11488 NEW MEXICO PROFESSIONAL ENGINEER

CH2M HILL
6121 Indian School Rd, NE
Suite 122
Albuquerque, New Mexico
87110
(505) 884-5600

APPROVED FOR CONSTRUCTION
7-14-93 CE

PROJECT NO. 4366.93

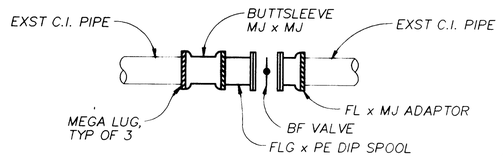
SHEET 1 OF 13

SCANNED BY ASON

AB034474.10/4474G101.DWG

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, PIPE SIZES AND TYPES PRIOR TO FABRICATION. SOME INTERFERENCES MAY EXIST BETWEEN NEW AND EXISTING MATERIALS. CONSULT ENGINEER FOR RESOLUTION OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL TAKE PRECAUTIONS SO AS NOT TO DAMAGE EXISTING FACILITIES, EQUIPMENT AND LANDSCAPING DURING CONSTRUCTION. ANY DAMAGE DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE SOLE COST OF THE CONTRACTOR. NOT ALL UTILITIES ARE SHOWN.
3. SITE PLAN LAYOUT SHOWING EXISTING LOCATIONS OF FACILITIES WAS DEVELOPED FROM ORIGINAL CONSTRUCTION DRAWINGS AND IN SOME CASES MORE RECENT INFORMATION AVAILABLE AT THE TIME OF DEVELOPMENT OF THESE DRAWINGS. THIS LAYOUT IS PROVIDED FOR GENERAL INFORMATION ONLY. ACTUAL LOCATIONS OF FACILITIES MAY VARY FROM THOSE SHOWN.
4. ITEMS REMOVED AS PART OF DEMOLITION WORK AND NOT SALVAGED BY THE OWNER BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.
5. WHERE NEW WORK CROSSES EXISTING PIPING OR ELECTRICAL CONDUITS THE CONTRACTOR SHALL EXCAVATE BY HAND TO PREVENT DAMAGE OR DISRUPTION TO THE EXISTING FACILITIES.
6. PROVIDE WARNING TAPE FOR ALL BURIED PIPING AND CONDUIT. TAPE SHALL BE PLACED 12" BELOW FINISH GRADE.
7. CONTRACTOR SHALL INSTALL INSULATING FLANGES, COUPLINGS, OR UNIONS WHEREVER TWO DISSIMILAR METAL PIPES ARE CONNECTED.
8. CONTRACTOR SHALL EXCAVATE FOR AND EXPOSE EXST VALVES TO BE REPLACED TO DETERMINE CONFIGURATION PRIOR TO PLACING ORDER FOR NEW VALVES.
9. CONTRACTOR SHALL REMOVE ALL CATHODIC PROTECTION WIRES, ANODES AND CONDUIT. RECTIFIERS SHALL BE LEFT IN PLACE.
10. CONTRACTOR SHALL MAKE MODIFICATIONS TO THE RESERVOIR AS SHOWN AND SHALL COAT INTERIOR AND EXTERIOR SURFACES IN ACCORDANCE WITH THE SPECIFICATIONS.
11. REMOVE AND REPLACE RESERVOIR FLOOR PLATE AS SPECIFIED, SEE 3/6
12. REMOVE ALL SHRUBS AND GRASS FROM THE PERIMETER OF THE RESERVOIR FOR A WIDTH OF 15', UNLESS OTHERWISE SHOWN. GRADE THE AREA AROUND THE TANK FLAT UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES.
13. REPLACE ALL ASPHALT PAVEMENT DISTURBED BY CONSTRUCTION ACTIVITIES. ASPHALT REPLACEMENT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS SECTION 116. ASPHALT REPAIR SHALL MATCH EXISTING PAVEMENT THICKNESS.
14. INSTALL A 1" GALV STL CONDUIT W/2 600V 16 GAUGE TWISTED SHIELDED PAIR (1 SPARE) FROM THE WATERPROOF BOX ON TOP OF RESERVOIR, AS SHOWN ON TO THE EXST RTUTB. CONDUIT FROM PUMP STATION TO STAIRWAY SHALL BE POLYWRAPPED AND BURIED 3' MIN. CONDUIT ROUTING WITHIN PUMP STATION SHALL BE DETERMINED BY OWNER. PROVIDE J-BOXES AS NECESSARY.
16. INSTALL A 3/4" SOFT COPPER TYPE K WATERLINE FROM RESERVOIR TO NEW RSVR PRESSURE TRANSDUCER IN THE PUMP STATION. 3' MIN BURIAL DEPTH.
17. EXST PIPES INTO STORAGE BLDG. SHALL BE CUT OFF FLUSH WITH EXTERIOR SURFACE OF THE WALL AND PORTIONS PENETRATING THROUGH THE WALL SHALL BE FILLED WITH GROUT AND FINISHED TO MATCH EXISTING SURFACE.
18. ALL BURIED VALVES SHALL BE INSTALLED WITH VALVE BOXES IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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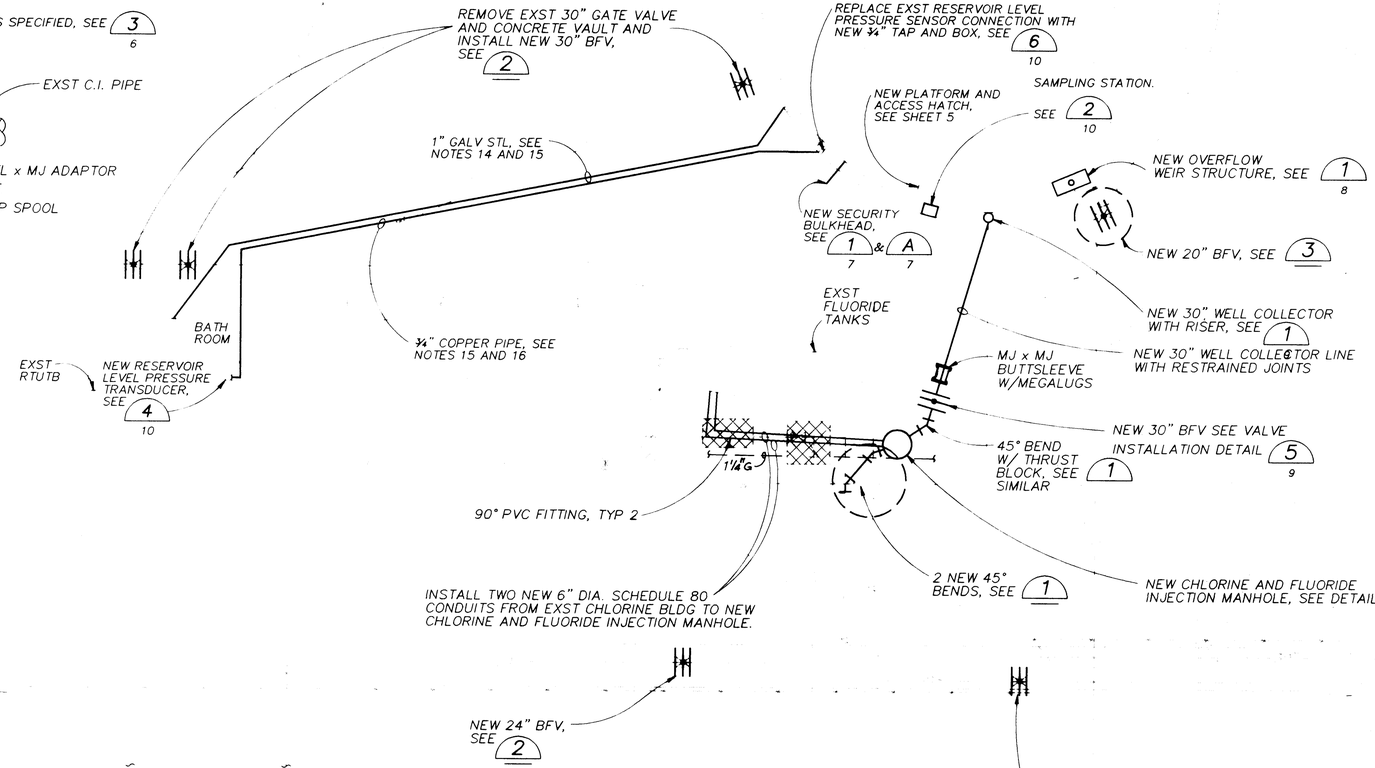
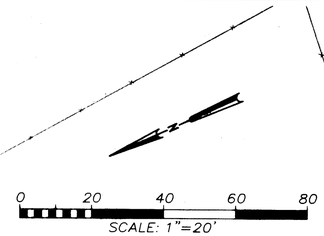
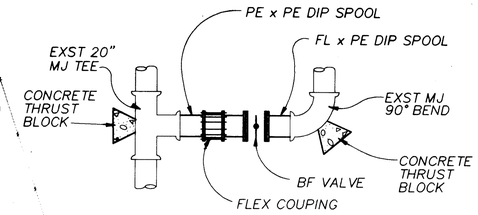






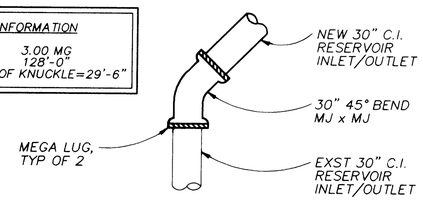
DETAIL 3
NTS

ABBREVIATIONS

@	AT
BRG	BEARING
C	CHANNEL
CCP	CONCRETE CYLINDER PIPE
CI	CAST IRON PIPE
℄	CENTERLINE
CONT	CONTINUOUS
CPLG	COUPLING
DIA	DIAMETER
DI	DUCTILE IRON PIPE
DN	DOWN
EA	EACH
EF	EACH FACE
EW	EACH WAY
EXST	EXISTING
FLG	FLANGE
GALV	GALVANIZED
L	ANGLE
MAX	MAXIMUM
MB	MACHINE BOLT
MG	MILLION GALLON
MH	MANHOLE
MIN	MINIMUM
MT	MALE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFE	OWNER FURNISHED EQUIPMENT
PJF	PREMOLDED JOINT FILLER
℗	PLATE
PP	POWER POLE
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
SCH, SCHED	SCHEDULE
SIM	SIMILAR
SST	STAINLESS STEEL
S x S	SOCKET BY SOCKET
STL	STEEL
T&B	TOP AND BOTTOM
TS	TUBE SHAPE
TYP	TYPICAL
V	VOLT
W	WATER
W/	WITH
Ø	DIAMETER

RESERVOIR INFORMATION

CAPACITY 3.00 MG
DIAMETER 128'-0"
HEIGHT TO BOTTOM OF KNUCKLE=29'-6"



DETAIL 1
NTS

LAYOUT PLAN LEGEND

- EXISTING PIPING BELOW GRADE
- EXISTING STRUCTURE
- PROPERTY LINE
- FENCE LINE
- VALVE
- TREES AND SHRUBS

GRIEGOS RESERVOIR - SITE PLAN

1" = 20'-0"

SCANNED BY BY LASON

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94
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CH2M HILL

LASON 1-505-344-9404
BEST COPY AVAILABLE

26 4366.930294

IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
WORK COMPLETED BY DATE
ACCEPTANCE BY DATE
FIELD LOCATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	DESIGNED BY M. BREWER DATE 5/4/93
			DRAWN BY C. O'NEIL DATE 5/4/93
			CHECKED BY B. CROCKETT DATE 7/6/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
GRIEGOS RESERVOIR SITE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 | MAP NO. F-13 | SHEET 2 OF 13

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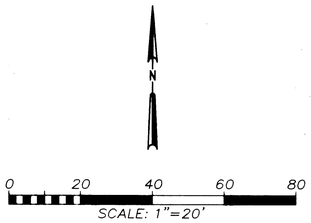
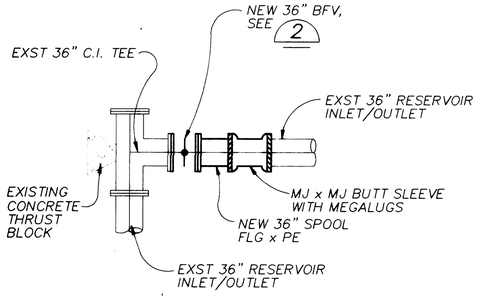
1=20
10-12-94





DETAIL 2
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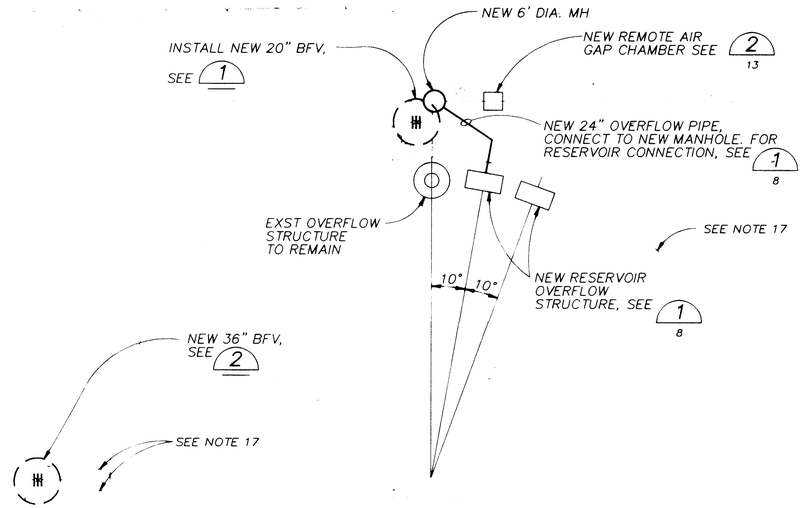

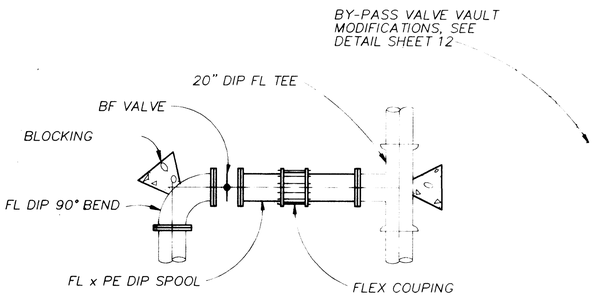

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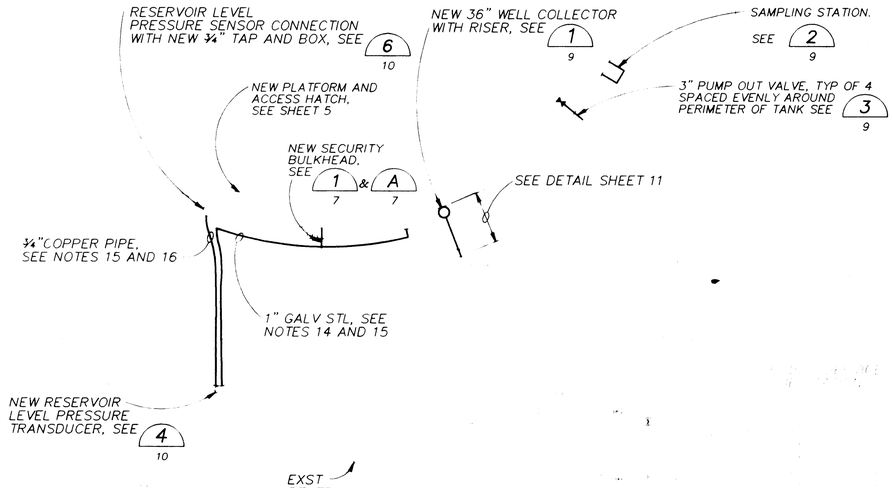

LAYOUT PLAN LEGEND

- EXISTING PIPING BELOW GRADE
- EXISTING STRUCTURE
- PROPERTY LINE
- FENCE LINE
- VALVE
- TREES AND SHRUBS

RESERVOIR INFORMATION
CAPACITY 6.00 MG
DIAMETER 180'-0"
HEIGHT TO BOTTOM OF KNUCKLE=29'-8"

THOMAS RESERVOIR - SITE PLAN

1" = 20'-0"

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

RECORD DRAWINGS
Revisions Drawn by R.GONZALES Date 10/18/94

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14. INSTALL A 1" GALV STL CONDUIT W/2 600V 16 GAUGE TWISTED SHIELDED PAIR (1 SPARE) FROM THE WATERPROOF BOX ON TOP OF RESERVOIR, AS SHOWN ON/TO THE EXST RTUTB. CONDUIT FROM PUMP STATION TO STAIRWAY SHALL BE POLYWRAPPED AND BURIED 3' MIN. CONDUIT ROUTING WITHIN PUMP STATION SHALL BE DETERMINED BY OWNER. PROVIDE J-BOXES AS NECESSARY. 3/5
15. PROVIDE WARNING TAPE FOR BURIED CONDUIT AND PIPING. TAPE SHALL BE PLACED 12" BELOW FINISH GRADE.
16. INSTALL A 3/4" SOFT COPPER TYPE K WATERLINE FROM RESERVOIR TO NEW RSVR PRESSURE TRANSDUCER IN THE PUMP STATION. 3' MIN BURIAL DEPTH.
17. REPAIR SPALLED EDGES OF CONCRETE.
18. ALL BURIED VALVES SHALL BE BE INSTALLED WITH VALVE BOXES IN ACCORDANCE WITH THE CITY OFF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSRUCTION.
19. SEE SHEET 13 FOR THOMAS WELL NO. 1 WASHLINE MODIFICATIONS.

ABBREVIATIONS

@	AT
BRG	BEARING
C	CHANNEL
CCP	CONCRETE CYLINDER PIPE
CI	CAST IRON PIPE
℄	CENTERLINE
CONT	CONTINUOUS
CPLG	COUPLING
DIA	DIAMETER
DI	DUCTILE IRON PIPE
DN	DOWN
EA	EACH
EF	EACH FACE
EW	EACH WAY
EXST	EXISTING
FLG	FLANGE
GALV	GALVANIZED
L	ANGLE
MAX	MAXIMUM
MB	MACHINE BOLT
MG	MILLION GALLON
MH	MANHOLE
MIN	MINIMUM
MT	MALE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFE	OWNER FURNISHED EQUIPMENT
PJF	PREMOLDED JOINT FILLER
ℙ	PLATE
PP	POWER POLE
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
SCH,SCHED	SCHEDULE
SIM	SIMILAR
SST	STAINLESS STEEL
S x S	SOCKET BY SOCKET
STL	STEEL
T&B	TOP AND BOTTOM
TS	TUBE SHAPE
TYP	TYPICAL
V	VOLT
W	WATER
W/	WITH
Ø	DIAMETER

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL

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NO.	DATE	REVISIONS REMARKS	BY
		DESIGN	
		DESIGNED BY M. BREWER	DATE 5/4/93
		DRAWN BY C. O'NEIL	DATE 5/5/93
		CHECKED BY B. CROCKETT	DATE 7/6/93

26 4366.930394

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
THOMAS RESERVOIR SITE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 | MAP NO. F-20 | SHEET 3 OF 13

CH2MHILL

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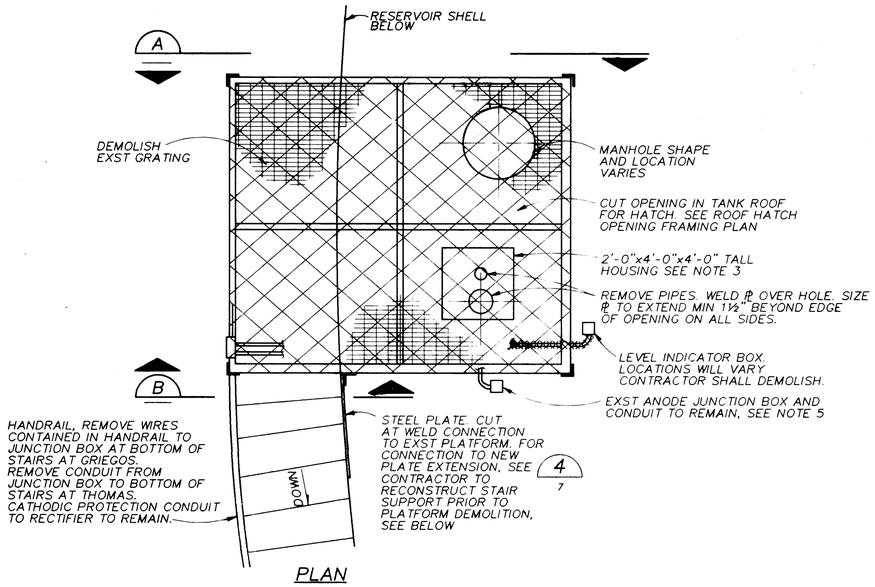
10-12-94

10-12-94 34474S01.DWG



PLAN

NOTES:

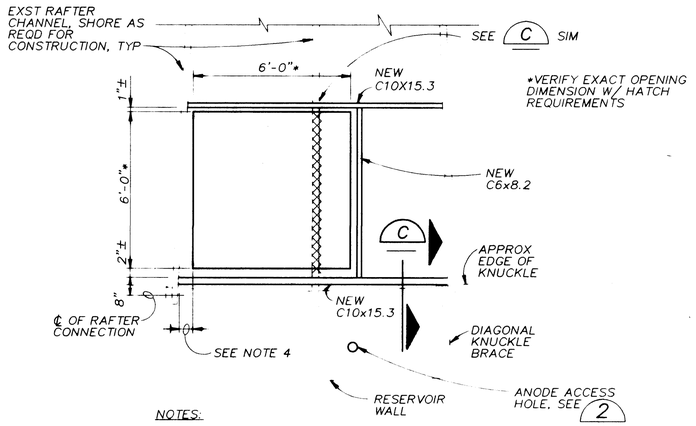
1. SIZE AND CONFIGURATION OF EXISTING ROOF PLATFORMS WILL VARY. CONTRACTOR SHALL VISIT SITE AND INCLUDE IN HIS DEMOLITION COSTS VARIATIONS IN SIZE AND CONFIGURATION OF PLATFORMS.
2. CONTRACTOR TO GRIND ALL FLAME CUT EDGES ON RESERVOIR FLUSH WITH SHELL.
3. CONTRACTOR SHALL REMOVE HOUSING AND INSTRUMENTATION.
4. CONTRACTOR SHALL SEAL ALL HOLES IN RESERVOIR ROOF WITH ¼" STEEL PL SEAL WELDED TO ROOF. FOR ANODE ACCESS OPENINGS AND INSULATOR SUPPORT HOLES SEE 2/6
5. EXST CATHODIC PROTECTION CONDUIT FROM RESERVOIR TO RECTIFIER SHALL REMAIN. ACTUAL LOCATIONS WILL VARY. CONTRACTOR SHALL VERIFY.
6. STAIR SHOWN IS FOR THOMAS. STAIR AT GRIEGOS IS LOCATED ON OPPOSITE SIDE OF PLATFORM.

RESERVOIR ROOF PLATFORM DEMOLITION PLAN

NTS

LEGEND

ITEMS NOTED FOR DEMOLITION



NOTES:

1. CONTRACTOR SHALL NOT CUT MORE THAN ONE RAFTER FOR ROOF OPENING. HATCH LOCATION SHALL BE SHIFTED BY CONTRACTOR AS REQUIRED FOR RAFTER CLEARANCE.
2. ROOF OPENING LOCATION SHOWN FOR MINIMUM RAFTER CLEARANCES ONLY. OPENING LOCATION WILL VARY AT EACH RESERVOIR.
3. ROOF OPENING SHALL NOT BE CUT INTO KNUCKLE AREA OF RESERVOIR. TEMPORARILY SUPPORT ROOF RAFTERS AS REQUIRED.
4. 6" MINIMUM. IF THIS DIMENSION EXCEEDS 1'-0", THEN PROVIDE C6x8.2 SUPPORT SIMILAR TO CHANNEL AT OPPOSITE SIDE OF OPENING.

ROOF HATCH OPENING FRAMING PLAN

NTS

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER [signature]
DATE 11/22/96

RECORD DRAWINGS
Revisions Drawn by R.GONZALES Date 10/12/94

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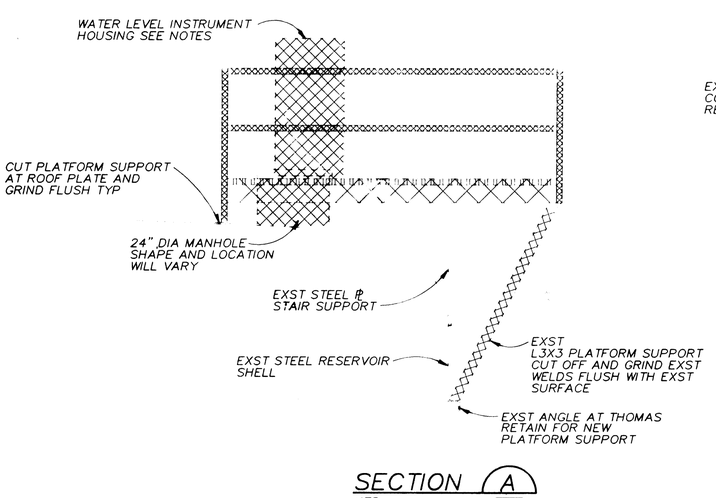

SECTION A
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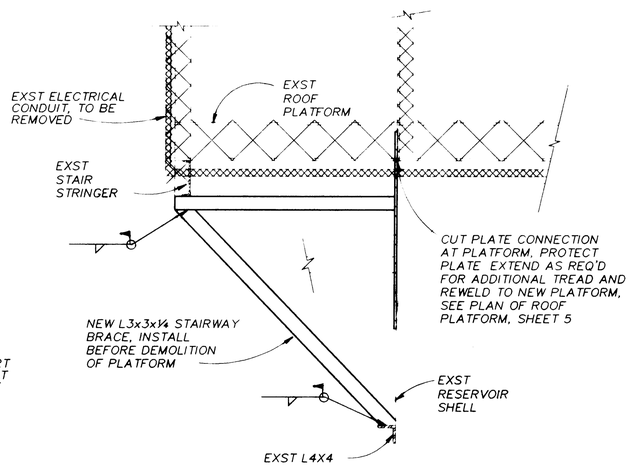

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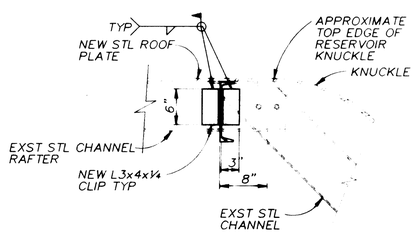


NOTES

1. HEADER FLANGES TO FACE TOWARD RESERVOIR WALLS FOR DRAINAGE.
2. COPE ENDS OF HEADER CHANNEL FLANGES AS REQUIRED FOR FIT.

SECTION C
NTS

26 4366.930494

SCANNED BY BY LASON

CH2M HILL

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
AS-BUILTS BY
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

REVISIONS
NO. | DATE | REMARKS | BY

DESIGNED BY M. NANNINGA — DATE APRIL 1993
DRAWN BY W. KENAS — DATE APRIL 1993
CHECKED BY L. EICK — DATE APRIL 1993

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

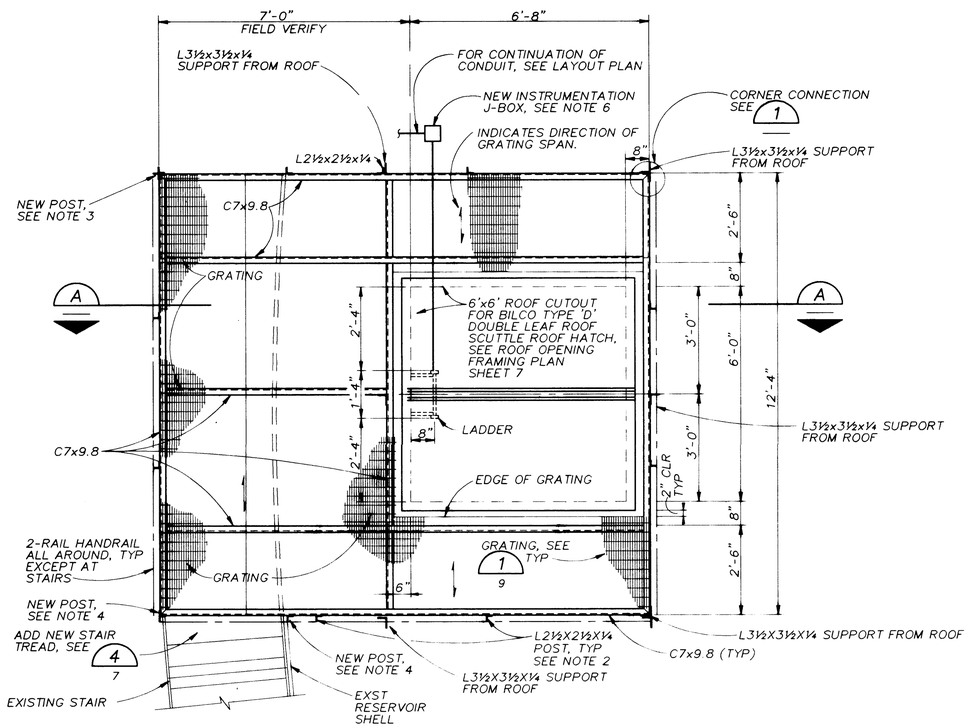
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
GRIEGOS AND THOMAS RESERVOIRS
TITLE: ROOF PLATFORM DEMOLITION AND MODIFICATIONS

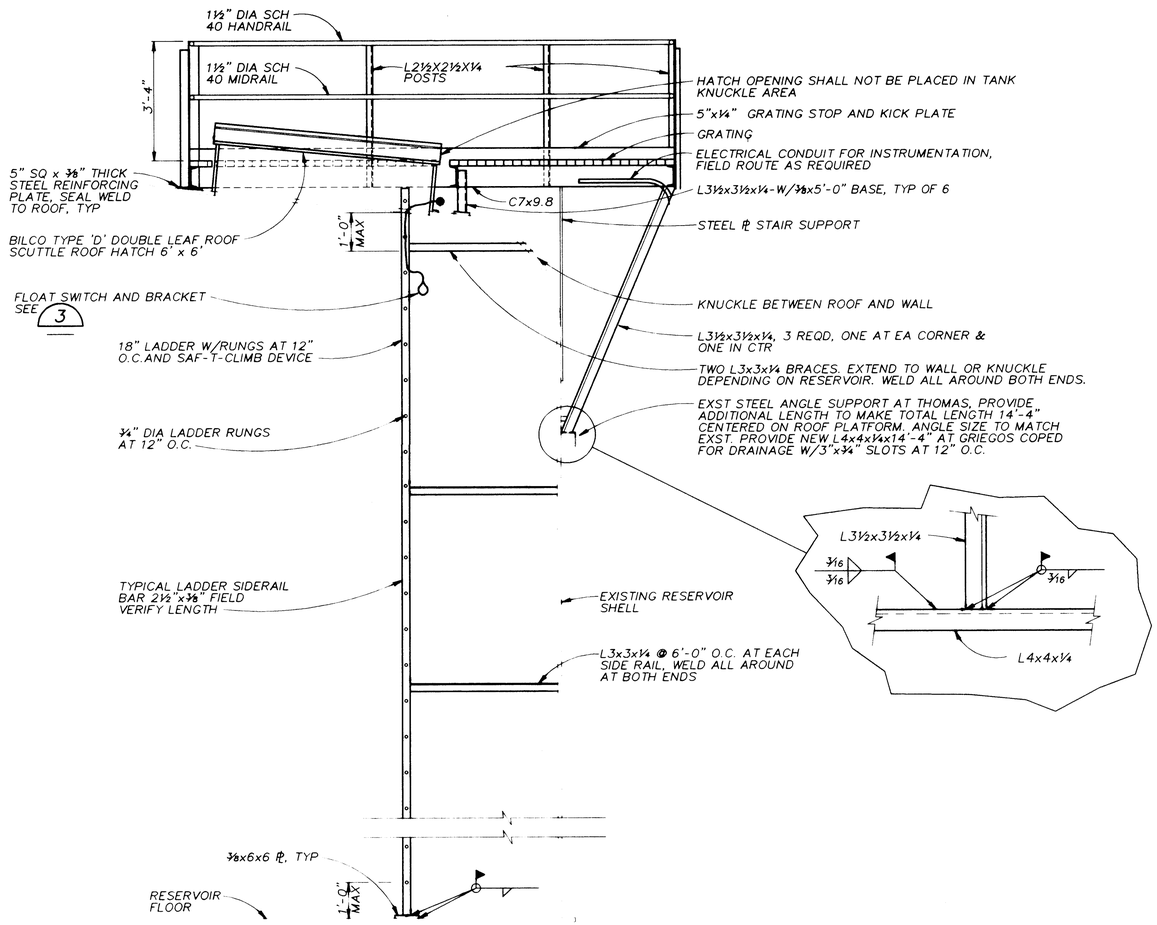
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO. 4366.93 | MAP NO. | SHEET 4 OF 13

4474S101.DWG 1=32

10-12-94 34474S02.DWG



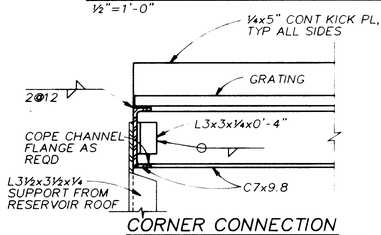


SECTION A
½"=1'-0"

NOTES:

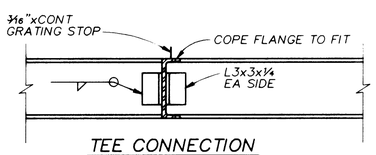
1. CONTRACTOR SHALL SET ELEVATION APPROXIMATELY 7½" ABOVE NEW TOP STAIR TREAD.
2. HANDRAIL POST SPACING SHALL NOT EXCEED 5'-0".
3. FOR CONTINUATION OF CONDUIT AND WIRING SEE LAYOUT PLAN, SHT 2 OR 3 AS APPROPIATE.
4. CONNECT EXISTING STAIR RAILS TO NEW L2½"x2½"x¼" POST.
5. STAIR SHOWN IS FOR THOMAS RESERVOIR. STAIR AT GRIEGOS RESERVOIR IS SIMILAR BUT, LOCATED ON OPPOSITE SIDE OF PLATFORM.
6. LOCATION OF INSTRUMENTATION CONNECTIONS ON RESERVOIR ROOF VARIES. CONTRACTOR SHALL RELOCATE INSTRUMENT PENETRATIONS ON ROOF WHEN CONFLICTS WITH PLATFORM INSTALLATION OCCUR.

PLAN - ROOF PLATFORM
½"=1'-0"



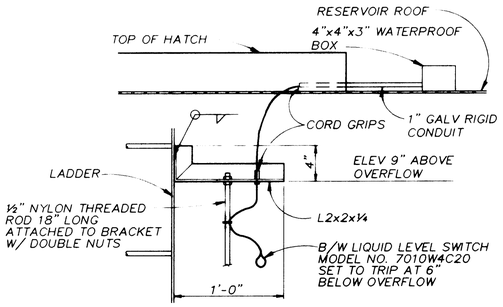
CORNER CONNECTION TYP FOR ALL PLATFORMS

DETAIL 1
NTS



TEE CONNECTION TYP FOR ALL PLATFORMS

DETAIL 2
NTS



DETAIL 3
NTS

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE: 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

SCANNED BY RT LASER

AS BUILT INFORMATION
CONTRACTOR — DATE
WORKED BY — DATE
STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.

NO.	DATE	REMARKS	BY	DATE
		REVISIONS		
		DESIGN	M. NANNINGA	APRIL 1993
			W. KENAS	APRIL 1993
			L. EICK	APRIL 1993

DESIGNED BY
DRAWN BY
CHECKED BY

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

26 4366.930594

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
ROOF PLATFORM
PLANS SECTIONS AND DETAILS

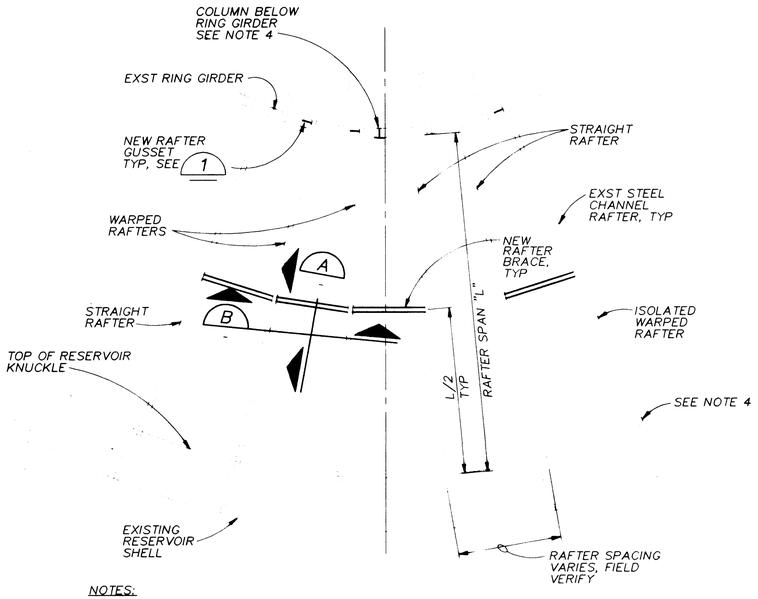
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

CH2M HILL

DRAWING NO. 4366.93 | MAP NO. | SHEET 5 OF 13

4474S102.DWG 1=24

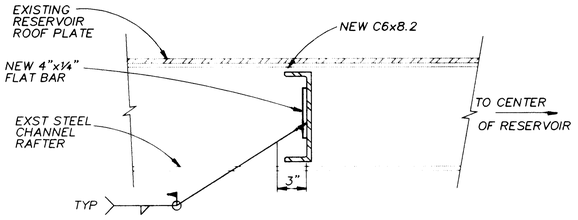
10-12-94 ABQ34474.10/4474S103.DWG



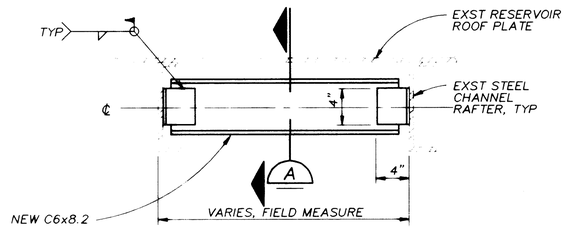
NOTES:

1. RAFTERS REQUIRING BRACING IN ACCORDANCE WITH DETAILS SHOWN ON THIS SHEET SHALL BE VERIFIED AND IDENTIFIED IN THE FIELD BY THE ENGINEER. CONTRACTOR IS DIRECTED TO THE BID PROPOSAL FOR APPROXIMATE NUMBER OF RAFTERS REQUIRING BRACING. CONTRACTOR SHALL PROVIDE LIFT TRUCK ACCESS FOR ENGINEER TO INSPECT AND IDENTIFY.
2. WARPED RAFTERS SHALL BE STRAIGHTENED AND BRACED TO NEAREST STRAIGHT RAFTER. WHERE MORE THAN A SINGLE RAFTER IS WARPED IN ONE AREA BRACE TO A MINIMUM OF ONE STRAIGHT RAFTER FOR EACH WARPED RAFTER.
3. STIFFEN ENDS OF EACH WARPED RAFTER AT CONNECTION TO RING GIRDER WITH RAFTER GUSSET AS SHOWN.
4. REPLACE EXISTING STEEL BOLTS IN ALL RAFTER CONNECTIONS AND AT COLUMN TO RING GIRDER CONNECTION WITH TYPE 316 SST BOLTS PRIOR TO RECOATING TANK INTERIOR. BOLT SIZE SHALL MATCH EXISTING. PROVIDE TWO 1/8"x2"DIA SST FLAT WASHERS WITH EACH BOLT. TEMPORARILY SUPPORT MEMBERS DURING INSTALLATION OF BOLTS AS REQUIRED CONTRACTOR IS DIRECTED TO BID PROPOSAL FOR APPROXIMATE NUMBER OF BOLTS REQUIRED. WHERE EXISTING CONNECTIONS ARE WELDED NO BOLTS ARE REQUIRED WHERE ONLY ONE BOLT EXISTS, REPLACE IT AND ADD A SECOND BOLT.

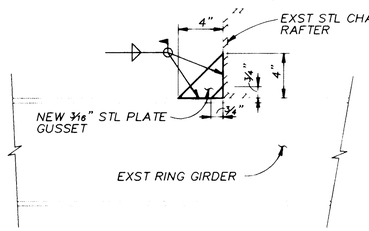
RAFTER BRACING PLAN INSTALLATION
NTS



SECTION A
NTS



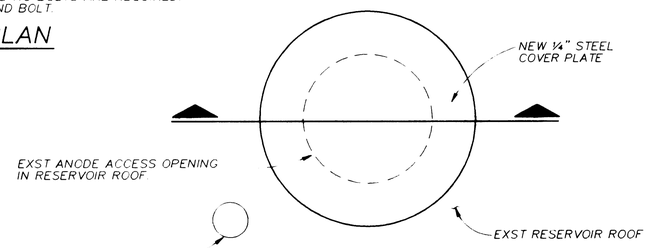
SECTION B
NTS



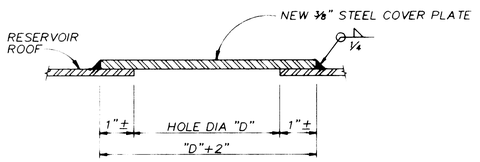
NOTES:

1. REALIGN RAFTER PERPENDICULAR TO RING GIRDER BEFORE WELDING GUSSET IN PLACE.
2. GUSSET IS REQUIRED AT EACH EXISTING WARPED RAFTER AT RING GIRDER CONNECTION.

DETAIL 1
NTS



PLAN

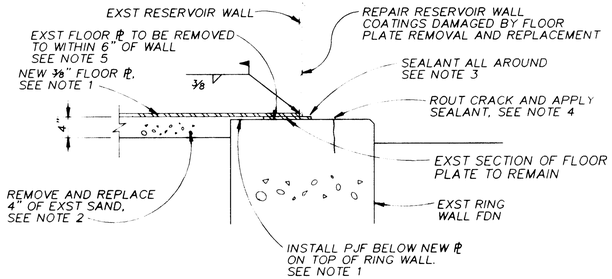


SECTION

NOTES:

1. REMOVE EXST RETAINER BAR AND BOLT AND COVER PLATE.
2. INSTALL NEW COVER PLATE AND WELD TO EXST RESERVOIR ROOF.
3. PLUG WELD INSULATOR SUPPORT HOLE AND GRIND SMOOTH WITH ADJACENT SURFACE AT BOTH INSIDE AND OUTSIDE OF RESERVOIR ROOF PLATE.

DETAIL 2
NTS



NOTES:

1. CONTRACTOR SHALL DEMOLISH, REMOVE AND REPLACE RESERVOIR FLOOR PLATE AS REQUIRED, SEE SPECIFICATIONS. MINIMUM SIDE LAPS SHALL BE 1 INCH. INSTALL PREMOLDED JOINT FILLER(PJF) AS REQUIRED TO FILL GAP BETWEEN TOP OF FOUNDATION AND BOTTOM OF NEW FLOOR PLATE. PJF SHALL BE BITUMINOUS TYPE CONFORMING TO ASTM D 994 OR D 1751.
2. SAND SHALL BE CLEAN WASHED NATURAL OR MANUFACTURED SAND CONFORMING TO THE REQUIREMENTS OF ASTM C144-84 WITH THE ADDITIONAL REQUIREMENT THAT THE PERCENT PASSING THE NO. 200 SIEVE NOT EXCEED 5 PERCENT. SAND SHALL BE FREE OF CHLORIDES OR OTHER CORROSIVE AND DELETERIOUS SUBSTANCES. RESISTIVITY OF SATURATED SAND SHALL BE LESS THAN 10,000 OHM-CM. SUBMIT GRADIATION TEST RESULTS FOR ENGINEERS APPROVAL.
3. REMOVE JOINT MATERIAL OUTSIDE THE EDGE OF THE FLOOR PLATE ON TOP OF THE FOOTING ALL AROUND THE RESERVOIR AND PREPARE SURFACE AND CAULK WITH SEALANT. SEALANT SHALL BE PREMIUM GRADE HIGH PERFORMANCE 1 COMPONENT POLYURETHANE-BASE, NON-SAG ELASTOMERIC SEALANT, SIKAFLEX-1A OR EQUAL.
4. ROUT OUT CIRCUMFERENTIAL CRACKS GREATER THAN OR EQUAL TO ⅛-INCH IN WIDTH IN TOP OF RING WALL FOUNDATION. GROOVE SHALL BE APPROXIMATELY ⅜ INCHES IN WIDTH AND ¼ INCH DEEP. SANDBLAST CRACK AFTER ROUTING AND CLEAN CRACK USING COMPRESSED AIR PRIOR TO APPLYING SEALANT. SEALANT SHALL BE SIKAFLEX-A1 OR EQUAL.
5. ABRASIVE BLAST OR CENTRIFUGAL WHEEL BLAST (SP-5) SURFACE OF EXISTING FLOOR PLATES FOR A DISTANCE 12" AWAY FROM THE WALL AROUND THE TANK PRIOR TO REMOVAL OF EXISTING FLOOR PLATE AND INSTALLATION OF NEW FLOOR PLATE.

DETAIL 3
NTS 2,3,4

APPROVAL OF RECORD
BY: CH2M HILL
DATE: 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94

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26 4366.930694

SCANNED BY ARCHIVE

CH2M HILL

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
AS-BUILTED BY
VERIFICATION BY
DRAWINGS CHANGED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
NO. DATE

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

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REVISIONS
NO. DATE BY REMARKS
DESIGNED BY M. NANNINGA DATE APRIL 1993
DRAWN BY W. KENAS DATE APRIL 1993
CHECKED BY L. EICK DATE APRIL 1993

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

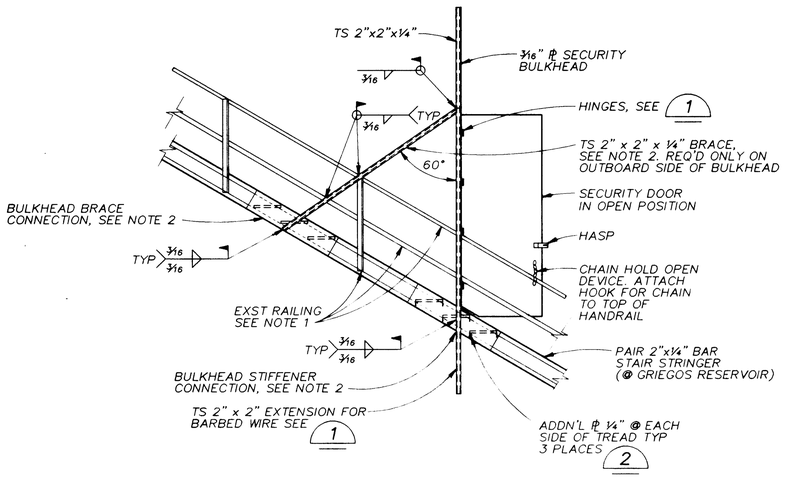
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
TITLE: GRIEGOS AND THOMAS RESERVOIRS
RESERVOIR REPAIR DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO. 4366.93 | MAP NO. | SHEET 6 OF 13

4474S103.DWG 1=1

10-12-94 34474S04.DWG

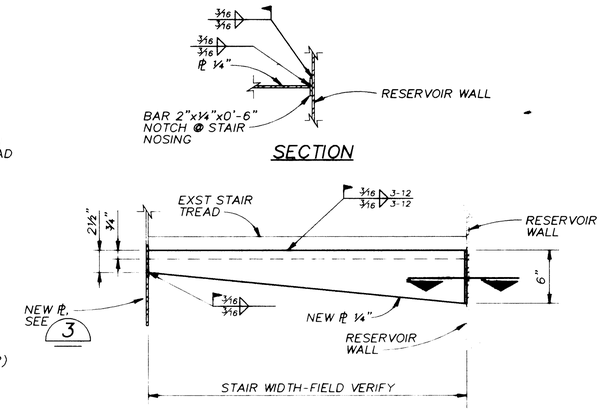


NOTES:

1. CUT EXISTING HANDRAILING AS REQUIRED FOR INSTALLATION OF BULKHEAD STIFFENER FRAME AND BRACE. WELD EXISTING RAILING TO BULKHEAD AND BRACE FOR COMPLETED INSTALLATION.
2. AT THOMAS RESERVOIR, SEE 3 AT GRIEGOS RESERVOIR WELD ¼"x10" ℄ TO EXST STAIR BARS AT OUTBOARD EDGE OF STAIR, SEE 3 SIM

STAIR ELEVATION (A)

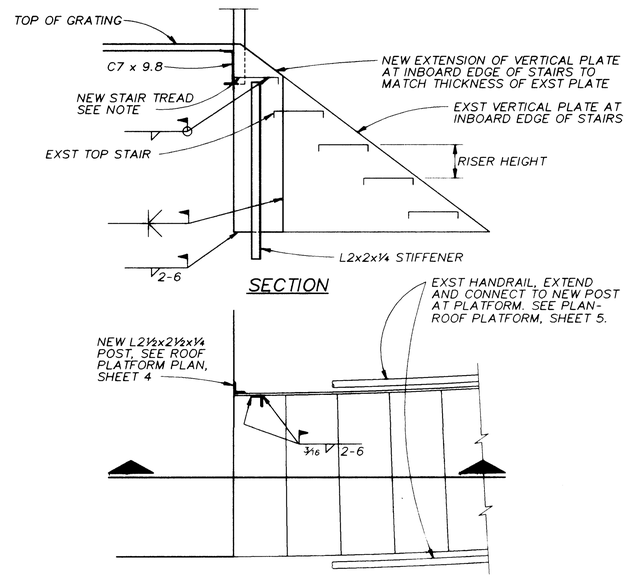
3/8" = 1'-0" 2, 3



NOTE:
INSTALL NEW PLATES AS SHOWN, TYPICAL ON 3 TREADS, PRIOR TO INSTALLATION OF STAIR SECURITY BULKHEAD.

TREAD STIFFENER DETAIL (2)

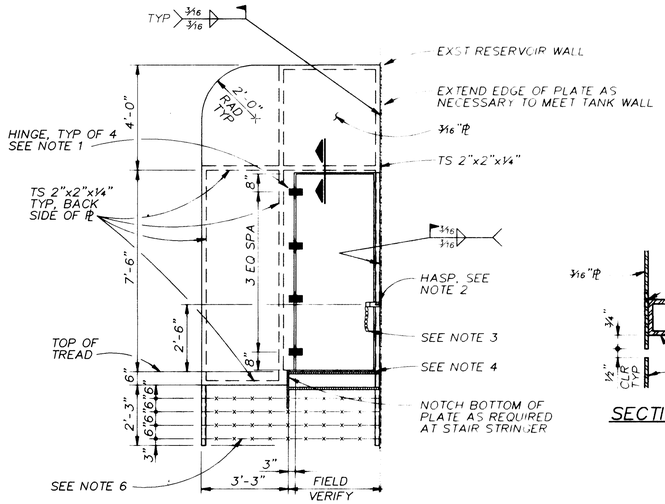
1½" = 1'-0"

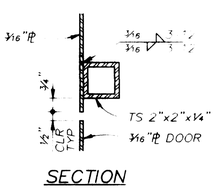


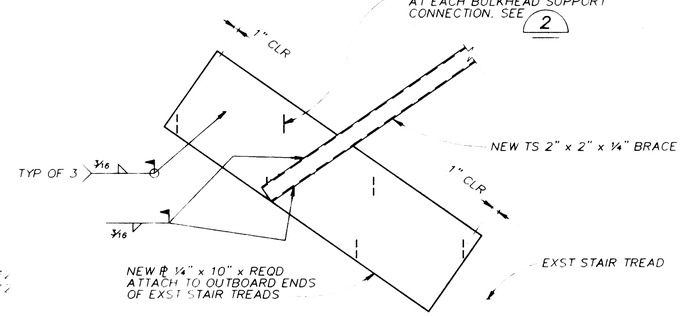
NOTE:
POSITION NEW STAIR TREAD FOR CONSISTENT RISER HEIGHTS. TREAD SHALL MATCH EXST OR MEET SPECIFICATIONS.

STAIR EXTENSION DETAIL (4)

1" = 1'-0" 4, 5







DETAIL (3)

1½" = 1'-0"

NOTES:

1. PROVIDE 4-4" STEEL SURFACE HINGES SHOP WELDED TO DOOR. HINGES SHALL BE MODEL NO. 1607A11 BY McMASTER CARR OR EQUAL.
2. PROVIDE HEAVY DUTY SAFTEY HASP MODEL NO. 1848A41 BY McMASTER CARR OR EQUAL.
3. PROVIDE CHAIN WELDED TO DOOR AND HOOK WELDED TO HANDRAIL SO DOOR CAN BE HELD OPEN.
4. CUT HOLE IN TREAD FOR TUBE. INSTALL TUBE THROUGH TREAD AND WELD TREAD TO TUBE.
5. LOCATE BULKHEAD AT CENTER OF 20th RISER AT EACH RESERVOIR.
6. BARBED WIRE SHALL BE FOUR-POINT PATTERN WITH TWO STRANDS OF NO. 12½ GAUGE WIRE WITH 1" BARBS 5" APART ZINC COATED. THREAD WIRE THROUGH HOLE DRILLED IN TUBE AND TIE OFF SECURELY.

SECURITY BULKHEAD DETAIL (1)

3/8" = 1'-0" 2, 3

4474S104.DWG 1=32

AS BUILT INFORMATION
CONTRACTOR STAKED BY DATE
INSPECTOR'S COMMENTS BY DATE
FIELD VERIFICATION BY DATE
REMARKS
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

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REVISIONS

NO.	DATE	REMARKS	BY	DATE
		DESIGN	M. NANNINGA	APRIL 1993
		DRAWN	W. KENAS	APRIL 1993
		CHECKED	L. EICK	APRIL 1993

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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26 4366.930794

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
STAIR AND BULKHEAD DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO. 4366.93 MAP NO. SHEET 7 OF 13

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94
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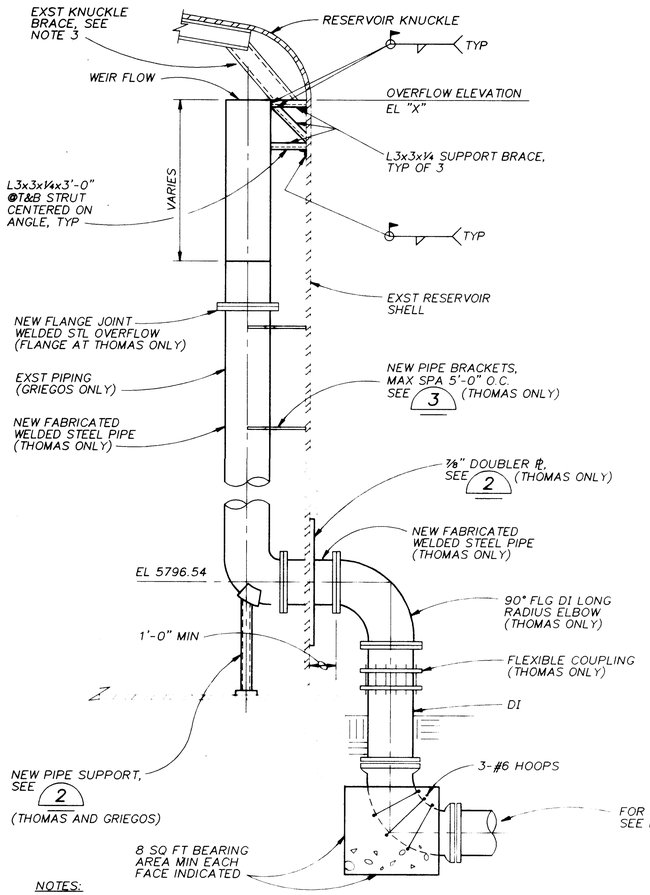
SCANNED BY JASON

CH2MHILL

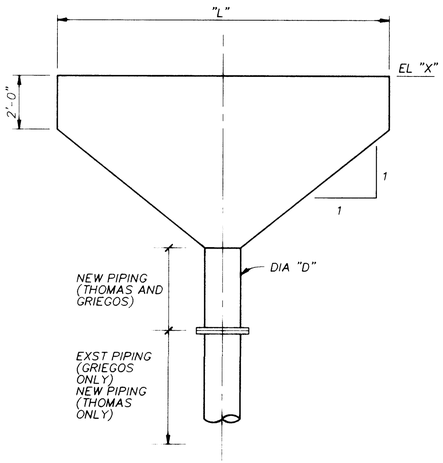
10-12-94 34474S05.DWG



NOTES:

1. EXST KNUCKLE BRACE MAY INTERFERE W/ NEW OVERFLOW WEIR. CONSULT ENGINEER FOR CONFIGURATION OF WEIR MODIFICATION TO ACCOMODATE BRACE. DO NOT REMOVE BRACE.

SECTION



NOTE:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION. CONSULT ENGINEER FOR RESOLUTION OF CONFLICTS PRIOR TO PROCEEDING WITH WORK

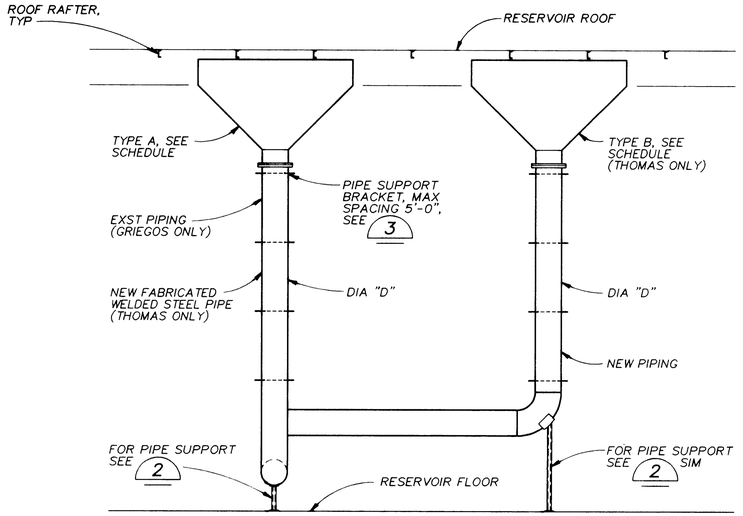
ELEVATION

RESERVOIR OVERFLOW SCHEDULE				
RESERVOIR	GRIEGOS		THOMAS	
OVERFLOW	A	B	A	B
LENGTH "L"	7'-10"	N/A	12'-0"	12'-0"
WIDTH "W"	1'-8"	N/A	2'-0"	2'-0"
PIPE DIA "D"	20"	N/A	24"	24"
OVERFLOW EL "X"	5006.0	N/A	5473.6	5473.6

NOTE:
DISTANCE BETWEEN WEIR AND RESERVOIR WALL VARIES DUE TO CURVATURE OF WALL

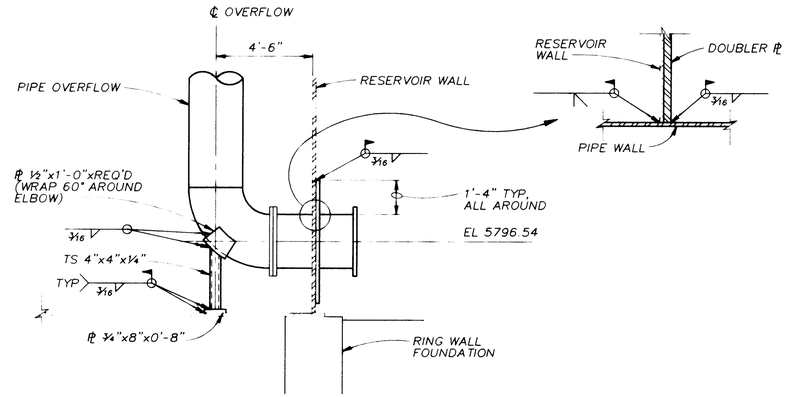
PLAN

OVERFLOW DETAIL 1
NTS 2,3



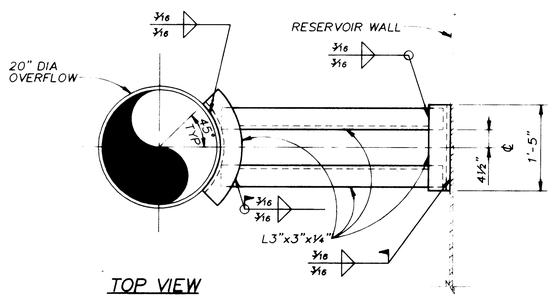
OVERFLOW WEIR ELEVATION

NTS



OVERFLOW SUPPORT 2

NTS (DETAIL SHOWN FOR THOMAS, PROVIDE NEW PIPE SUPPORT ONLY @ GRIEGOS)



TOP VIEW

DETAIL 3
NTS

RECORD DRAWINGS

Revisions Drawn by R.GONZALES Date 10/12/94

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APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER Arthur J. Stuart
DATE 11/22/94

AS BUILT INFORMATION
CONTRACTOR WORK STAKED BY WORK INSPECTED BY ACCEPTANCE BY FIELD VERIFICATION BY DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
BENCH MARKS
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

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NO.	REMARKS	BY	DATE
	REVISIONS DESIGN		DATE APRIL 1993
			DATE APRIL 1993
			DATE APRIL 1993

DESIGNED BY M. NANNINGA
DRAWN BY W. KENAS
CHECKED BY L. EICK

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS

OVERFLOW WEIR BOX DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

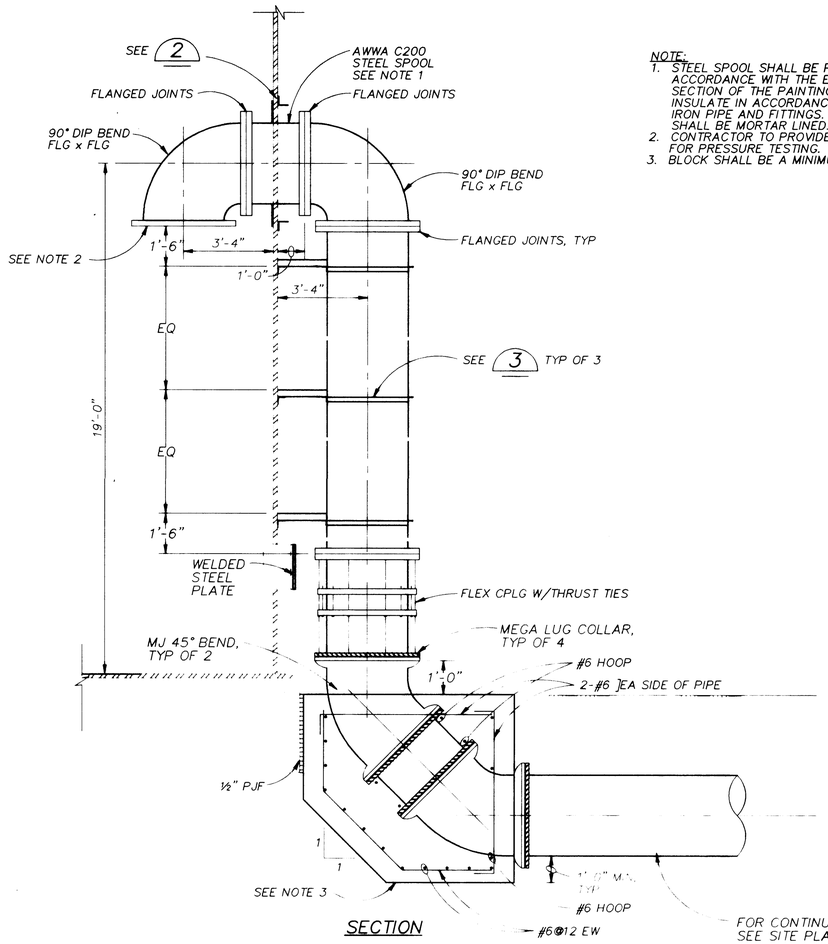
DRAWING NO. 4366.93 | MAP NO. | SHEET 8 OF 13

26 4366.93 0894

SCANNED BY BY LASON

CH2MHILL

4474S105.DWG 1=1

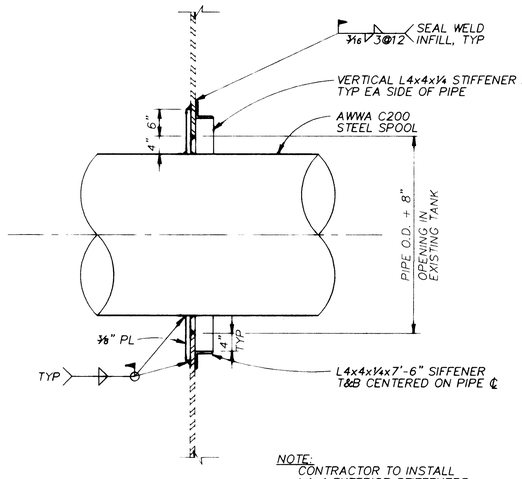


SECTION

DETAIL 1

⅛"=1'-0"

NOTE:
1. STEEL SPOOL SHALL BE PAINTED IN ACCORDANCE WITH THE EXPOSED METAL SECTION OF THE PAINTING SPECIFICATION. INSULATE IN ACCORDANCE WITH DUCTILE IRON PIPE AND FITTINGS. THE SPOOL SHALL BE MORTAR LINED.
2. CONTRACTOR TO PROVIDE TEMPORARY BLIND FLANGE FOR PRESSURE TESTING.
3. BLOCK SHALL BE A MINIMUM 6'-0" IN WIDTH.

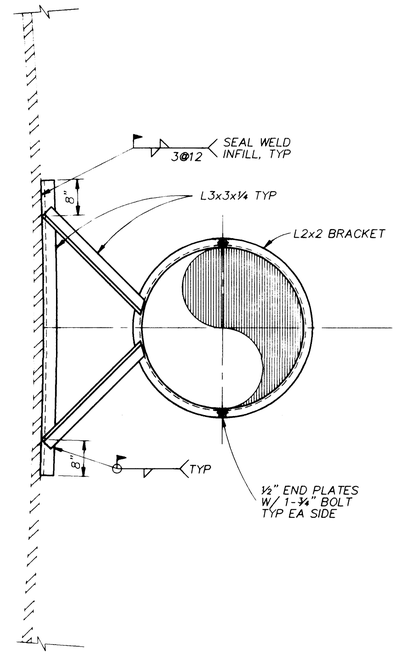


SECTION

NOTE:
CONTRACTOR TO INSTALL L4x4 EXTERIOR STIFFENERS PRIOR TO CUTTING EXISTING TANK WALL.

DETAIL 2

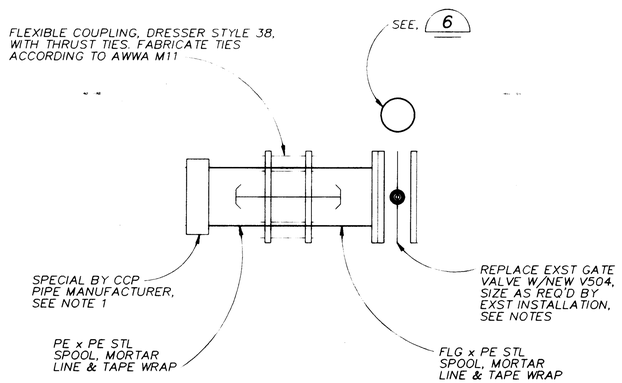
NTS



PLAN

DETAIL 3

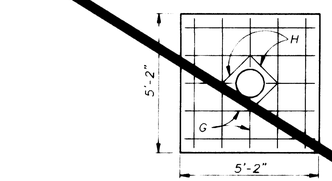
NTS



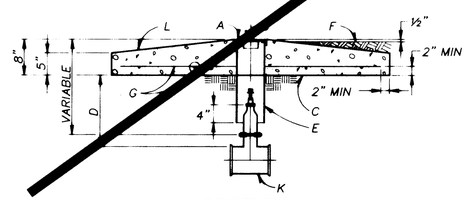
NOTES:
1. CONTRACTOR SHALL FIELD VERIFY VALVE ENDS AND EXISTING PIPE PRIOR TO ORDERING NEW VALVE AND SPECIALS.
2. INSTALL BUTTERFLY VALVE WITH STEM HORIZONTAL.

VALVE REPLACEMENT DETAIL 5

NTS



CONCRETE PAD PLAN VIEW



SECTION

GENERAL NOTES:
1. SIDES OF CONC. PAD TO BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.
2. USE THIS TYPE OF VALVE BOX FOR LOCATION IN UNPAVED STREETS OR ALLEYS AND IN NON-TRAFFIC EASEMENTS.

CONSTRUCTION NOTES:
A. RING
B. COVER
C. PORTLAND CEMENT CONC. 3000 P.S.I.
D. COMPACTED EARTH FILL, 90% TO 95% OF MAX DENSITY AS DETERMINED BY A.S.T.M. D 1557
E. " PVC C-900
F. GROUND LEVEL
G. NO. 4 BARS AT 12" O.C. EACH WAY
H. NO. 4 BARS " LONG
K. NEW VALVE
L. SCRIBE IN THE FRESH CONCRETE THE SIZE OF THE VALVE

DETAIL 6

SCANNED BY BY LASON

APPROVAL OF RECORD DRAWINGS
PROJECT
DATE 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94

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26 4366.930994

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
SURVEYED BY
DATE
ACCEPTANCE BY
DATE
VERIFICATION BY
DATE
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

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NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DATE 5-4-93	
		DATE 5-11-93	
		DATE 7-6-93	

DESIGNED BY M. NANNINGA
DRAWN BY M. BREWER
CHECKED BY L. EICK

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 | MAP NO. | SHEET 9 OF 13

CH2M HILL

AB034474.10\4474M101.DWG
1=32
10-12-94

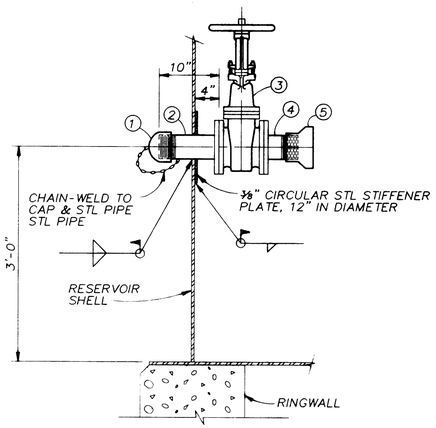
1. GRATING SPAN ⟷ SEE PLAN.
2. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 3'-6".
3. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
4. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
5. BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM.
6. BAND ALL EDGES WITH 3/16 x DEPTH OF BEARING BAR.
7. PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
8. TYPE OF MATERIAL USED SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED. THIS STANDARD DETAIL INCLUDES 3 TYPES, ALTHOUGH ALL 3 MAY NOT BE INCLUDED IN PROJECT.
9. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN ¼" NOT GREATER THAN ½".
10. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS.
11. DO NOT REUSE EXISTING GRATING.

GRATING NOTES

FOOT TRAFFIC
GRATING THICKNESS TABLE

MAXIMUM SPAN	ALUMINUM (IN.)	STEEL (IN.)	FIBERGLASS (IN.)
3'-6"	1¼"	1"	1½"
4'-0"	1½"	1"	1½"
4'-6"	1¾"	1"	MAXIMUM ALLOWABLE SPAN IS 4'-0" LIMIT DEFLECTION TO ¼" MAX
5'-0"	1¾"	1¼"	
5'-6"	2"	1¼"	
6'-0"	2¼"	1½"	
6'-6"	2¼"	1½"	
7'-0"	2½"	1¾"	

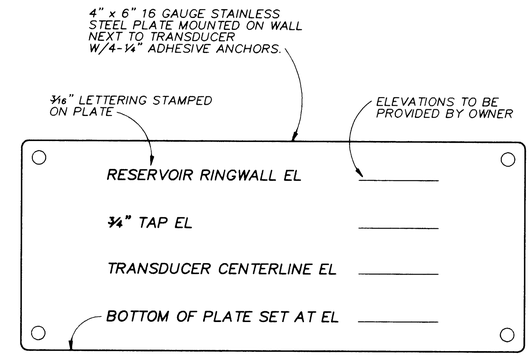
GRATING DETAIL (1) — 5



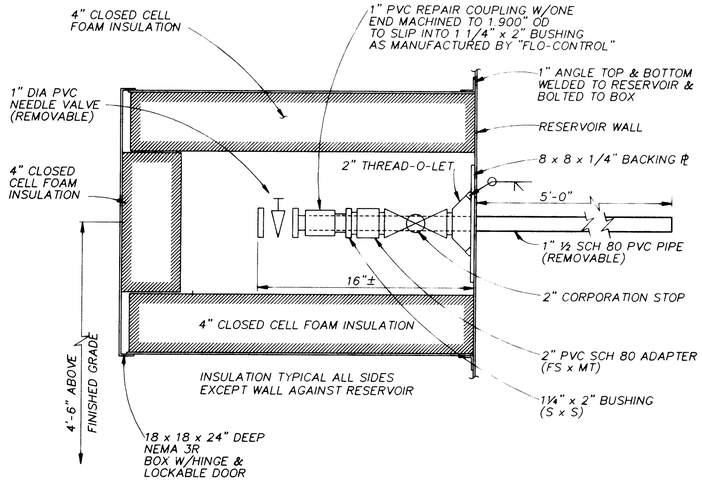
PUMP OUT VALVE PIPING SCHEDULE	
ITEM NO.	DESCRIPTION
1	3" THREADED STEEL CAP
2	3" DIA THREADED x FLANGED STEEL SPOOL
3	FLANGED CAST IRON GATE VALVE, BRONZE STEM AND WEDGE, CRANE NO. 461
4	3" DIA x 0'-6" FLANGED x THREADED STEEL SPOOL
5	SEALFAST, 4D CAM & GROOVE TYPE FITTING (BOTH ENDS ARE FEMALE), STAINLESS STEEL, NPT

NOTES:
1. ALL THREADS ARE TO BE NATIONAL PIPE THREADS (NPT).
2. STEEL SHALL BE SCHEDULE 80, TREATED WITH SAME PAINT SYSTEM AS RESERVOIR. (INSIDE TANK AND OUTSIDE TANK)
3. TREAT INSIDE OF ITEM NOS. 1,2 AND 4 W/ SAME PAINT SYSTEM AS RESERVOIR.

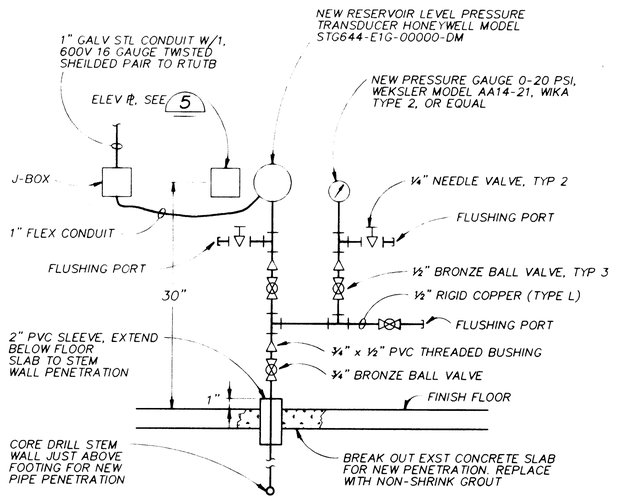
PUMP OUT VALVE DETAIL (3) — NTS — 2,3



ELEVATION PLATE (5) — NTS

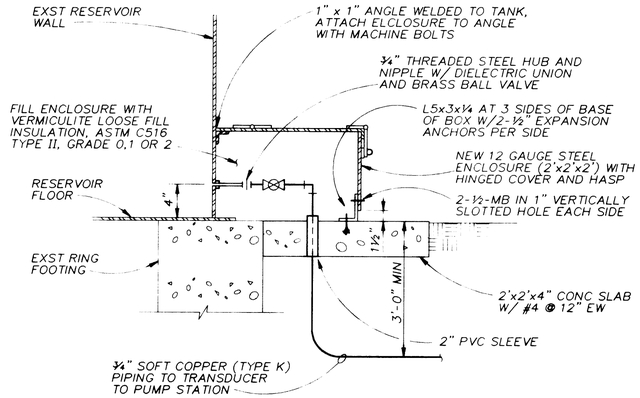


SAMPLING STATION DETAIL (2) — NTS — 2,3



NOTE:
SUPPORT PRESSURE [illegible] DUCER AND PIPING TO INTERIOR WALL OF PUMP STATION W[illegible] STEEL UNISTRUT AND ½" STAINLESS STEEL ADHESI[illegible] CHORS.

PRESSURE TRANSDUCER CONNECTION (4) — NTS — 2,3



RESERVOIR PRESSURE SENSOR BOX (6) — NTS — 2

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94
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SCANNED BY [illegible]

26 4366.931094

VERIFY SCALES
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AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
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BENCH MARKS

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FIELD NOTES
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REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY B. MILLER	
		DATE 6-30-93	
		DRAWN BY M. BREWER	
		DATE 1-27-93	
		CHECKED BY B. CROCKETT	
		DATE 7-6-93	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

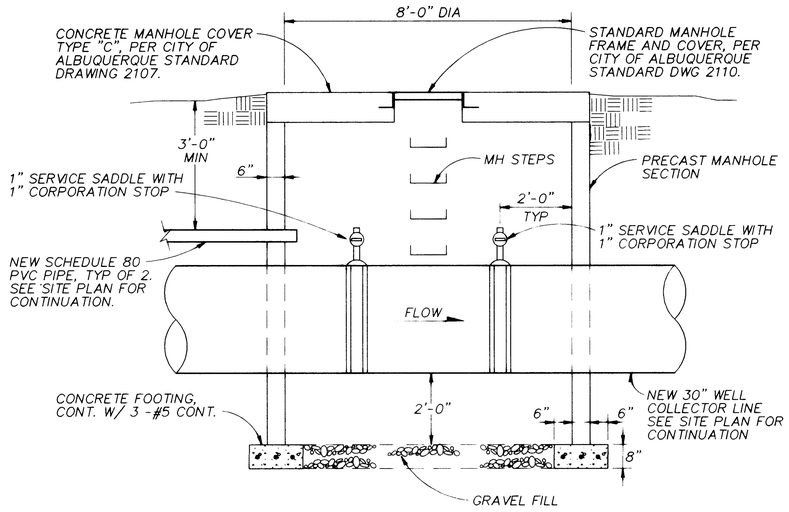
TITLE: GRIEGOS AND THOMAS RESERVOIRS
MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 | MAP NO. | SHEET 10 OF 13

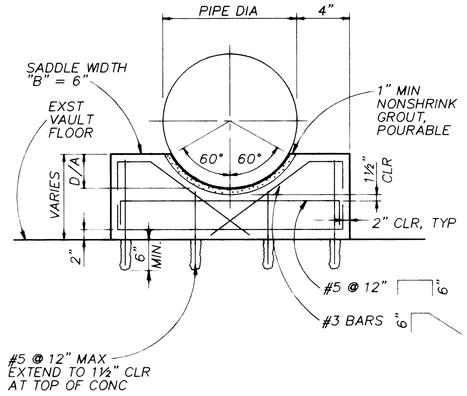
CH2MHILL

4474M102.DWG
1=1
10-12-94



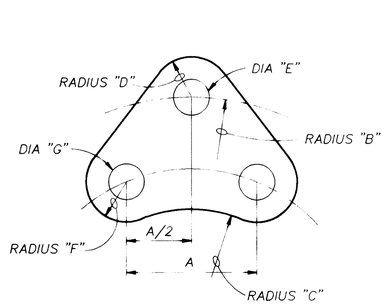
CHLORINE AND FLUORIDE INJECTION MANHOLE

½" = 1' - 0"

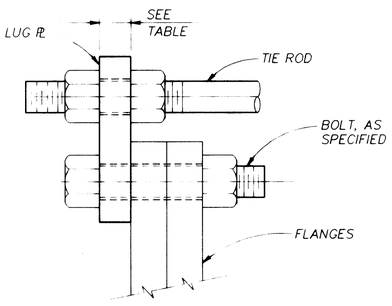


CONCRETE PIPE SUPPORT

NTS



FRONT VIEW



SIDE VIEW

*SEE NOTES	FLANGE LUG TIE ROD SCHEDULE										
TIE ROD DIA. OR BOLT SIZE	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 3/4
DIA G OR E	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 5/8	2	2 1/4	2 1/2	3
RADIUS D OR F	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/4	2 3/8	2 1/2

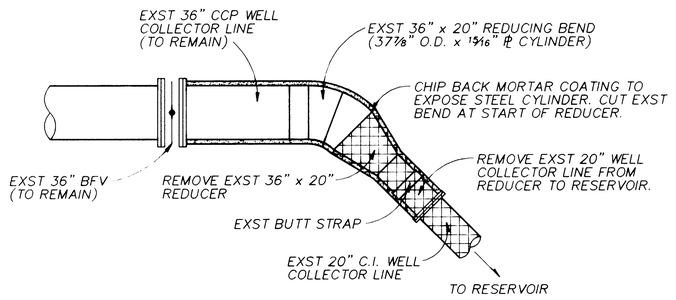
TEST PRESSURE (psi)			25	50	100	150	225	375
PIPE DIA.	MIN. PLATE THICKNESS	TIE ROD DIA.	MINIMUM RODS REQUIRED					
12	7/8	1	2	2	2	2	2	4
14	7/8	1	2	2	2	2	4	4
16	7/8	1 1/8	2	2	2	2	4	4
18	7/8	1 1/8	2	2	2	4	4	4
24	1 1/8	1 1/4	2	2	4	4	5	5
30	1 3/8	1 1/2	2	2	4	4	7	7
36	1 5/8	1 3/4	4	4	4	4	8	8
42	1 5/8	1 5/8	4	4	6	9	9	9

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. DIMENSION "A" AS REQUIRED BY FLANGE SPECIFIED.
3. RADIUS "C" EQUALS 1/2 X (BOLT CIRCLE) - F
4. RADIUS "B" EQUALS 1/2 X (FLANGE OD) + 2D + 1/8
5. WHEN USING FLANGE LUGS WITH TIE ROD LUGS, RADIUS "B" EQUALS PIPE OD + E FROM TIE ROD LUG SCHEDULE, USE LARGEST DIAMETER ROD.
6. INSTALL TIE ROD ASSEMBLIES SUCH THAT ALL RODS ARE EQUALLY SPACED AROUND FLANGE. ON PIPING 20" AND LARGER RODS MAY BE GROUPED IN PAIRS BUT GROUPS MUST BE EQUALLY SPACED AROUND FLANGE. THE TOTAL NUMBER OF TIE RODS SHALL BE INCREASED ABOVE THAT TABULATED AS NECESSARY TO MEET SPACING REQUIREMENTS.
7. TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7
8. NUTS SHALL CONFORM TO ASTM A194 GRADE 2H
9. PLATE SHALL CONFORM TO ASTM A283 GRADE D
10. THIS DETAIL SUITABLE ONLY FOR EXPOSED PIPING.
11. FLANGE LUGS MUST BE SHOP FABRICATED.

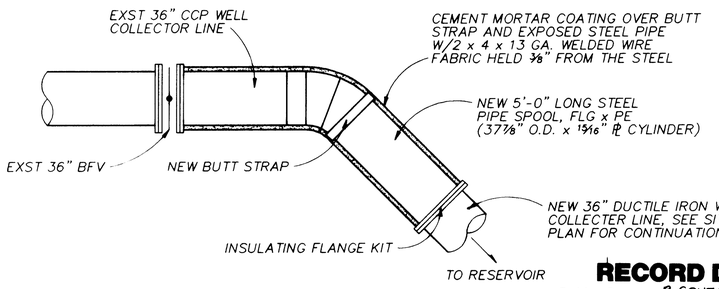
FLANGE LUG DETAIL/SCHEDULE (2)

NTS



PLAN - EXISTING

NTS



PLAN - NEW

NTS

THOMAS WELL COLLECTOR LINE CONNECTION DETAIL

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

26 4366.931194

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94

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SCANNED BY
BY LASON

CH2M HILL

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AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
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NO.

BENCH MARKS

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NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY M. BREWER — DATE JULY 1993
DRAWN BY C. O'NEIL — DATE JULY 1993
CHECKED BY B. CROCKETT — DATE JULY 1993

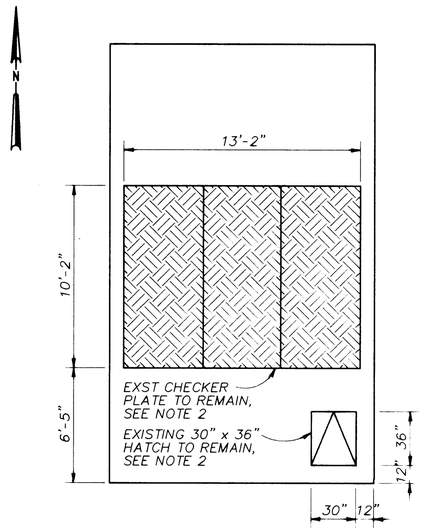
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
MISCELLANEOUS DETAILS

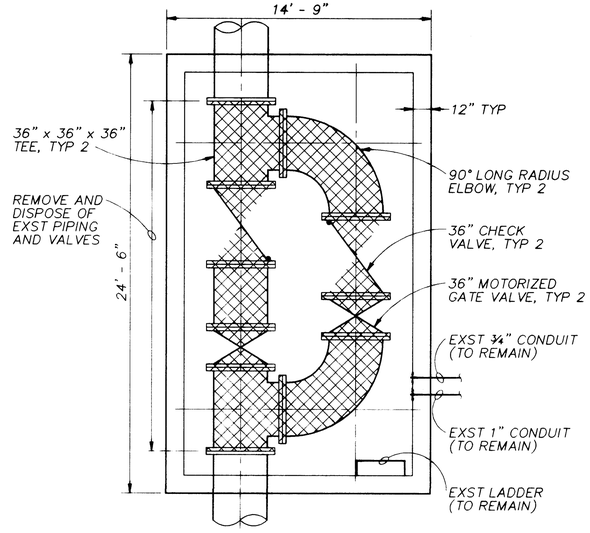
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 | MAP NO. | SHEET 11 OF 13

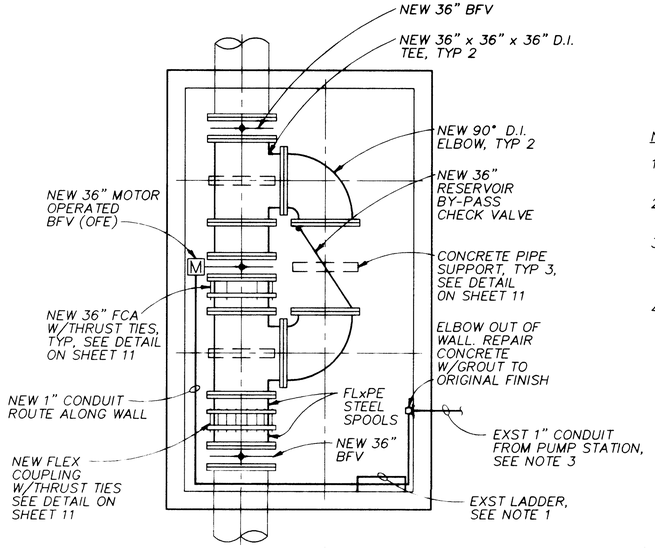
4474M103.DWG
1=48
10-12-94



PLAN - TOP



PLAN - EXISTING



PLAN - NEW

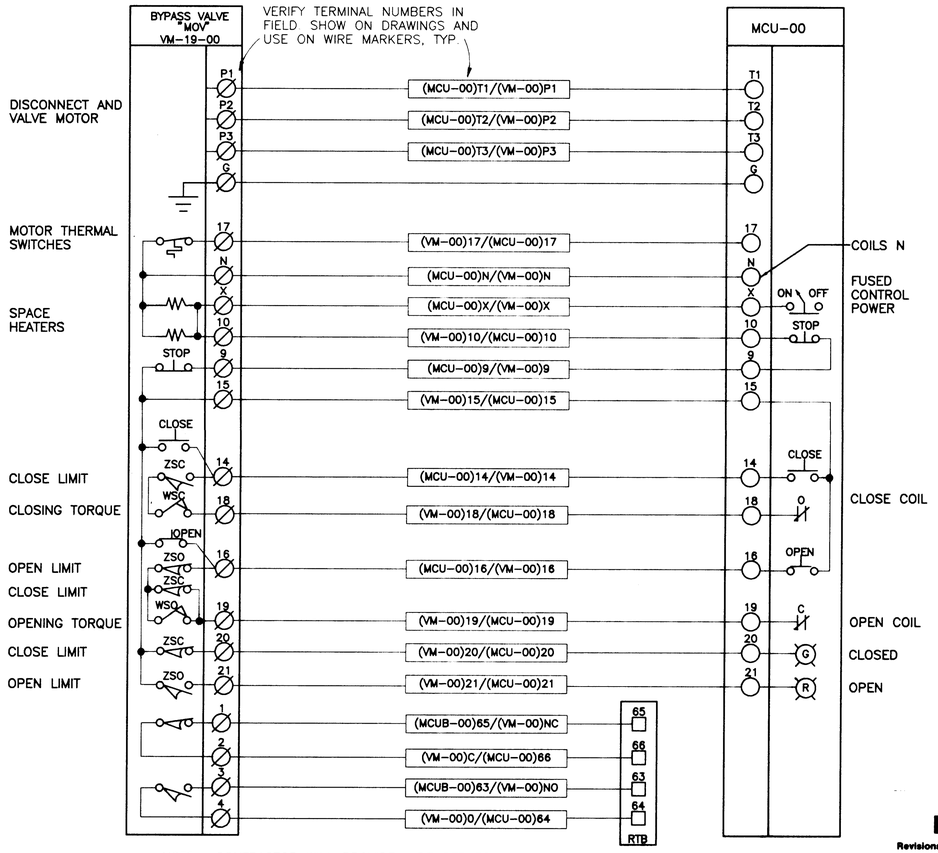
¼" = 1' - 0"

NOTES

1. EXST LADDER SHALL BE SANDBLASTED AND COATED WITH SYSTEM 12. SEE SECTION 9902.
2. EXST CHECKER PLATE PANEL AND HATCH SHALL BE SAND-BLASTED AND COATED WITH SYSTEM 12. SEE SECTION 9902.
3. EXST 1" CONDUIT FROM PUMP STATION MCU-B USE EXST WIRE TO PULL 3#10, 1#10 GND (POWER) AND 16 THWN #14 CONDUCTORS (CONTROL) INTO THE PUMP STATION AND OVER TO MCU-B. REFERENCE SCHEMATIC.
4. EXST ¾" CONDUIT FROM PUMP STATION. LOCATE CONDUIT IN PUMP STATION. USE EXST WIRES TO PULL 16 THWN#12 CONDUCTORS (CONTROL). INTERCEPT EXST CONDUIT IN PUMP STATION AND ROUTE TO RTB AND MCU-B. INSTALL J-BOXES AS REQUIRED. REFERENCE SCHEMATIC.

THOMAS BY-PASS VALVE VAULT

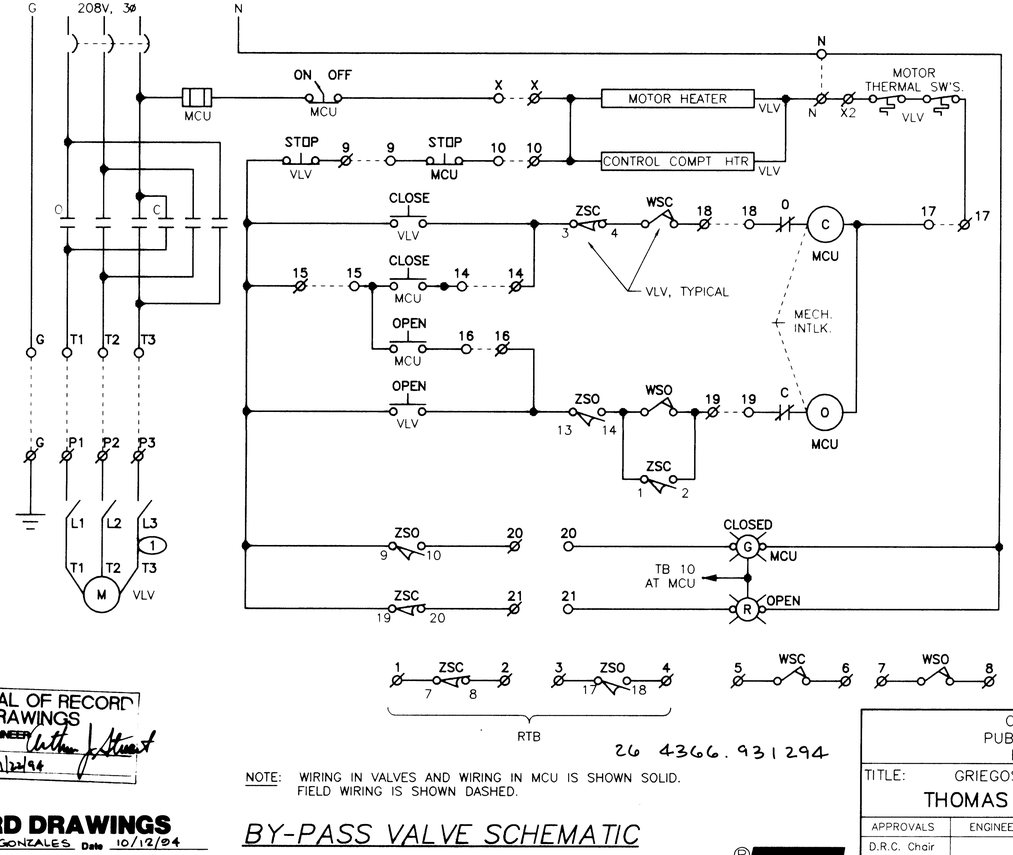
¼" = 1' - 0"



NOTE: CONTRACTOR WILL PROVIDE WIRE BETWEEN MOTOR TERMINALS AND MOTOR DISCONNECT.

BY-PASS VALVE PARTIAL INTERCONNECTION

NTS



NOTE: WIRING IN VALVES AND WIRING IN MCU IS SHOWN SOLID. FIELD WIRING IS SHOWN DASHED.

BY-PASS VALVE SCHEMATIC

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PROJECT ENGINEER
DATE: 11/22/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 10/12/94

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SCANNED BY BY LASON

AS BUILT INFORMATION
CONTRACTOR
WORK INSPECTORS — DATE
ACCEPTANCE BY — DATE
AUDIT — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

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		REVISIONS	
		DESIGN	
		DESIGNED BY M. BREWER	DATE JULY 1993
		DRAWN BY C. O'NEIL	DATE JULY 1993
		CHECKED BY B. CROCKETT	DATE JULY 1993

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CITY OF ALBUQUERQUE
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ENGINEERING DIVISION

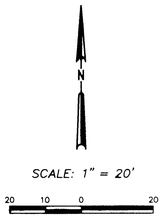
TITLE: GRIEGOS AND THOMAS RESERVOIRS
THOMAS BY-PASS VALVE VAULT

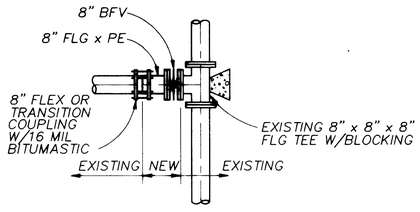
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 | MAP NO. | SHEET 12 OF 13

26 4366.931294

4474E101.DWG
1=48
10-12-94

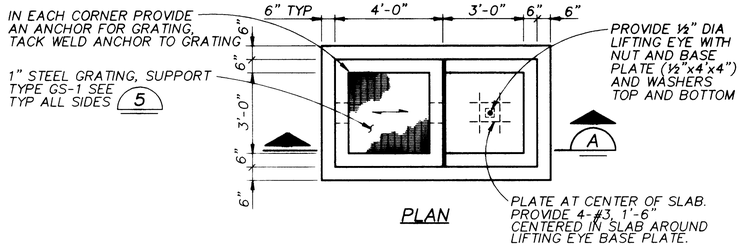




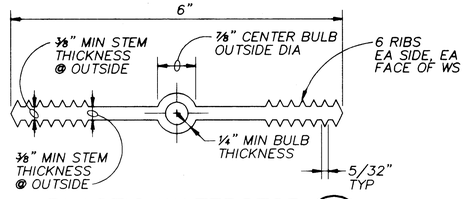
PLAN

WELL DISCHARGE PIPING (1)

NTS

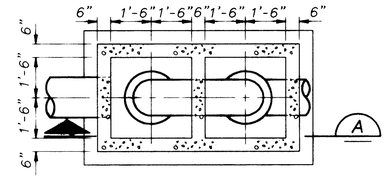


PLAN

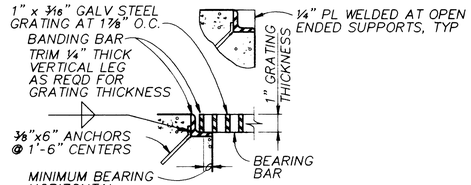


PLASTIC WATERSTOP (4)

NTS

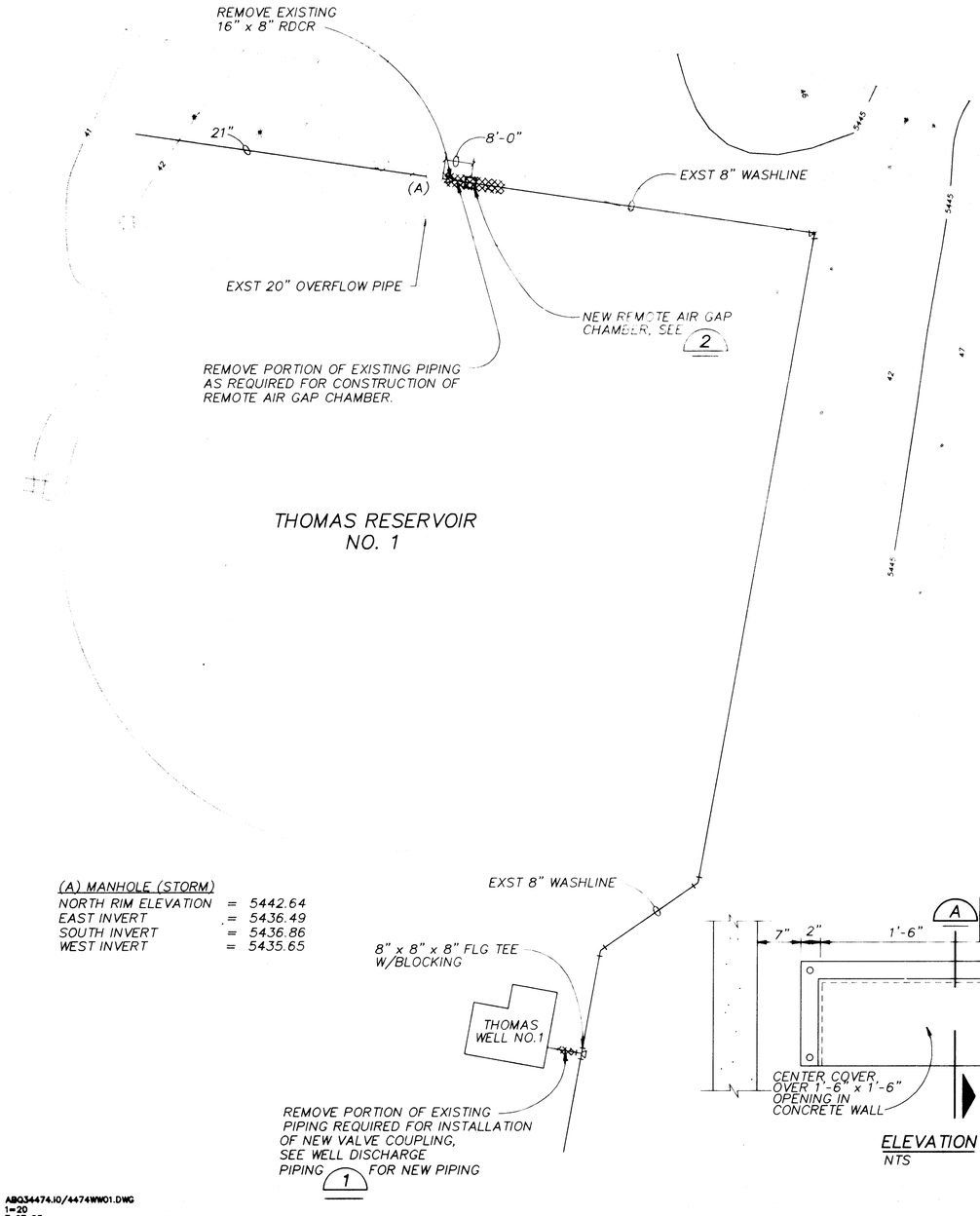


PLAN 1' BELOW TOP OF BOX



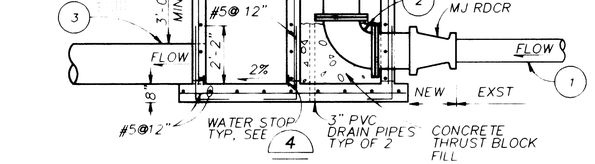
GS-1

GRATING SUPPORT (5)



(A) MANHOLE (STORM)

NORTH RIM ELEVATION	=	5442.64
EAST INVERT	=	5436.49
SOUTH INVERT	=	5436.86
WEST INVERT	=	5435.65



SECTION (A)

NOTES:

1. AT CONTRACTOR'S OPTION, AIR GAP CHAMBER PIPING MAY BE WELDED STL.
2. 6" MIN GRAVEL BENEATH FLOOR SLAB, TYP
3. CHAMBER HEIGHT DEPENDENT ON OUTLET PIPE INVERT AND EXST GROUND ELEV. SEE WELL SITE PLAN AND PROFILE SHEETS FOR THESE ELEVATIONS.

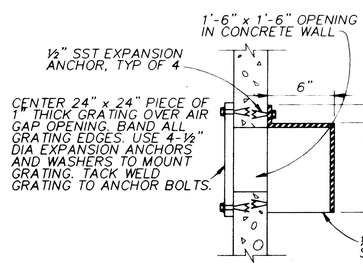
REMOTE AIR GAP CHAMBER (2)

NTS

WELL SITE	a (MIN)	PIPE DIAMETER (IN) (1)	(2)	(3)	PIPE (1) INVERT ELEV
THOMAS NO. 1	2'-0"	8"	12"	16"	5437.49

ELEVATION

NTS



SECTION (A)

NTS

SPLASH COVER (3)

NTS

GENERAL STRUCTURAL NOTES:

1. MINIMUM CLEARANCE FOR REINFORCEMENT BARS, SHALL BE 3" WHEN PLACED ON GROUND, FOR SURFACES EXPOSED TO WATER OR WEATHER: 1½" CLEARANCE FOR #5 BAR AND SMALLER AND 2" CLEARANCE FOR LARGER BARS. INTERIOR SLABS ¾" CLEARANCE, INTERIOR BEAMS 1½" CLEARANCE.
2. ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THOUGH COLUMNS OR PILASTERS. REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING WALLS. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS.
3. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENT.

REINFORCEMENT LAP DISTANCE (DIMENSIONS IN INCHES)										
	BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
SPACING < 6"	TOP BAR	21	29	36	46	62	82	104	132	163
	OTHER BAR	15	20	26	33	45	59	74	95	116
SPACING > 6"	TOP BAR	17	23	29	37	50	66	83	106	130
	OTHER BAR	12	16	20	26	36	47	60	76	93
HOOKS SHALL SATISFY ACI 318 83										

4. PROVIDE AND INSTALL 6" THICK OF COMPACTED SUBGRADE MATERIAL (95% COMPACTION) UNDER ALL SLABS.
5. ALL EMBEDDED PIPING, TUBING, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SUPPORTED TO PROVIDE A MINIMUM OF 1" CLEARANCE FROM ALL REINFORCING.
6. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 4000 psi.
7. REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 60,000 psi.

RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 10/12/94

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

SCANNED BY BY LASON

CH2M HILL

26 4366.931394

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
WORK INSPECTED BY DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.

REVISIONS

NO.	DATE	BY	REMARKS
			DESIGN DATE 3/91
			DESIGNED BY D. SANCHEZ DATE 7/93
			DRAWN BY M. BREWER DATE 7/93
			CHECKED BY J. WINTERS DATE 7/93

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS AND THOMAS RESERVOIRS
THOMAS WELL NO. 1 WASHLINE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

DRAWING NO. 4366.93 MAP NO. F-20 SHEET 13 OF 13

ABQ34474.IO/4474WW01.DWG
1=20
7-27-93