

CITY OF ALBUQUERQUE, NEW MEXICO

PORTED RISERS 2012

CONSTRUCTION PLANS FOR

PORTED RISERS

PIEDRA LISA DAM

CITY PROJECT NO. 4400.00

INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	G-001 COVER SHEET
2	C-500 MISCELLANEOUS DETAILS
3	C-501 FRAME & DOOR DETAILS
4	SHEET 1 OF 14 PIEDRA LISA DAM COVER SHEET AS-BUILTS - FOR INFORMATION ONLY
5	SHEET 5A OF 14 PIEDRA LISA DAM AS-BUILTS - FOR INFORMATION ONLY
6	SHEET 9 OF 14 PIEDRA LISA DAM PRINCIPAL SPILLWAY & TYPICAL DAM SECTION AS-BUILTS - FOR INFORMATION ONLY
7	SHEET 12 OF 14 PIEDRA LISA DAM TRASH RACK AS-BUILTS - FOR INFORMATION ONLY

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF MOLZEN-CORBIN & ASSOCIATES, AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MOLZEN-CORBIN & ASSOCIATES.

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS, AND PREVIOUS CONSTRUCTION DOCUMENTS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THESE DRAWINGS. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL DISTRIBUTIONS. SHALL A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

CERTIFICATION:

I, DANIEL W. HOGAN, REGISTERED PROFESSIONAL ENGINEER NO. 9094 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF



I, DANIEL W. HOGAN, CERTIFY THAT THIS ELECTRONIC VERSION IS IDENTICAL TO THE ORIGINAL REPRODUCIBLE RECORD DRAWING. SIGNED BY ME ON 5-30-12

N.M.P.E.

NO. 9094

Construction Project Information

City Inspector: Olga Lopez
City Project Coordinator: Not Applicable
Urban Program Supervisor: Don Morales
Construction Engineer: Bryan Wolfe
Contractor: Albuquerque Asphalt
Contractor Project Manager: Dan Fisher
Surveyor: Not Applicable
City Project Manager: Sertil Kanbar
Letter of Acceptance Date: April 19, 2013

RECORD DRAWING ACCEPTANCE:

THIS SET OF DRAWINGS IS ACCEPTED FOR RECORD PURPOSES BY:

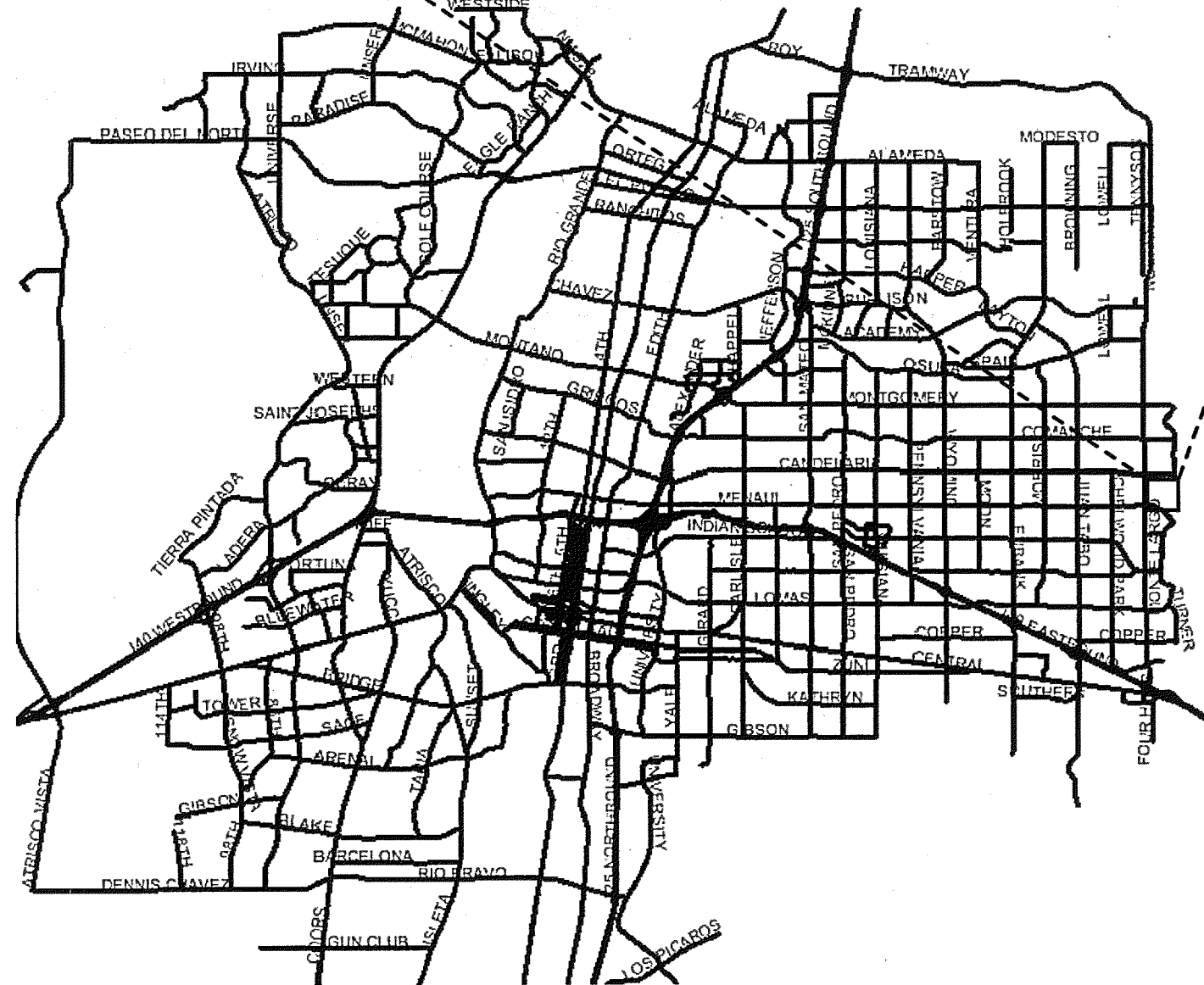
Bryan Wolfe, **BRYAN WOLFE, P.E.** 4/15/2013
DATE

RECORD DRAWING	
DATE:	DRAWN BY:
03/2013	MOLZEN CORBIN
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

NUMERIC SCALE CONFIRMATION	
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES	
IF THIS BAR EQUALS ONE INCH	



VICINITY MAP ENLARGEMENT

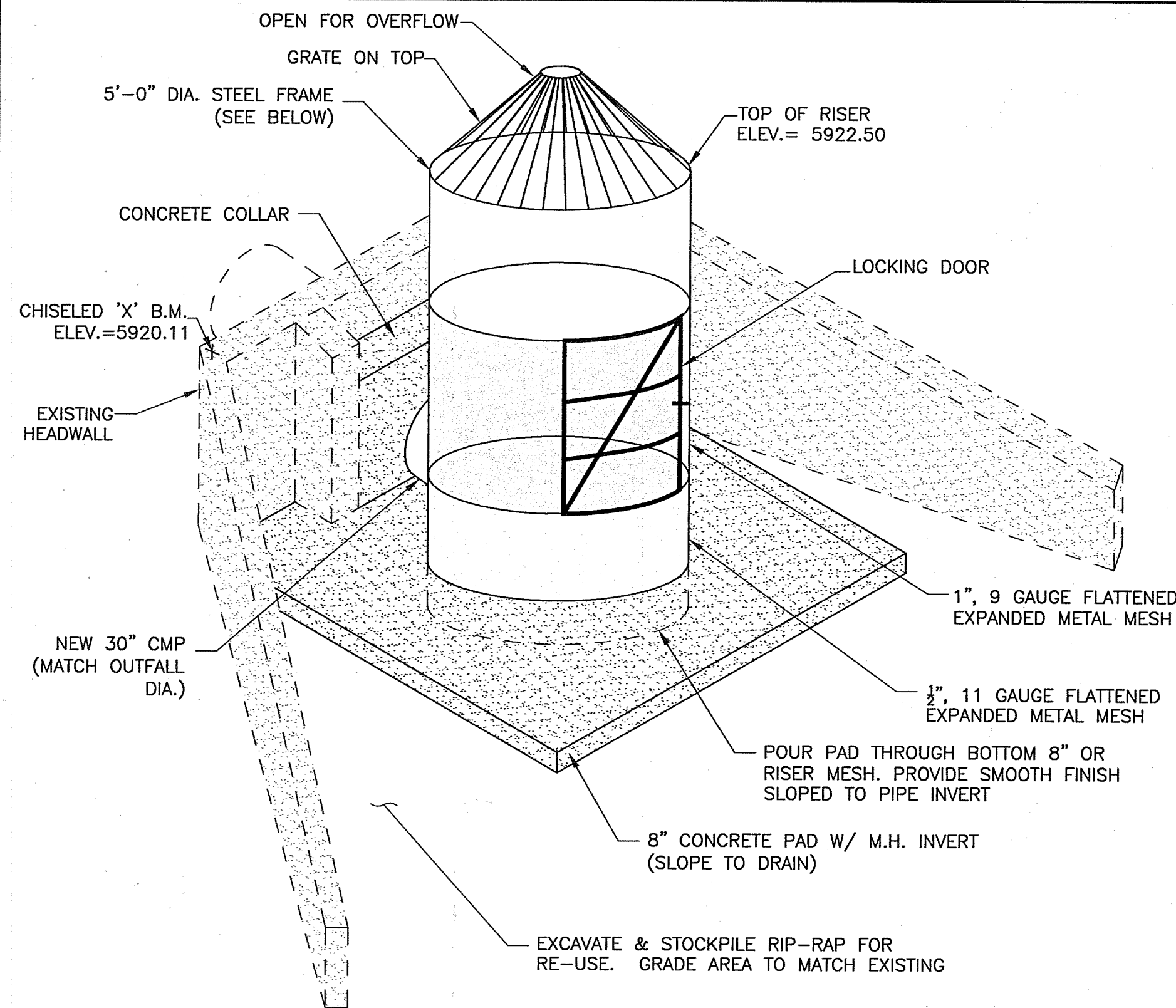


VICINITY MAP
COA ZONE ATLAS MAP H-23

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

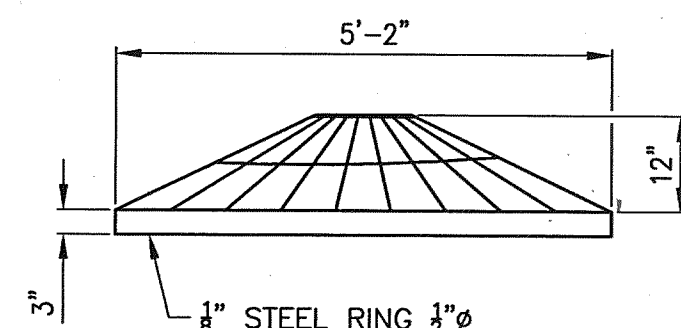
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman				APPROVED FOR CONSTRUCTION	
		Transportation					
		Water/Wastewater					
		Hydrology					
		Aviation					
		Constr. Mngnt.				City Engineer	Date
		City Project No.				Sheet	1 of 7
		4400.00				G-001	



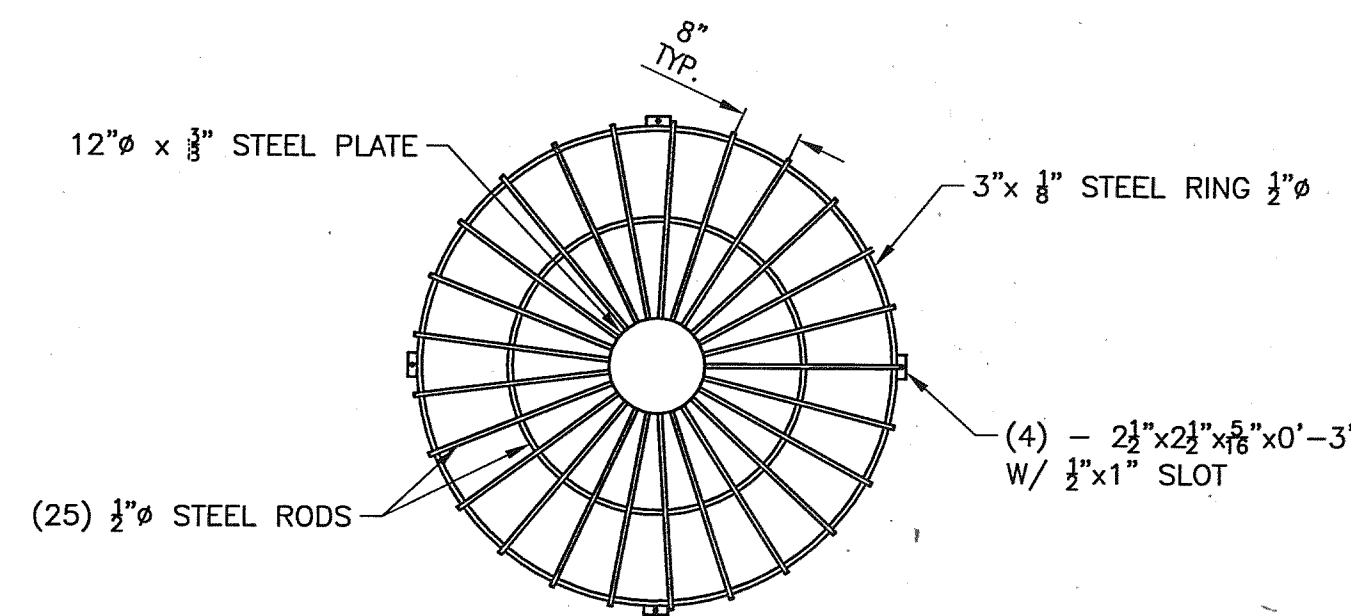
PORTED RISER DETAIL
SCALE: N.T.S.

GENERAL NOTES:

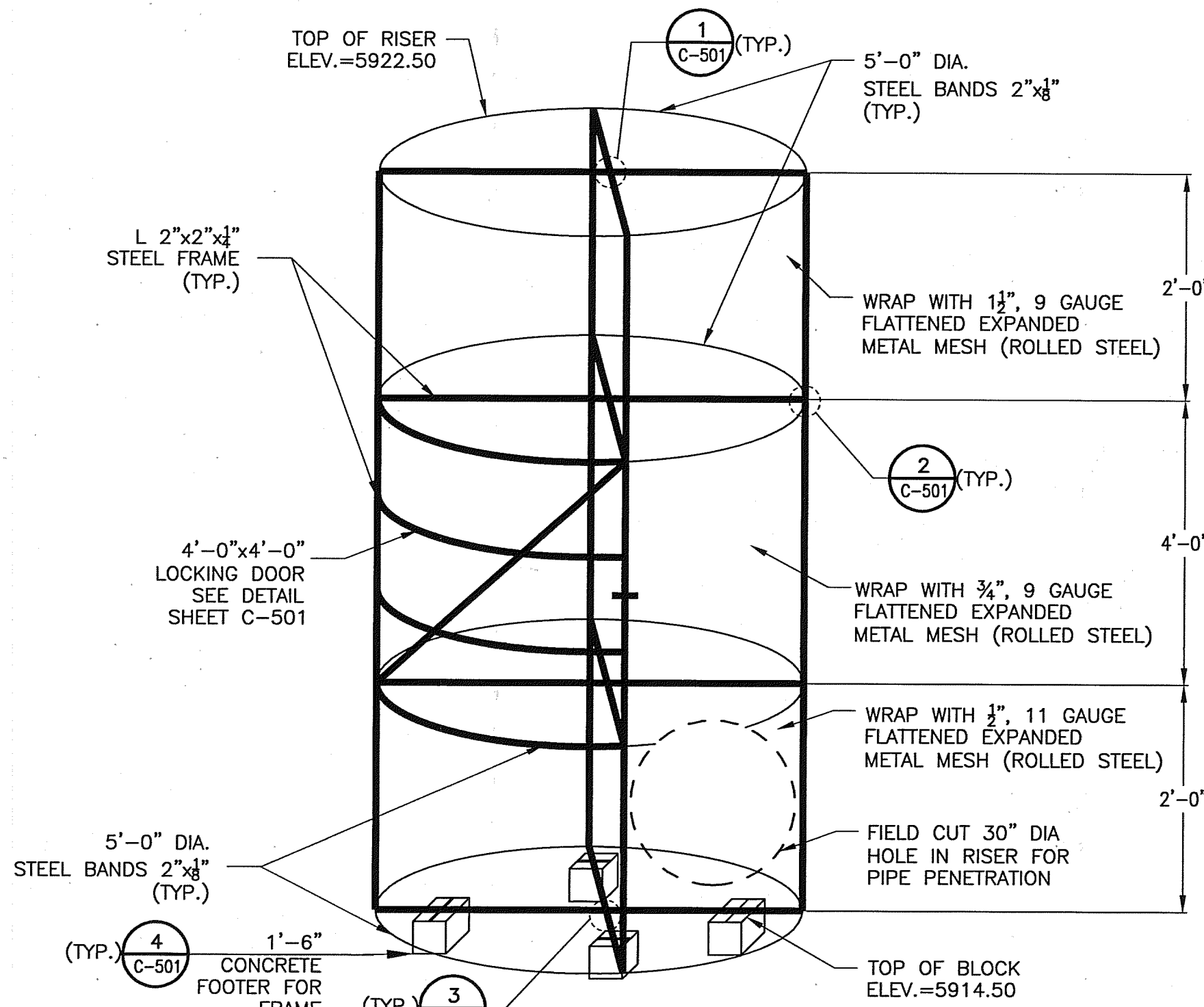
1. RISER COMPONENTS SHALL BE JOINED WITH CONTINUOUS FILLET WELDS. GRIND OFF ALL BURRS AND SHARP EDGES.
2. STRUCTURE SHALL BE SHIMMED AS NECESSARY PRIOR TO FIELD WELDING.
3. NO SURFACE TREATMENT SHALL BE REQUIRED ON STEEL
4. TACK WELD EXPANDED METAL MESH TO INSIDE OF BAND AT 6" O.C.



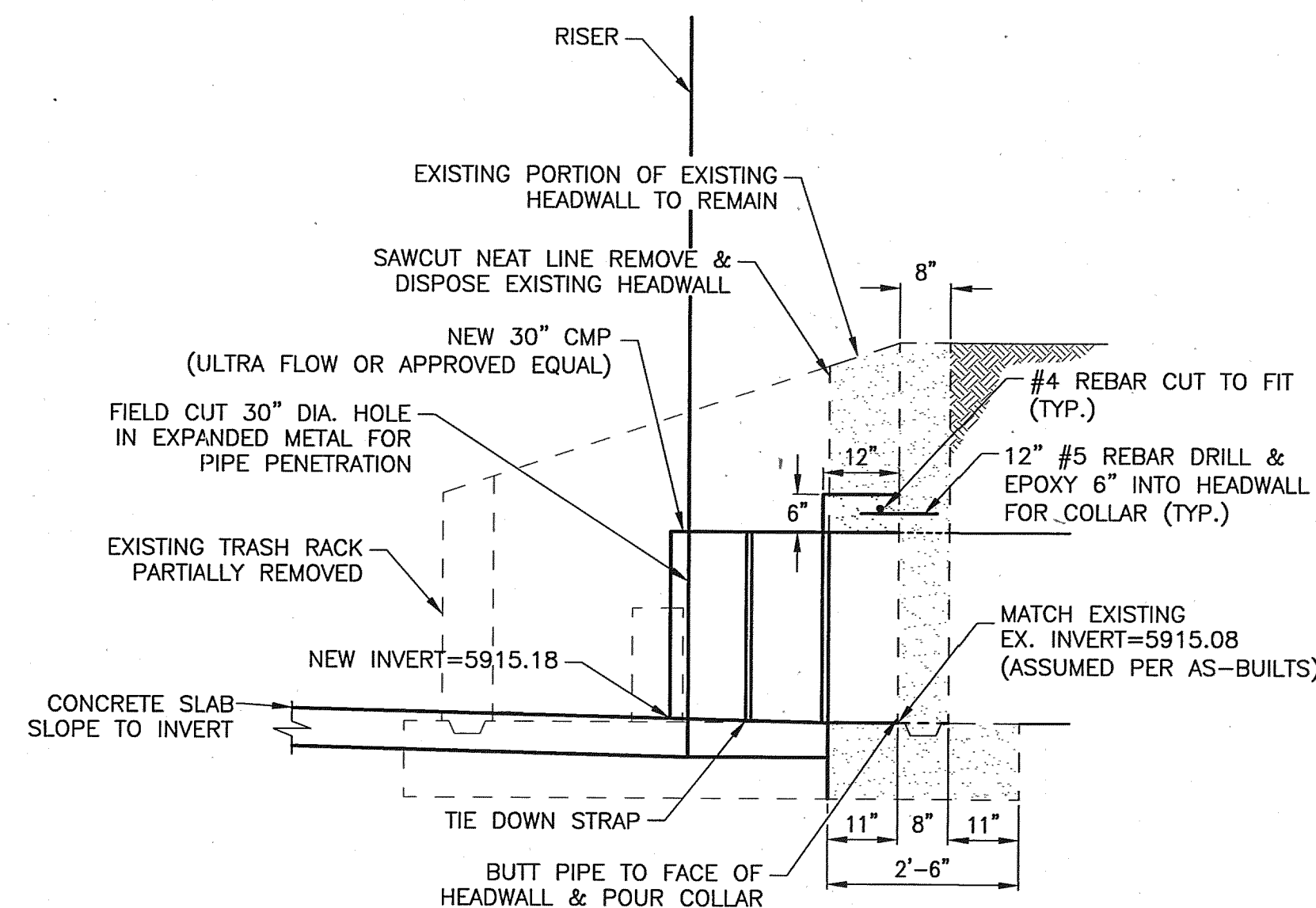
TOP RACK DETAIL
SCALE: 1"=2'



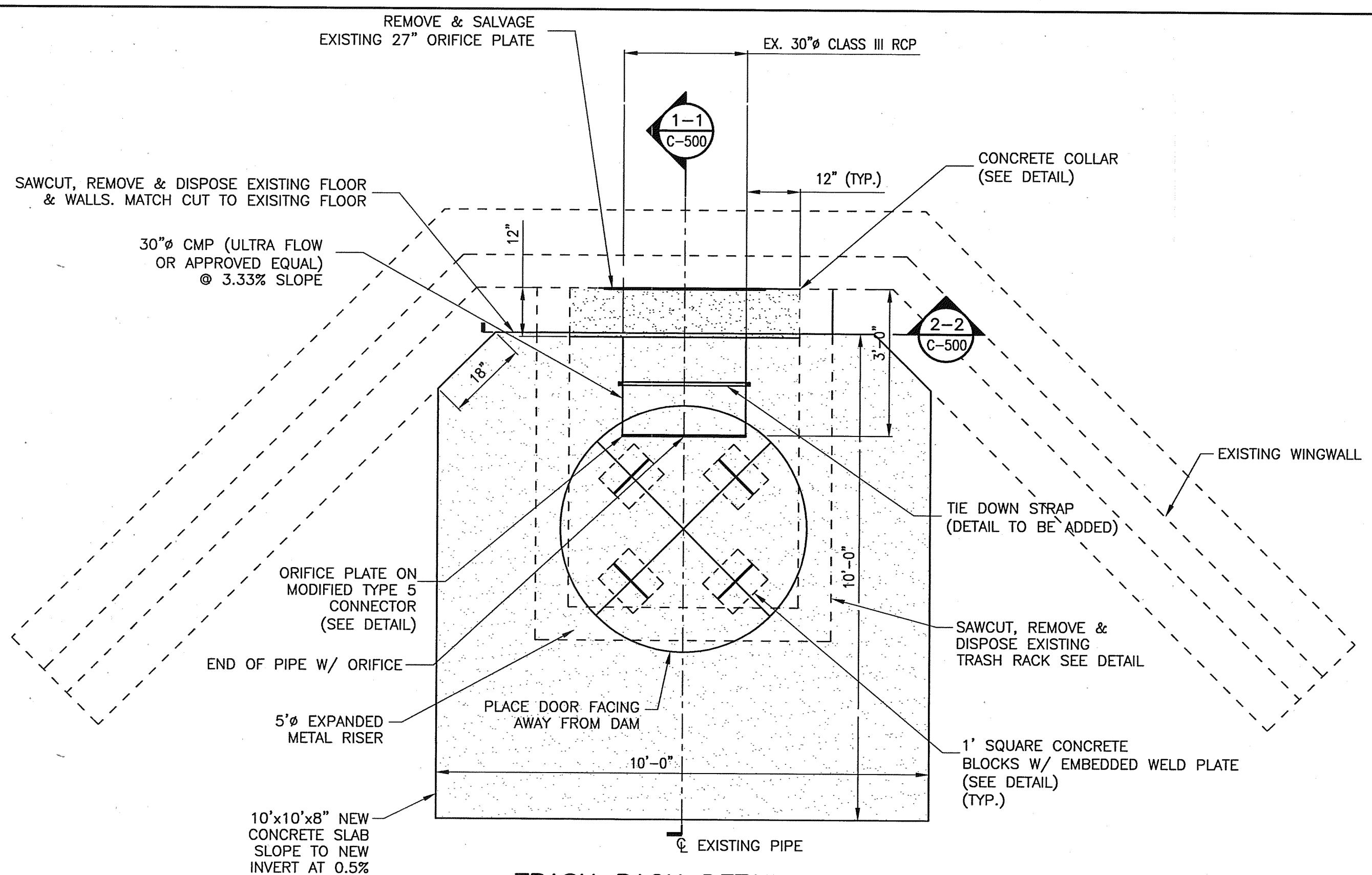
TOP RACK DETAIL
SCALE: 1"=2'



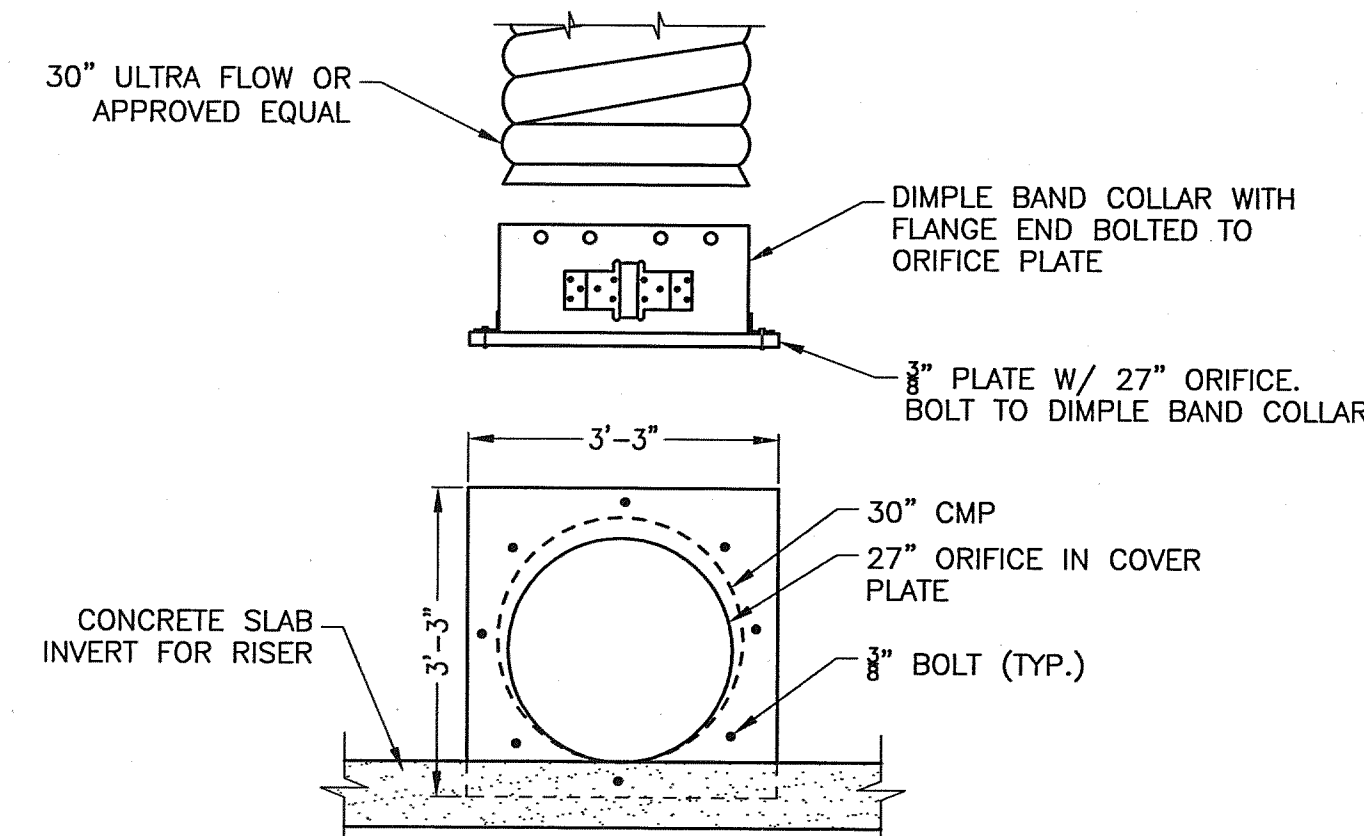
FRAME DETAIL
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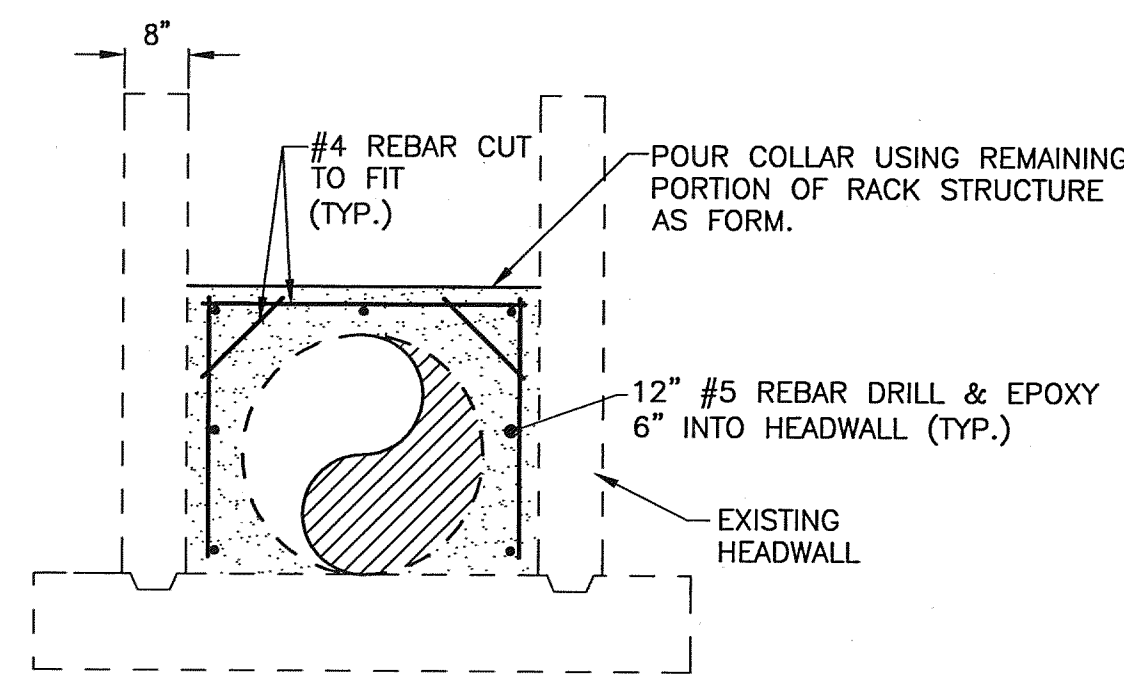
SIDE WALL DETAIL
SCALE: 1"=2'



TRASH RACK DETAIL
SCALE: 1"=2'



ORIFICE PLATE ON MODIFIED TYPE 5 CONNECTION
SCALE: 1"=2'



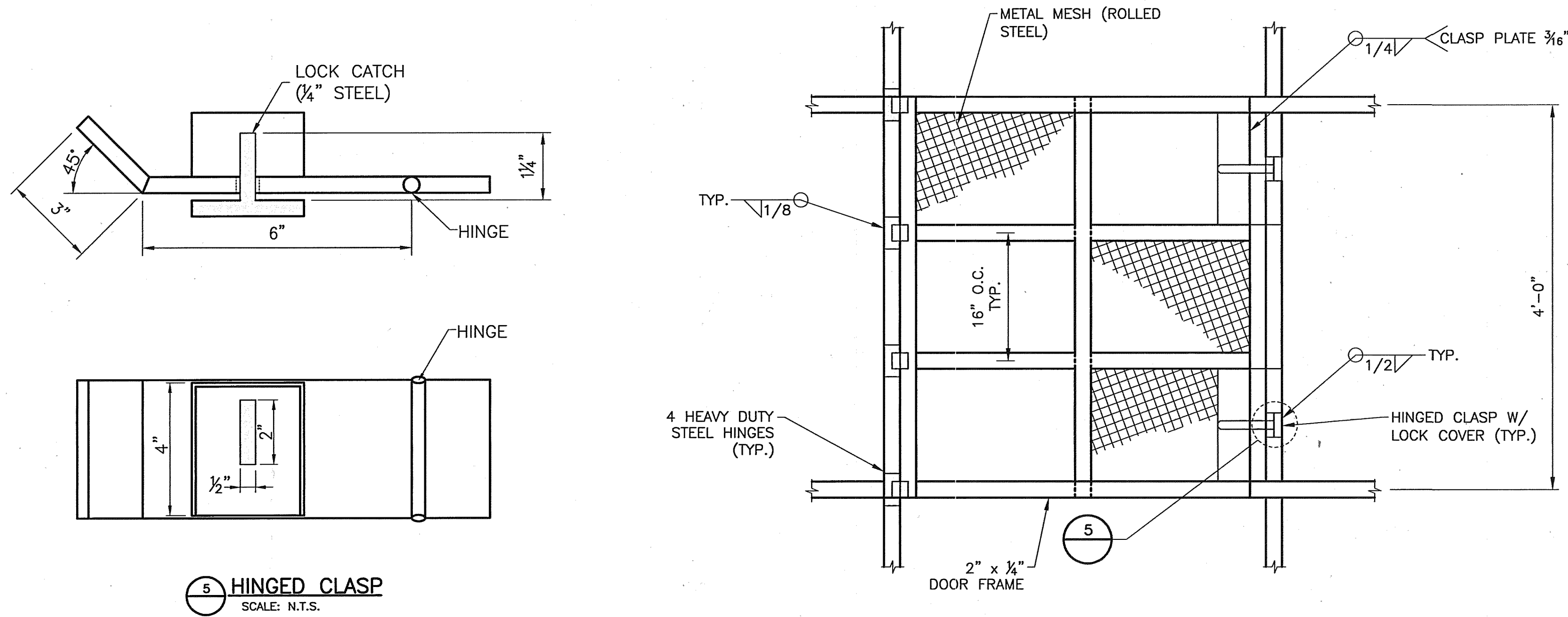
COLLAR DETAIL (BACK WALL)
SCALE: 1"=2'

RECORD DRAWING	
DATE: 03/2013	DRAWN BY: MOLZEN CORBIN
THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

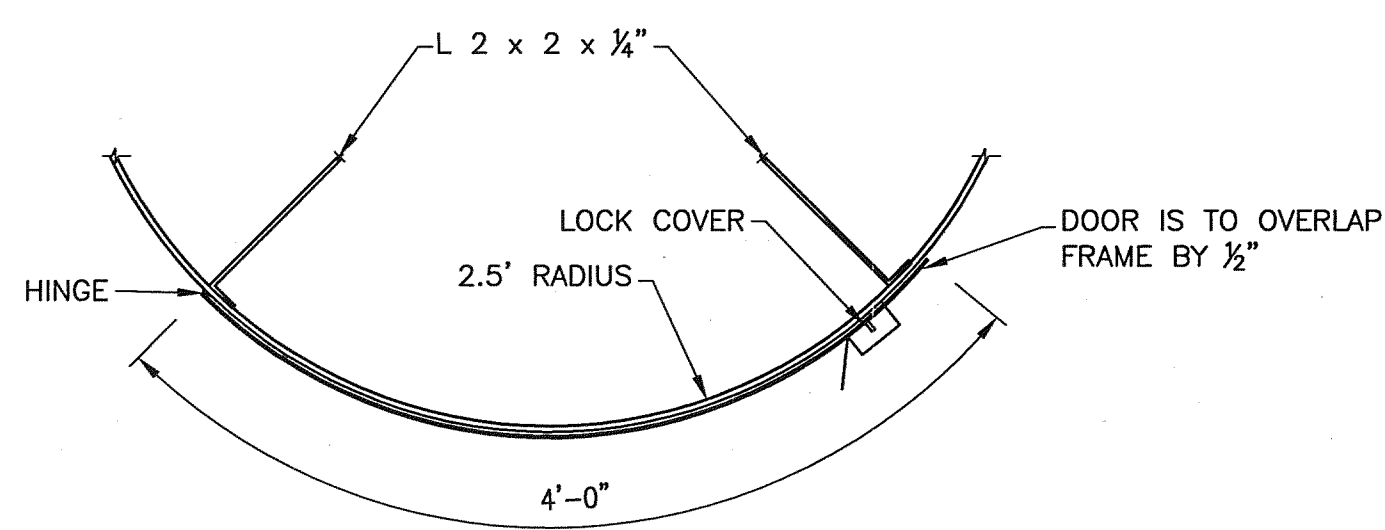
MOLZENCORBIN

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: PORTED RISERS			
PIEDRA LISA DAM MISCELLANEOUS DETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 4400.00	Zone Map No. H-23	Sheet 2	Of 7
REDRAWN FOR RECORD PURPOSES			

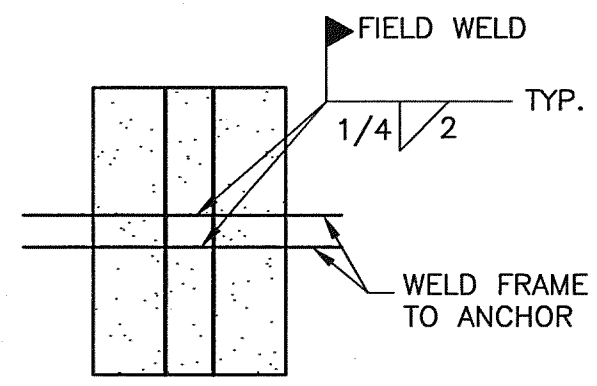
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ELEVATIONS ARE PER AS-BUILT DRAWINGS	DATE	FIELD NOTES	NO.	BY	REMARKS
FOR THE PIEDRA LISA DAM	DATE	ALBUQUERQUE, NEW MEXICO 1981	DATE	COA PROJECT NUMBER 01510 (NGVD03)	DATE	DATE	DATE
FIELD ACCEPTANCE BY	DATE	ATTACHED FOR INFORMATION PURPOSES	DATE	RECORDED BY	DATE	DATE	DATE
DRAWINGS	DATE	NO.	DATE	DATE	DATE	DATE	DATE



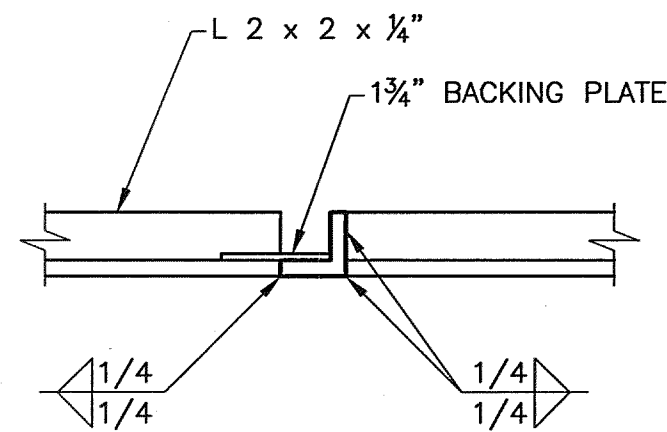
5 HINGED CLASP
SCALE: N.T.S.



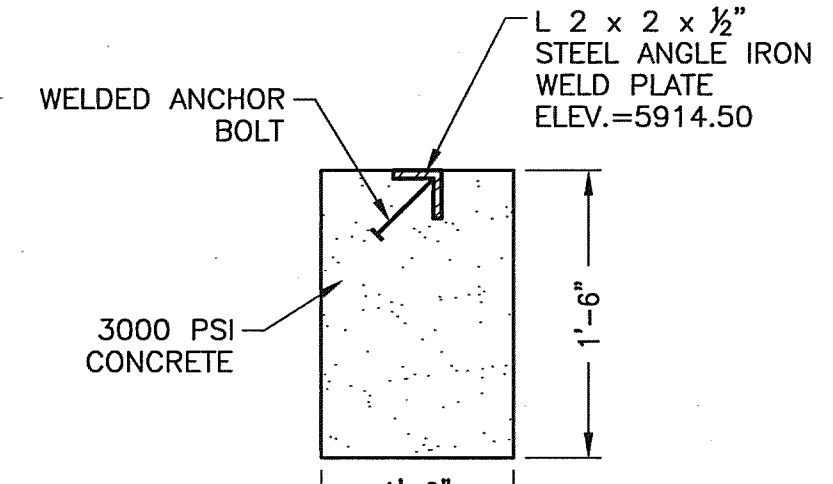
5 DOOR DETAIL
SCALE: N.T.S.



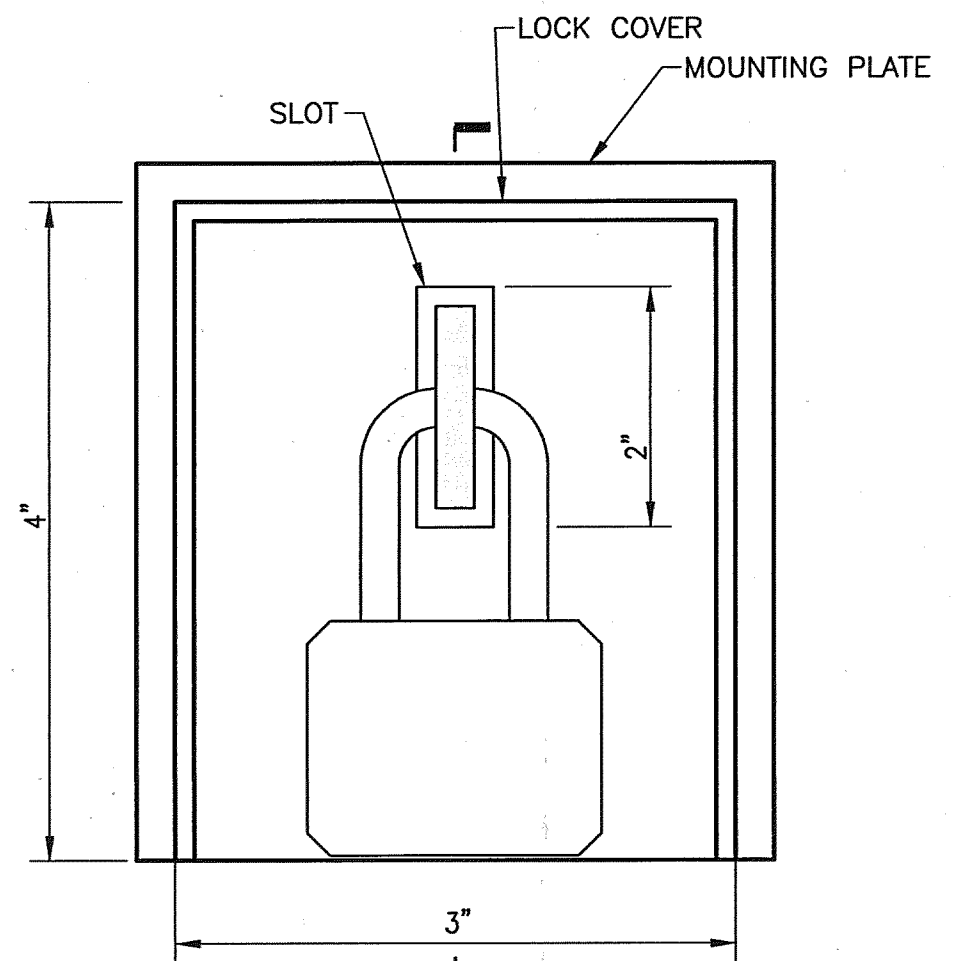
FOOTER CONNECTION DETAIL
SCALE: 1"=1'



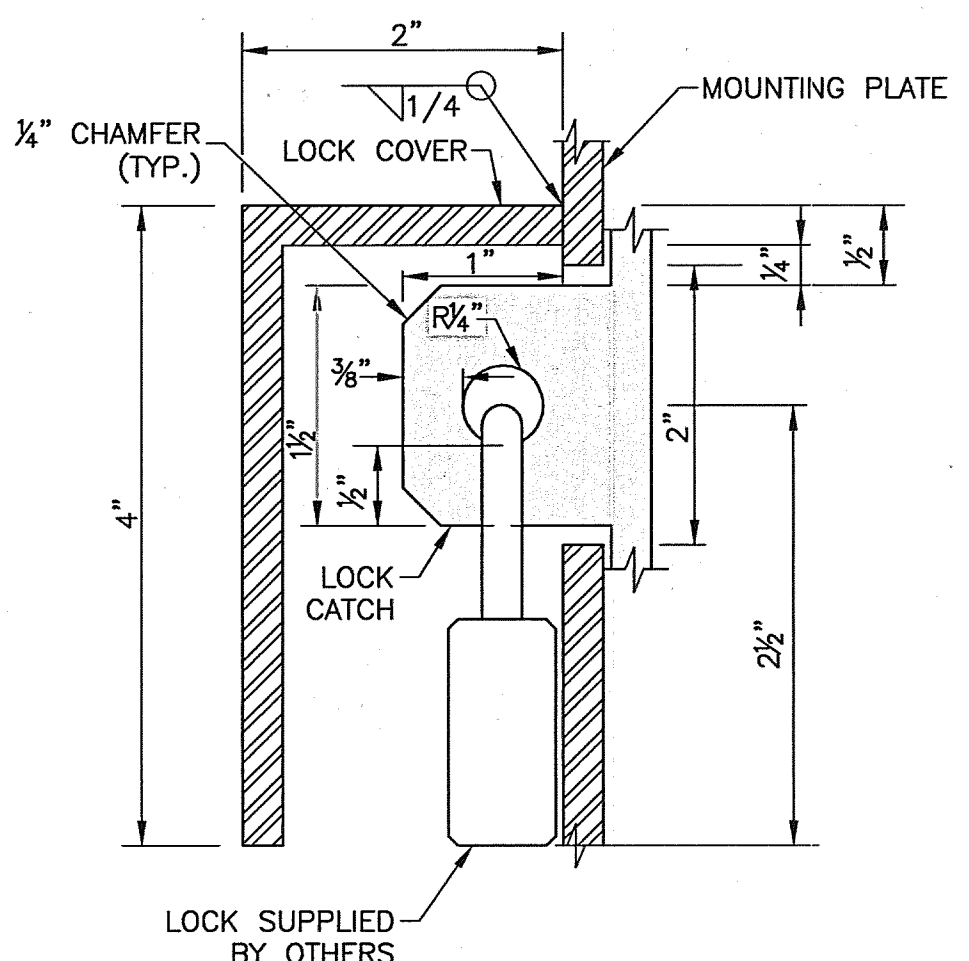
3 BOTTOM CROSS BRACE WELD
SCALE: N.T.S.



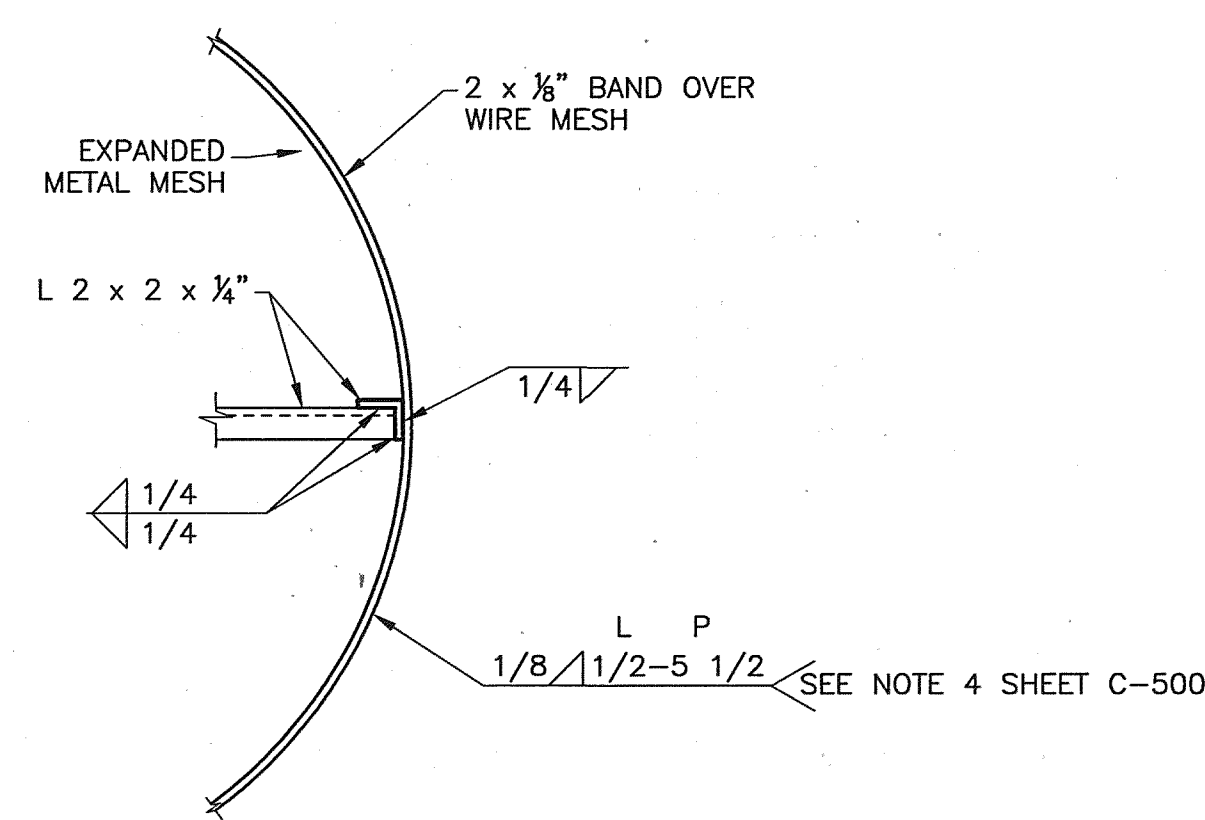
4 FOOTER DETAIL
SCALE: N.T.S.



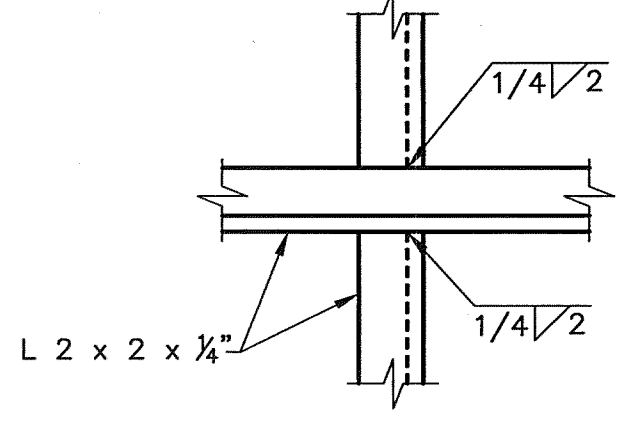
LOCK COVER
SCALE: N.T.S.



SECTION - A
SCALE: N.T.S.



2 CROSS BRACE & BAND WELD
SCALE: N.T.S.



1 CROSS BRACE WELD (TYP.)
SCALE: N.T.S.

RECORD DRAWING	
DATE:	DRAWN BY:
03/2013	MOLZEN CORBIN
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MOLZENCORBIN

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: PORTED RISERS			
PIEDRA LISA DAM FRAME & DOOR DETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
Last Design Update			
City Project No.		Zone Map No.	Sheet 3 Of 7
4400.00		H-23	C-501
REDRAWN FOR RECORD PURPOSES			

BENCH MARKS		AS BUILT INFORMATION	
ELEVATIONS ARE PER AS-BUILT DRAWINGS	CONTRACTOR	DATE	DATE
FOR THE PIEDRA LISA DAM	STARTED BY		
ALBUQUERQUE, NEW MEXICO 1981	INSPECTOR'S		
COA PROJECT NUMBER 01510 (N61029)	FIELD		
ATTACHED FOR INFORMATION PURPOSES	NO. OF		
	CORRECTED BY		
	DATE		
MICRO-FILM INFORMATION			
RECORDED BY	DATE		
NO.			

PIEDRA LISA DAM *As built*

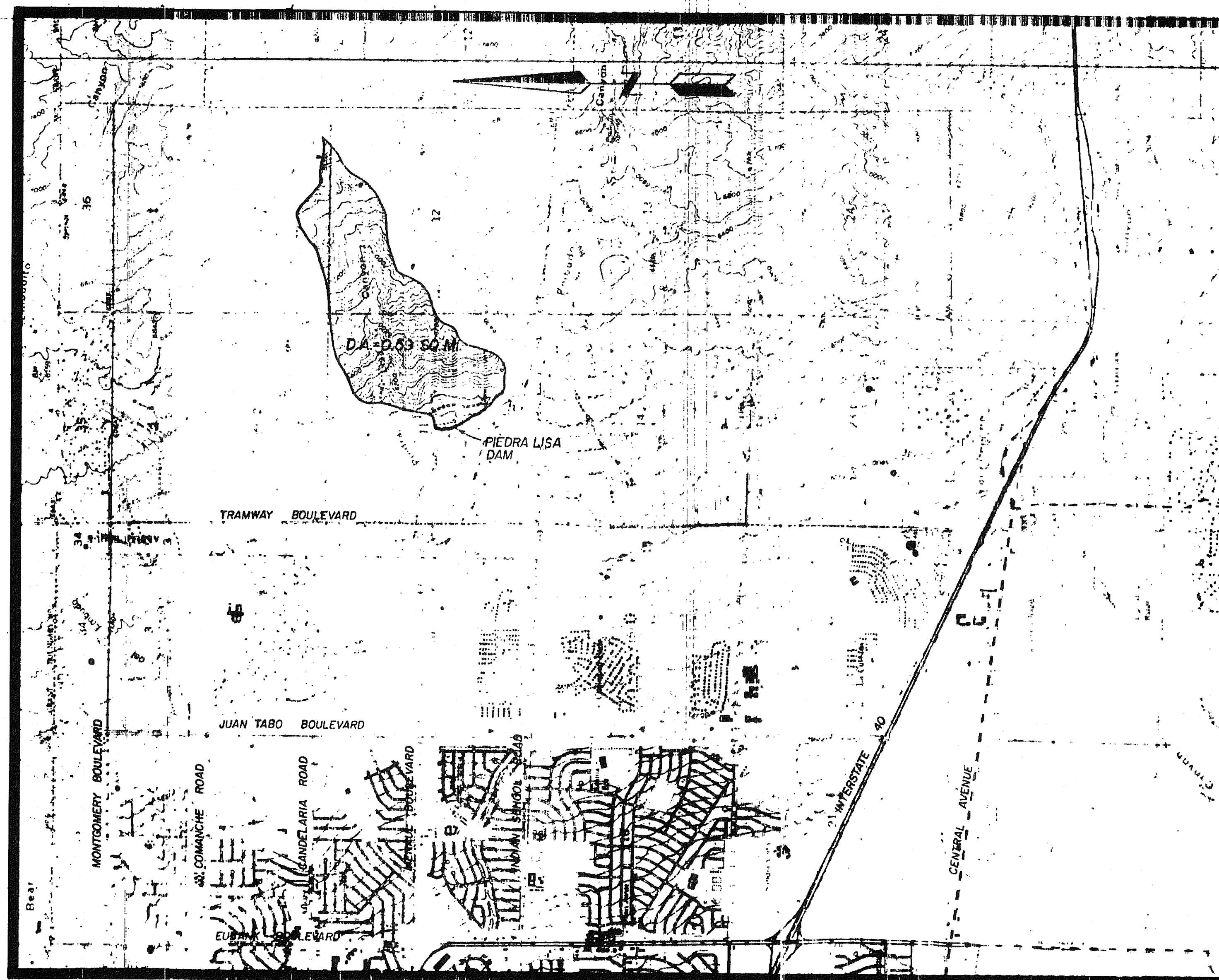
ALBUQUERQUE, NEW MEXICO

1981

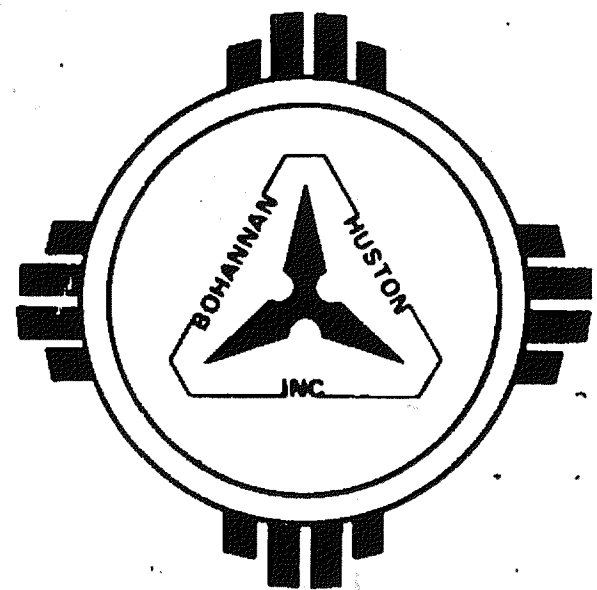


INDEX OF SHEETS

SHEET NO.	TITLE
1.	COVER SHEET
2.	HYDROLOGY
3.	LOGS OF TEST HOLES
4.	DAM KEY TRENCH
5.	DAM TOPOGRAPHY
5A.	DAM TOPOGRAPHY AS-BUILT
6.	NORTH INLET CHANNEL
7.	SOUTH INLET CHANNEL
8.	CHANNEL DETAILS
9.	PRINCIPAL SPILLWAY
10.	EMERGENCY SPILLWAY
11.	EMERGENCY SPILLWAY DETAILS
12.	TRASH RACK
13.	BAR BENDING SCHEDULE
14.	BAR BENDING SCHEDULE



VICINITY AND GENERAL AREA MAP
NO SCALE



STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

I, Charles J. Mead, state that I am a Registered Professional Engineer qualified in Civil Engineering and that the accompanying plans consisting of 14 sheets were prepared by me or under my direction and are true and correct to the best of my knowledge and belief.

Charles J. Mead, P.E.
New Mexico Registered Professional Engineer
No. 5318



Subscribed and sworn to before me this 17th day of March, 1981.
My commission expires June 3, 1981.
Notary Public

STATE OF NEW MEXICO)
COUNTY OF SANTA FE)

I hereby certify that the accompanying Plans and Specifications have been duly examined by me and approved as to form and content, and were duly accepted for filing on the 8th day of April, 1981.

S. E. Reynolds

State Engineer
By: *[Signature]* Chief Technical Bureau

PIEDRA LISA DAM

City of Albuquerque Applicant, located in Bernalillo County, State of New Mexico. All courses true. The undersigned, City of Albuquerque Claimant, whose post office address is P.O. Box 1293, Albuquerque, County of Bernalillo, State of New Mexico, has caused to be located by a qualified Registered Engineer the Piedra Lisa Dam, as hereinafter described and indicated, hereby makes these several statements relative thereto and offers this map and statements for acceptance and filing in compliance with the laws of the State of New Mexico.

The Northeast corner of the outlet structure trash rack of Piedra Lisa Dam is situated in Section 11, Township 10 North, Range 4 East, N.M.P.M. at a point whose modified State Plane Coordinates N.M. Central zone is X = 428335.127, Y = 1495306.143.

The Piedra Lisa Dam has the following properties:

Maximum height above foundation	18 Ft.
Length	889 Ft.
Maximum width at base	140 Ft.
Crest width	12 Ft.
Slope upstream face	3:1
Slope downstream face	3:1
Elevation at crest of dam	5928.0 Ft.
Elevation at spillway crest	5924.5 Ft.
Elevation of bottom of trash rack	5915.00 Ft.
Elevation of flow line of outlet conduit	5909.5 Ft.
Freeboard	3.5 Ft.
Width of Spillway	220 Ft.
Discharge capacity of emergency spillway at elevation 5927.9	4973 CFS
Outlet conduit size and type	30" RCP
Outlet conduit capacity	108 CFS
Evacuation Time	13 Hrs.
Drainage area	.59 Sq.M.
Office plate controls inflow to conduit	27 in.
Outlet conduit is uncontrolled	

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

I, Richard Heller, on behalf of the City of Albuquerque, being first duly sworn, upon my oath, state that I have read and examined the accompanying maps and statements (maps and statements consisting of 14 sheets) and know the contents thereof and representations thereon, and state that the same are true to the best of my knowledge and belief.

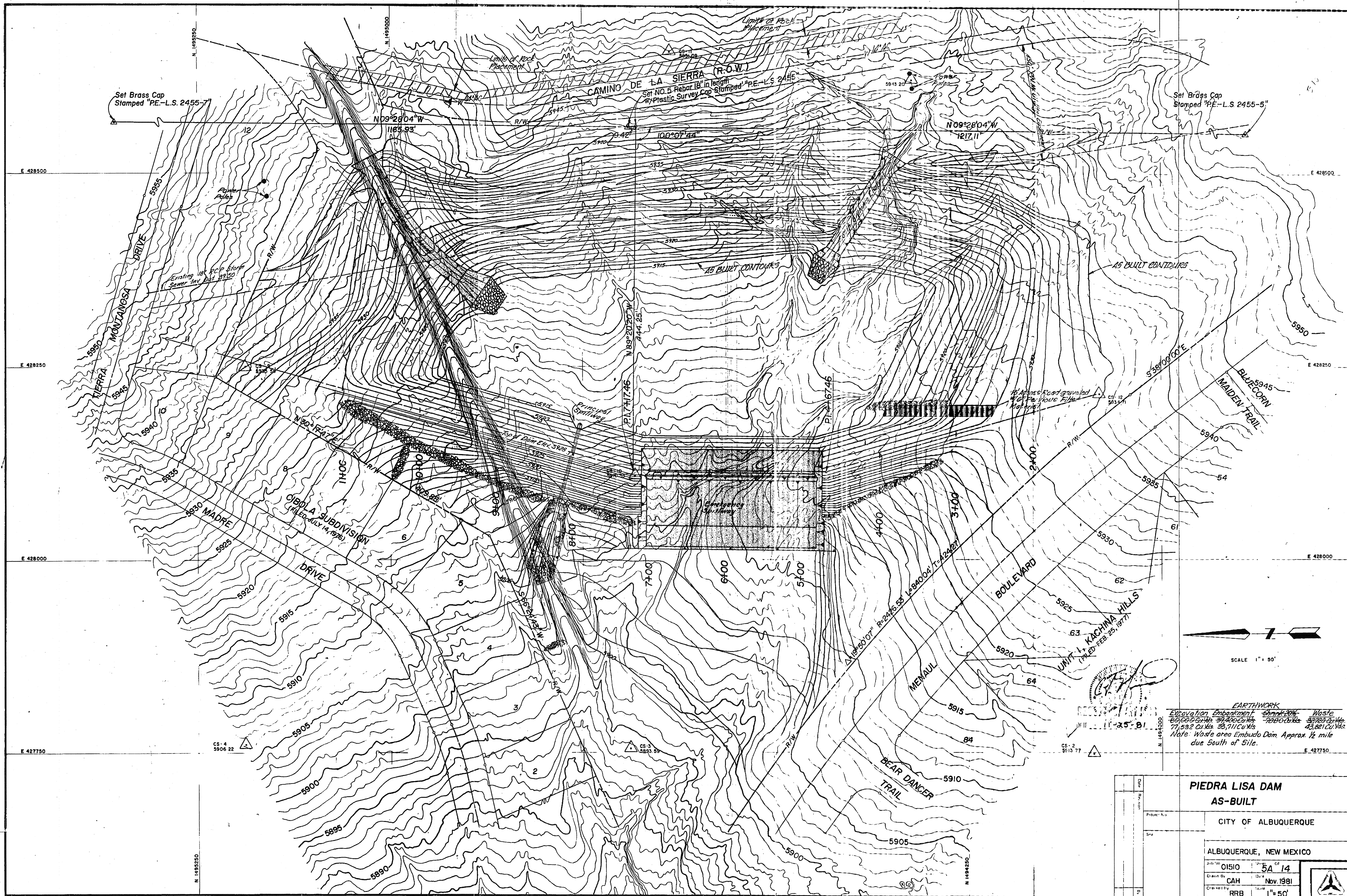
[Signature]
Richard Heller
Authority, Claimant

Subscribed and sworn to before me this 17th day of March, 1981.
My commission expires 12/9/83
Notary Public

As built

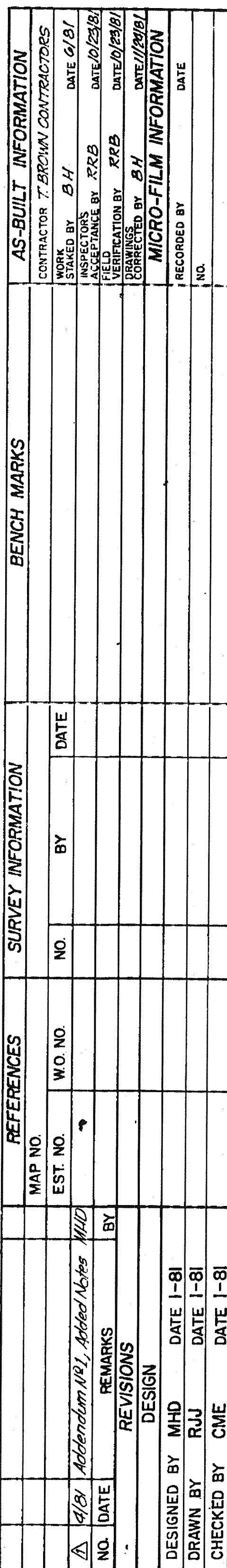


Rec'd April 2, 1982



EARTHWORK	
Excavation	Embankment
65,000 cu yds	39,400 cu yds
77,532 cu yds	38,711 cu yds
Note: Waste area Embudo Dam, Approx. 1/2 mile due South of Site.	

PIEDRA LISA DAM AS-BUILT	
CITY OF ALBUQUERQUE	
ALBUQUERQUE, NEW MEXICO	
Job No. 01510	Sheet 5A of 14
Drawn By CAH	Date Nov. 1981
Checked By RRB	Scale 1" = 50'



As built



1. For bar bending details and schedule, See Sheet 13
2. Splice length shall be 1'-0" (min.).
3. All exposed edges shall have a 1" chamfer.
4. All concrete shall be 3000 p.s.i. 28 day concrete.
5. All rebar shall be Grade 40.
6. Grate, Brackets, and Onifice 12 shall be galvanized.

SHEET 12 OF 14

As built