

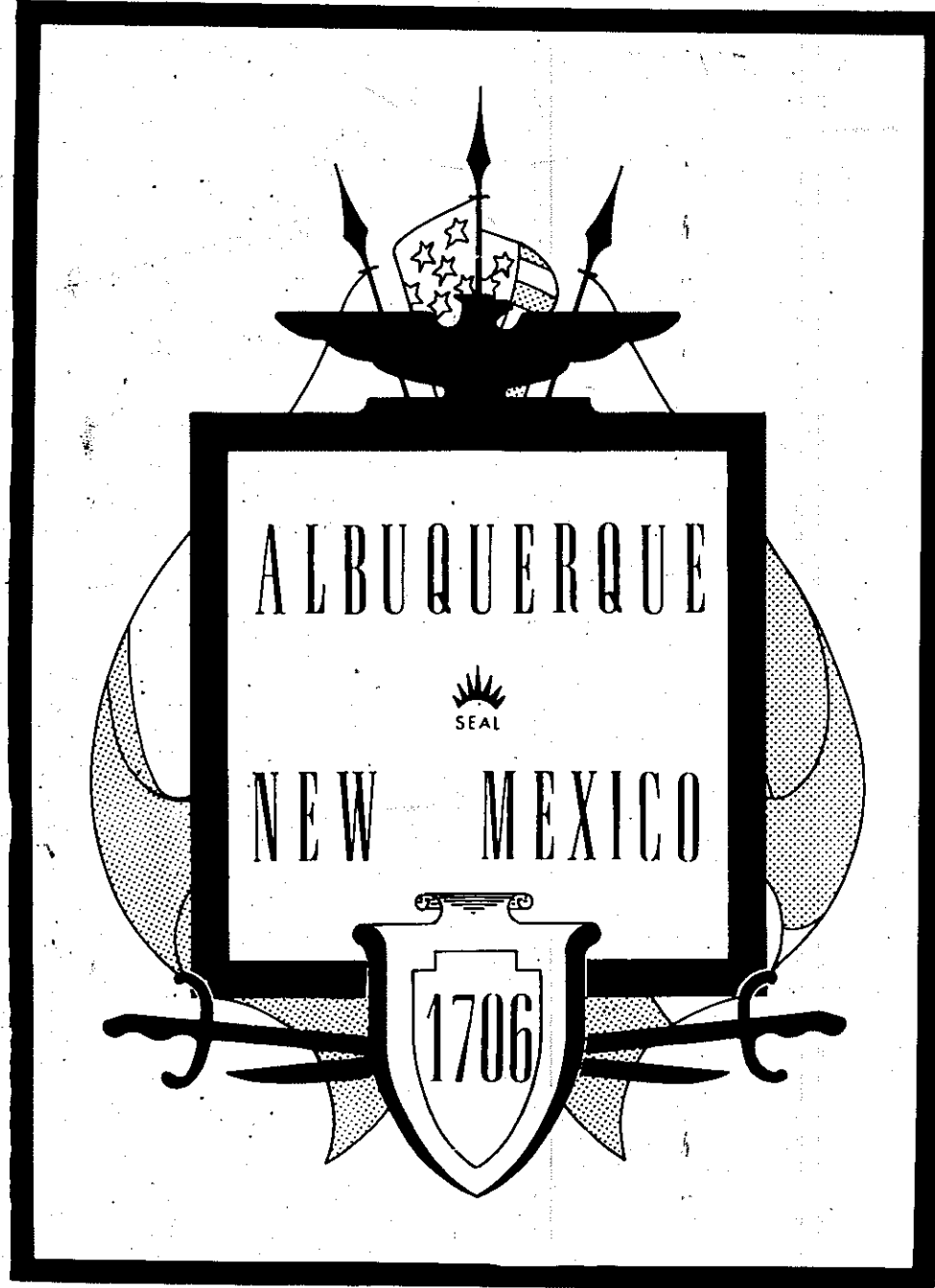
STORM DRAINAGE FACILITIES TRAMWAY EAST EMBUDO DAM

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

I Charles M. Easterling, state that I am a Registered Professional Engineer qualified in civil engineering and that the accompanying plans consisting of 18 sheets were prepared by me or under my direction and true and correct to the best of my knowledge and belief.

Charles M. Easterling
Charles M. Easterling
Registered Professional Engineer

License No. 6411

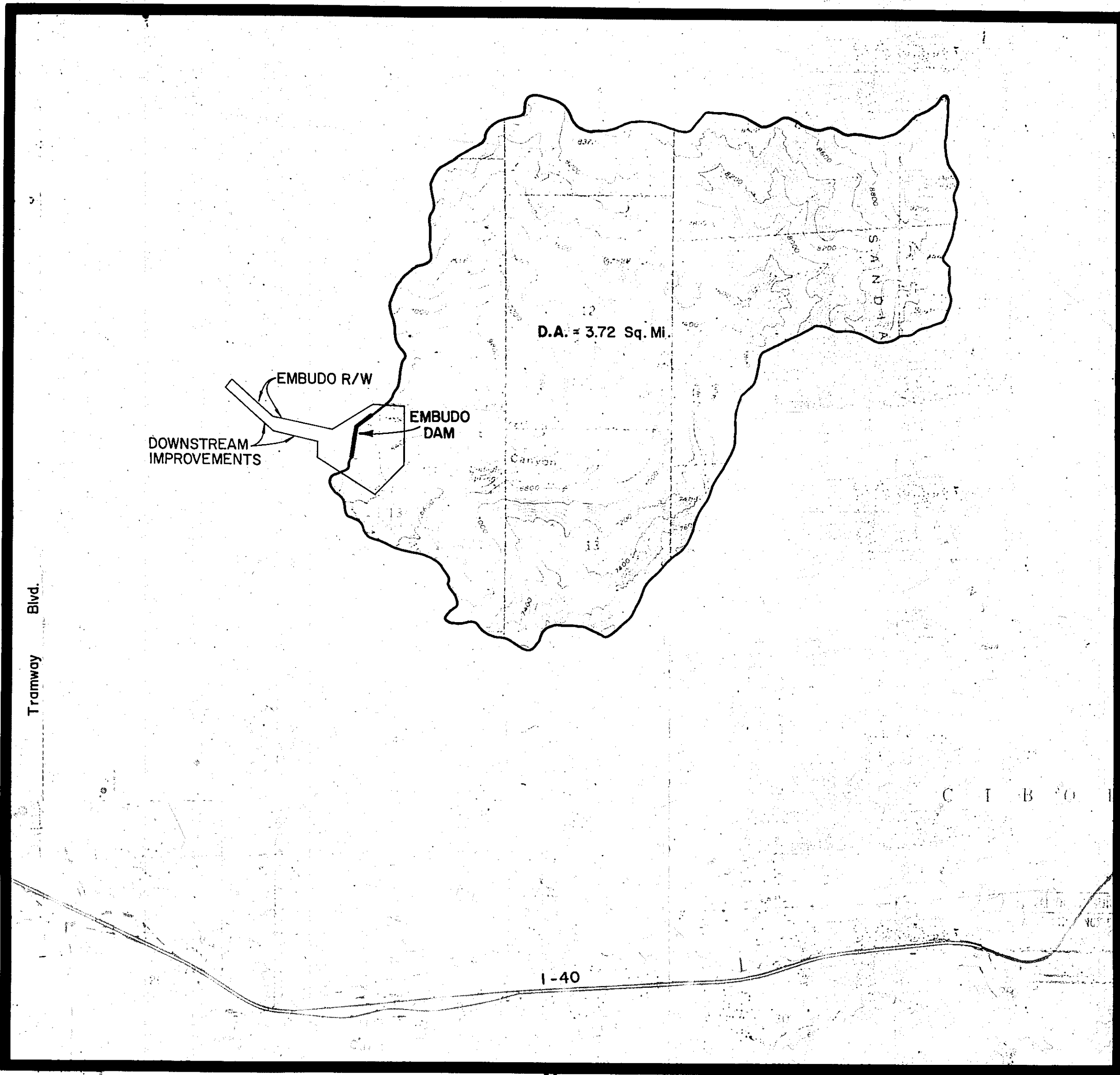


SHEET NO.

INDEX

TITLE

1.	TITLE SHEET
2.	HYDROLOGY
3.	DAM PROFILE
4.	DAM TOPOGRAPHY
5.	KEY TRENCH PLAN AND PROFILE
6.	UPSTREAM ENTRANCE CHANNEL
7.	DOWNSTREAM CHANNEL
8.	DAM CROSS SECTION
9.	TRASH RACK CONCRETE DETAILS
10.	TRASH RACK STRUCTURAL STEEL DETAILS
11.	IMPACT STILLING BASIN DETAILS
12.	STILLING BASIN BAR DETAILS
13.	EMERGENCY SPILLWAY DETAILS
14.	TYPICAL RETAINING WALL DETAILS
15.	EMERGENCY SPILLWAY ENERGY DISSIPATER
16.	DOWNSTREAM DROP STRUCTURE
17.	UPSTREAM DROP STRUCTURE
18.	FENCE DETAIL



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
08	00	1	0	1	7	9								20																

DRAINAGE AREA AND LOCATION MAP
SCALE 1"=2000'

APPROVAL OF AS-BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
C. M. Easterling
DATE 6/27/79

Date 6/27/79 AS-BUILT

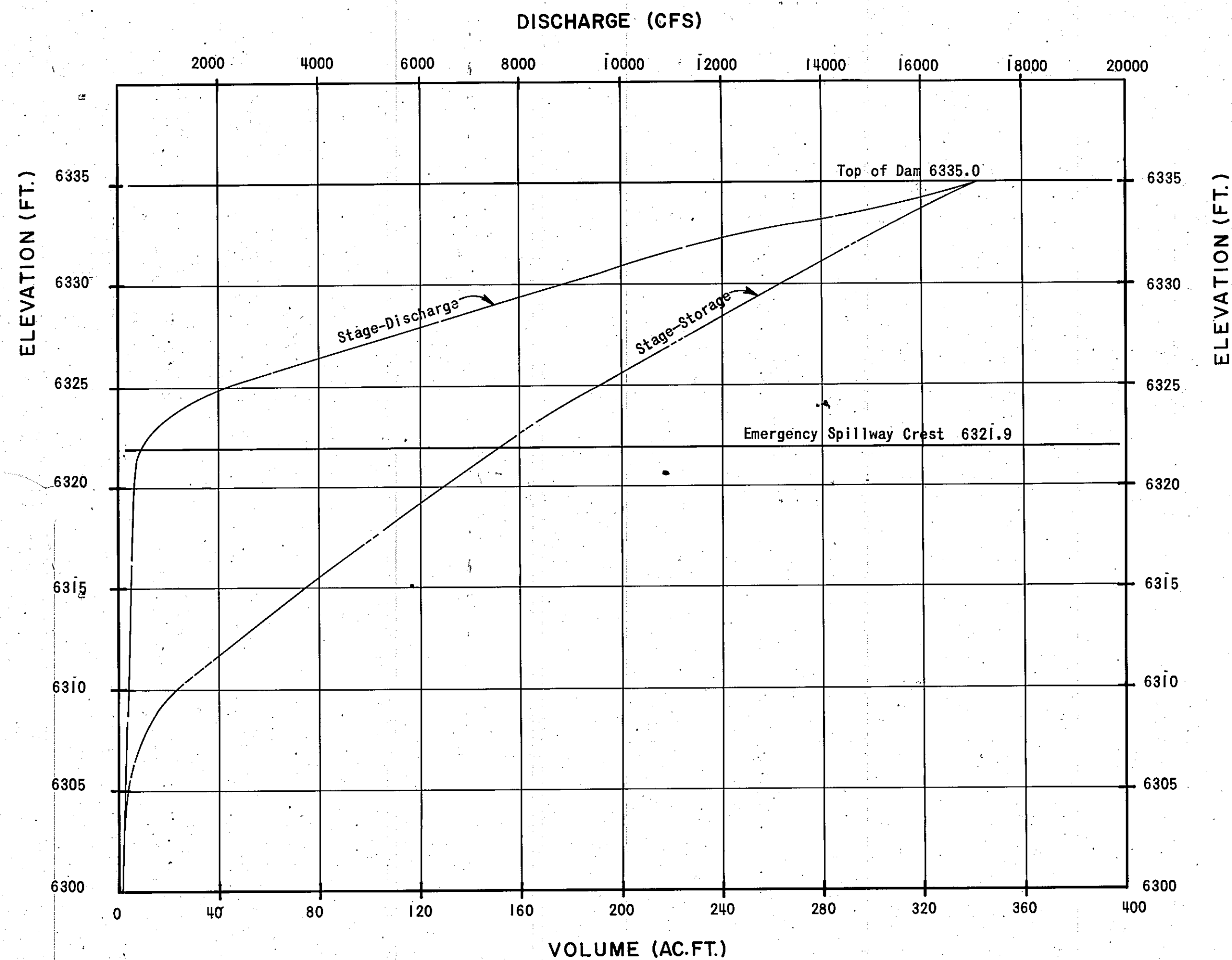


NOTE: HYDROLOGY REF.
SOIL CONSERVATION SERVICE
NATIONAL ENGINEERING HANDBOOK SEC-4

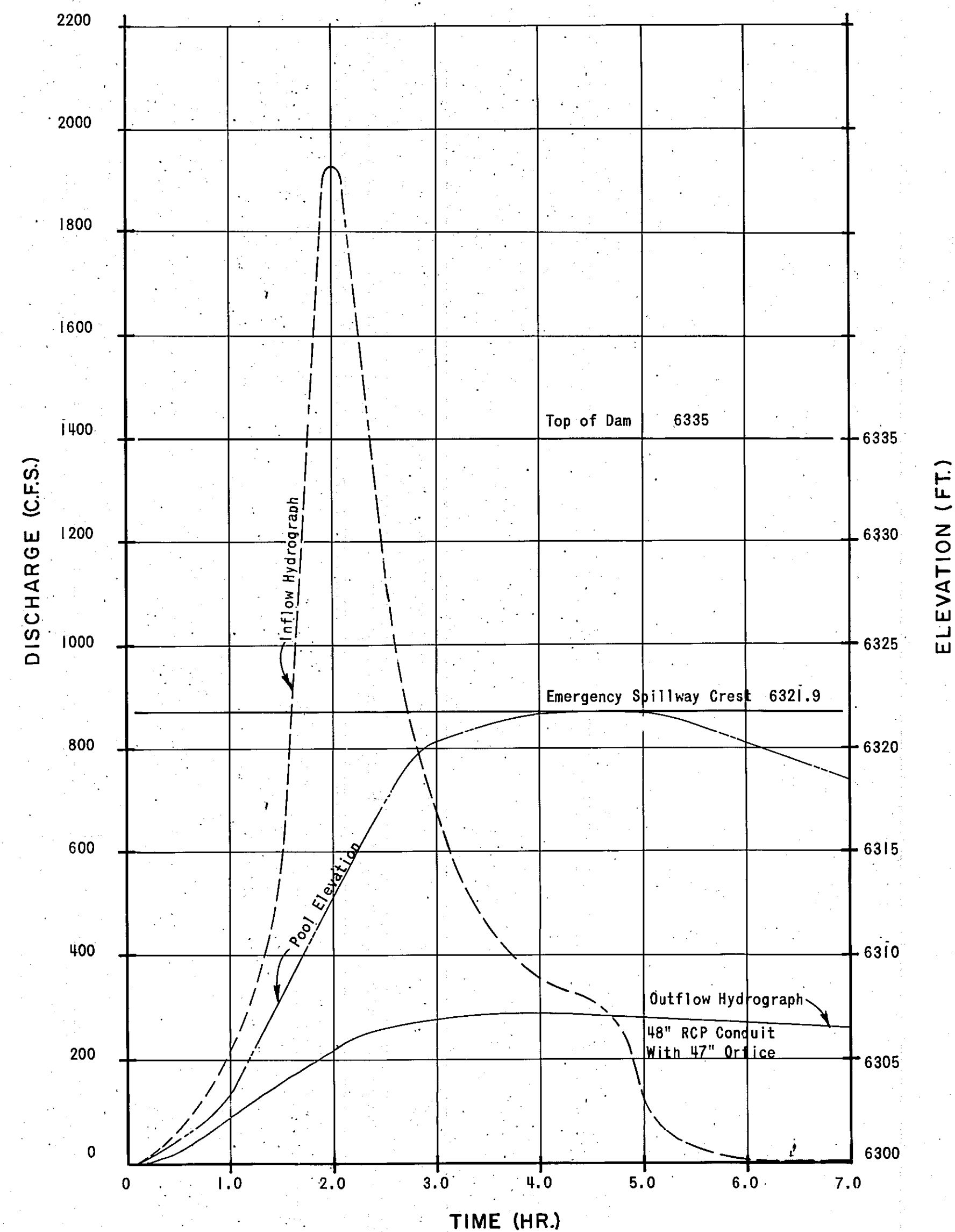
STRUCTURE CLASS C

RAINFALL
6 HR - PMP = 17.0 IN
6 HR - 100 YR = 2.8 IN

HYDRAULICS REF.
KING & BRATER FIFTH ED.

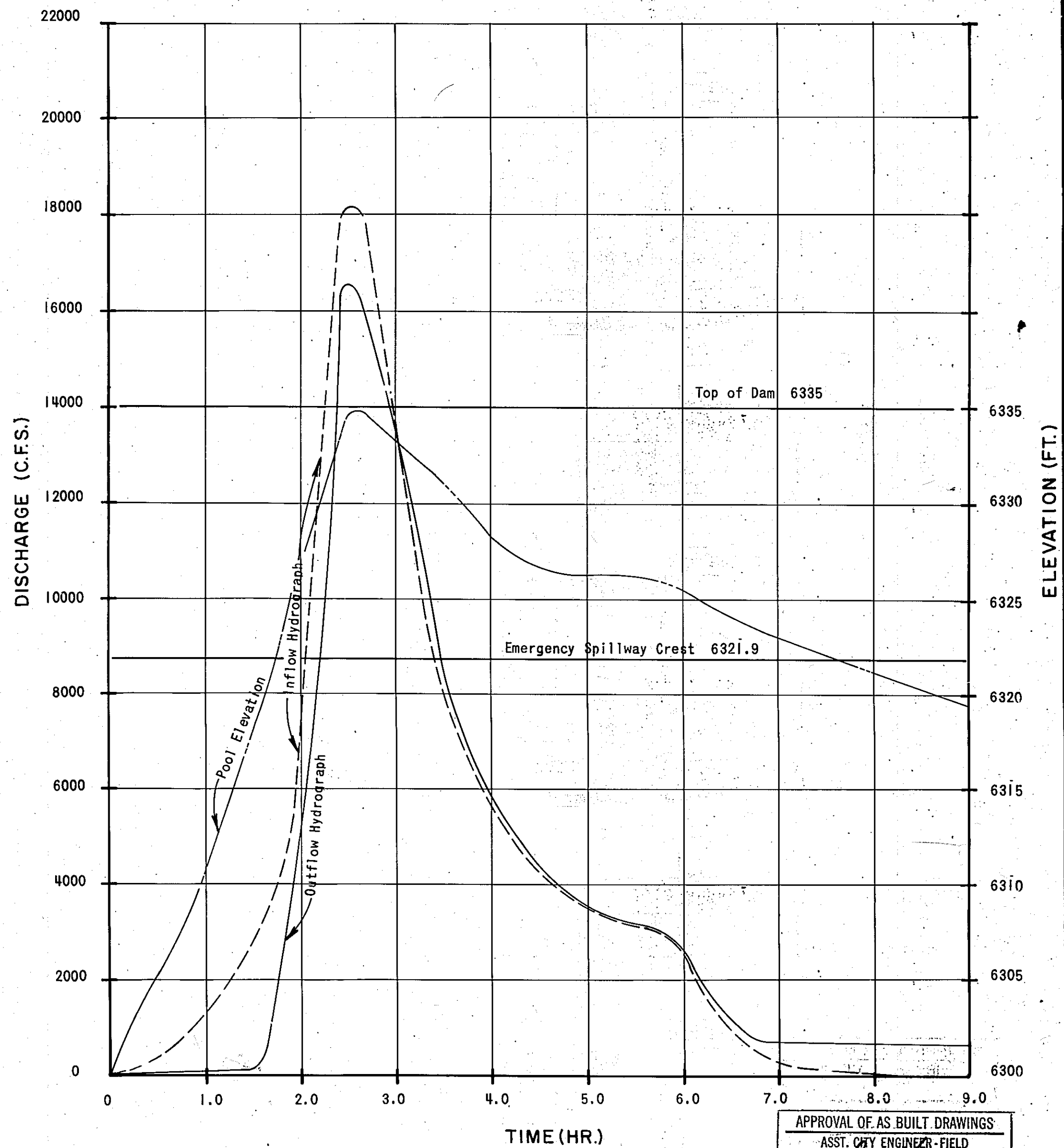


STAGE - STORAGE & DISCHARGE



1% CHANCE STORM
INFLOW & OUTFLOW

NOTE: POOL EMPTY IN 13.5 HOURS



PMP-INFLOW & OUTFLOW

APPROVAL OF AS BUILT DRAWINGS
ASST. CIV. ENGINEER - FIELD
DATE 12/17/79

Date 6/27/79 AS BUILT

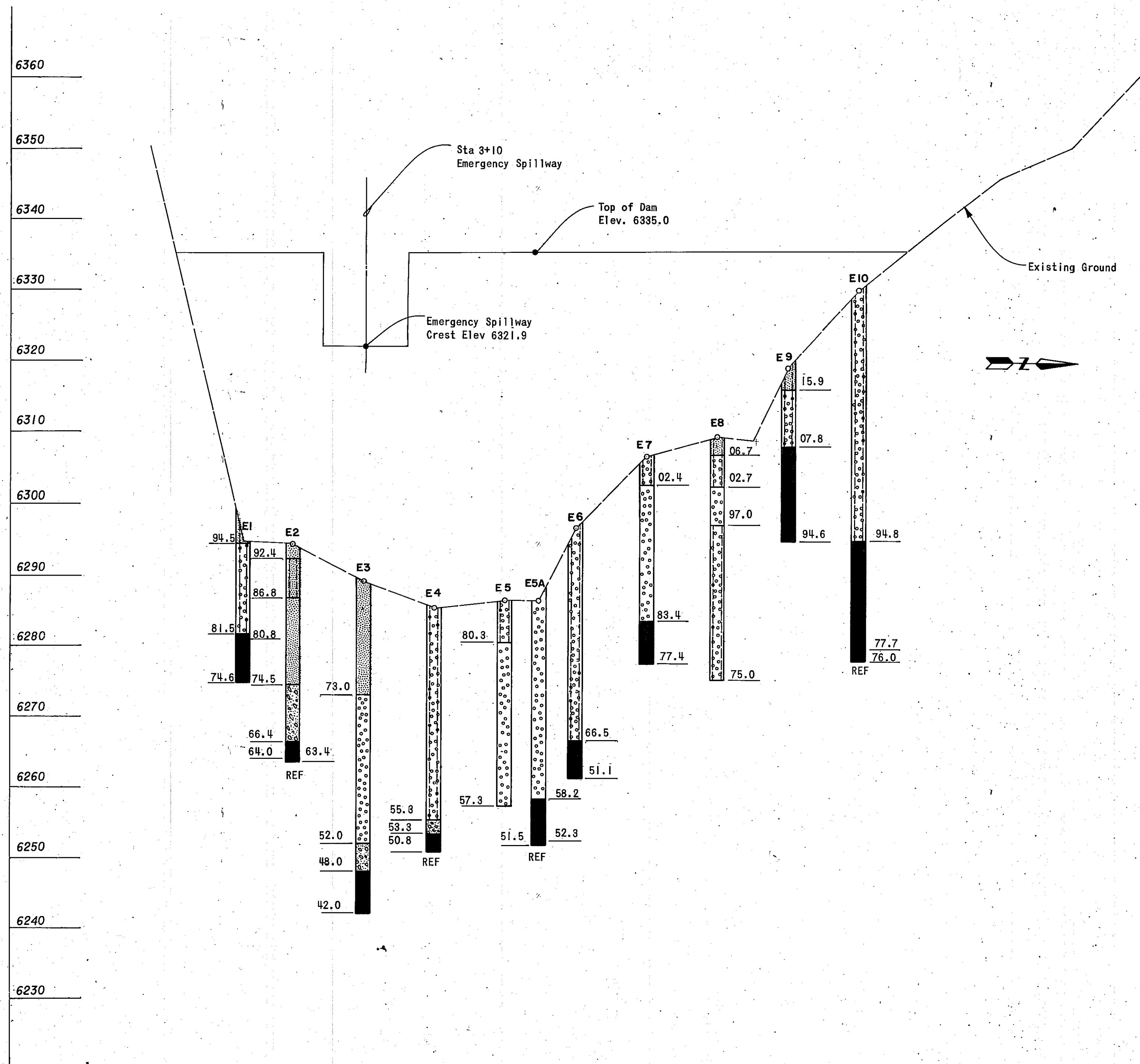
STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

HYDROLOGY

ALBUQUERQUE, NEW MEXICO

Job No. 73-198E
Drawn By: DA
Checked By: DLW, CME
Sheet 2 of 19
Date: FEB. 1978
Scale: NONE





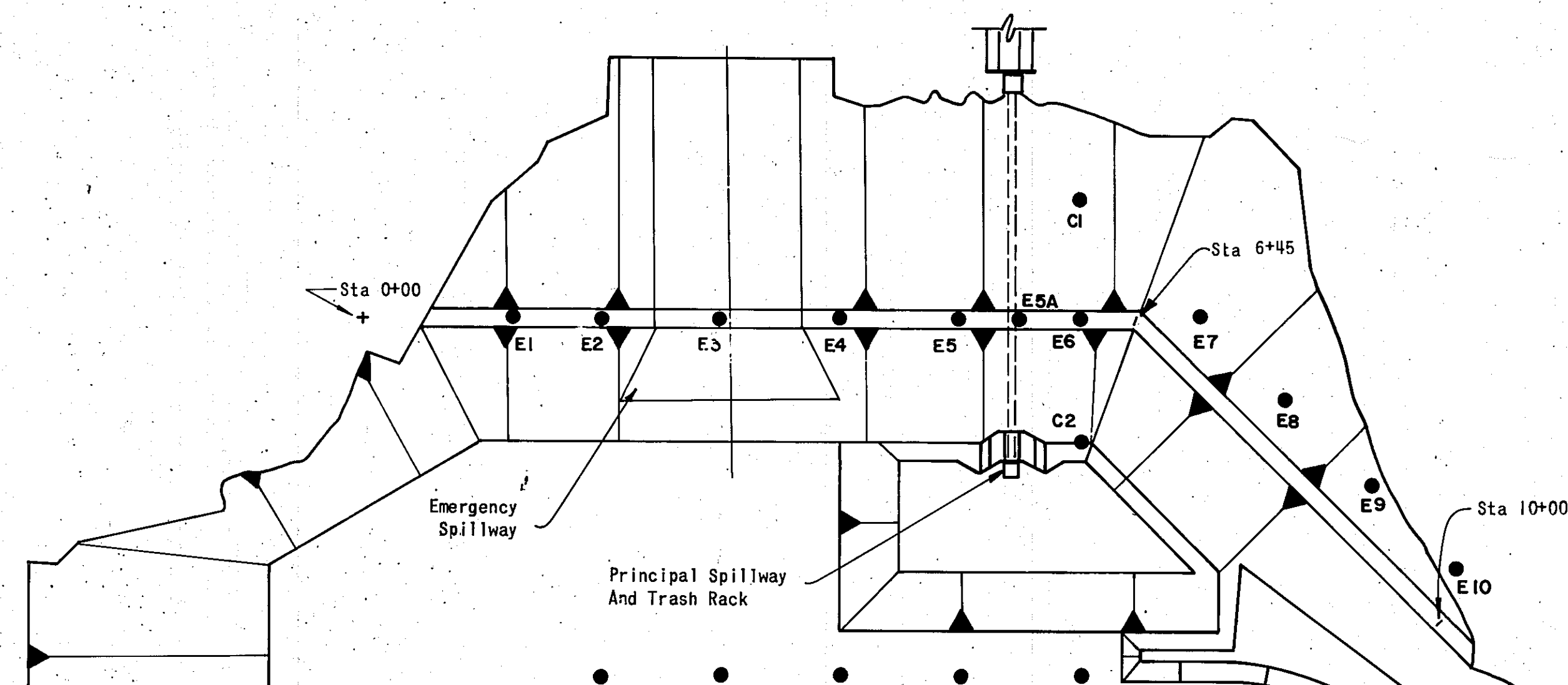
SOIL TEST PROFILE

LEGEND

- SAND**, coarse to fine grained, gravelly, silty, medium dense to very dense, slightly moist to moist, micaceous, brown (SM)
- SAND**, coarse to fine grained, gravelly, some cobbles and boulders, slightly silty, medium dense to very dense, slightly moist to medium moist, micaceous, brown (SW-SM)
- SAND**, fine to coarse grained, slightly gravelly to very gravelly, slightly silty, medium dense to dense, slightly moist to moist, micaceous, brown (SP-SM)
- SAND**, coarse to fine grained, gravelly, medium dense to dense, micaceous, brown (SW)
- GRAVEL**, with sand and silt matrix, very dense, slightly moist, micaceous, gray brown (GP-GM)
- SAND**, fine to coarse grained, cobbles and boulders, very dense to refusal, medium moist to slightly moist, micaceous, gray brown, possible weathered GRANITE (SW-SM)
- GRANITE**, weathered, very dense to refusal, gray
- REF** indicated refusal to auger drilling

SUMMARY OF MECHANICAL ANALYSES AND MOISTURE-DENSITY TEST RESULTS

Hole No.	Depth (ft)	Natural Dry Density (pcf)	Natural Moisture Content (%)	Mechanical Analysis Percent Passing by Weight					Unified Soils Classification				
				1 1/2"	1"	3/4"	1/2"	3/8"					
B-1	2-4				100	99		88	63	37	23	14	SM
B-1	16-24					100		97	83	52	25	11	SW-SM
B-3	0-7					100		98	82	46	15	6	SW-SM
B-3	7-10½					100		98	78	37	12	5	SW-SM
B-3	10½-13					100		95	79	39	12	6	SW-SM
B-3	13-17½					97		90	68	28	12	7	SP-SM
B-3	17½-25					100		95	83	49	18	8	SW-SM
B-3	9-14			100	92			88	68	41	22	11	SW-SM
Offset													
B-5	0-2					100		98	89	58	15	3	SW
B-5	7-16					100		96	82	50	16	7	SW-SM
B-5	16-19				100	99		96	78	33	9	4	SW
B-5	29-32					100		92	56	11	5	3	SP
C-2	0-3					100		97	89	58	19	6	SW-SM
C-2	3-5					100		92	76	45	18	6	SW-SM
C-2	5-12					100		98	93	60	24	8	SP-SM
C-2	4	137	1.7										
E-2	0-6					100		98	88	56	23	9	SP-SM
E-2	8-12					100		98	75	32	11	6	SP-SM
E-2	4	124	2.2					100	87	60	29	14	SM
Offset													
E-2	20-28				100	97		83	48	13	10	8	GP-GM
Offset													
E-2	24	111	3.1				100	99	90	67	35	16	SM
E-3	0-6				100	98		85	59	30	13	5	SP-SM
E-3	7-10					100		96	77	45	26	8	SP-SM
E-3	8	101	2.1					100	82	53	29	15	SM
E-3	13	122	3.7				100	99	87	68	38	17	SM
E-3	44	129	2.6				100	99	81	59	26	9	SW-SM
E-4	0-7½					100		92	74	46	21	8	SW-SM
E-4	7½-12½					100		96	80	40	13	5	SW-SM
E-4	13-18					100		98	81	41	13	5	SW-SM
E-5	4-9			100	95			91	72	35	10	4	SW
E-5	11-14	126	1.1			100		98	73	19	4	2	SP
E-8	9						100	97	86	44	11	4	SW
E-8	19	118	3.0					100	87	51	16	6	SW-SM
E-10	14	122	1.6					100	97	76	28	6	SW-SM
E-10	19	119	2.2				100	96	79	51	16	5	SW-SM



SOIL TEST HOLE LOCATION

APPROVAL OF AS BUILT DRAWINGS
ASST. CIV. ENGINEER - FIELD
C. M. Chapman
DATE: 12/1/79

6/27/79

STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

DAM PROFILE

ALBUQUERQUE, NEW MEXICO

Job No. 73-198E Sheet 3 of 19
Drawn By RPB/SVS Date FEB 1978
Checked By DLW/CME Scale 1" = 100' HOR
1" = 10' VERT

MAP OF THE EMBUDO FLOOD CONTROL DAM

City of Albuquerque, Applicant, located in Bernalillo County, State of New Mexico. All courses true. Scale of map, 1 inch = 200 feet. 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 Embudo Dam, as hereinafter described and indicated, hereby makes these several statements relative there and offers this map and statements for acceptance and filing in compliance with the laws of the State of New Mexico.

The northwest corner of the outlet structure trash rack of Embudo Dam is situated in Section 13, Township 10 North, Range 4 East, N.M.P.M. at a point whose State Plane Coordinate is x = 433166.68, y = 1491028.29.

The Embudo Flood Control Dam has the following properties:

Maximum height above foundation	64	Ft.
Length	1,010	Ft.
Maximum width at base	320	Ft.
Crest width	18	Ft.
Slope upstream face	3:1	
Slope downstream face	3:1	
Elevation at crest of dam	6,335.0	Ft.
Elevation at spillway crest	6,321.9	Ft.
Elevation of bottom of trash rack	6,300.0	Ft.
Elevation of flow line of outlet conduit	6,270.0	Ft.
Freeboard	13.1	Ft.
Width of spillway	120	Ft.
Discharge capacity of spillway CFS at elevation 6,335.0	16,840	CFS
Outlet conduit size and type	48" RCP	
Outlet conduit capacity - CFS	283	CFS
Evacuation time - hours	13.5	Hrs.
Drainage areas	3.72	Sq. Mi.

Outlet conduit is uncontrolled

State of New Mexico } SS
County of Bernalillo }

I, H. R. Orr, Jr., on behalf of the City of Albuquerque, being first duly sworn, upon my oath, state that I have read and examined the accompanying map and statements (maps and statements consisting of 18 sheets) and know the contents thereof and representations thereon, and state that the same are true to the best of my knowledge and belief.

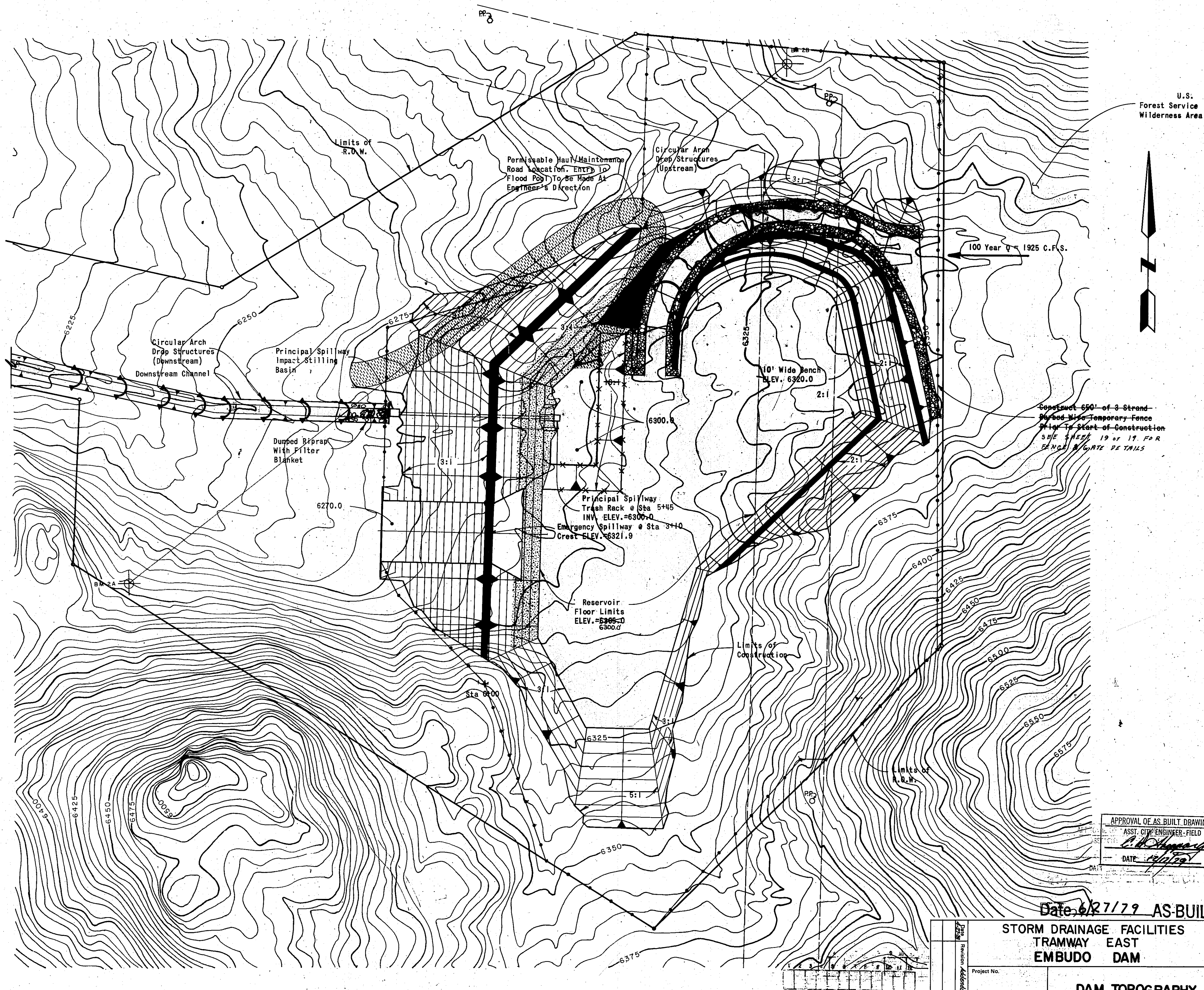
H. R. Orr, Jr.
Authority, Claimant

Subscribed and sworn to before me this 5TH day of APRIL, 1978
Christopher F. Porter
Notary Public

My commission expires MAY 28, 1978

LEGEND

-  Dumped Riprap
-  Pervious Riprap Blanket



U.S.
Forest Service
Wilderness Area

Construct 650' of 3-Strand-
Barbed Wire Temporary-Fence
Prior to Start of Construction
SEE SHEET 19 of 17 FOR
GENERAL NOTE OF DETAILS

APPROVAL OF AS-BUILT DRAWINGS
ASST. CIV. ENGINEER - FIELD
[Signature]
DATE 4/27/79

Date 4/27/79 AS-BUILT

STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

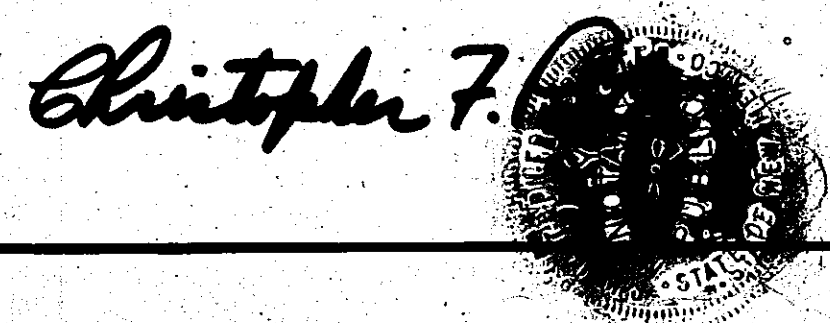
DAM TOPOGRAPHY

ALBUQUERQUE, NEW MEXICO

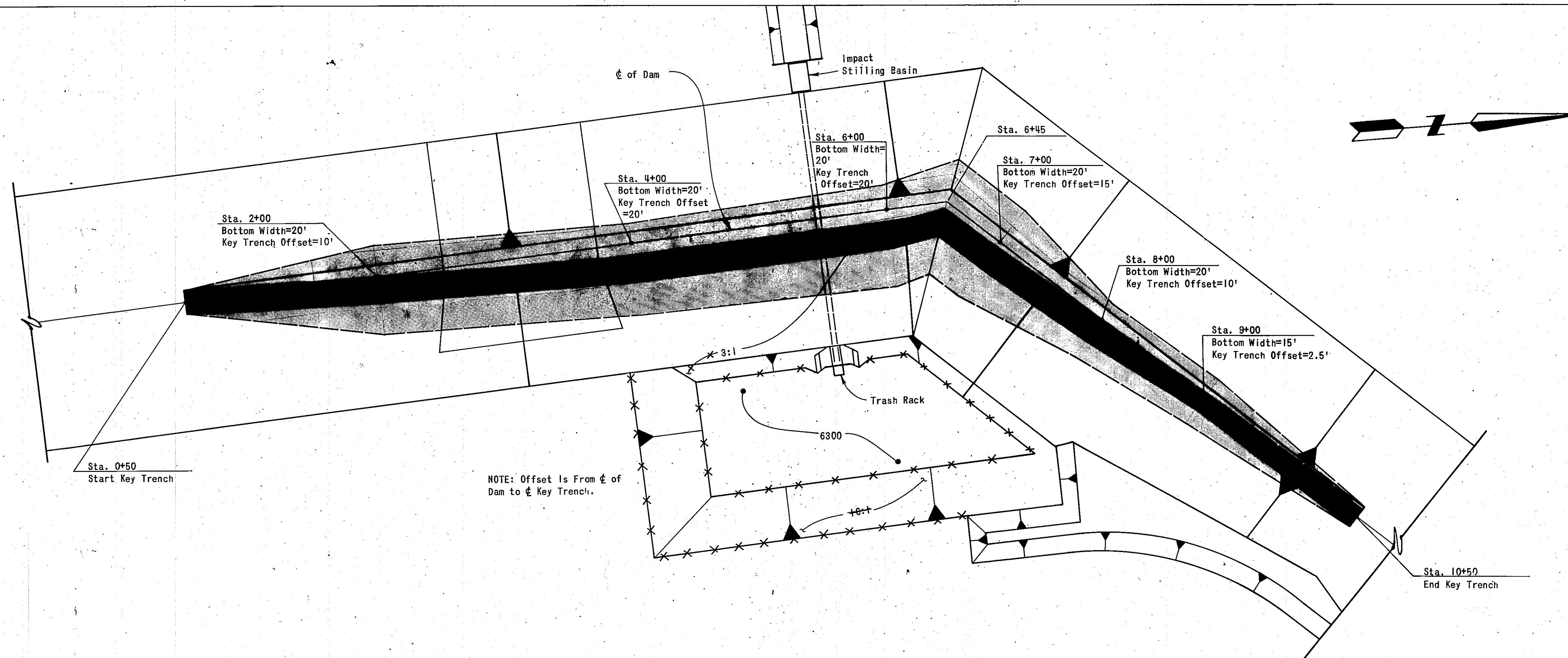
Job No. 73-198E Sheet 4 of 17

Drawn By: JDC Date: FEB. 1976

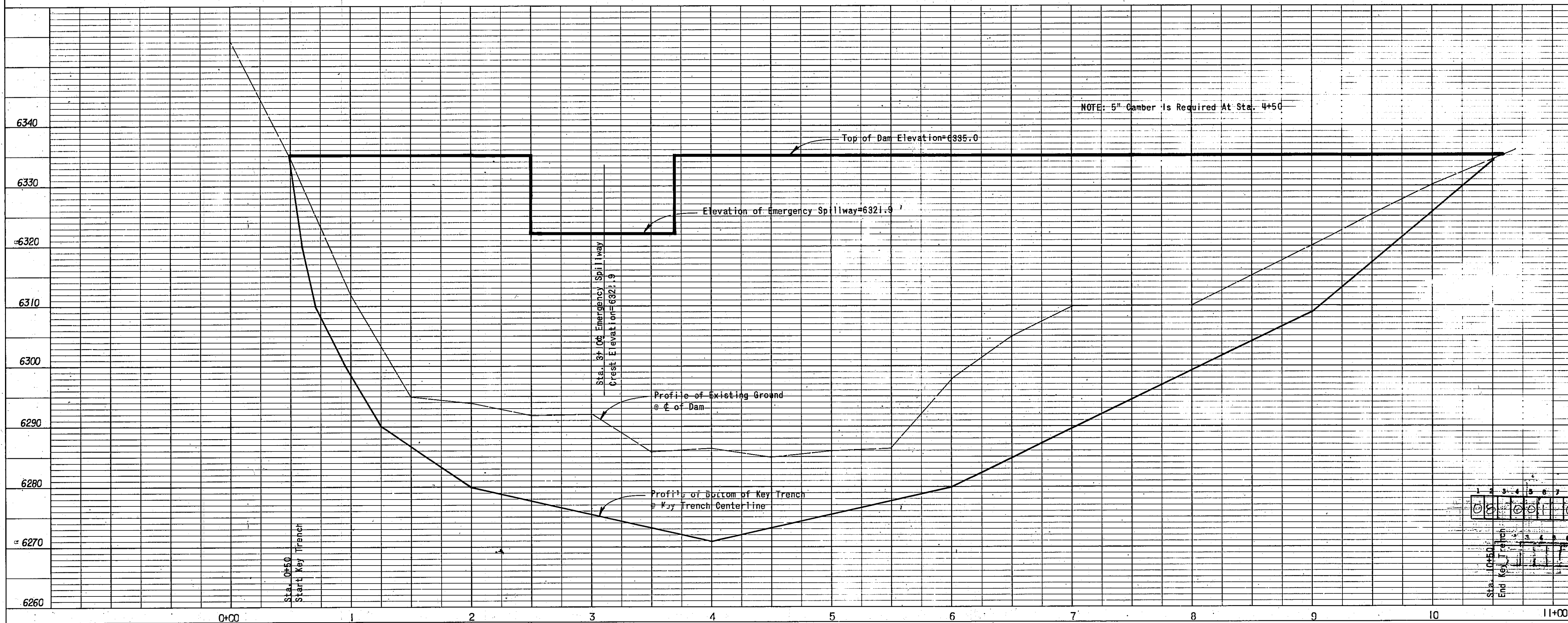
Checked By: PLW, CME Scale: 1" = 100'



PLAN	SURVEYED	BY	DATE
NO.	PLANNED		
	CHECKED		
	NOTED		



PROFILE	SURVEYED	BY	DATE
NO.	PLANNED		
	CHECKED		
	NOTED		



APPROVAL OF AS-BUILT DRAWINGS
 ASST. CITY ENGINEER - FIELD
 DATE 12/1/78

Date 6/27/79 AS-BUILT

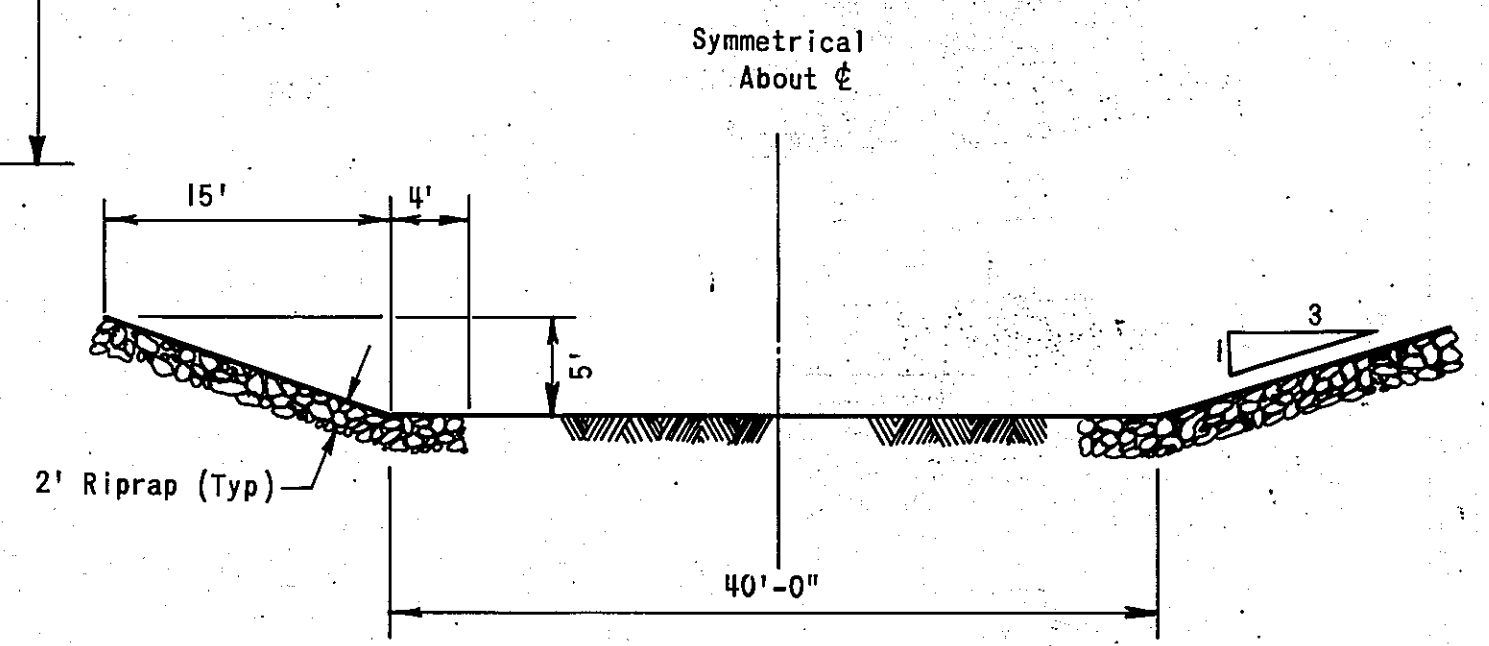
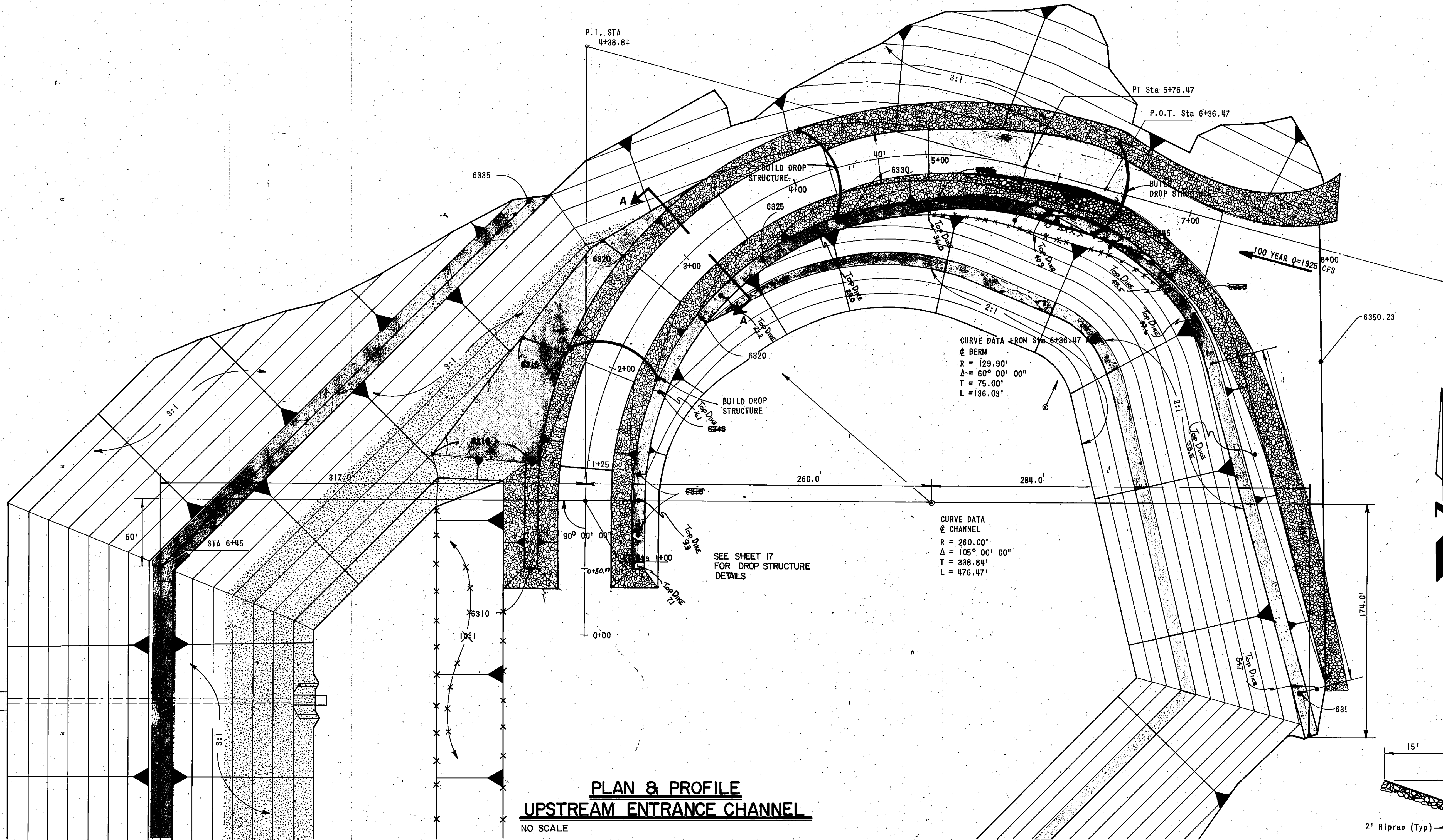
STORM DRAINAGE FACILITIES
 TRAMWAY EAST
 EMBUDO DAM

KEY TRENCH
 PLAN and PROFILE

ALBUQUERQUE, NEW MEXICO

Job No. 73-198E
 Drawn By: JDC
 Checked By: DLW, CME
 Date: FEB. 1978
 Scale: 1"=50' HOR.
 1"=10' VERT.





APPROVAL OF AS BUILT DRAWINGS
 ASST. CITY ENGINEER - FIELD
[Signature]
 DATE 12/7/77

Date 6/27/77 AS-BUILT

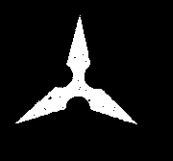
**STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM**

**UPSTREAM ENTRANCE
CHANNEL**

ALBUQUERQUE, NEW MEXICO

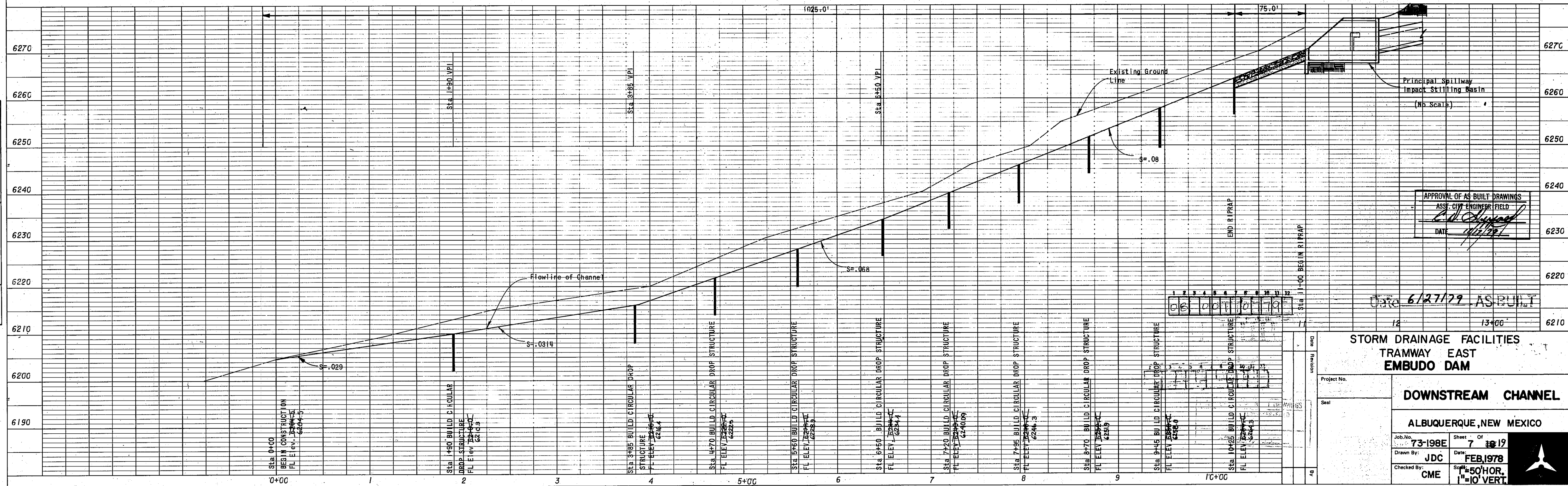
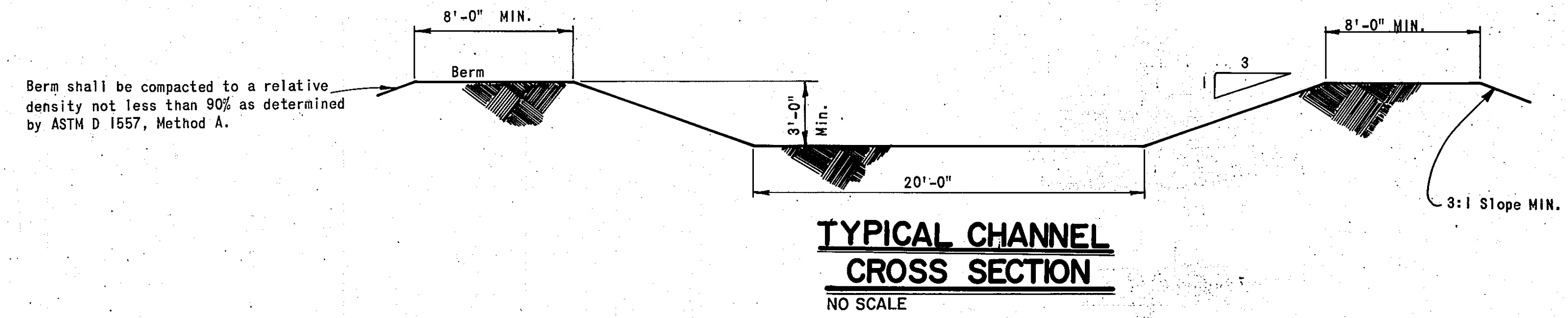
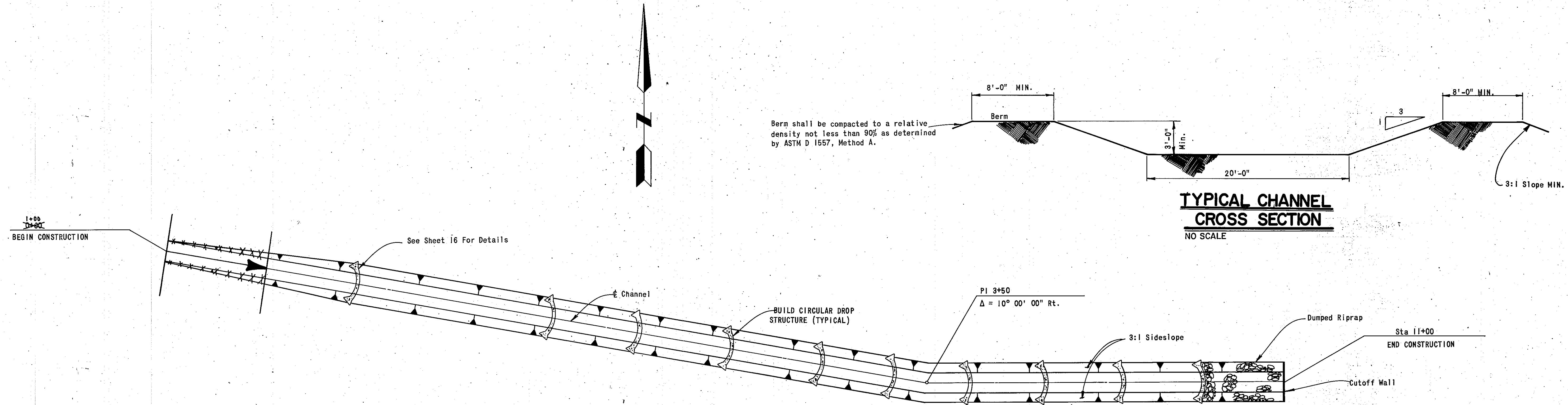
Job No. 73-198E
 Drawn By: JDC
 Checked By: DLW, CME

Sheet 6 of 12
 Date: FEB 1978
 Scale: 4" = 40' HOR
 1" = 10' VERT



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RT. OF WAY CHECKED	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE NOTATIONS CHKO	
NOTE BOOK NO.		



APPROVAL OF AS BUILT DRAWINGS
ASSISTANT ENGINEER FIELD
[Signature]
DATE 6/27/79

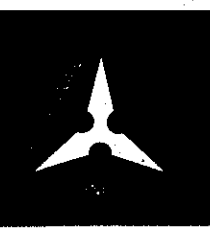
Date 6/27/79 AS BUILT

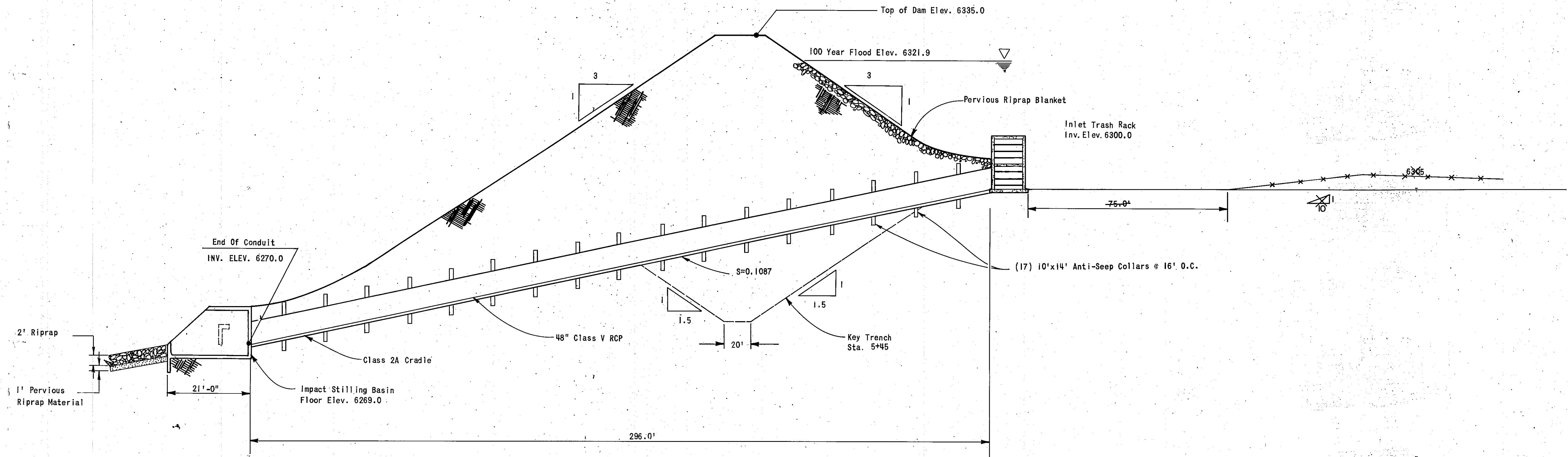
**STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM**

DOWNSTREAM CHANNEL

ALBUQUERQUE, NEW MEXICO

Job No. 73-198E Sheet 7 of 19
Drawn By: JDC Date: FEB 1978
Checked By: CME Scale: 50' HOR. 1" = 10' VERT.



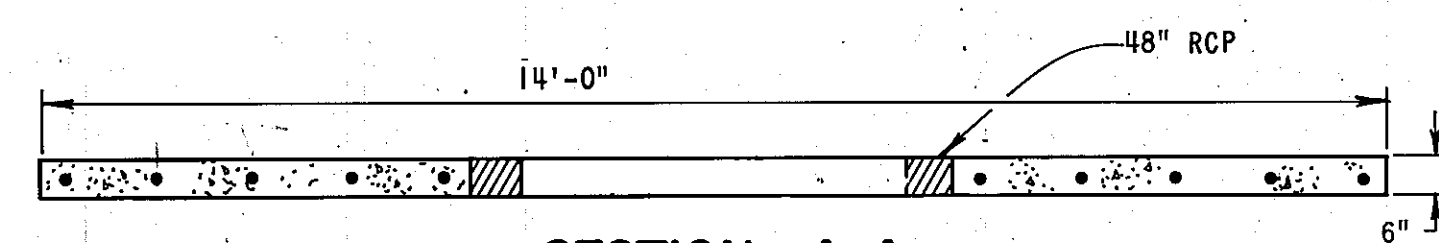


DAM SECTION AT PRINCIPAL SPILLWAY

NO SCALE

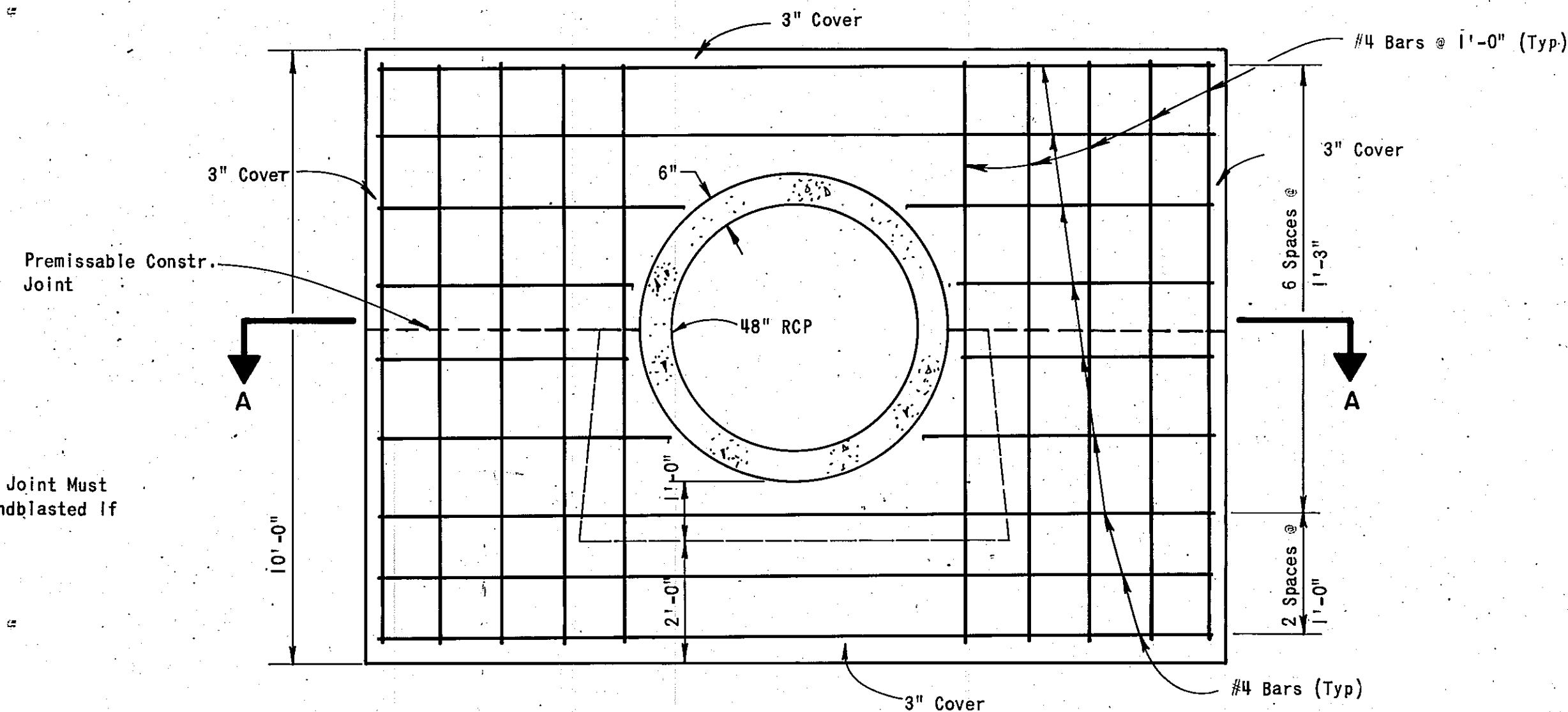
NOTE:

All Structural Concrete Is To Be 4500 psi
And All Steel Reinforcement Is To Be 60,000 psi
Unless Otherwise Noted.



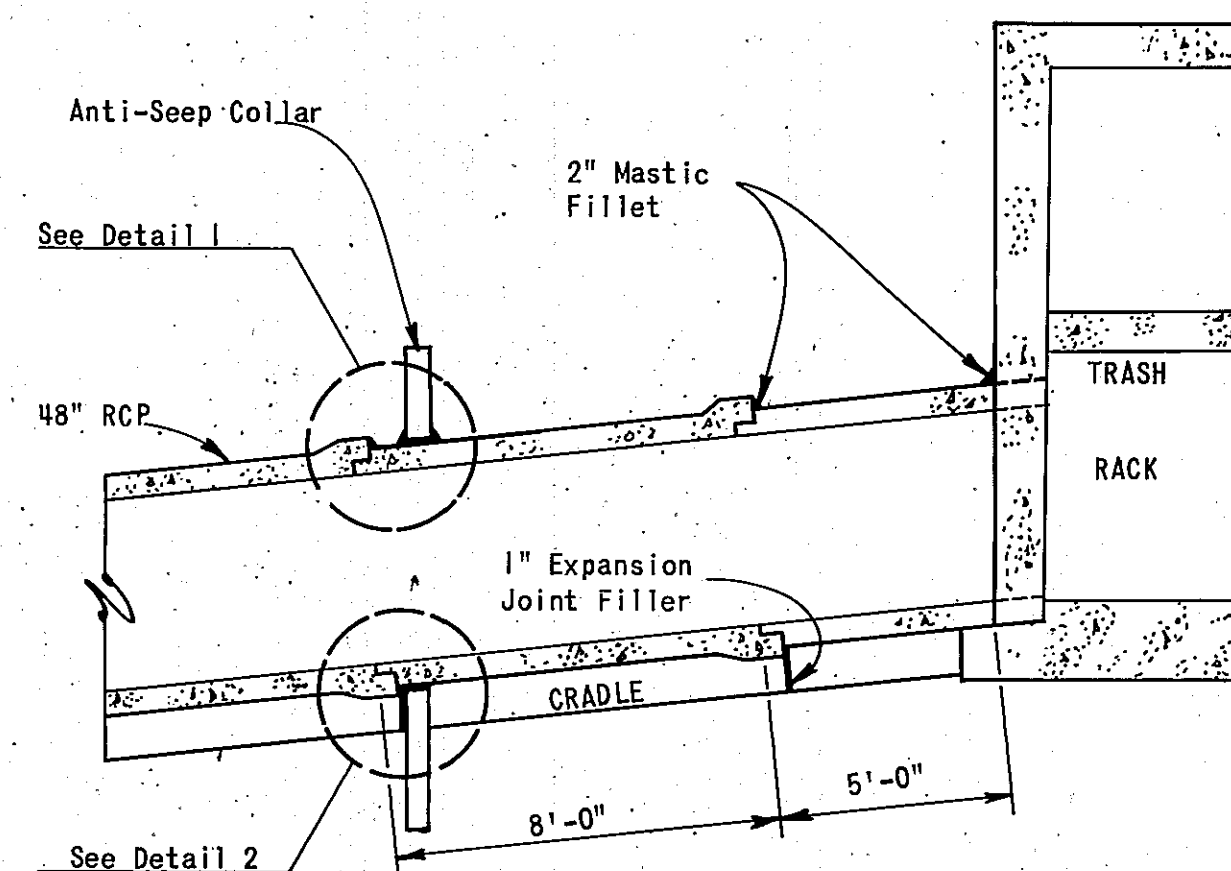
SECTION A-A

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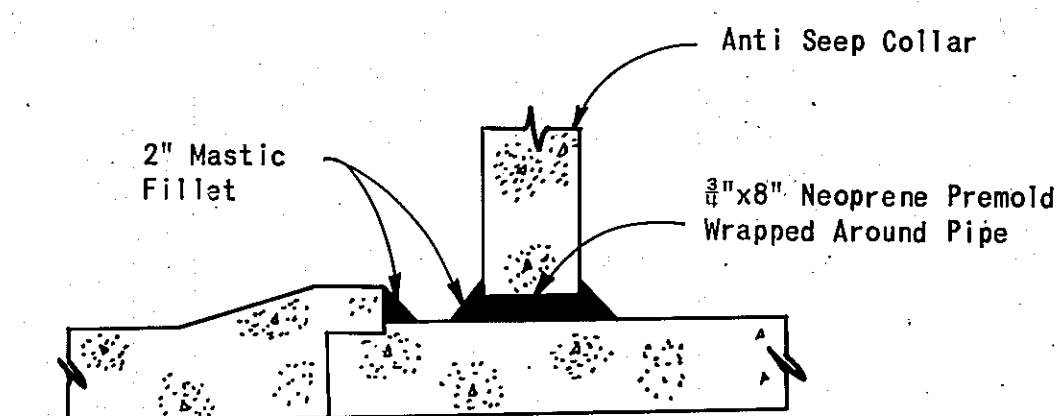
ANTI-SEEP COLLAR DETAIL

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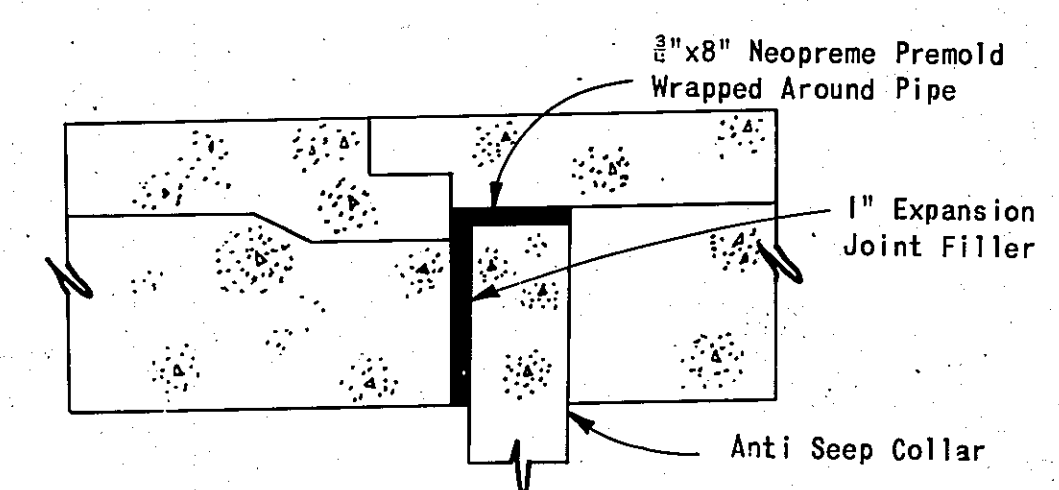
48" RCP CONNECTION DETAIL

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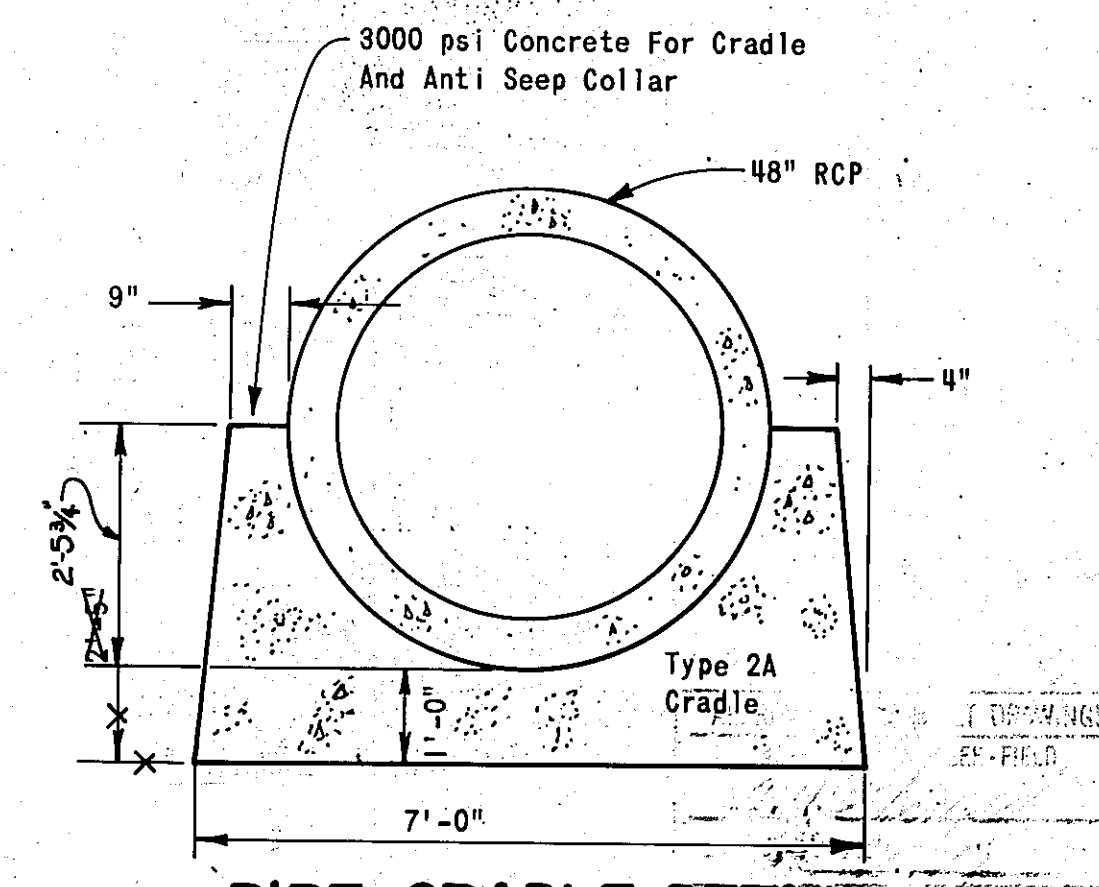
DETAIL 1

NO SCALE



DETAIL 2

NO SCALE



PIPE CRADLE DETAIL

NO SCALE

Date 6/27/77 AS BUILT

STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

DAM CROSS SECTION

ALBUQUERQUE, NEW MEXICO

Job No. 73-198E
Drawn By JDC
Checked By DLW, CME
Date FEB. 1978
Scale NO SCALE



BEAM I
BEAM IA
NO SCALE

BEAM 2 and (REV.) 3
BEAM 2a and (REV.) 3a
NO SCALE

COLUMN 1 and (REV.) 2
NO SCALE

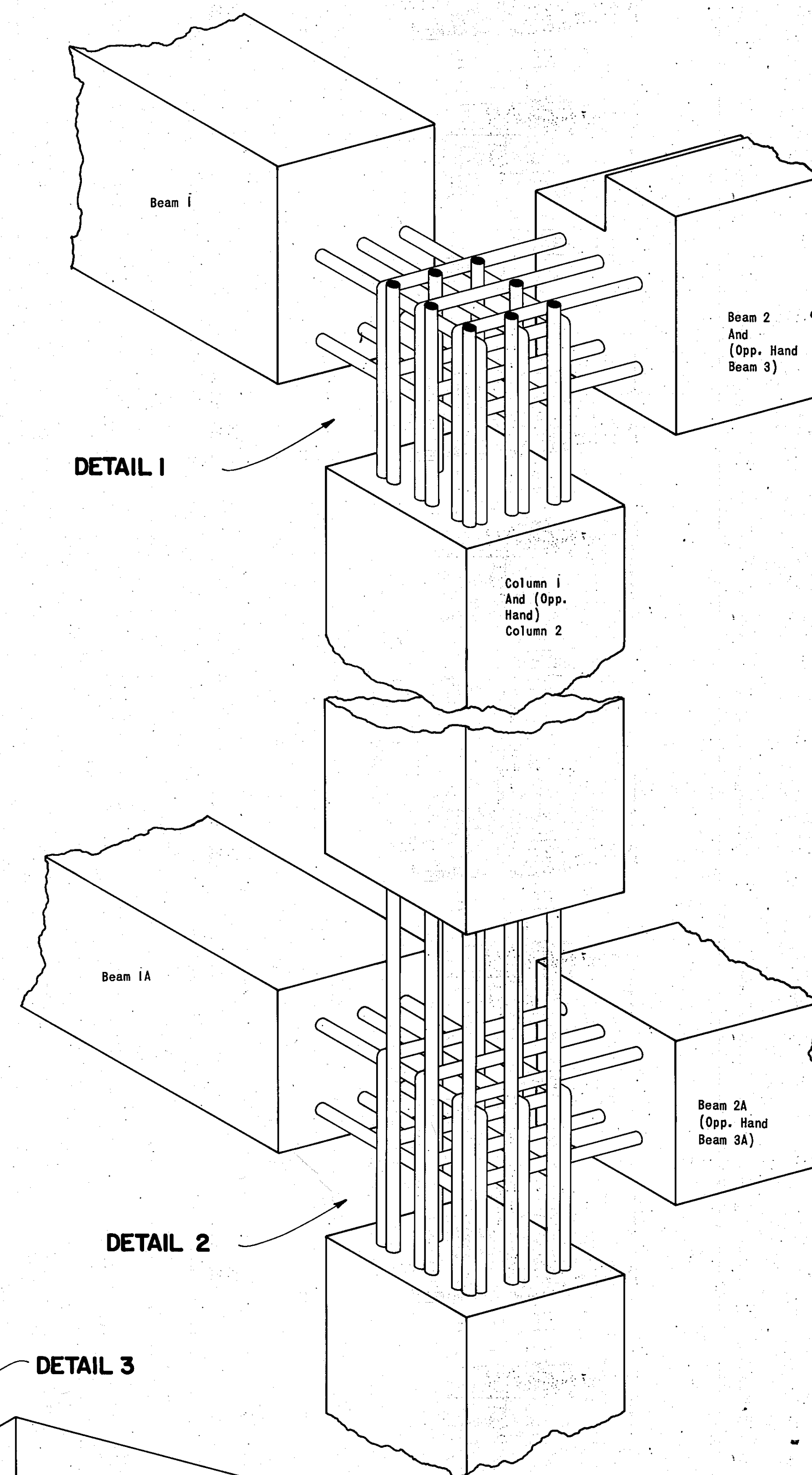
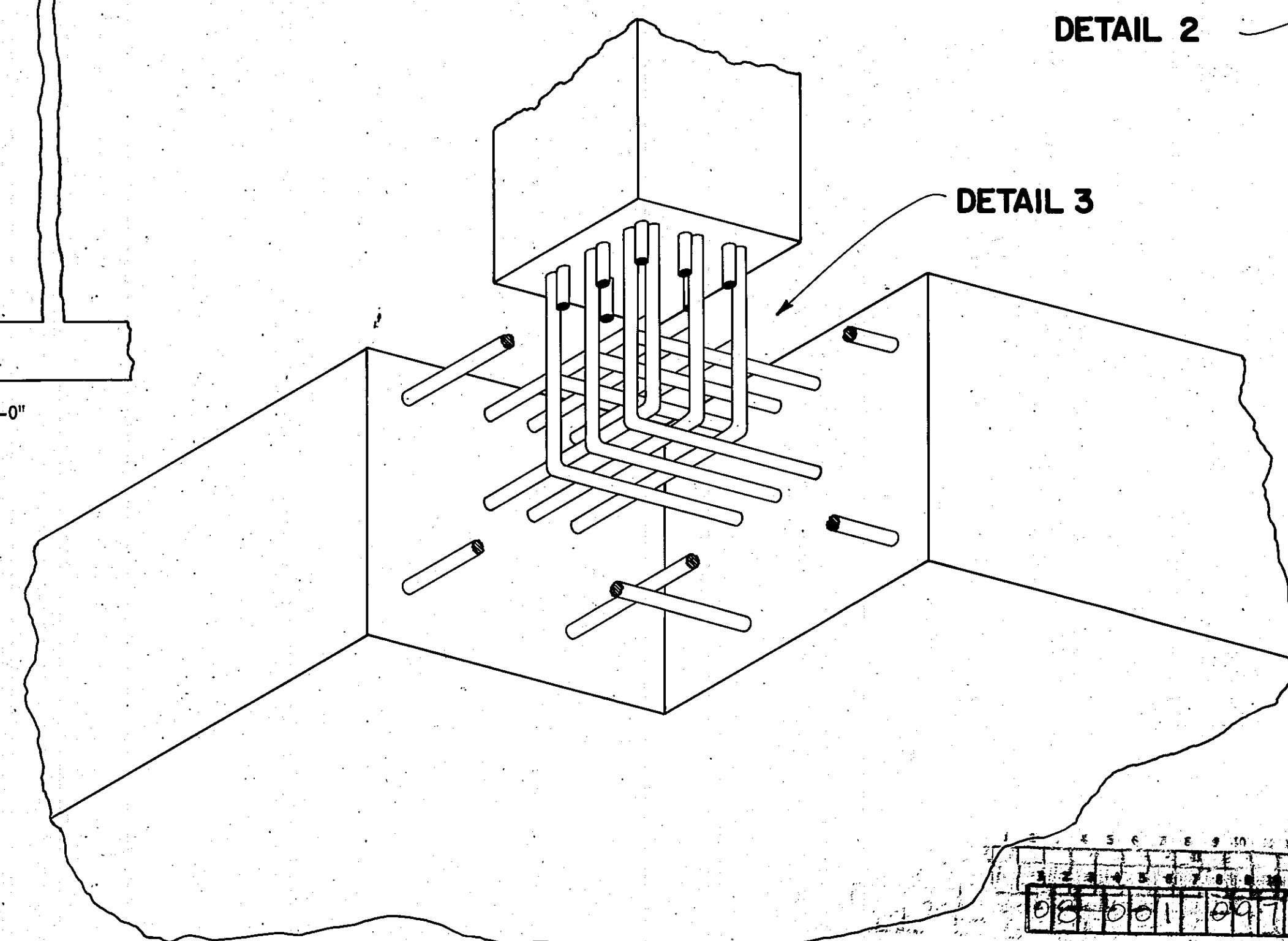
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WINGWALL CROSS SECTION
NO SCALE

TRASH RACK BACK WALL
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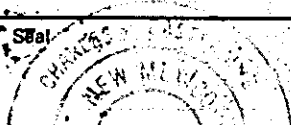
TRASH RACK
NO SCALE

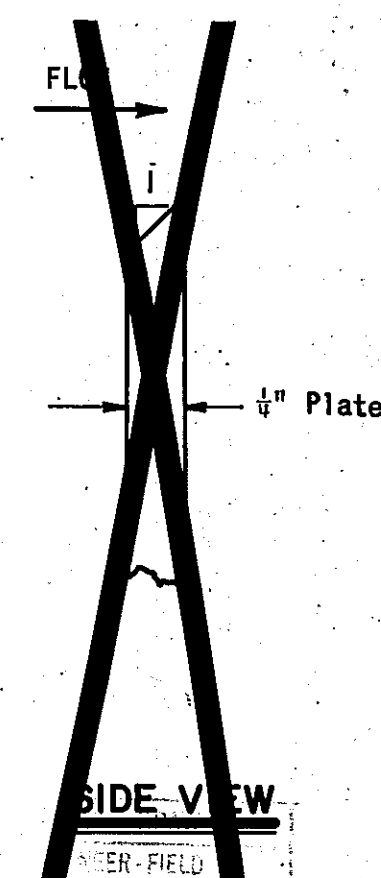
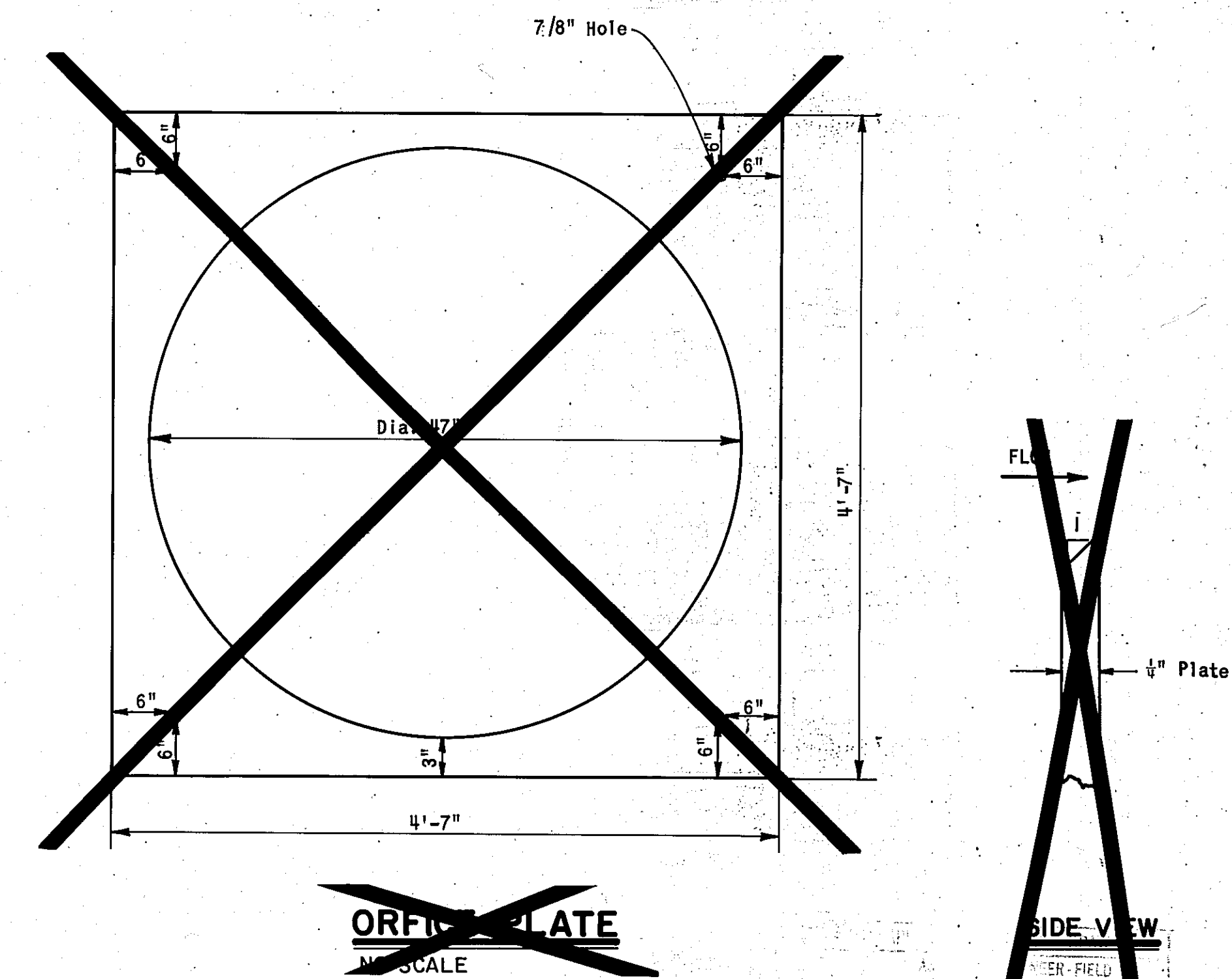
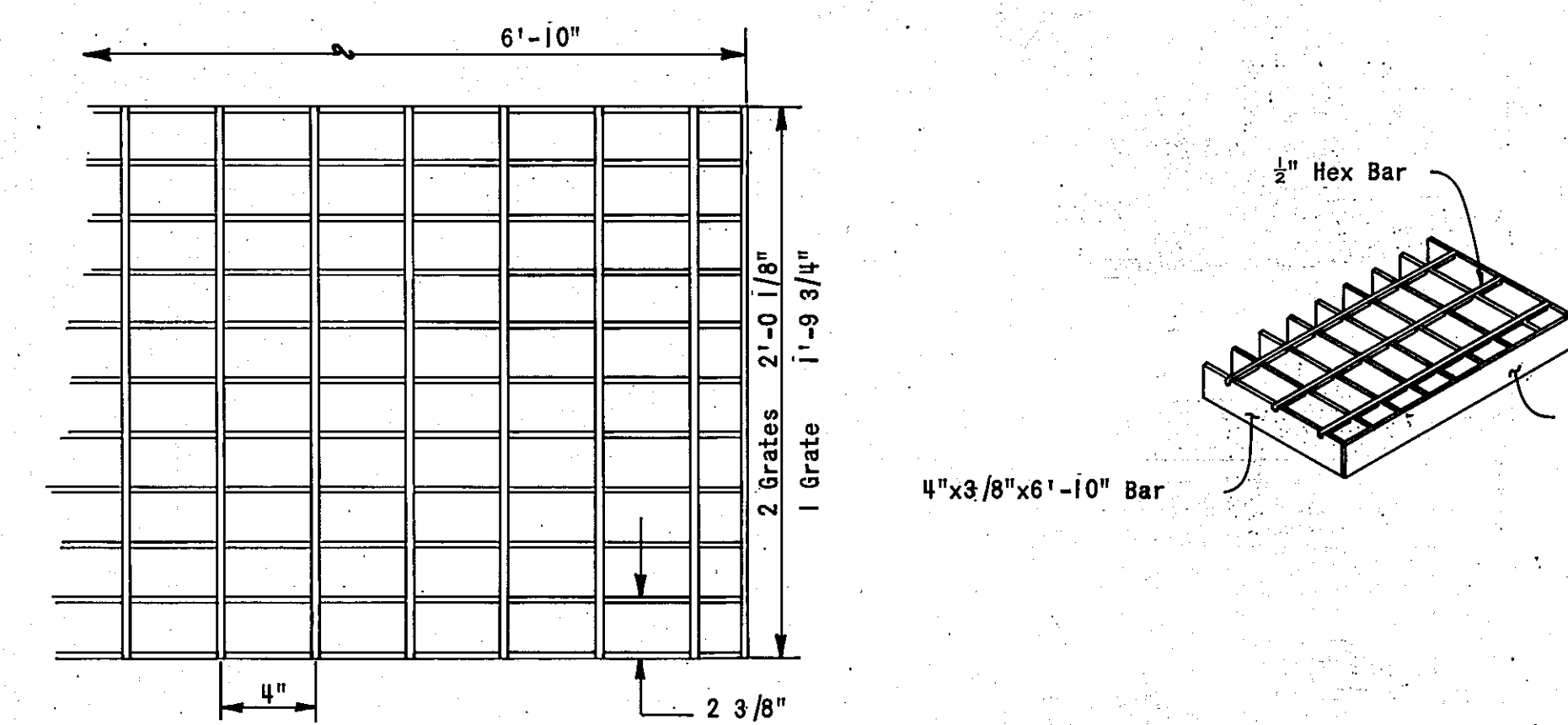
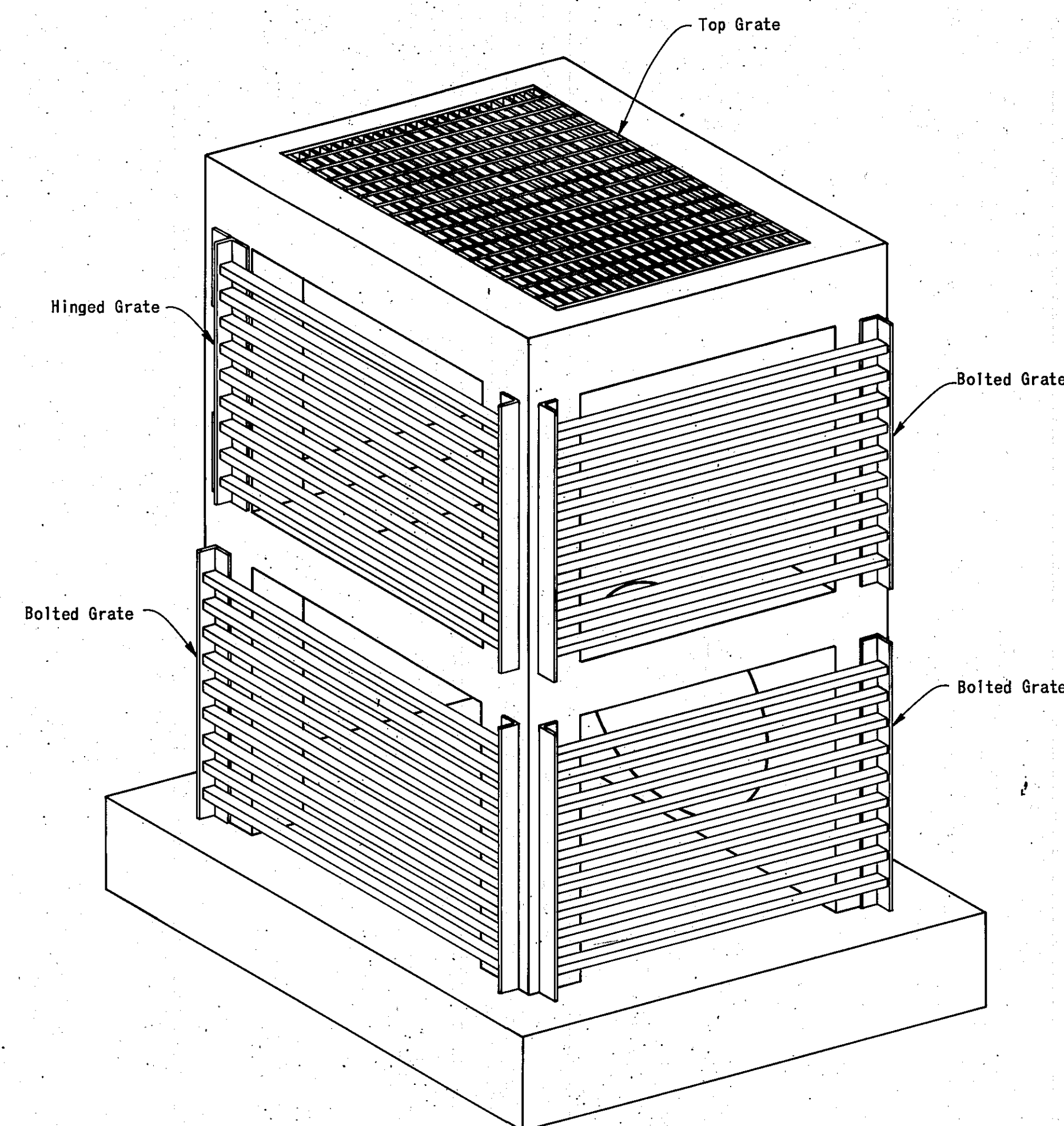
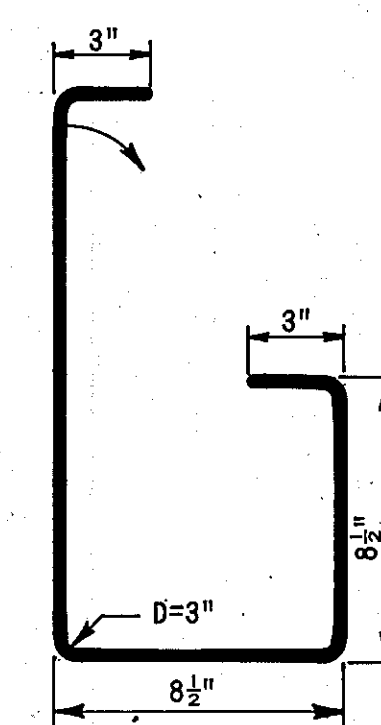
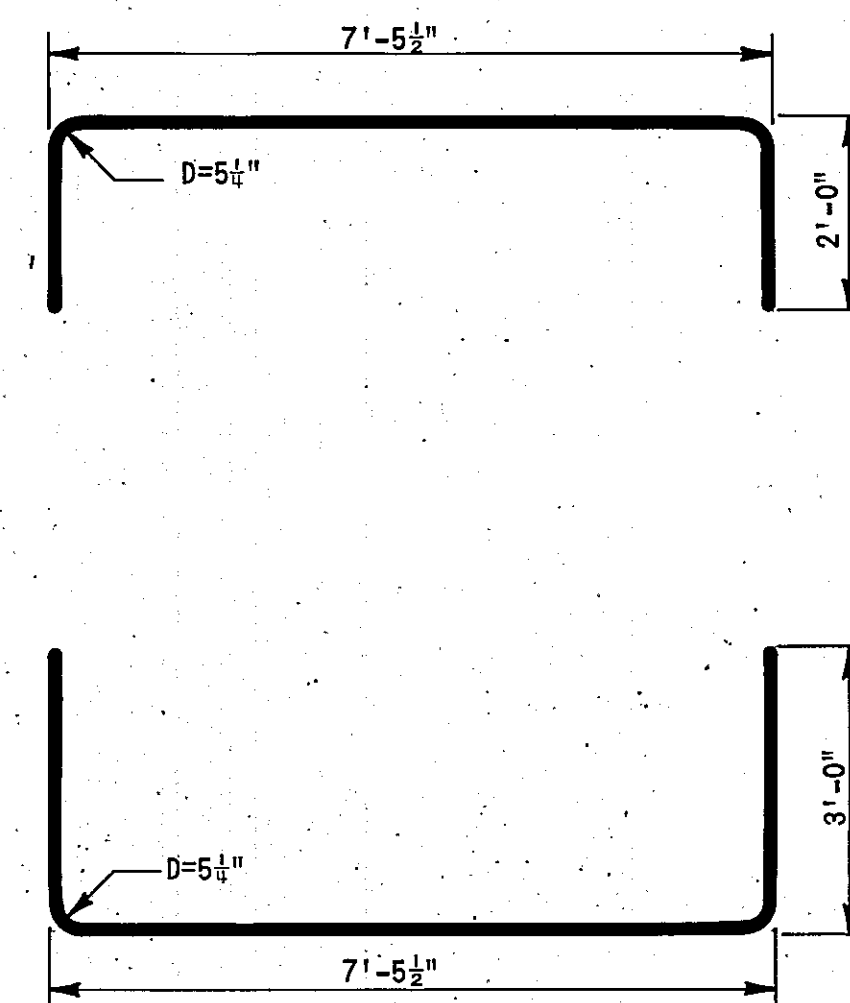
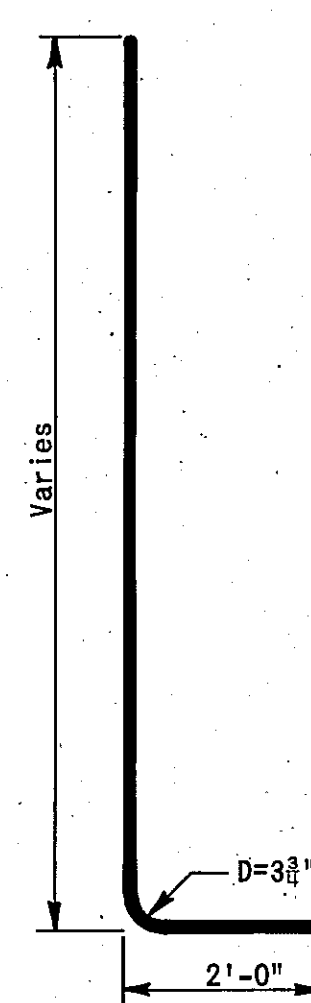
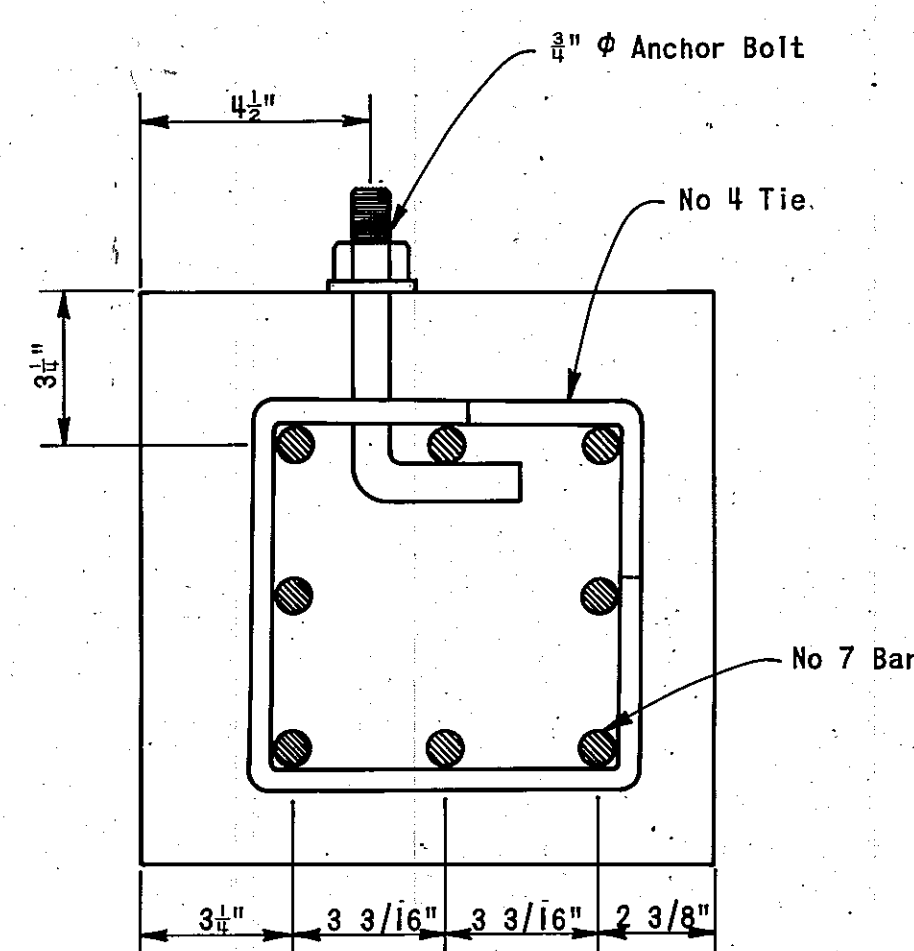
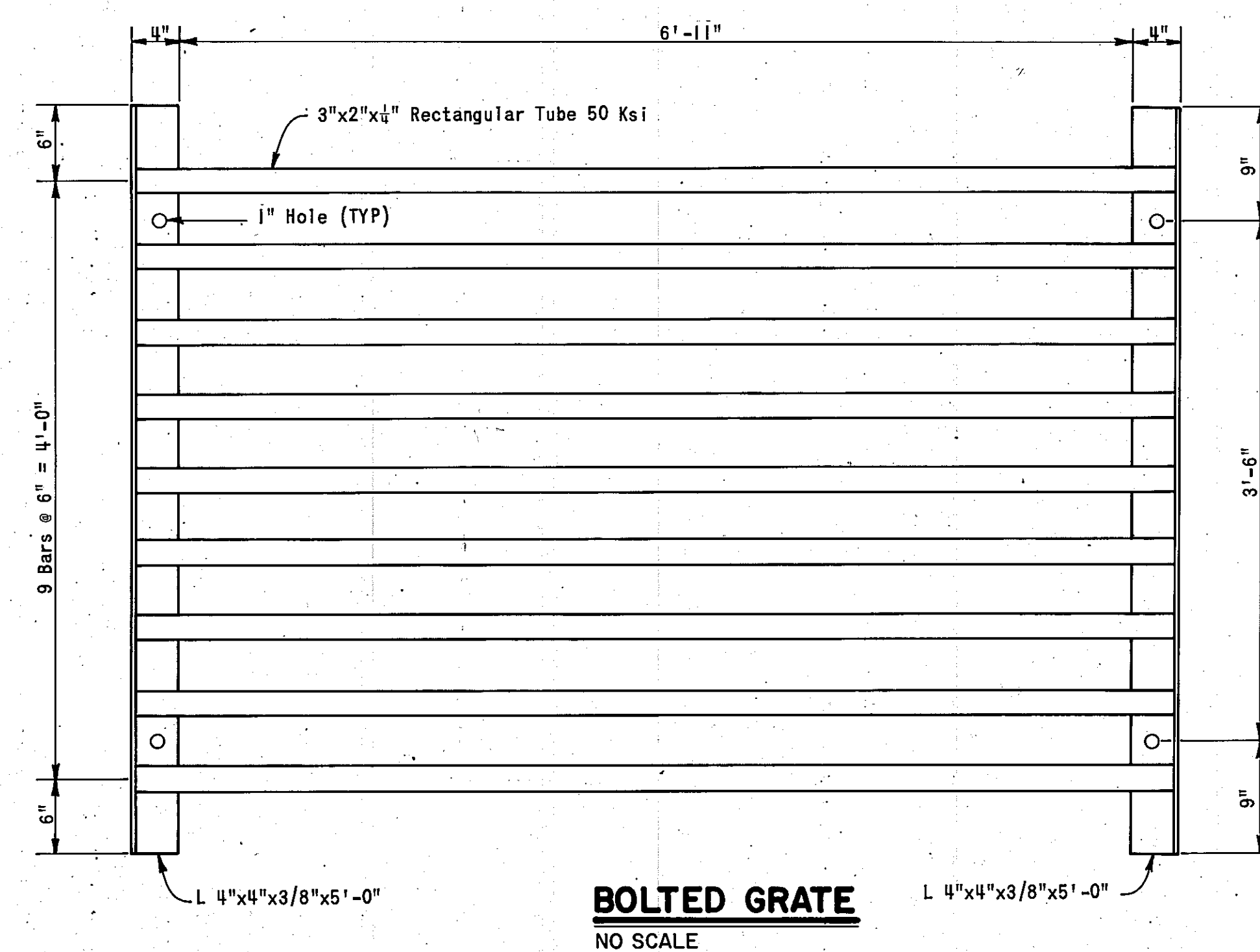
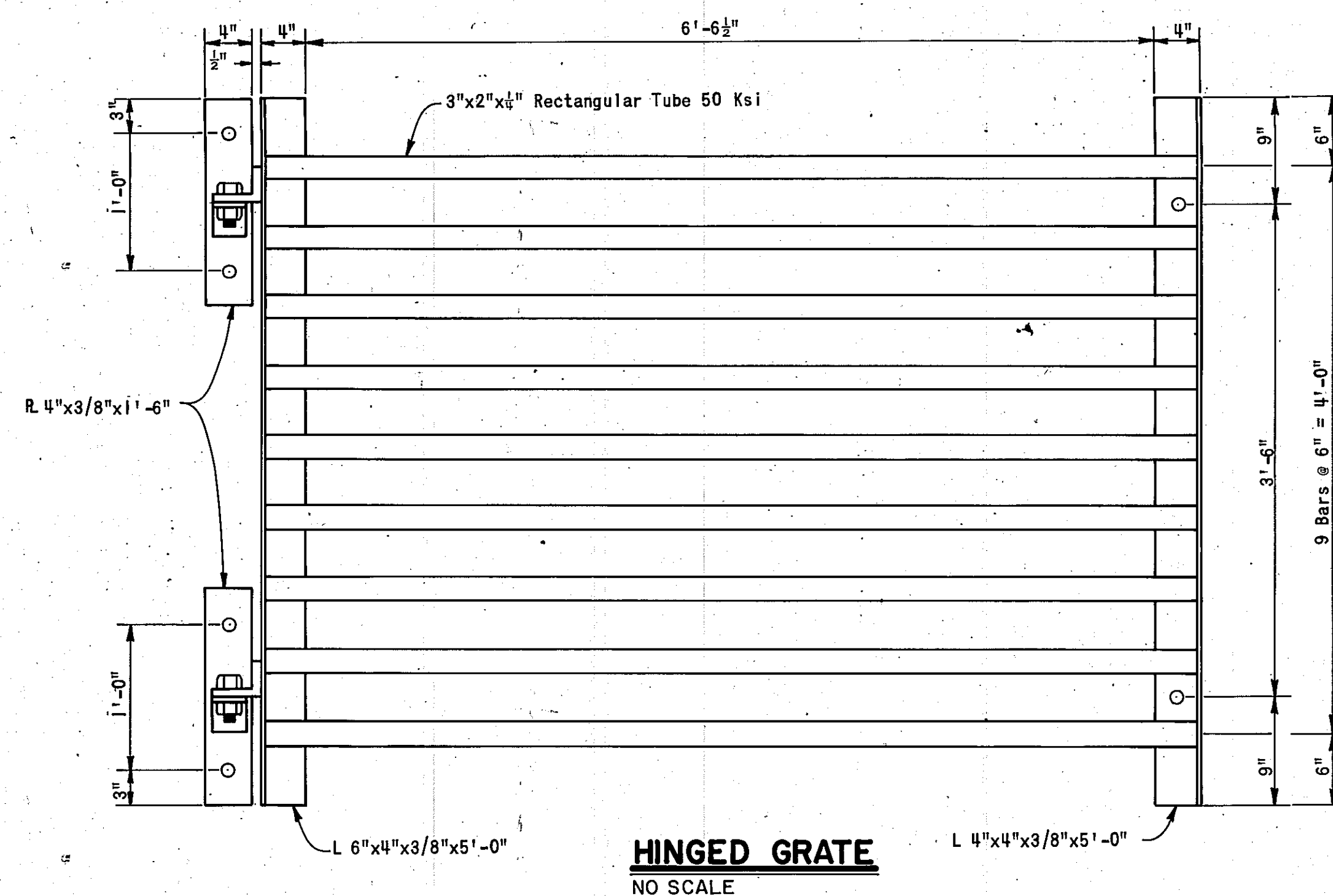
NOTE:
F'c=4500 psi - Concrete
Fy=60,000 psi - Steel Reinforcement



APPROVAL OF AS BUILT DRAWING
 ASST. CITY ENGINEER - FIELD
C. D. Shepard
 DATE: 12/5/29

Date 6/27/79 AS-BUILT

Date	STORM DRAINAGE FACILITIES	
	TRAMWAY EAST	
Revision	EMBUDO DAM	
	Project No.	
By		
	TRASH RACK CONCRETE DETAILS ALBUQUERQUE, NEW MEXICO	
	Job No. 73-198E	Sheet Of 9 1/2
	Drawn By: SVS	Date: FEB. 1978
	Checked By: DLW. CME	Scale: NO SCALE
		



APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
C. S. [Signature]
DATE 12/17/20

Date 6/27/77 AS-BUILT

STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

	TRASH RACK
--	-------------------

STRUCTURAL STEEL DETAILS

ALBUQUERQUE, NEW MEXICO

Job No. 1001	Sheet 1 Of 10
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73-198E	10
Drawn By:	Date:

SVS	FEB. 1978
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Checked By: **DLW, CME** Scale: **NO SCALE**

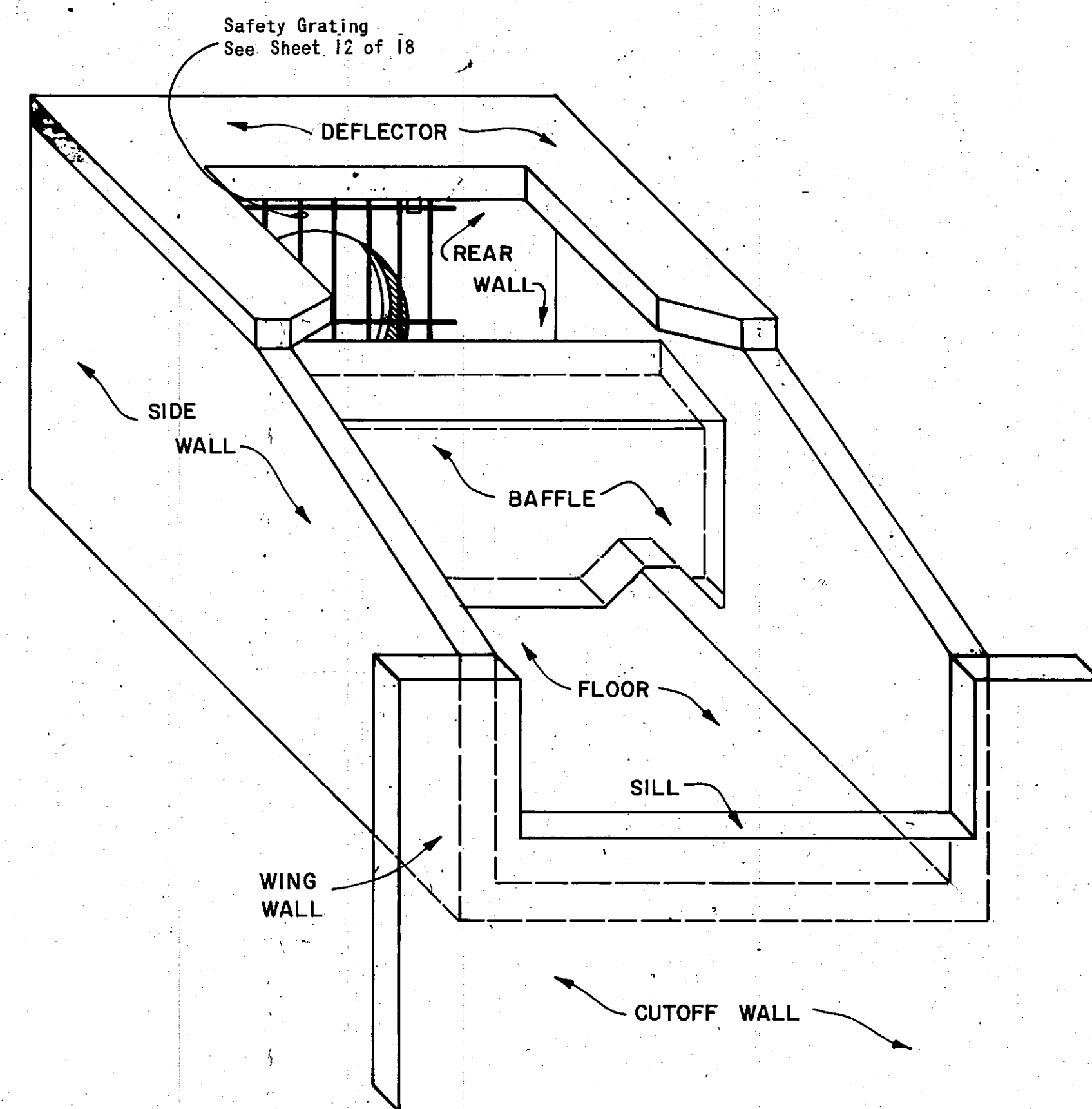
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Seal

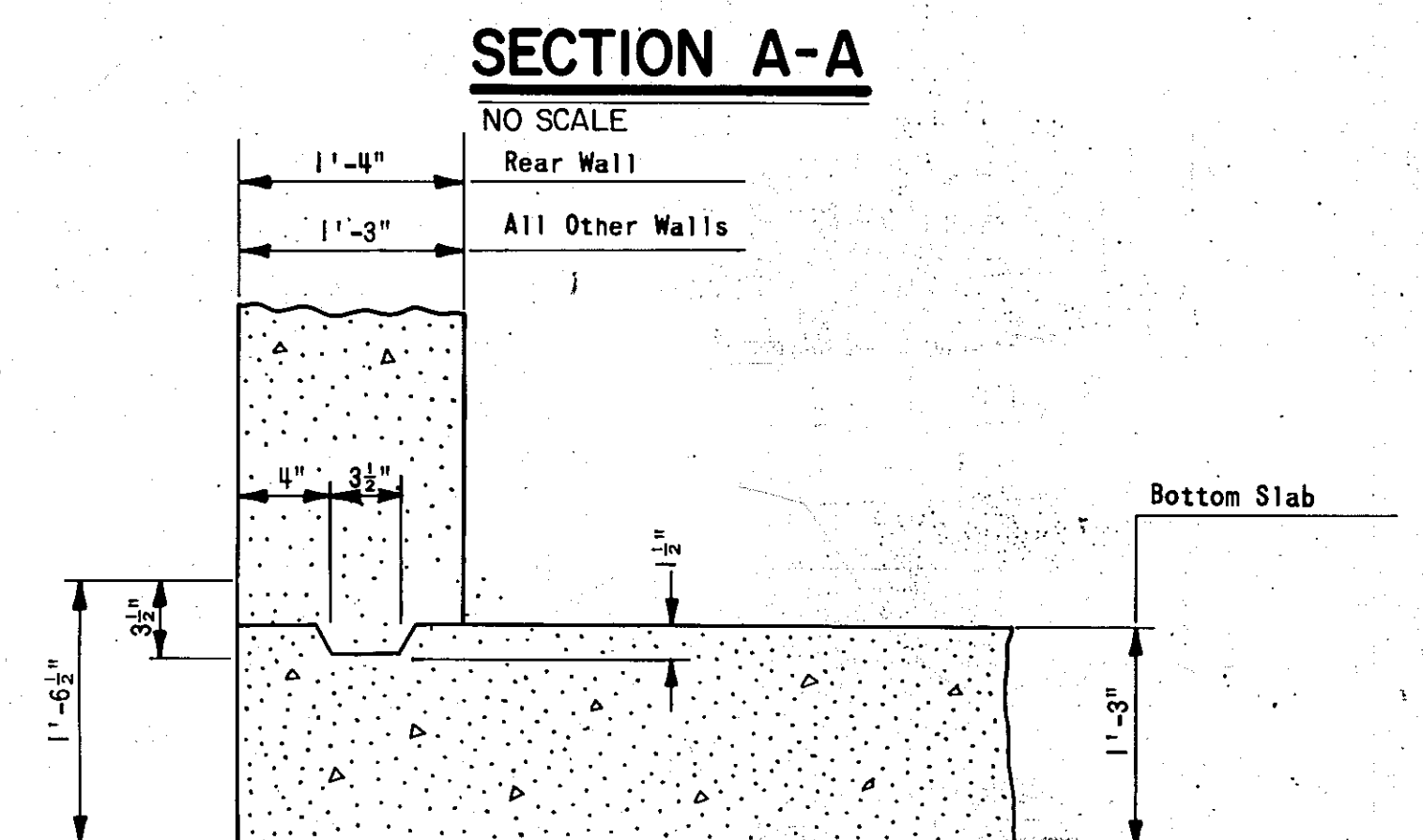
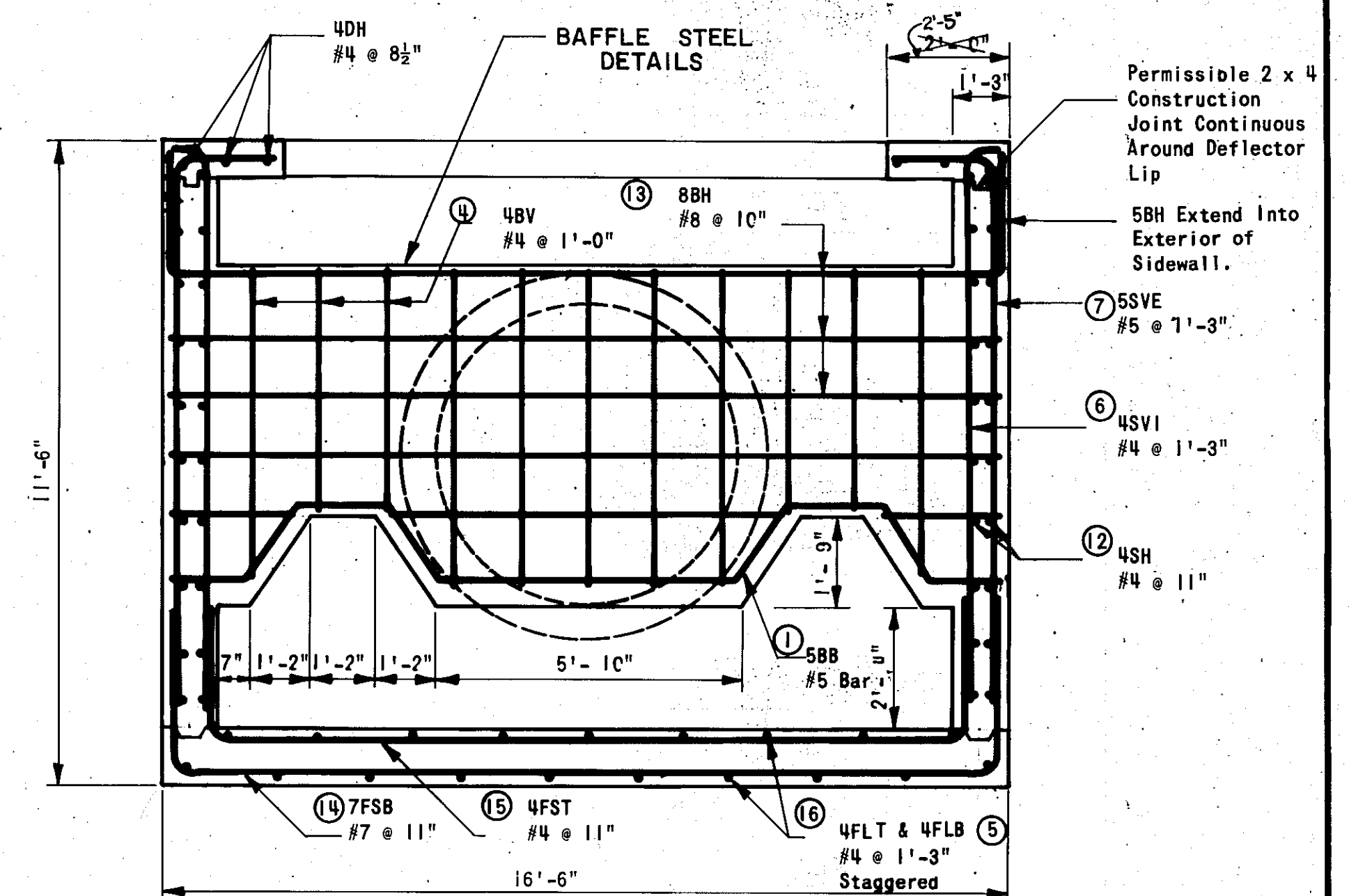
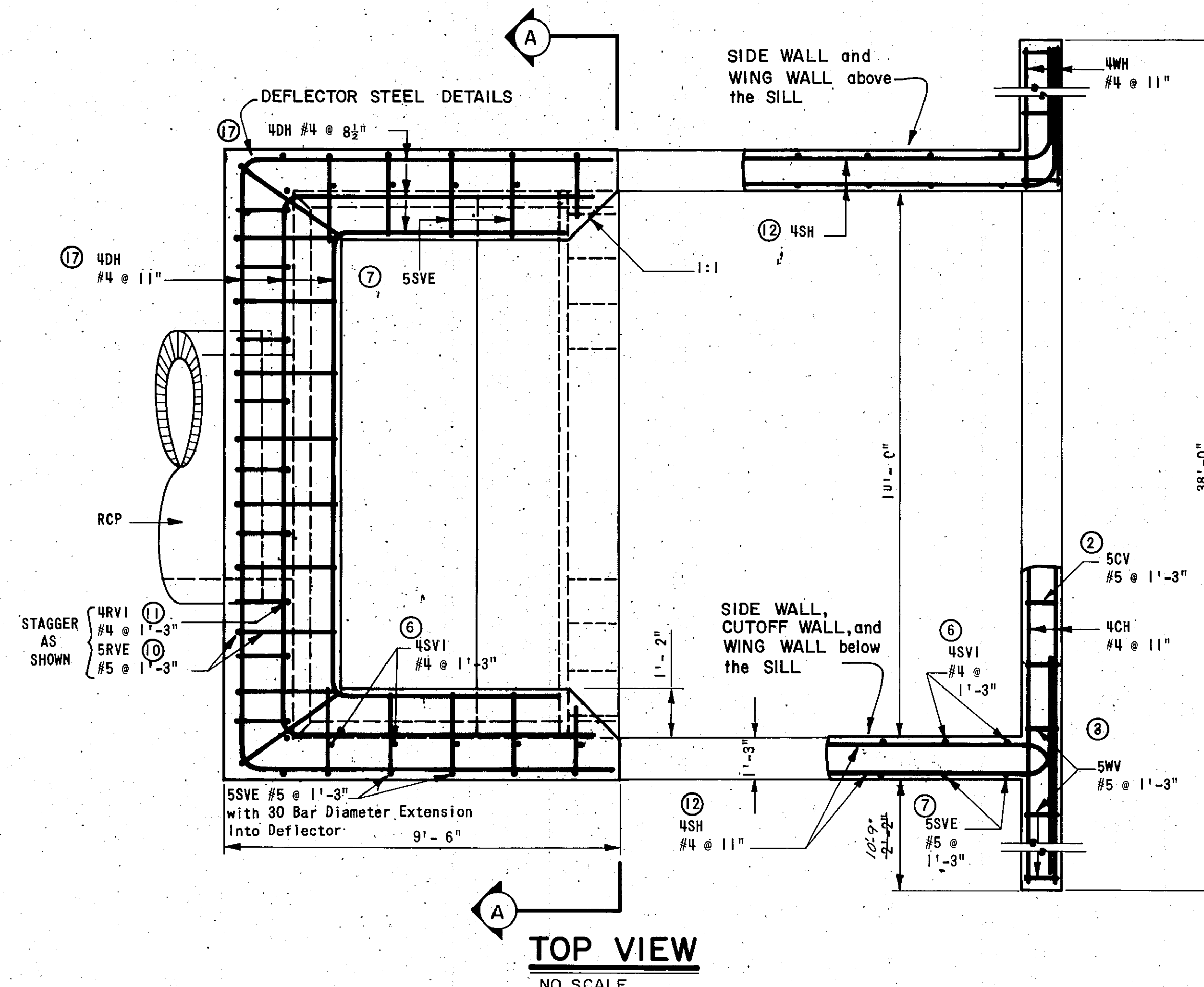
CHARLES M. EASTERLING
NEW MEXICO
6411
REGISTERED PROFESSIONAL ENGINEER

▲





IMPACT STILLING BASIN
NO SCALE



TYPICAL WALL-TO-FOUNDATION CONSTRUCTION JOINT
NO SCALE

NOTES:

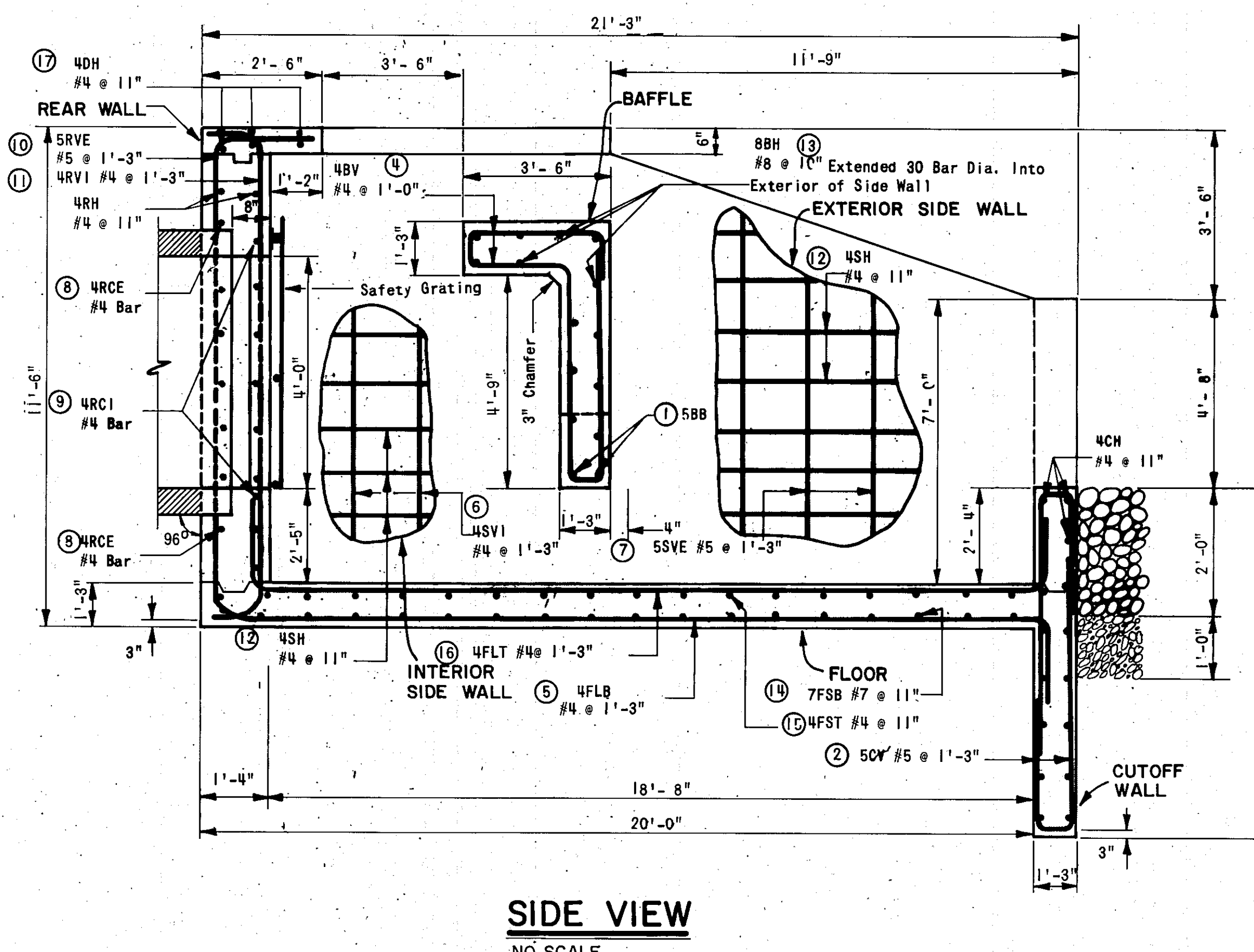
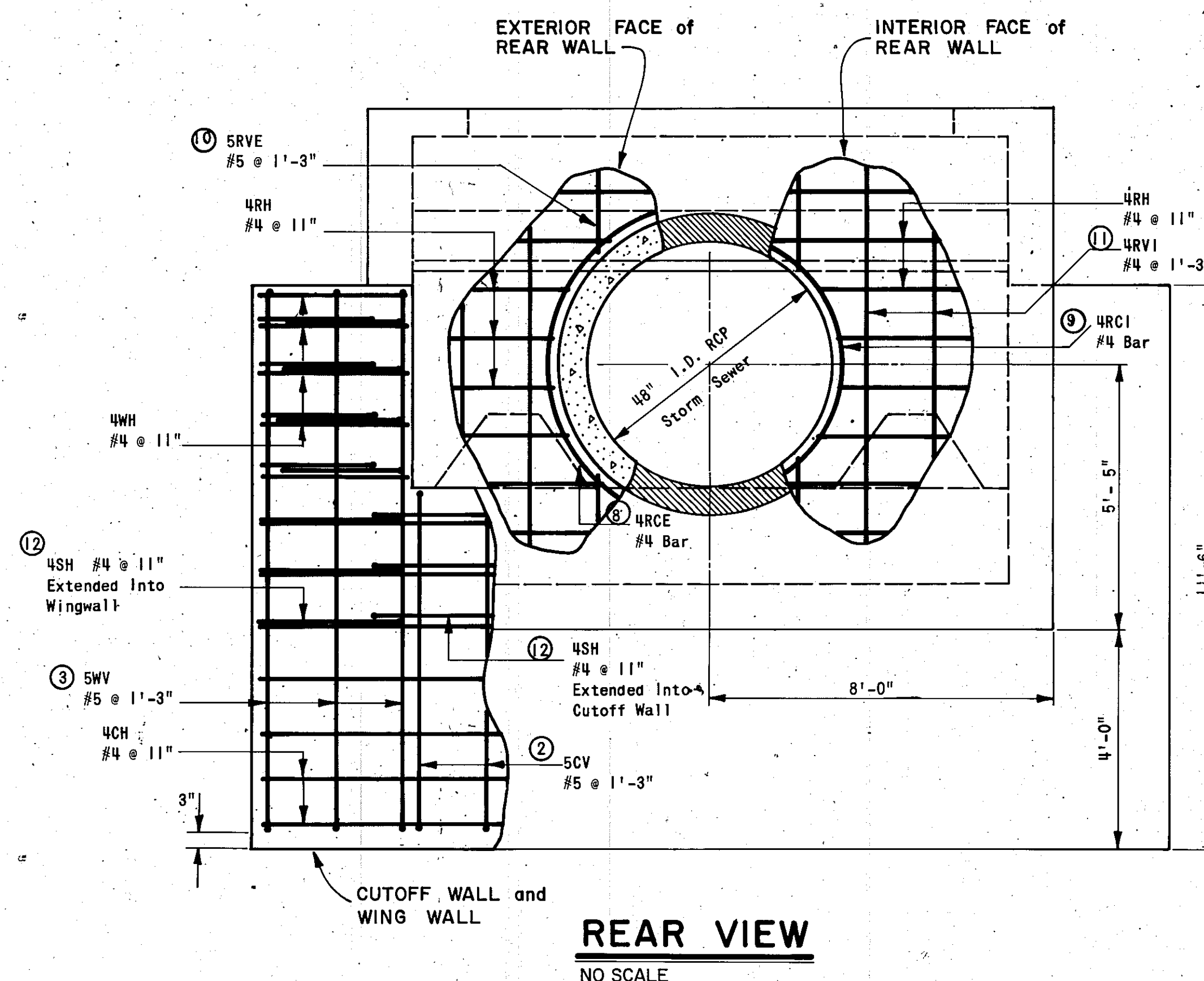
1. Definition of Bar Symbols:

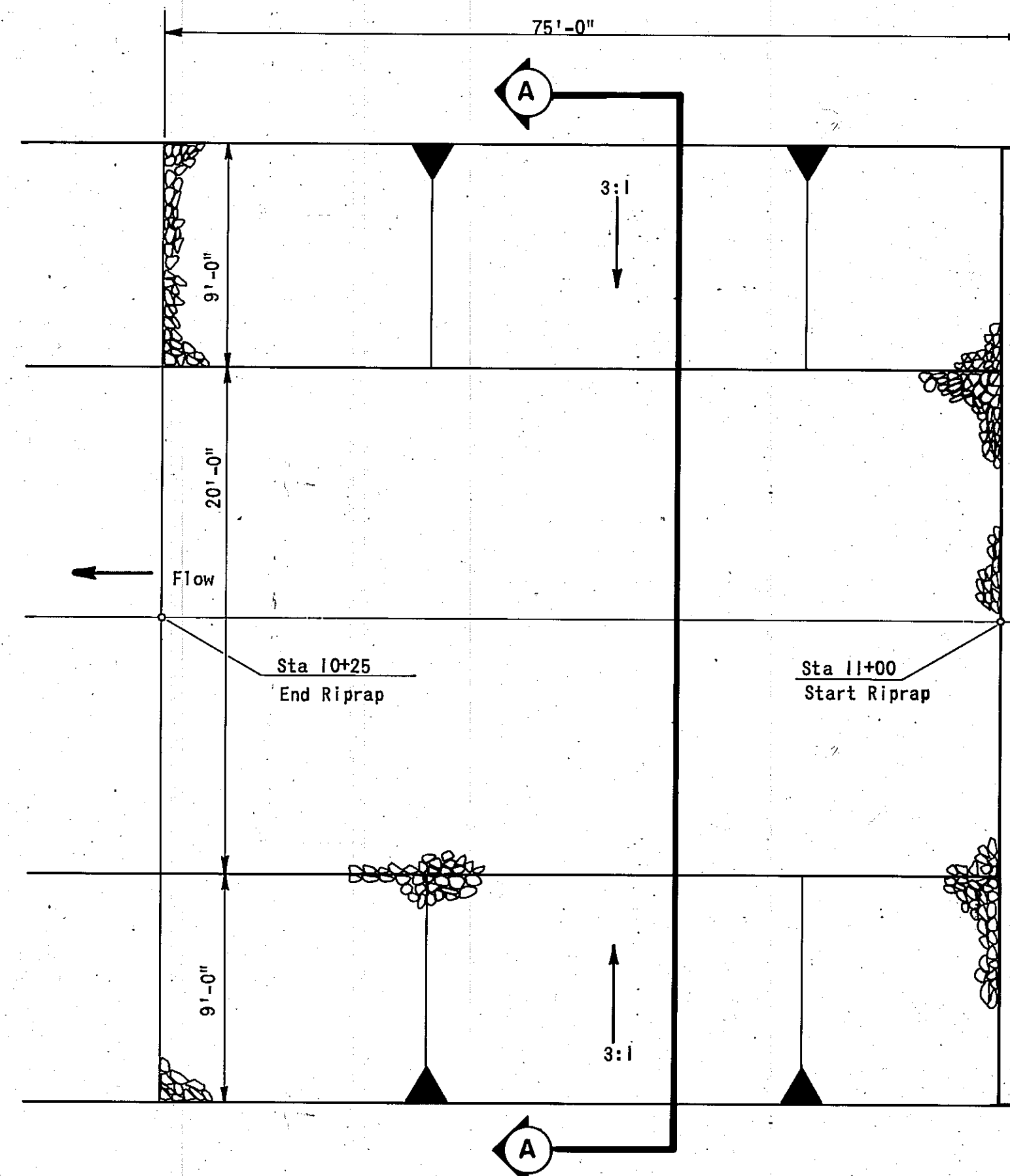
- E: Exterior Face I: Interior Face B: Bottom T: Top
 V: Vertical H: Horizontal C: Circular
 S: Short Dimension L: Long Dimension B: Bottom
 R: Rear Wall S: Side Wall F: Floor
 W: Wing Wall C: Cutoff Wall B: Baffle D: Deflector
 5: #5 Bar 4: #4 Bar 7: #7 Bar, etc.
 (E) Refers to Bar Bending Detail (E). See Details Sheet #26

2. Extend 4FLT and 4FLB 30 Bar diameters into sill, cutoff wall and rear wall as shown. Extend 5BH 30 bar diameters into exterior of side wall as shown. Extend 4FST and 7FSB 30 bar diameters into side walls as shown. Extend 4SH 30 bar diameters into wing wall and cutoff wall as shown.
 3. 4RV1, 4RH and 5RVE shall be cut after placement to accommodate 54" storm pipe.
 4. Min. Cover 3" Steel To Concrete.

Date 6/27/22 AS-BUILT

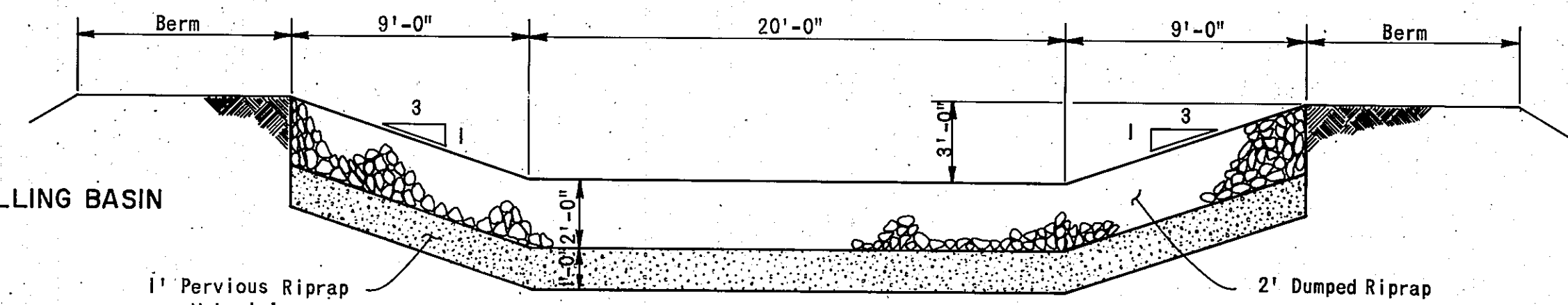
Date		Revision	
STORM DRAINAGE FACILITIES TRAMWAY EAST EMBUDO DAM			
Project No.		IMPACT STILLING BASIN DETAILS	
Seal		ALBUQUERQUE, NEW MEXICO	
Job No.	73-198E	Sheet	11 of 19
Drawn By	SVS	Date	FEB 1978
Checked By	DLW, CME	Scale	AS SHOWN



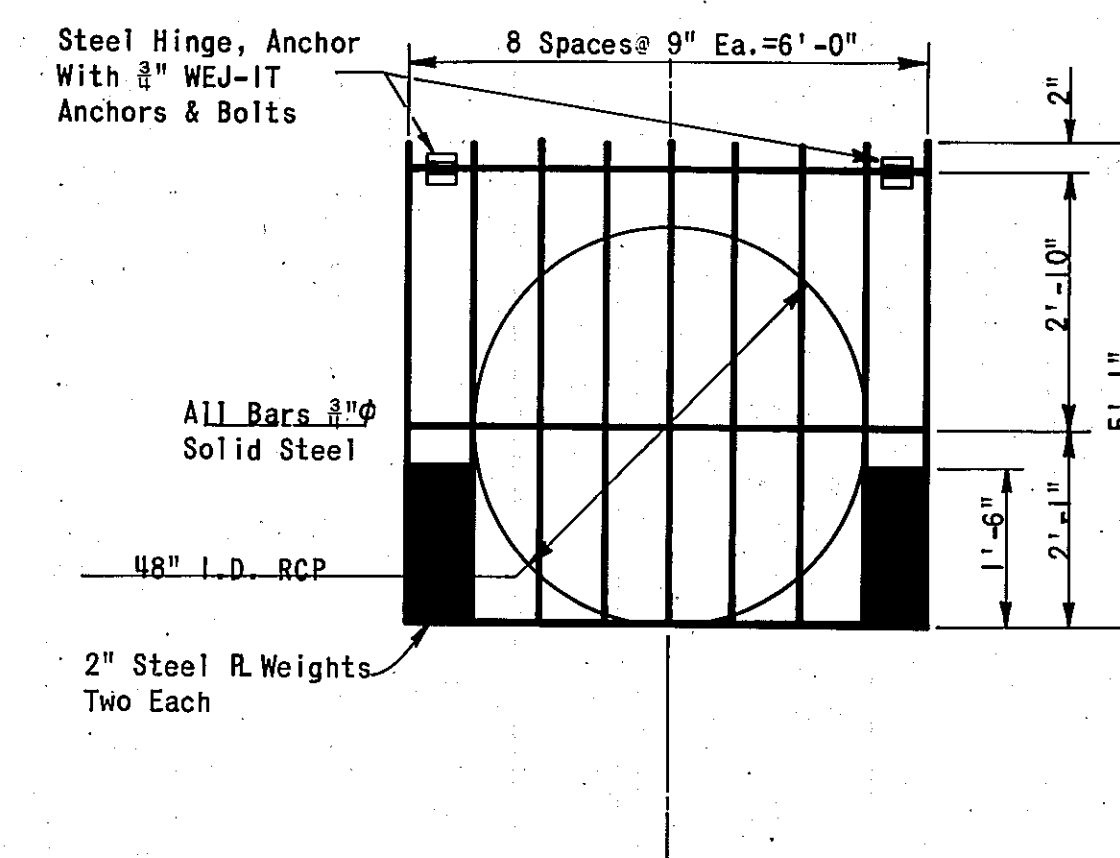


STILLING BASIN SITE PLAN
NO SCALE

EAST EDGE OF STILLING BASIN
STA. 11+21.



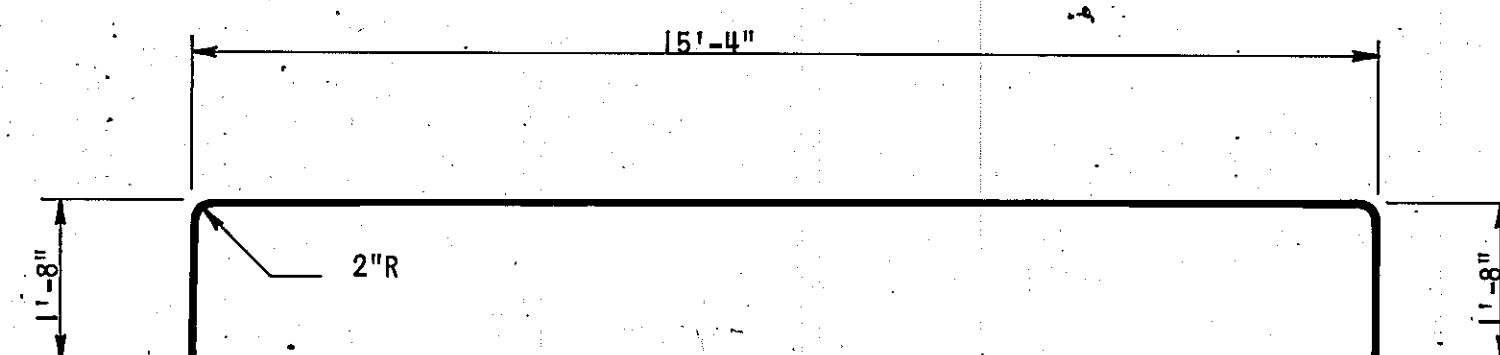
SECTION A-A
NO SCALE



STILLING BASIN SAFETY GRATING
NO SCALE

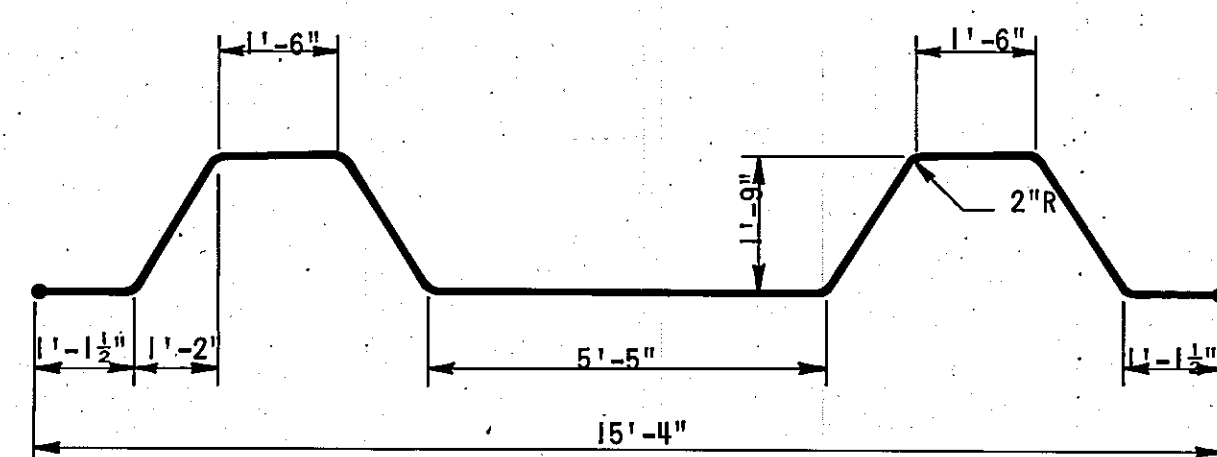
NOTES:

- All bar detail dimensions are given out to out, except that the minimum bending radius is given to the inside edge of the bar. Minimum radius for #4 and #5 bars is 2". Minimum lap shall be 30 bar diameters except that lap shall never be less than 1'-0". Bars shall not be lapped at hooks or bends.
- Minimum Bending Radius:
#4 & #5 Bars → 2"
#7 Bars → 3"
- All bars shall have 2" clear cover except that bars placed in the bottom of the floor or the bottom of the cutoff wall shall have 3" clear cover. The first bar in a series shall be located not more than half the spacing distance from the outside concrete edge.



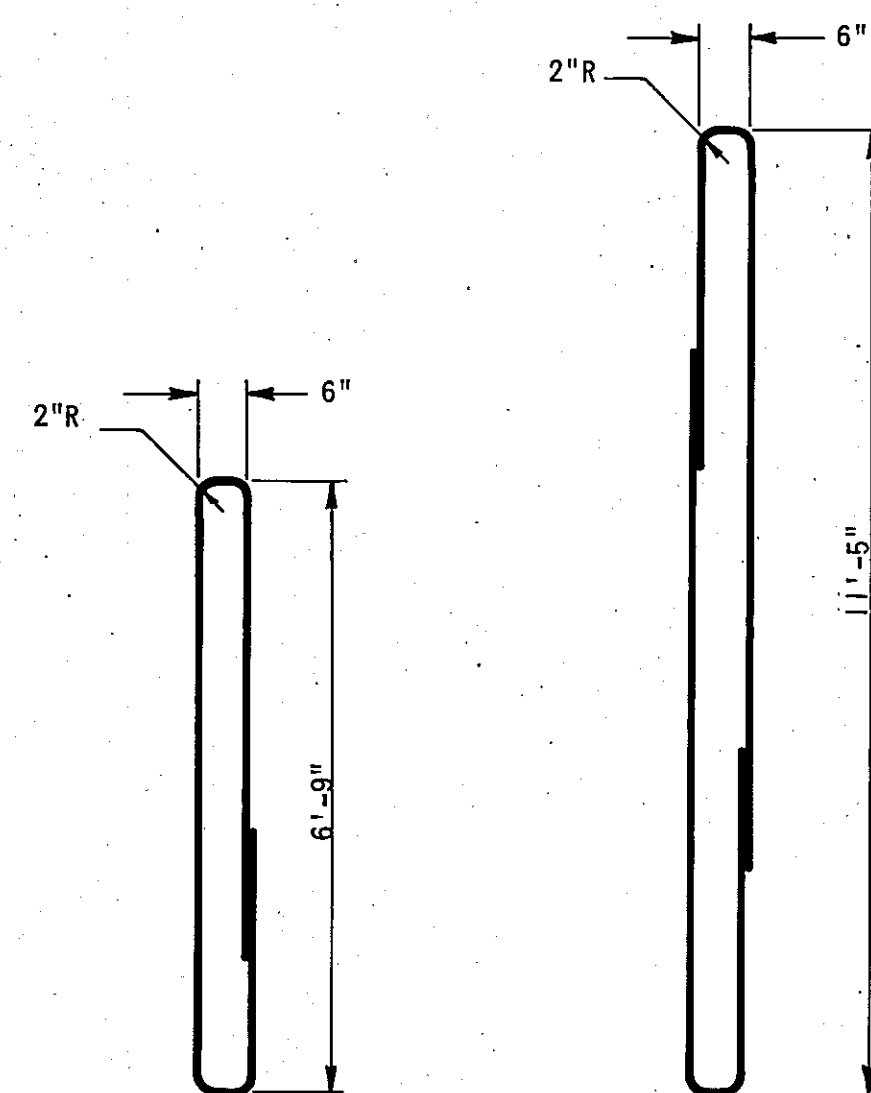
PLAN VIEW

① 5 BB
No. 5 Bar



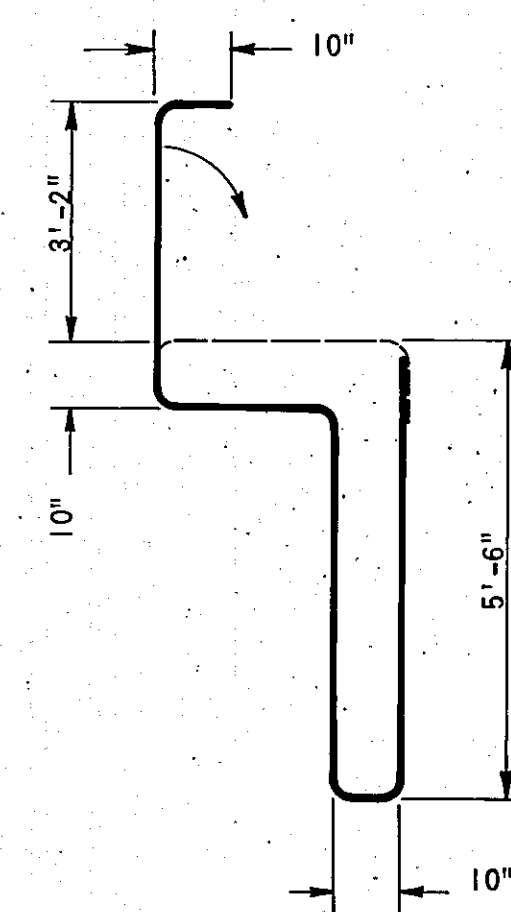
SIDE VIEW

① 5 BB
No. 5 Bar

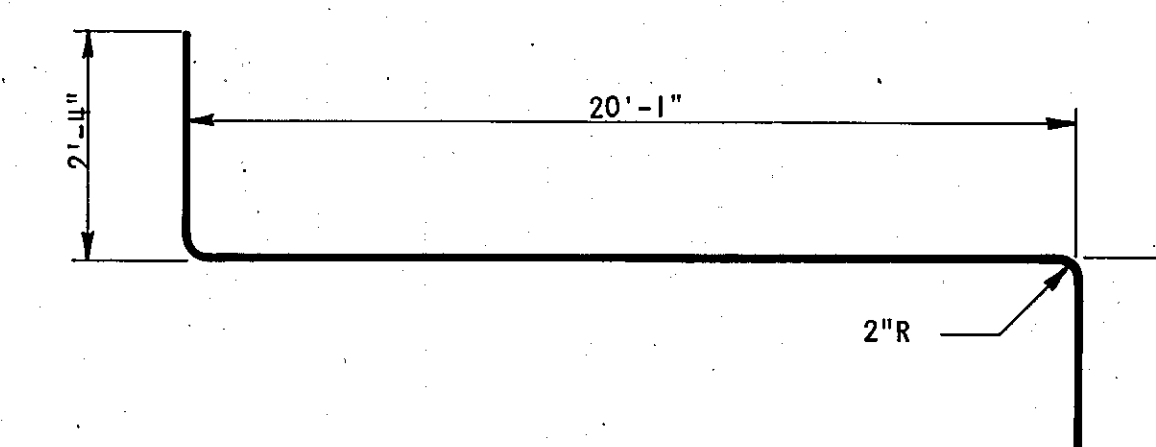


② 5 C V
No. 5 Bar

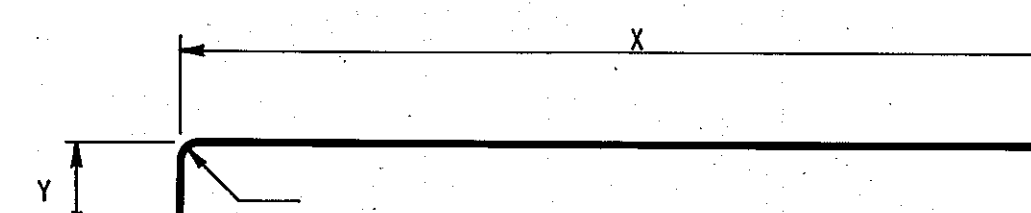
③ 5 W V
No. 5 Bar



④ 4 B V
No. 4 Bar

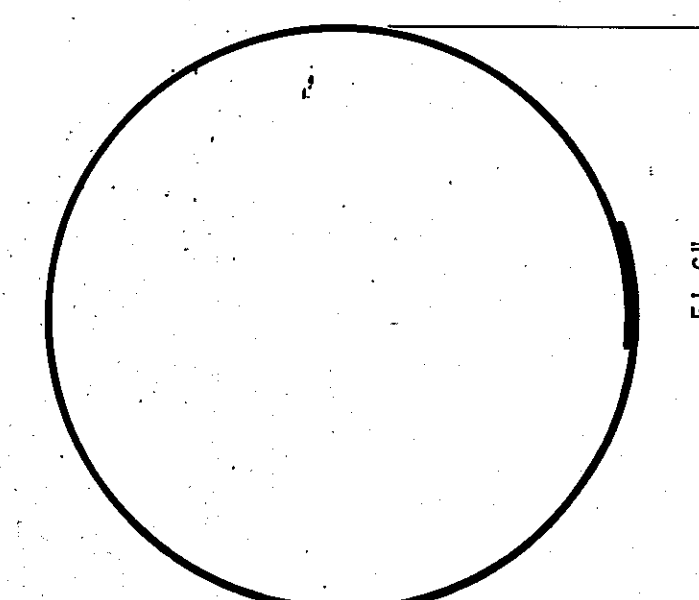


⑤ 4 FLB
No. 4 Bar

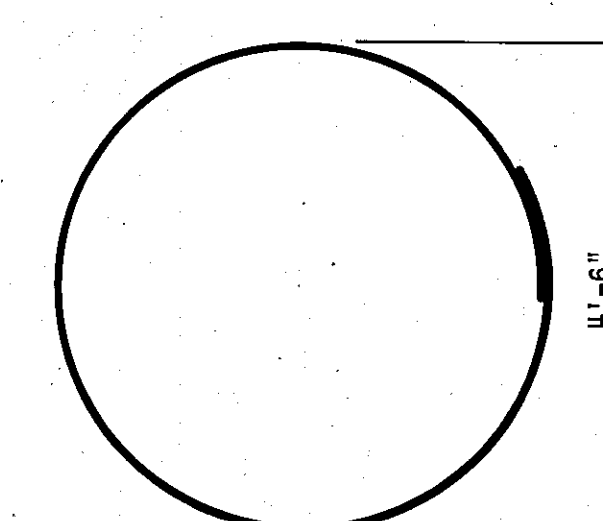


⑥ 4 SVI X= 10'-2" Y= 0'-6"
No. 4 Bar

⑦ 5 SVE X= 10'-2" Y= 1'-6"
No. 5 Bar

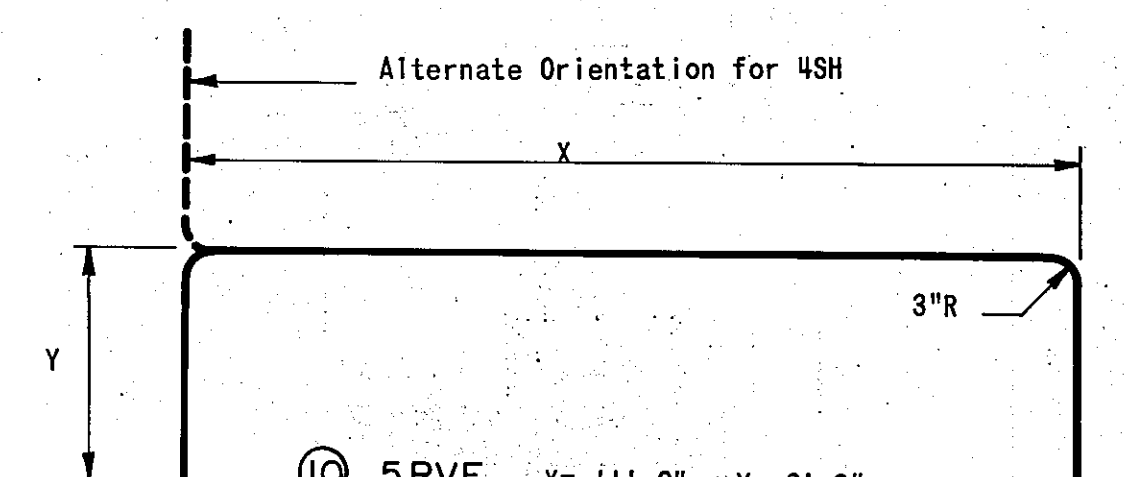


⑧ 4 RCE
No. 4 Bar



⑨ 4 RCI
No. 4 Bar

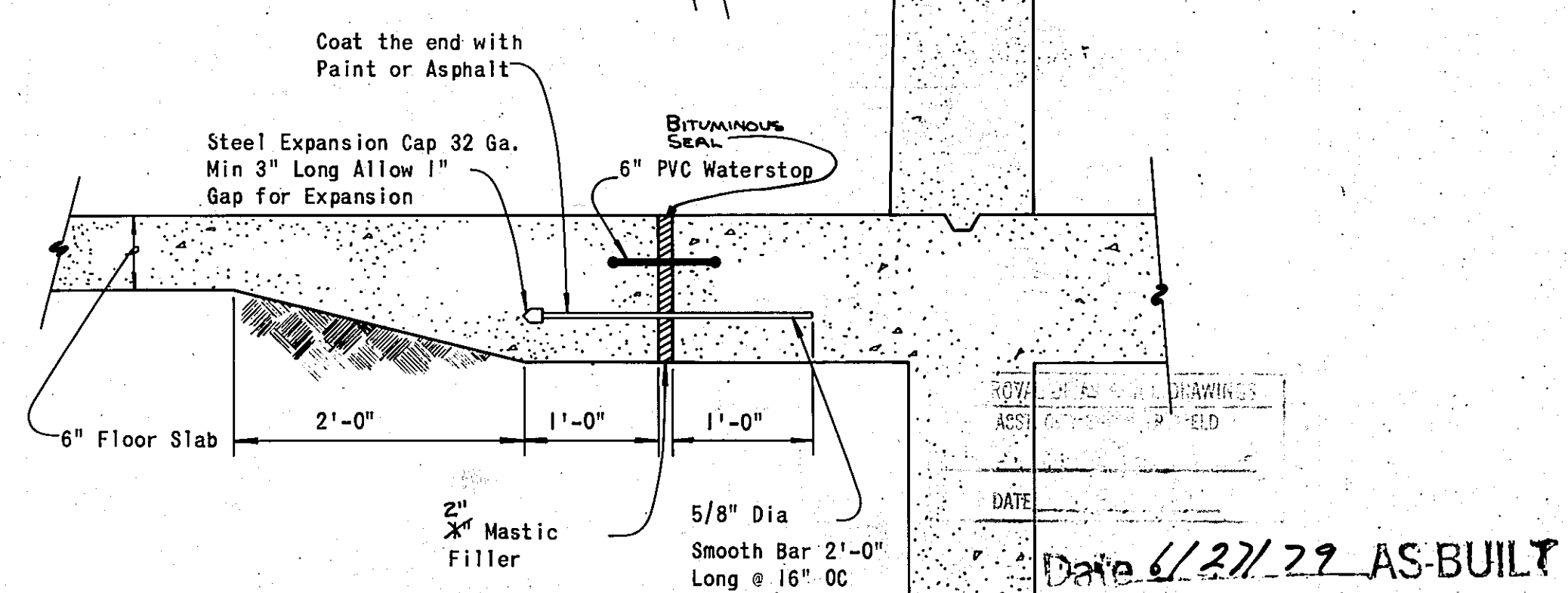
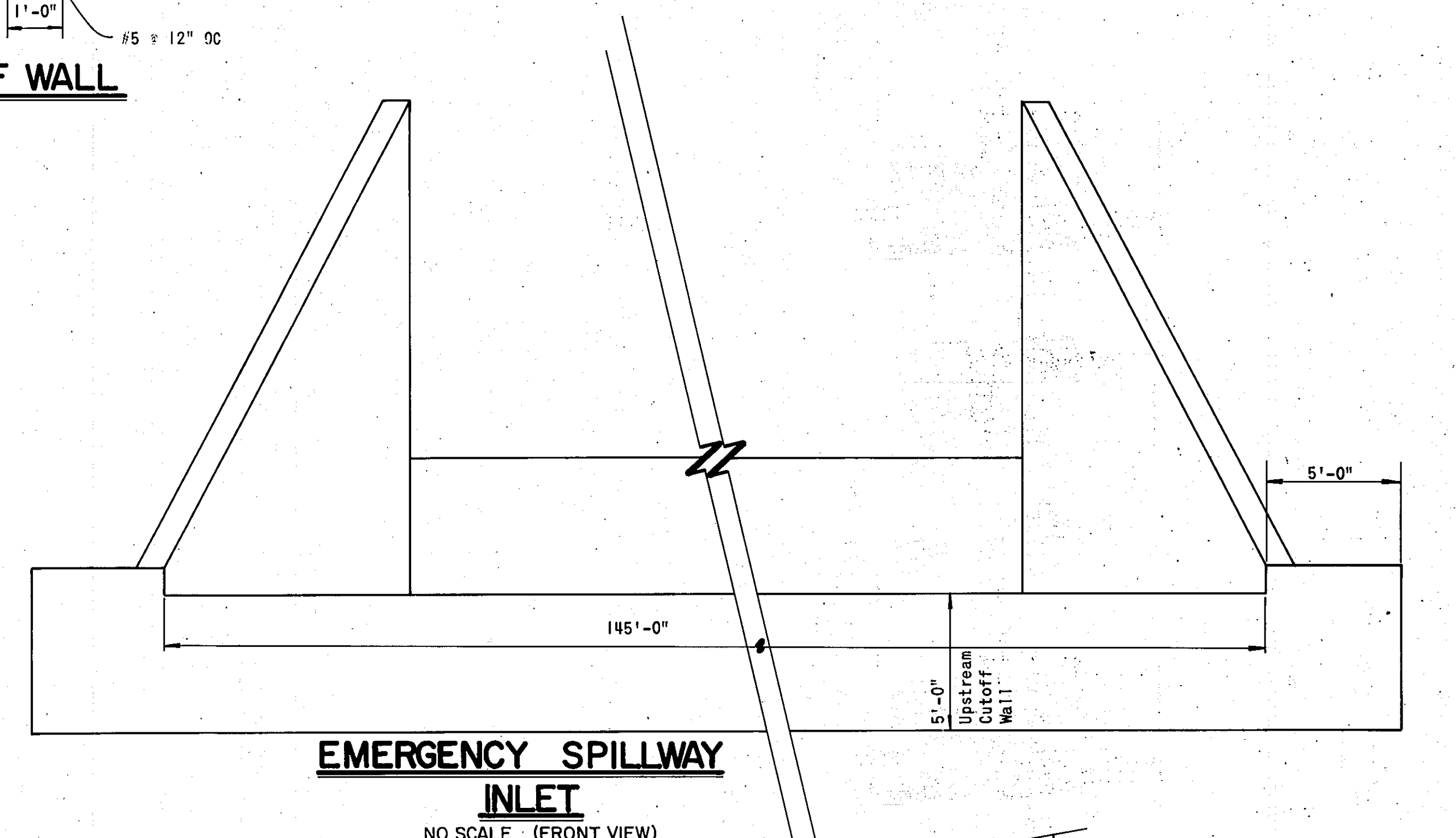
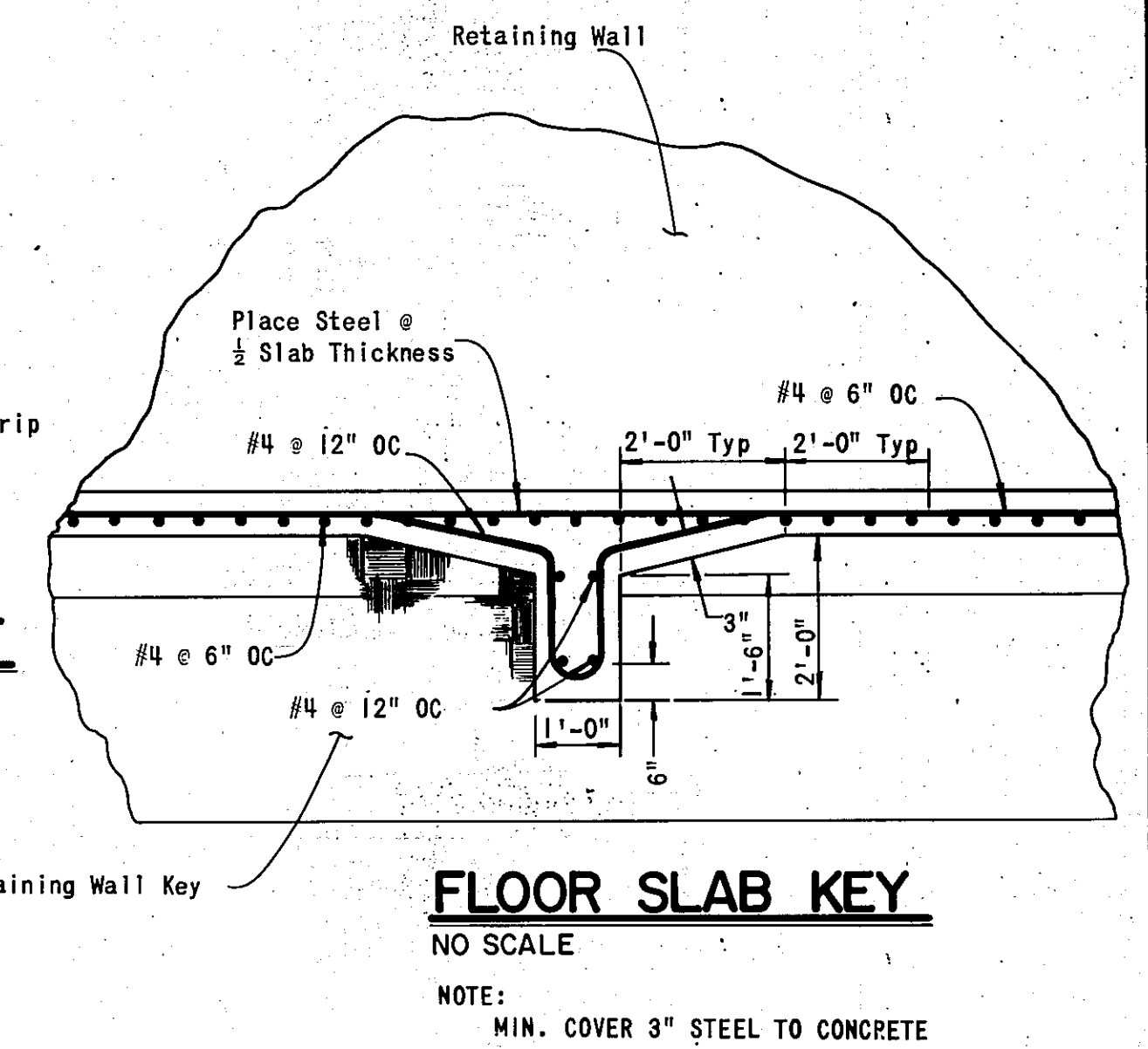
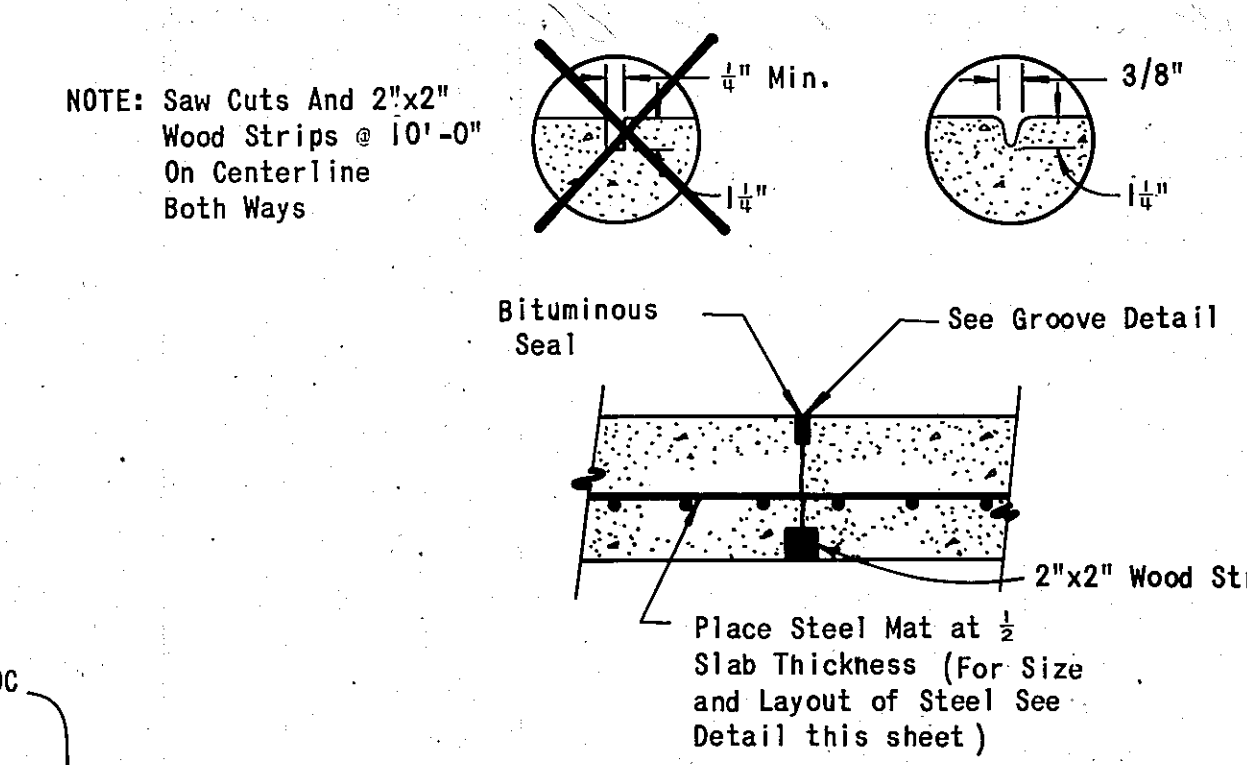
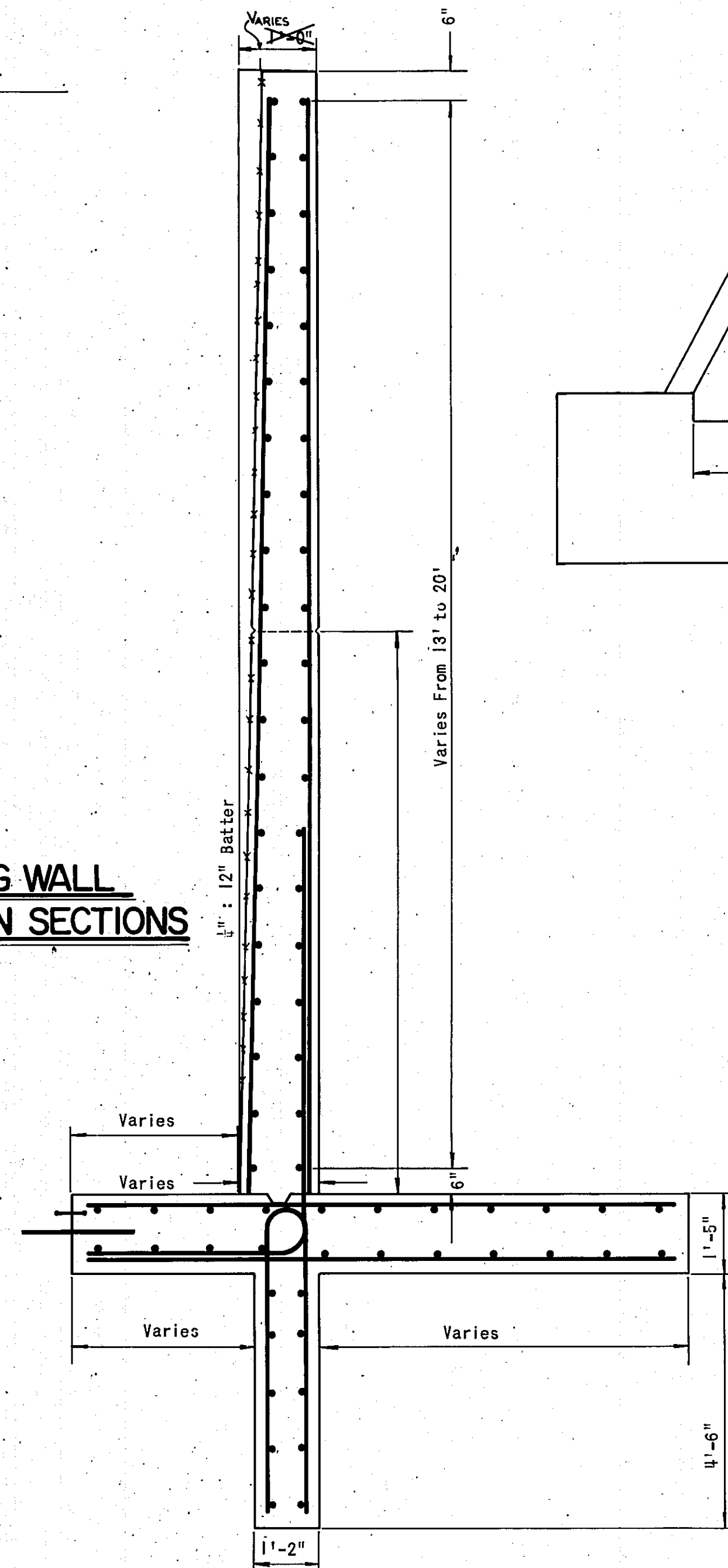
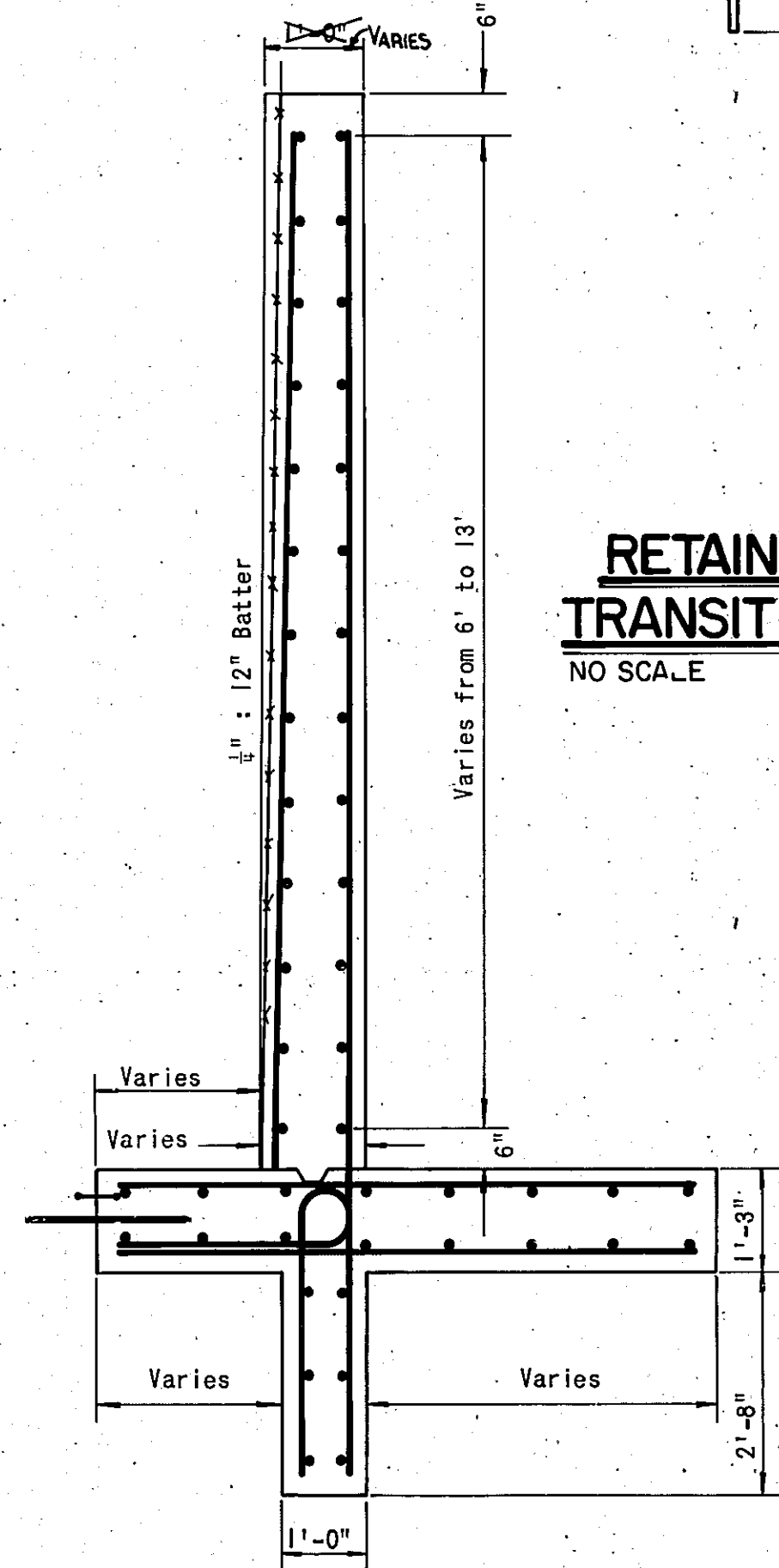
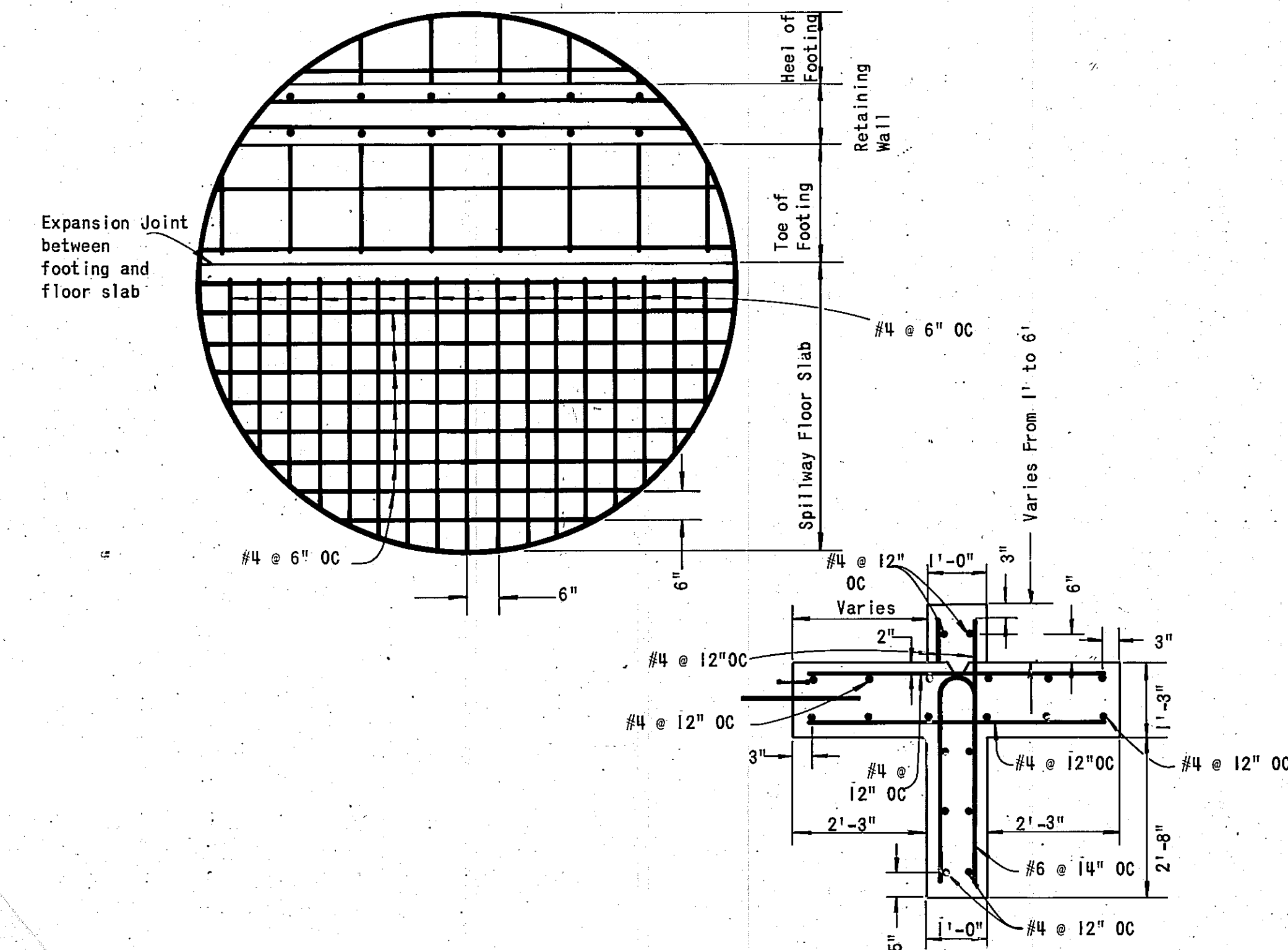
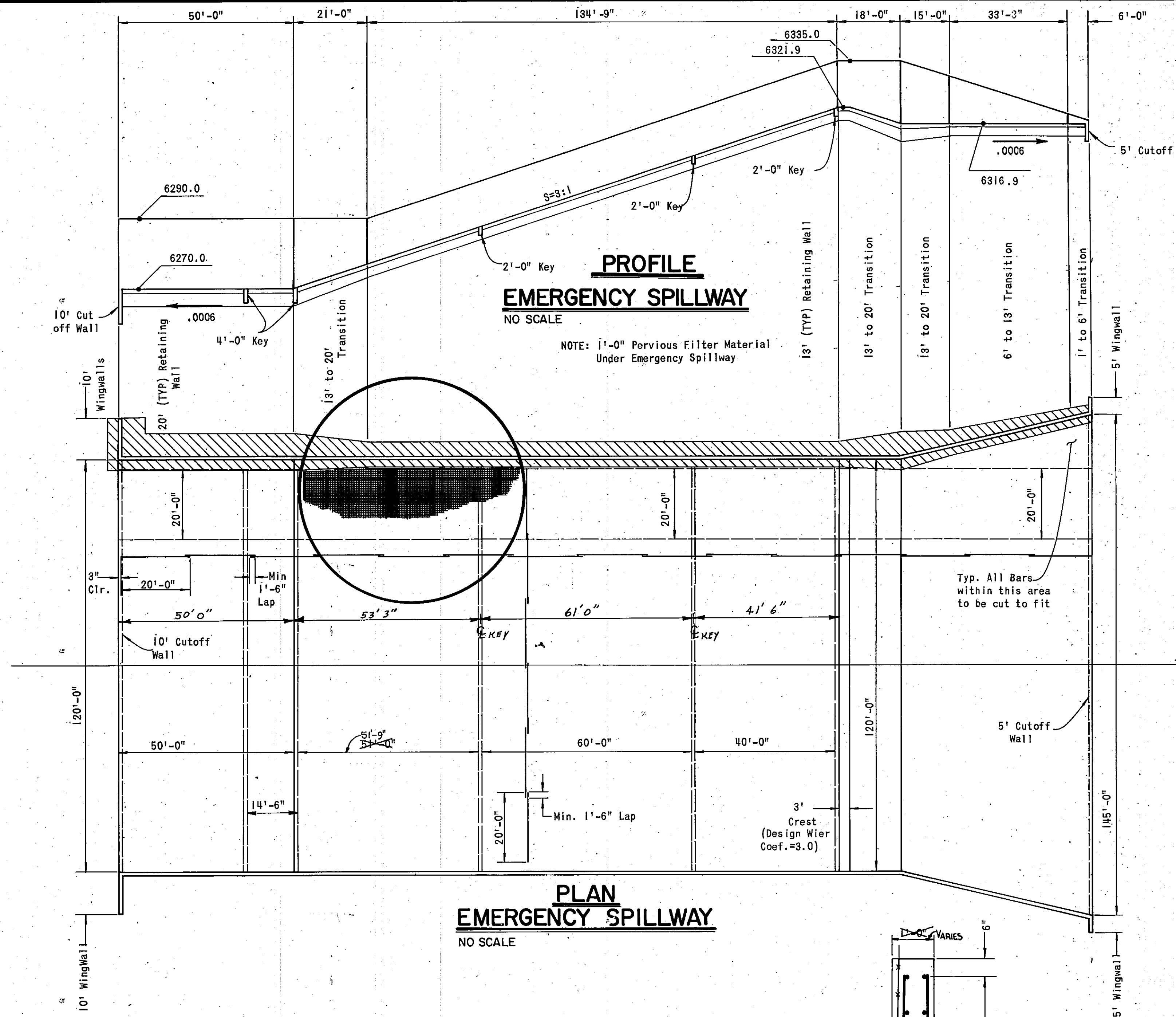
APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER-FIELD
DATE



- 5 RVE X= 11'-0" Y= 2'-2"
- 4 RVI X= 11'-0" Y= 1'-0"
- 4 SH X= 20'-7" Y= 2'-0"
- 8 BH X= 15'-4" Y= 1'-9"
- 7 FSB X= 15'-4" Y= 2'-4"
- 4 FST X= 14'-5" Y= 1'-9"
- 4 FLT X= 19'-2" Y= 1'-9"
- 4 DH X Varies From 18'-3" to 12'-1" Y Varies From 9'-1" to 6'-0"

Date 6/27/77 AS BUILT

STORM DRAINAGE FACILITIES	
TRAMWAY EAST	
EMBUDO DAM	
Project No.	STILLING BASIN and BAR DETAILS
Sheet	ALBUQUERQUE, NEW MEXICO
Job No. 73-198E	Sheet 12 of 19
Drawn By: JDC	Date: FEB. 1978
Checked By: DLW, CME	Scale: AS SHOWN



RETAINING WALL TO FLOOR SLAB CONSTRUCTION JOINT
NO SCALE (TYPICAL)

APPROVE OR AS-BUILT DRAWINGS		STORM DRAINAGE FACILITIES	
ASSISTANT CITY ENGINEER - FIELD		TRAMWAY EAST	
DATE 12/1/22		EMBUDO DAM	
Job No. 73-198E		Project No.	
Drawn By: SVS		Sheet	
Checked By: DLW, CME		Scale: NO SCALE	
Date: 12/1/22		Date: 6/27/22 AS-BUILT	

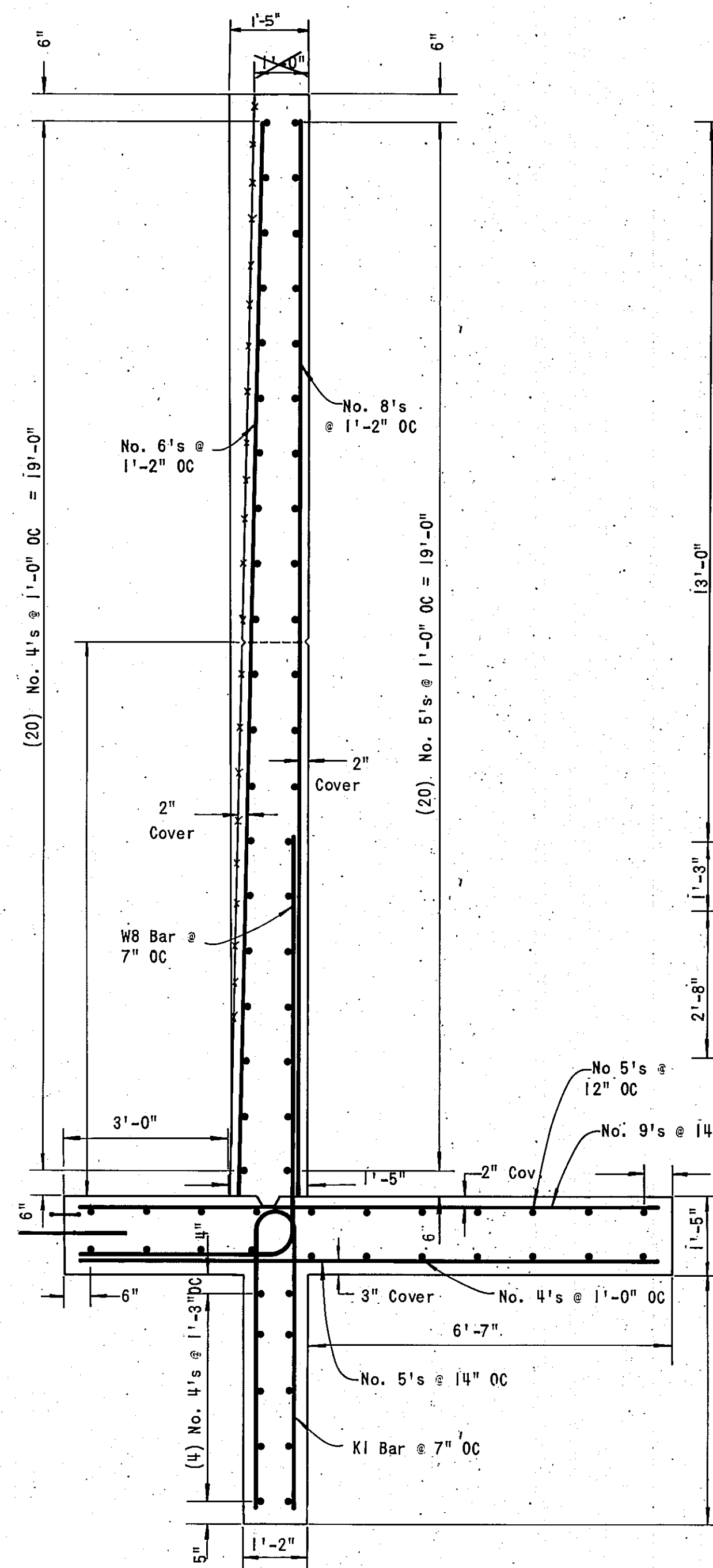
Diagram of a U-shaped bar with dimensions:

- Overall height: y
- Overall width: x
- Radius of the bottom curve: $D=6''$

LENGTH
$\hat{y} \hat{y}' - 5\frac{3}{4}''$
$10' - 3\frac{3}{4}''$
$\hat{y} \hat{y}' - 10\frac{3}{4}''$
$\hat{y}' - 10''$

K-1 BAR
K-2 BAR

W-8 BAR
W-9BAR



20' RETAINING WALL
NO SCALE (TYPICAL SECTION)



APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
C. W. [Signature]
DATE 12/12/99

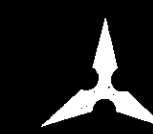
Date 6/27/79 AS-BUILT

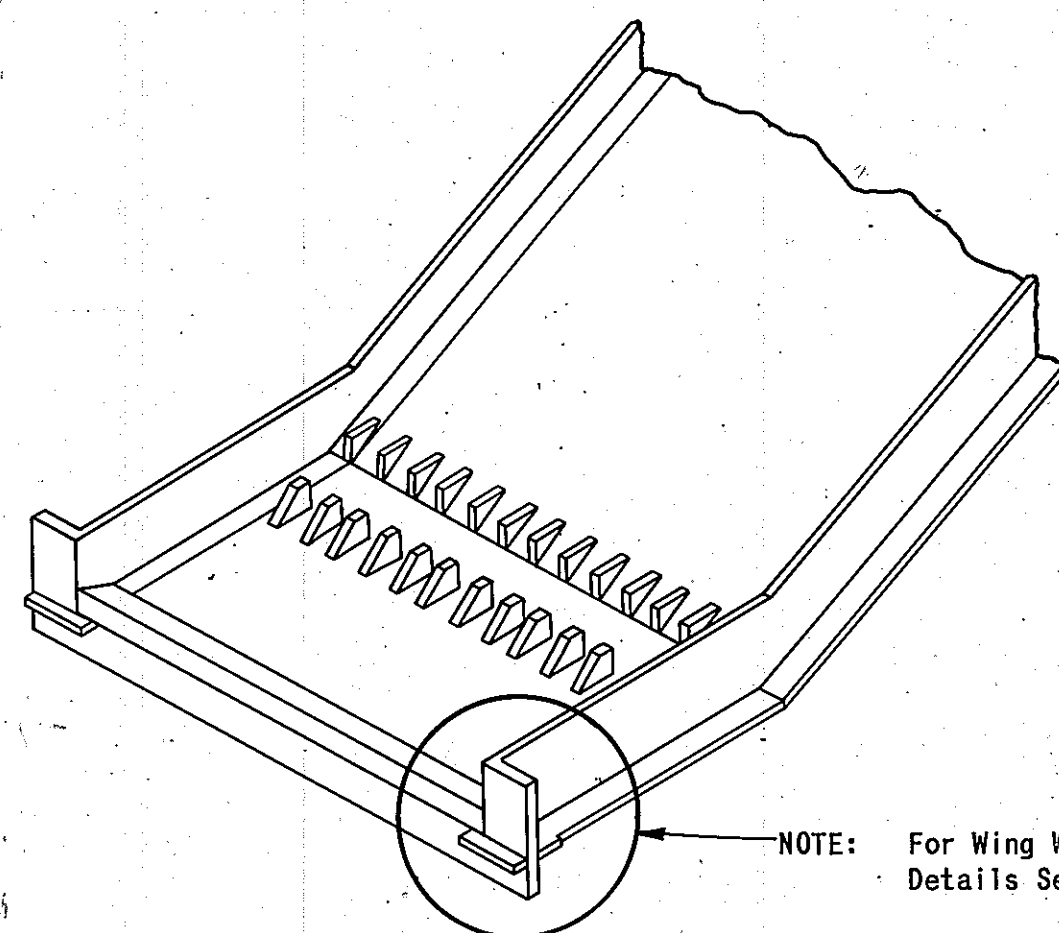
STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

**TYPICAL
RETAINING WALL SECTIONS**

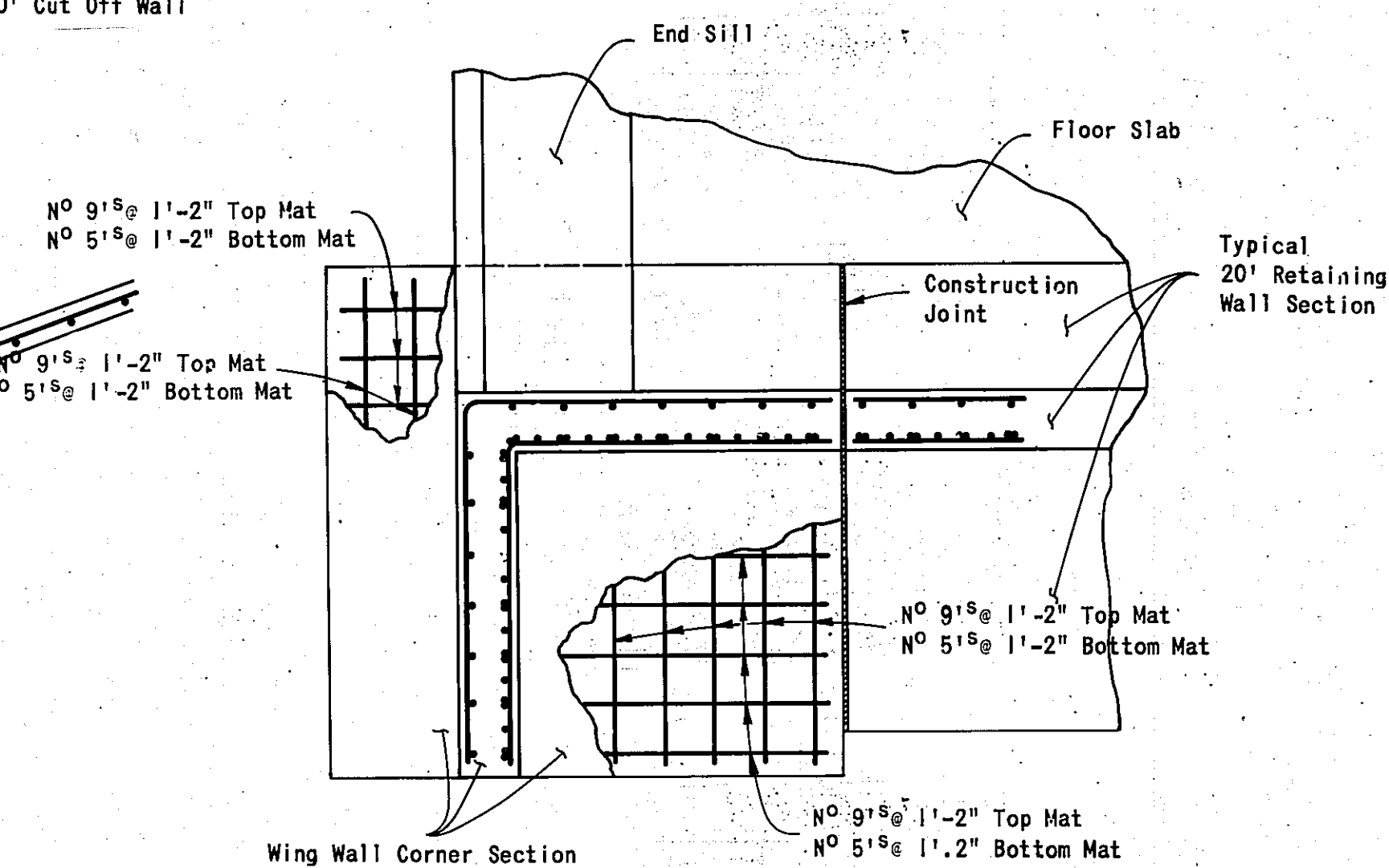
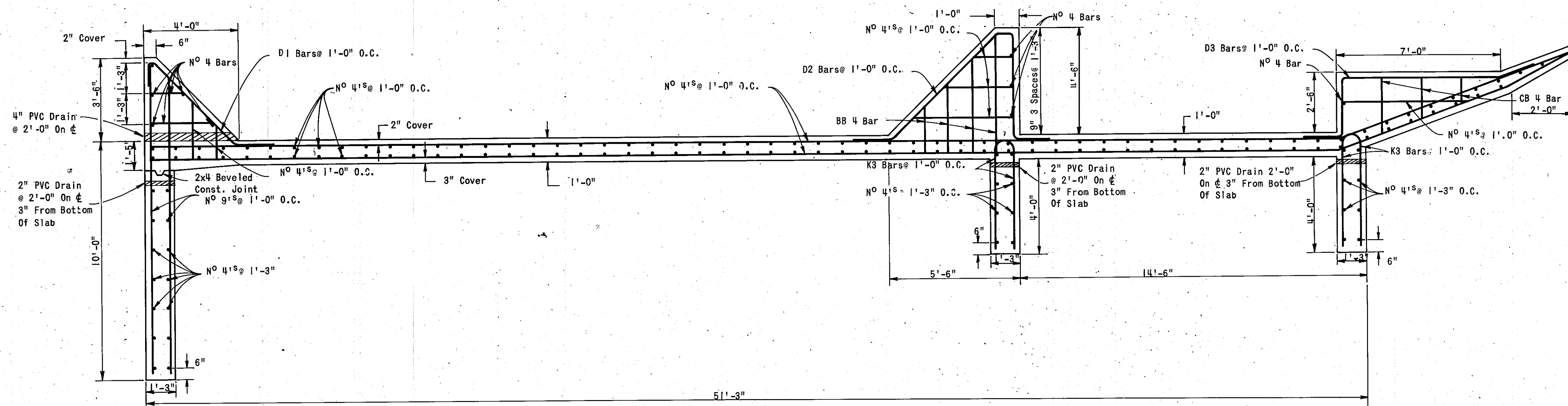
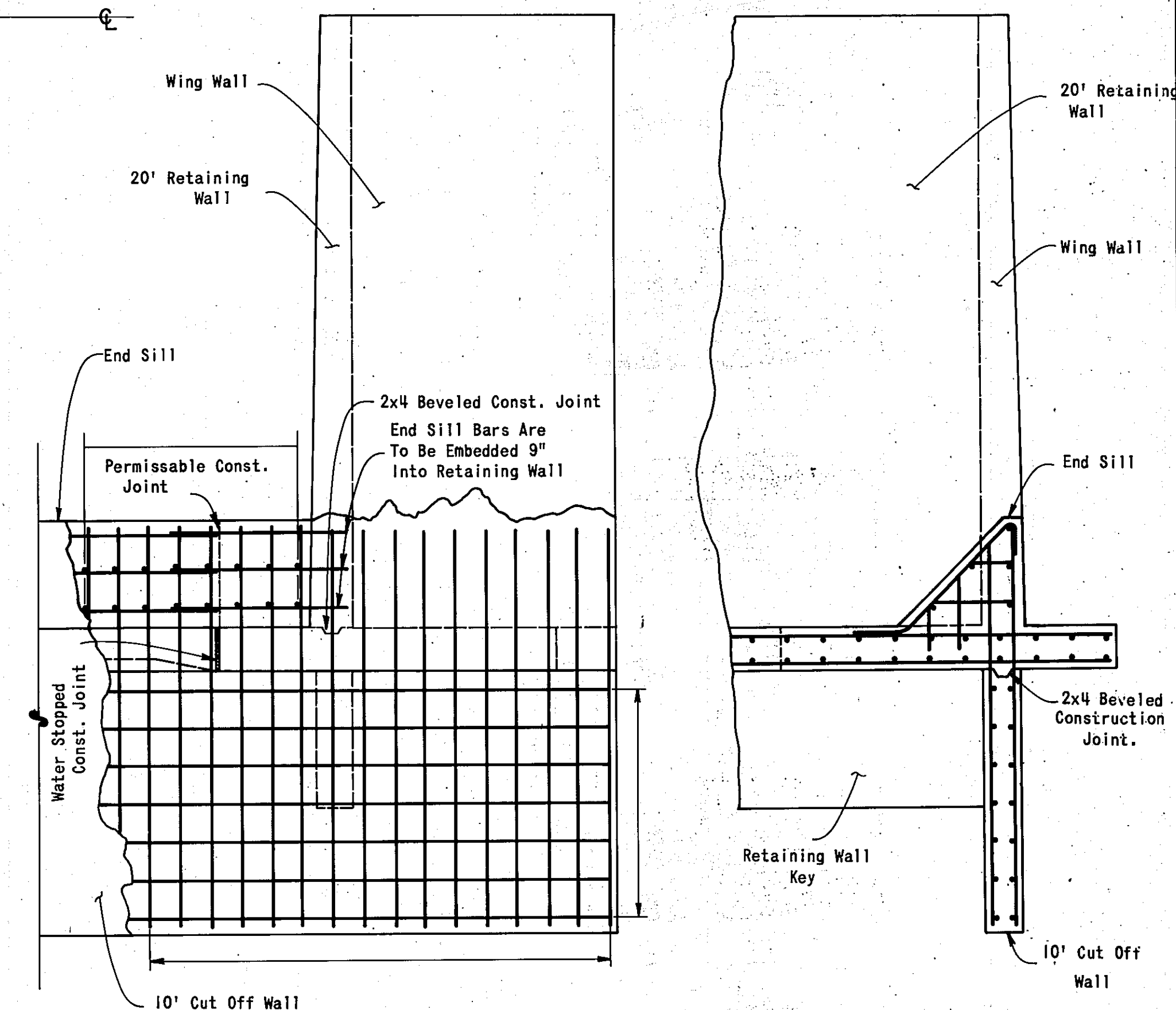
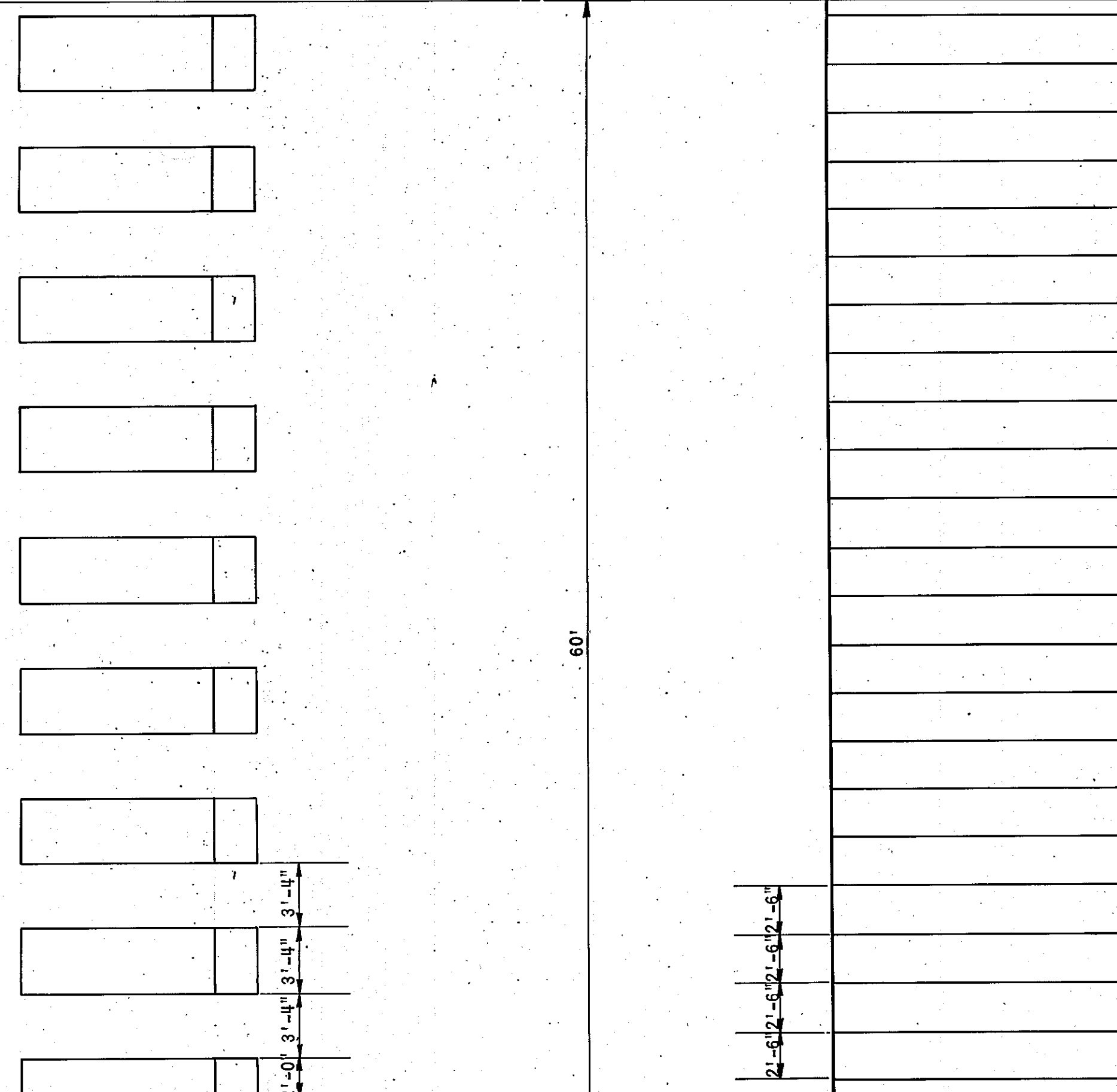
ALBUQUERQUE, NEW MEXICO

Job No 73-198E	Sheet Of 14 19
Drawn By: SVS	Date: FEB.1978
Checked By: DLW, CME	Scale: NO SCALE

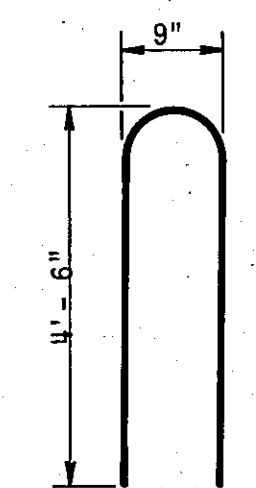




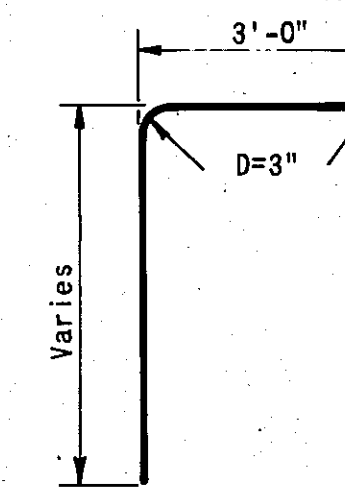
NOTE: For Wing Wall Corner Details See This Sheet.



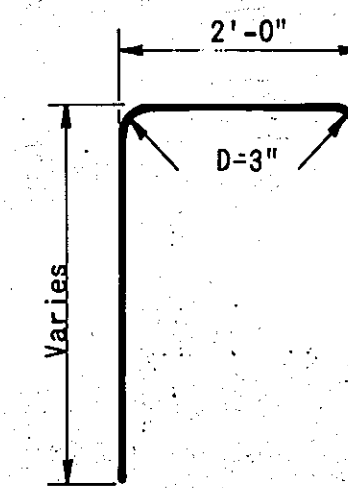
WINGWALL CORNER DETAILS
NO SCALE



K-3 BAR
Length=9'-5"



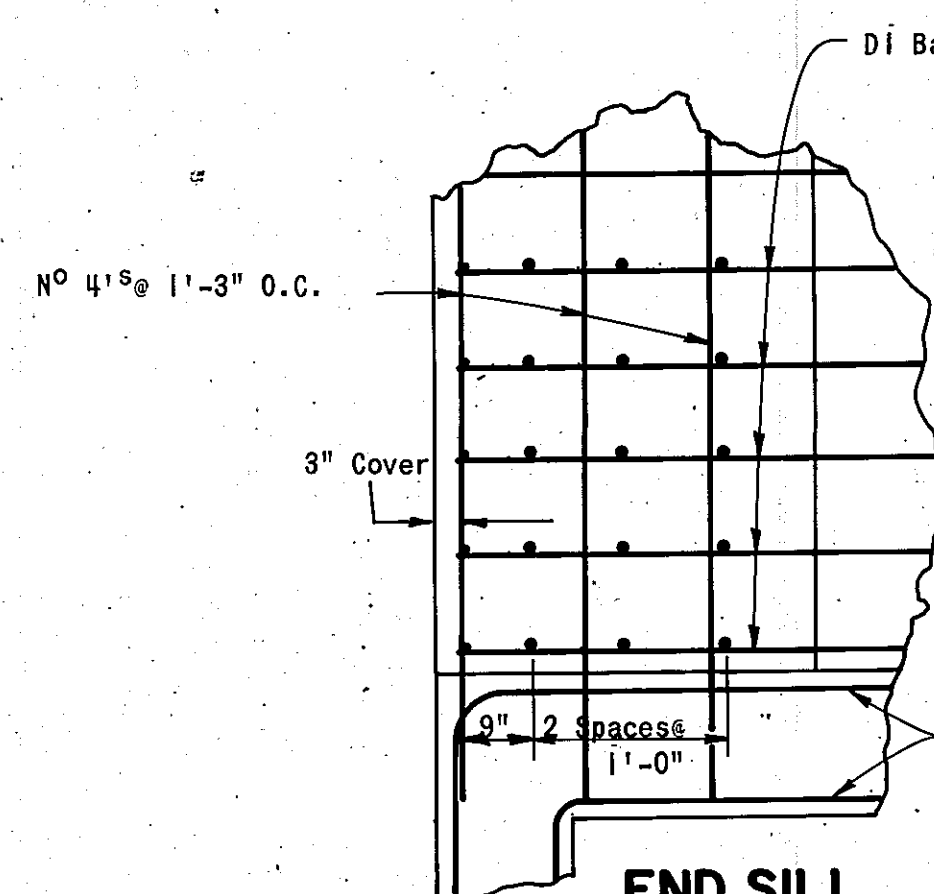
BB-4 BAR



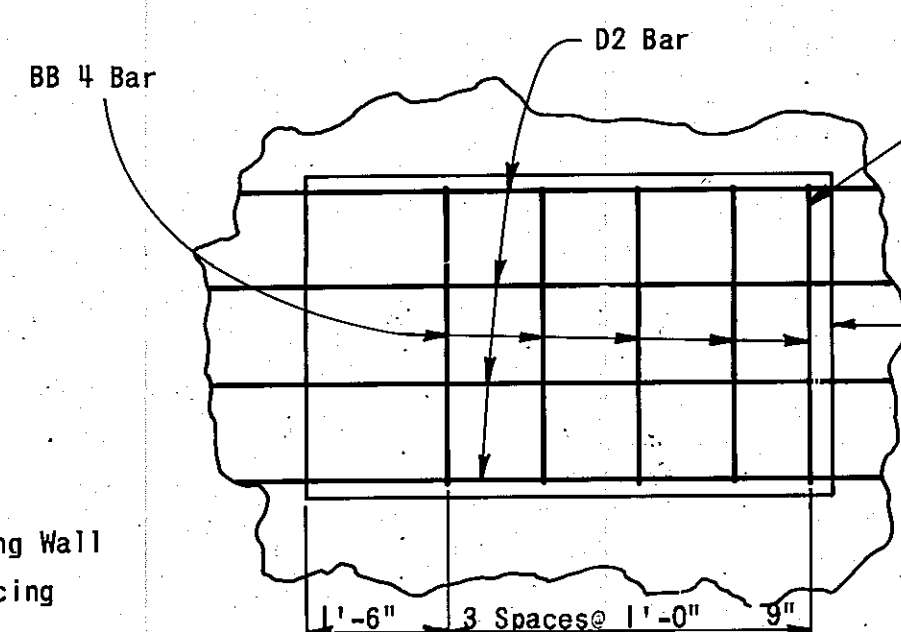
CB-4 BAR

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER-FIELD
DATE 12/1/79

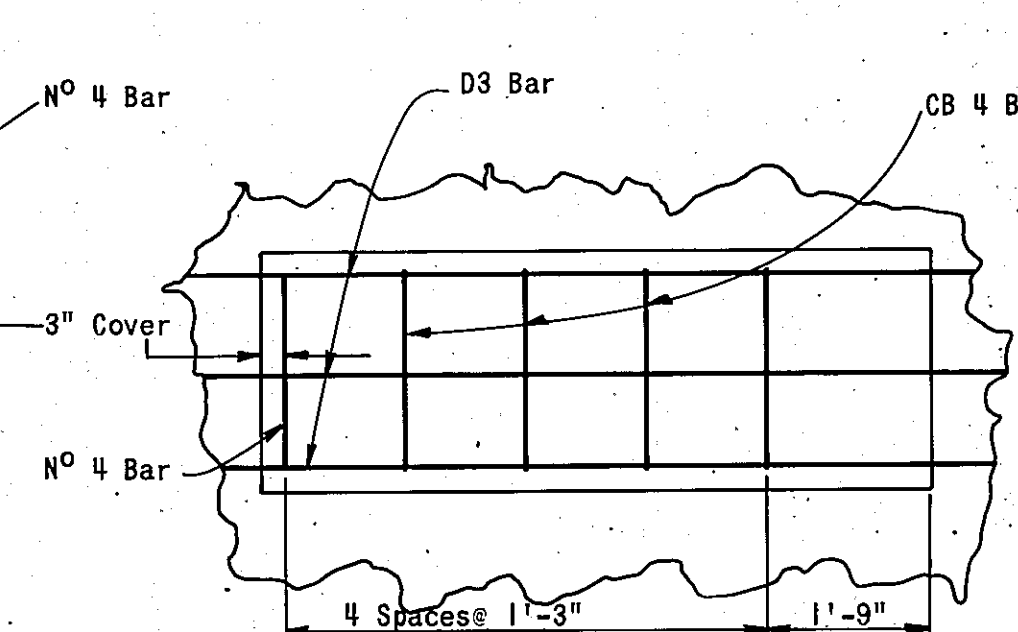
PLAN and PROFILE
EMERGENCY SPILLWAY ENERGY DISSIPATOR
NO SCALE



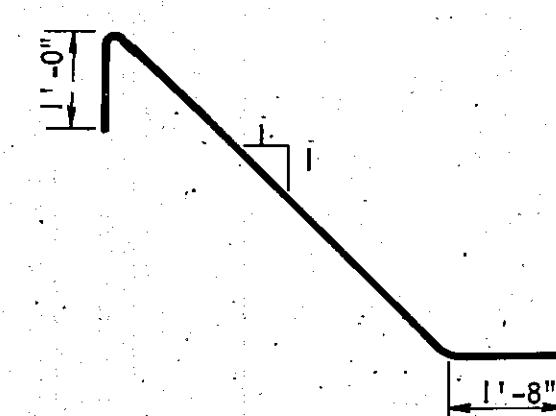
END SILL
(TOP VIEW)



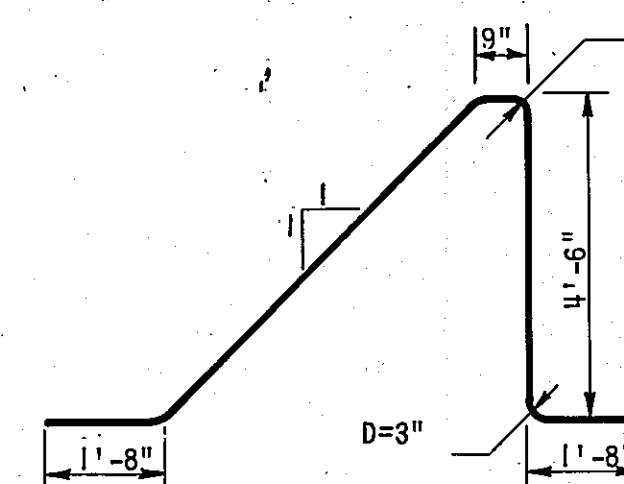
BAFFLE BLOCK
(TOP VIEW)



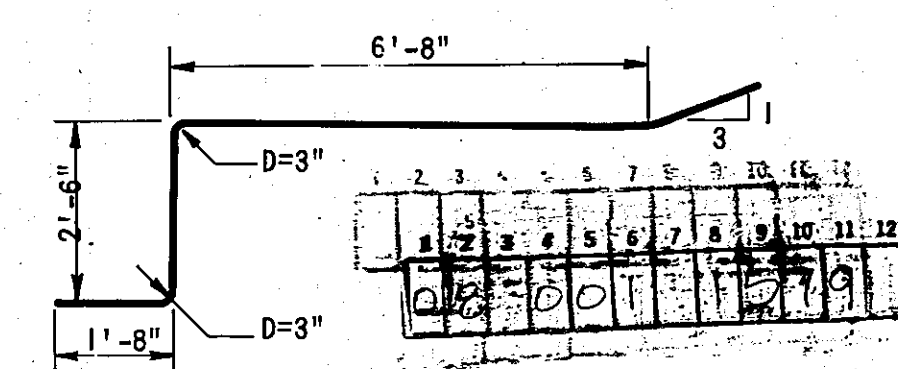
CHUTE BLOCK
(TOP VIEW)



D-1 BAR
Length=7'-6 1/2"



D-3 BAR
Length=14'-9 1/2"



D-3 BAR
Length=12'-4"

DATE 6/27/79 AS BUILT

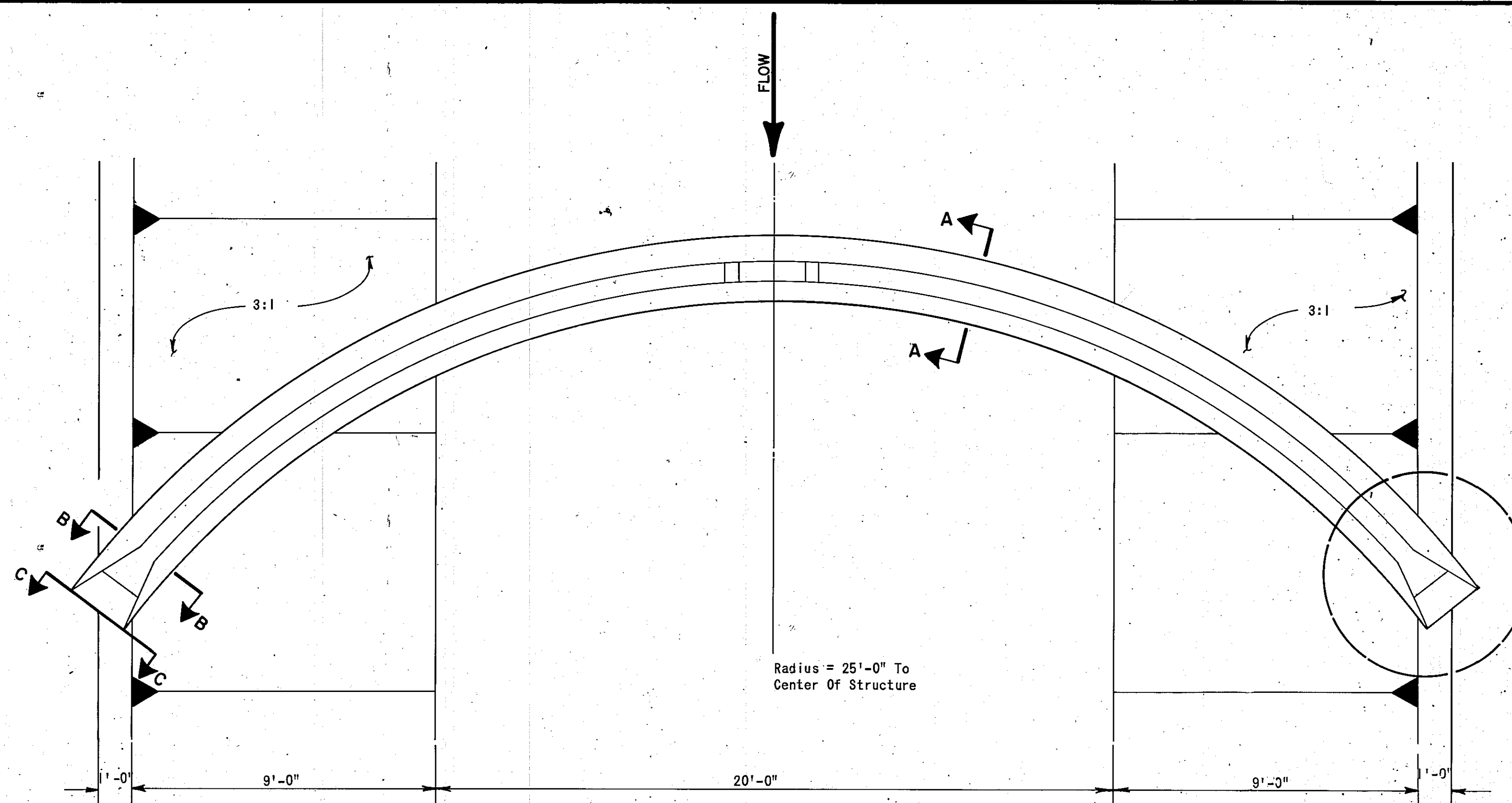
STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

EMERGENCY SPILLWAY
ENERGY DISSIPATOR

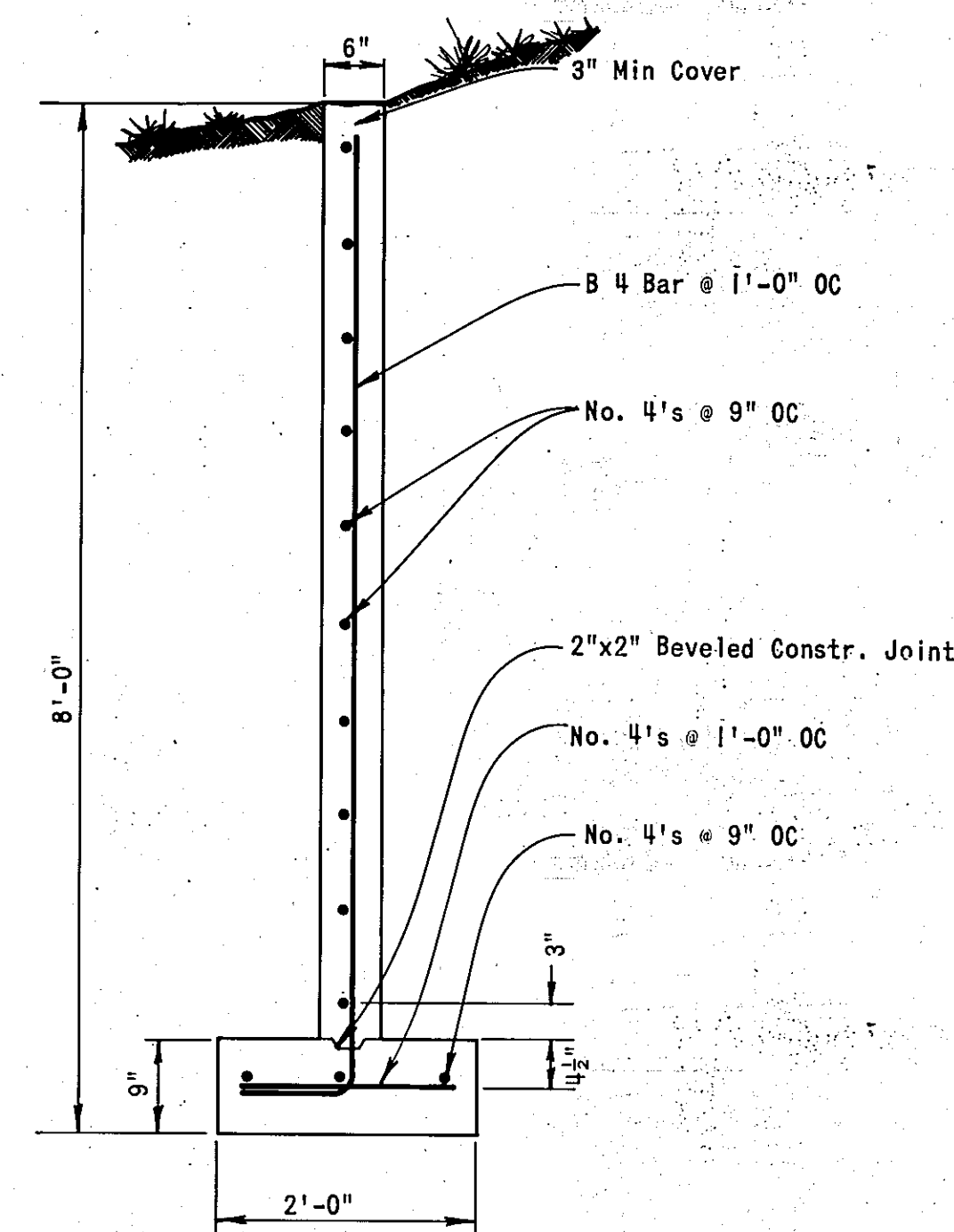
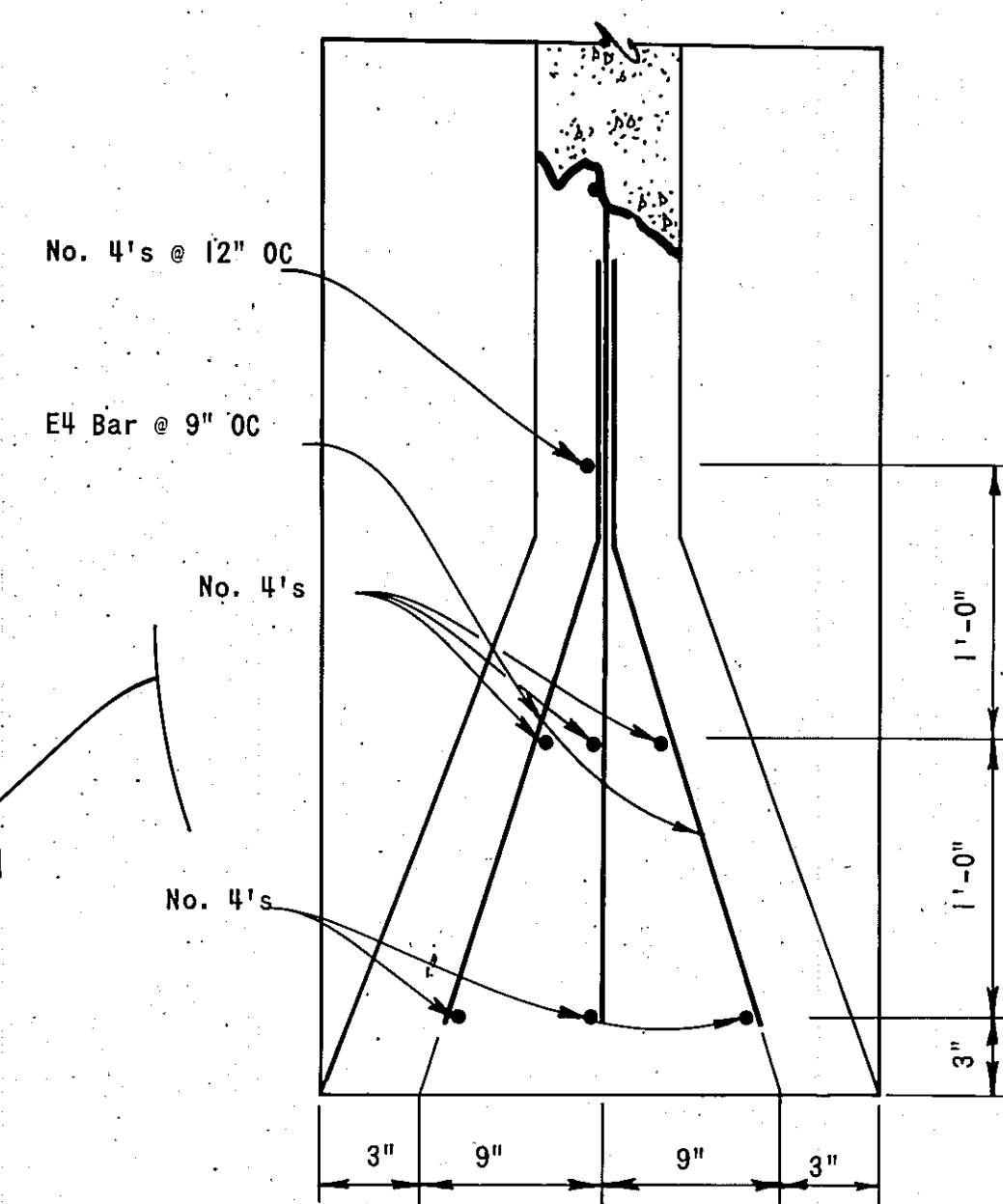
ALBUQUERQUE, NEW MEXICO

Job No. 73-198E
Drawn By SVS
Checked By DLW, CME
Scale: NO SCALE

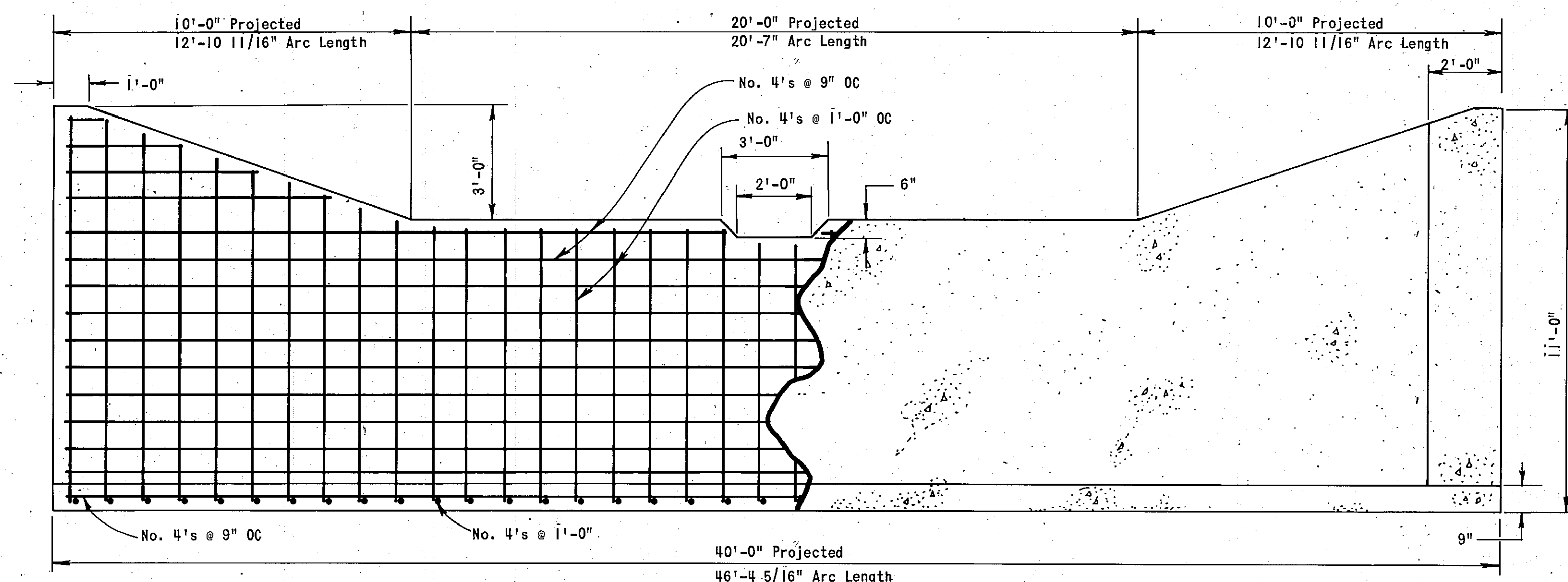




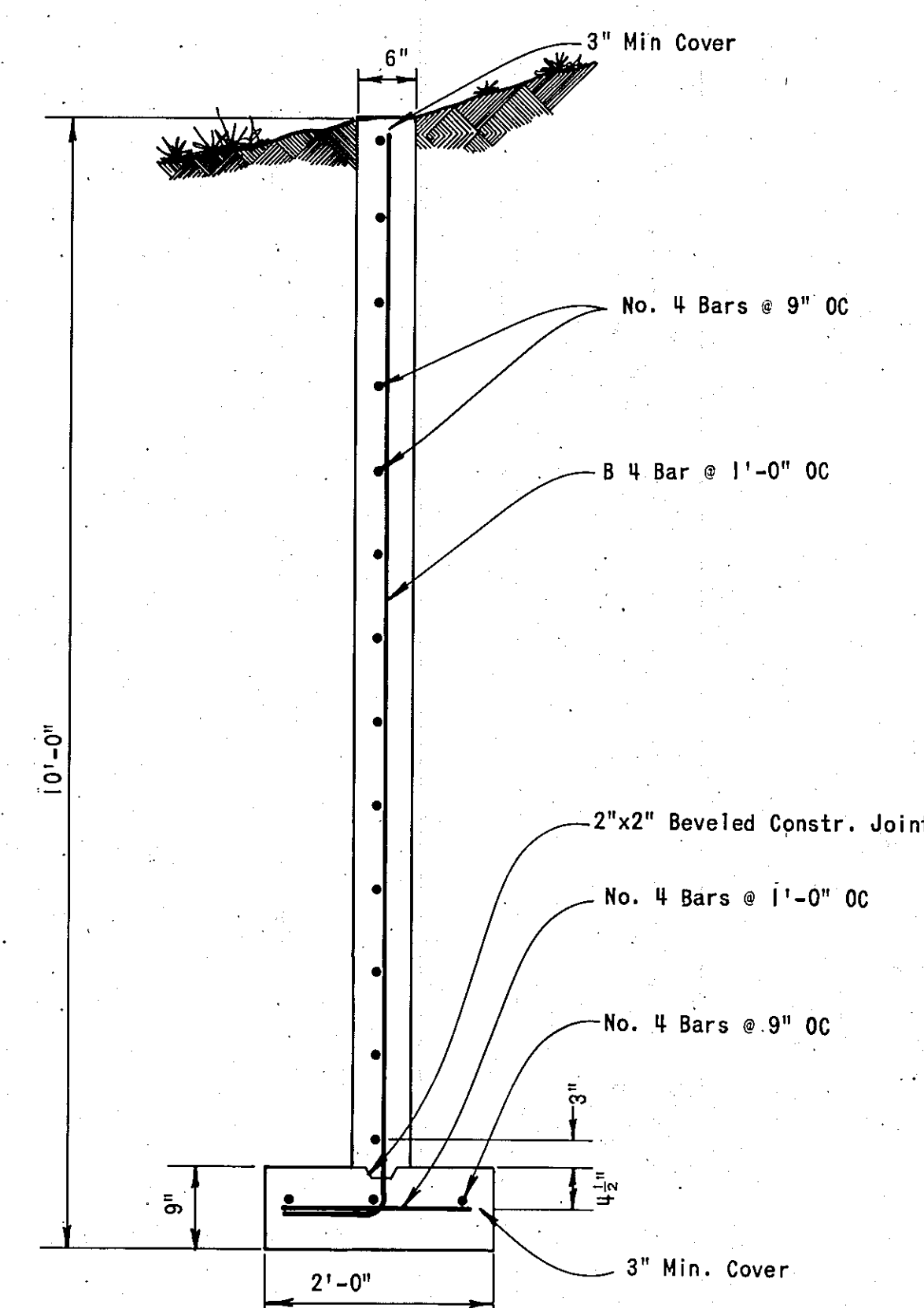
PLAN VIEW
NO SCALE



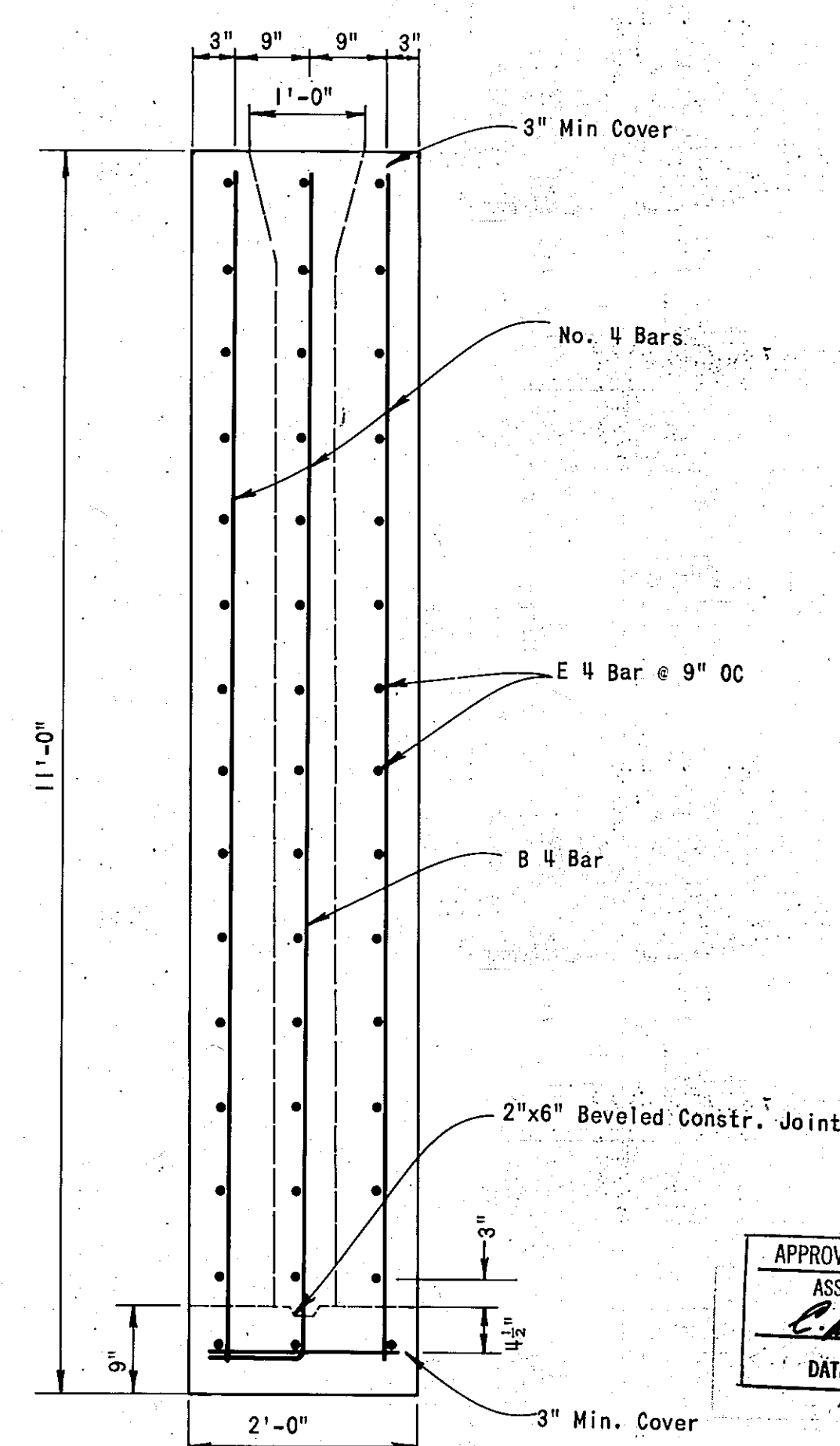
SECTION A-A
NO SCALE



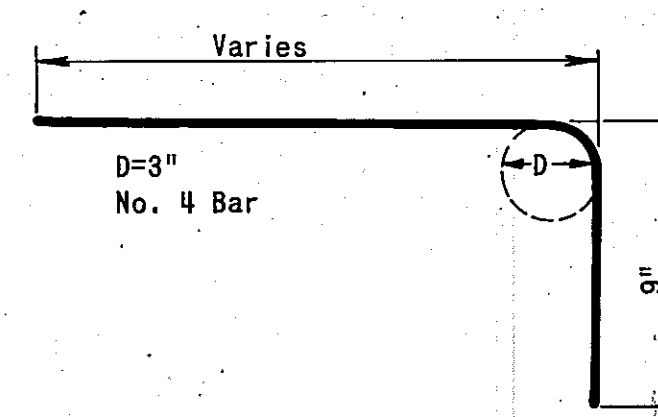
ELEVATION
NO SCALE



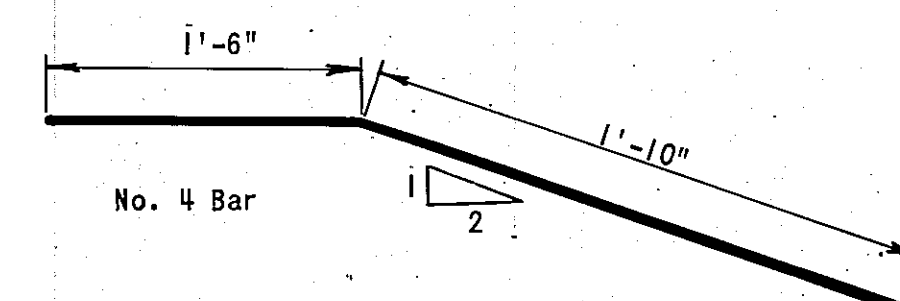
SECTION B-B
NO SCALE



SECTION C-C
NO SCALE



B-4 BAR



E-4 BAR

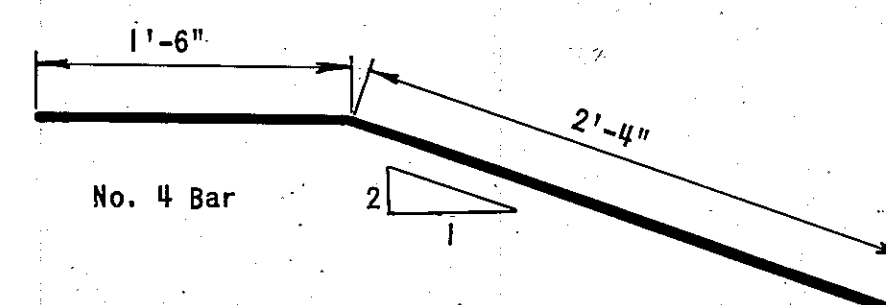
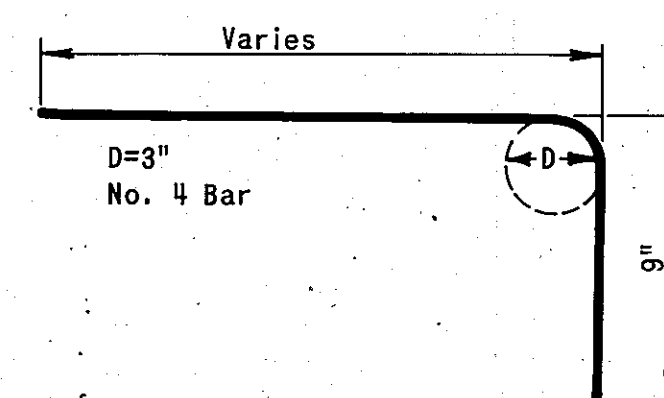
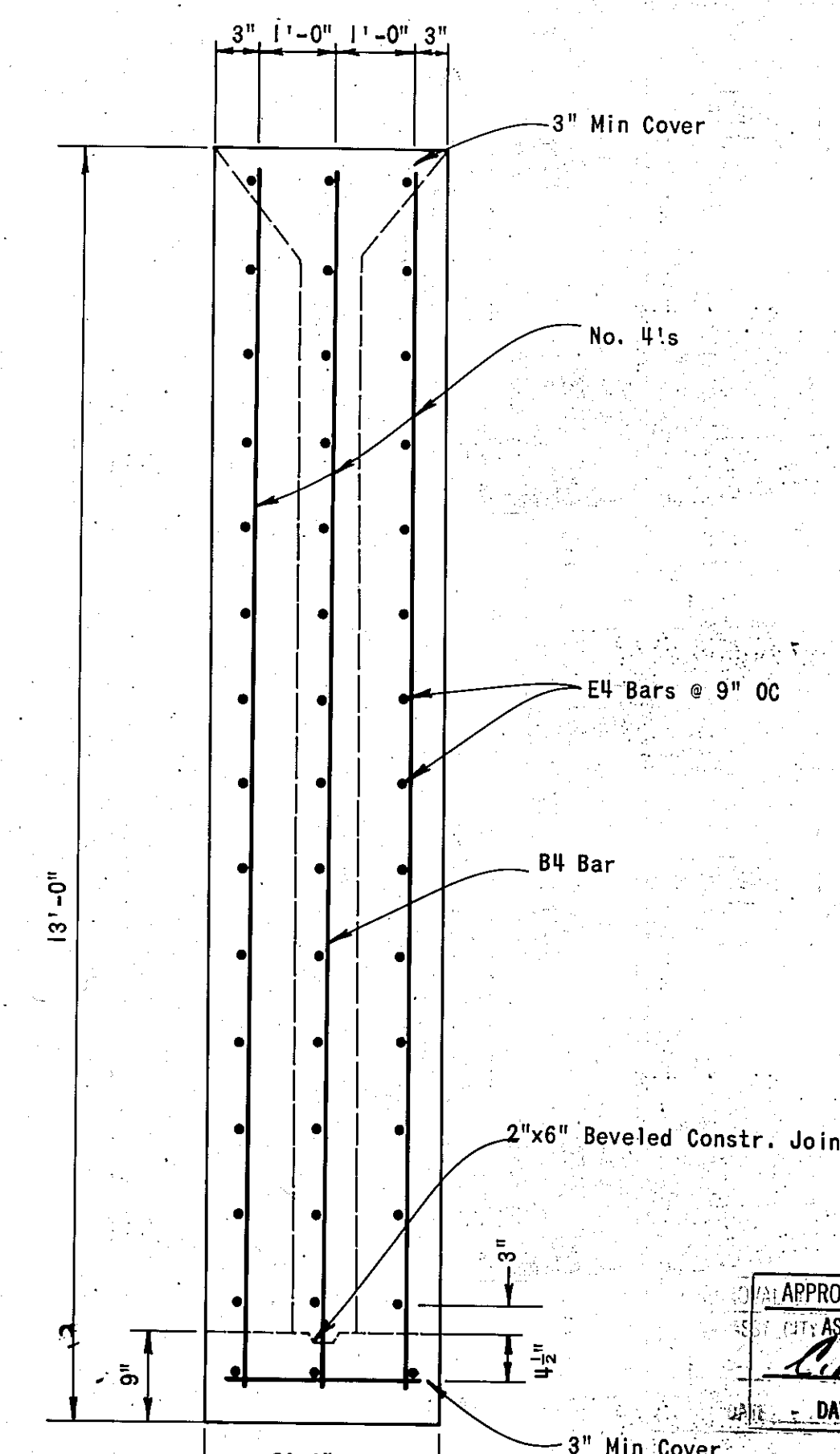
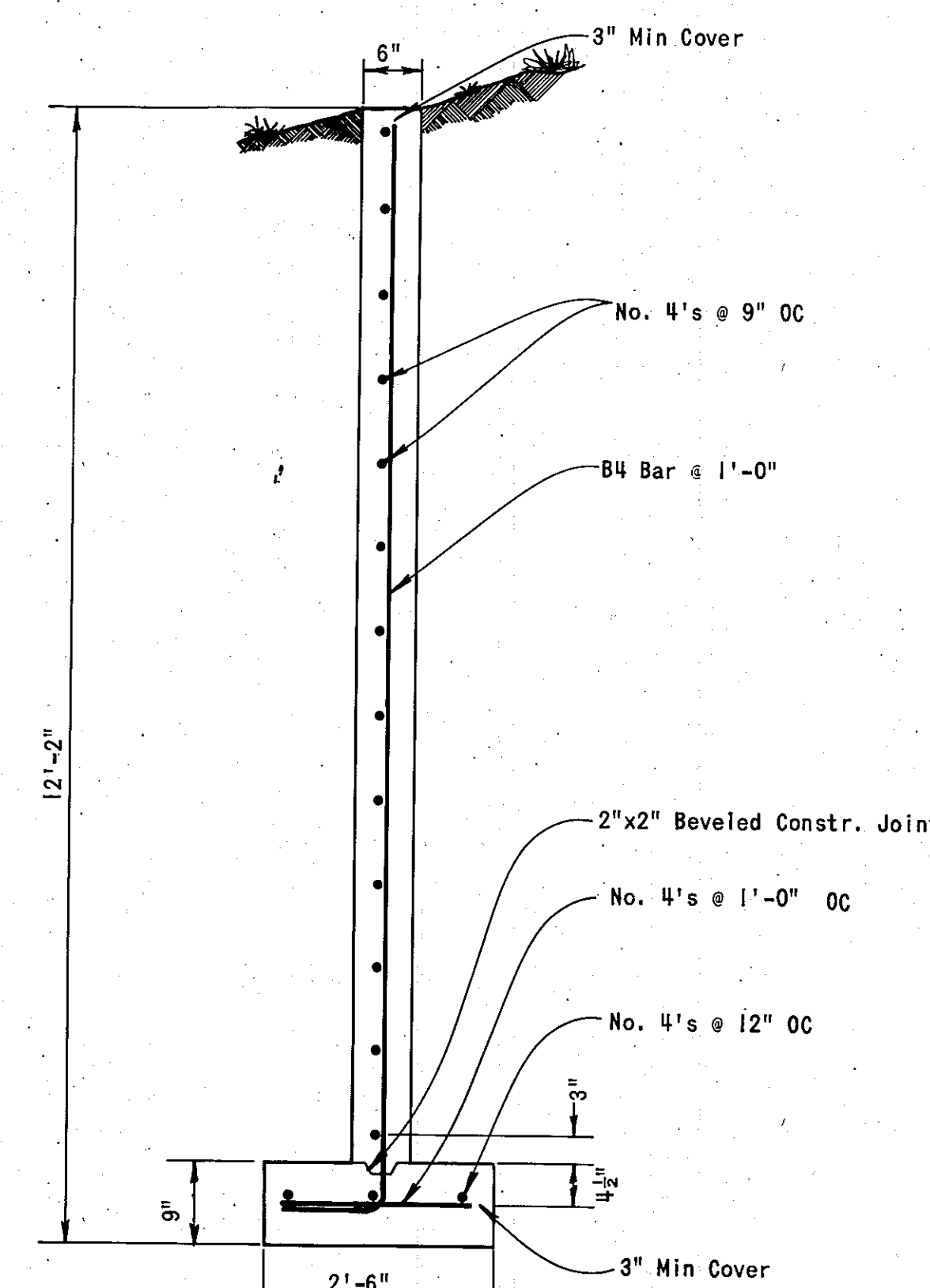
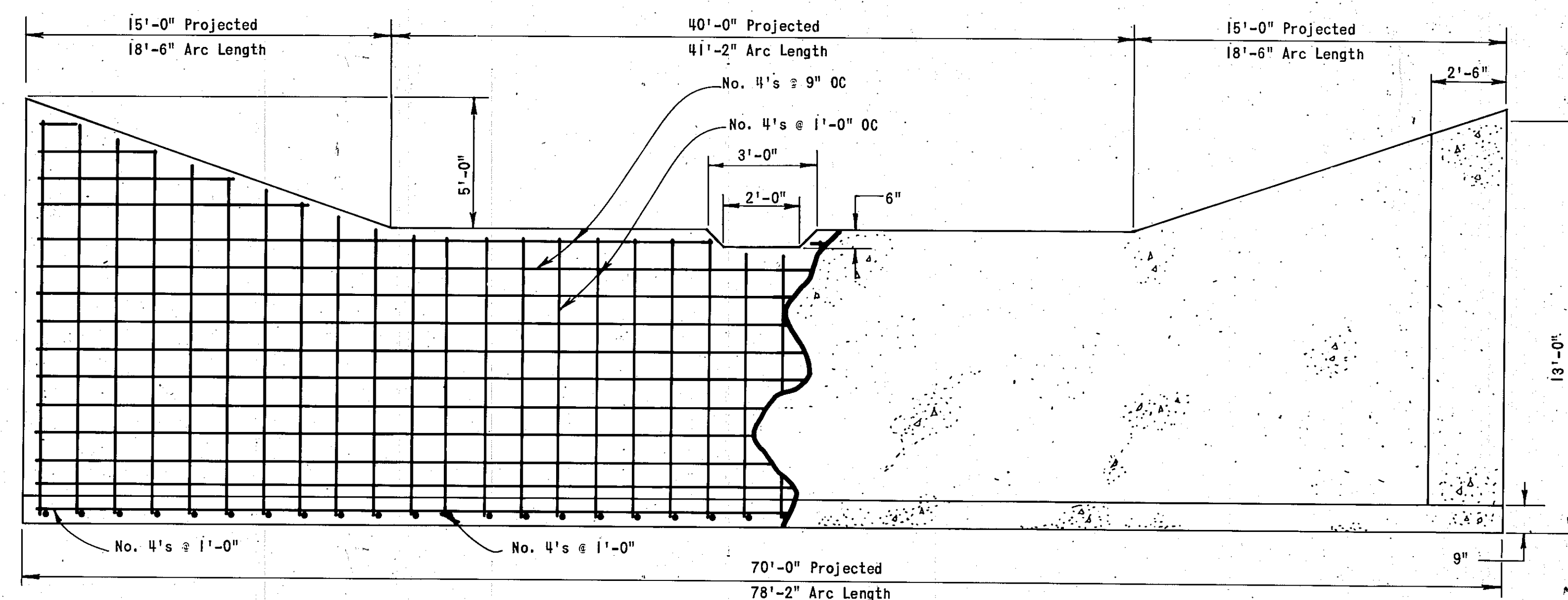
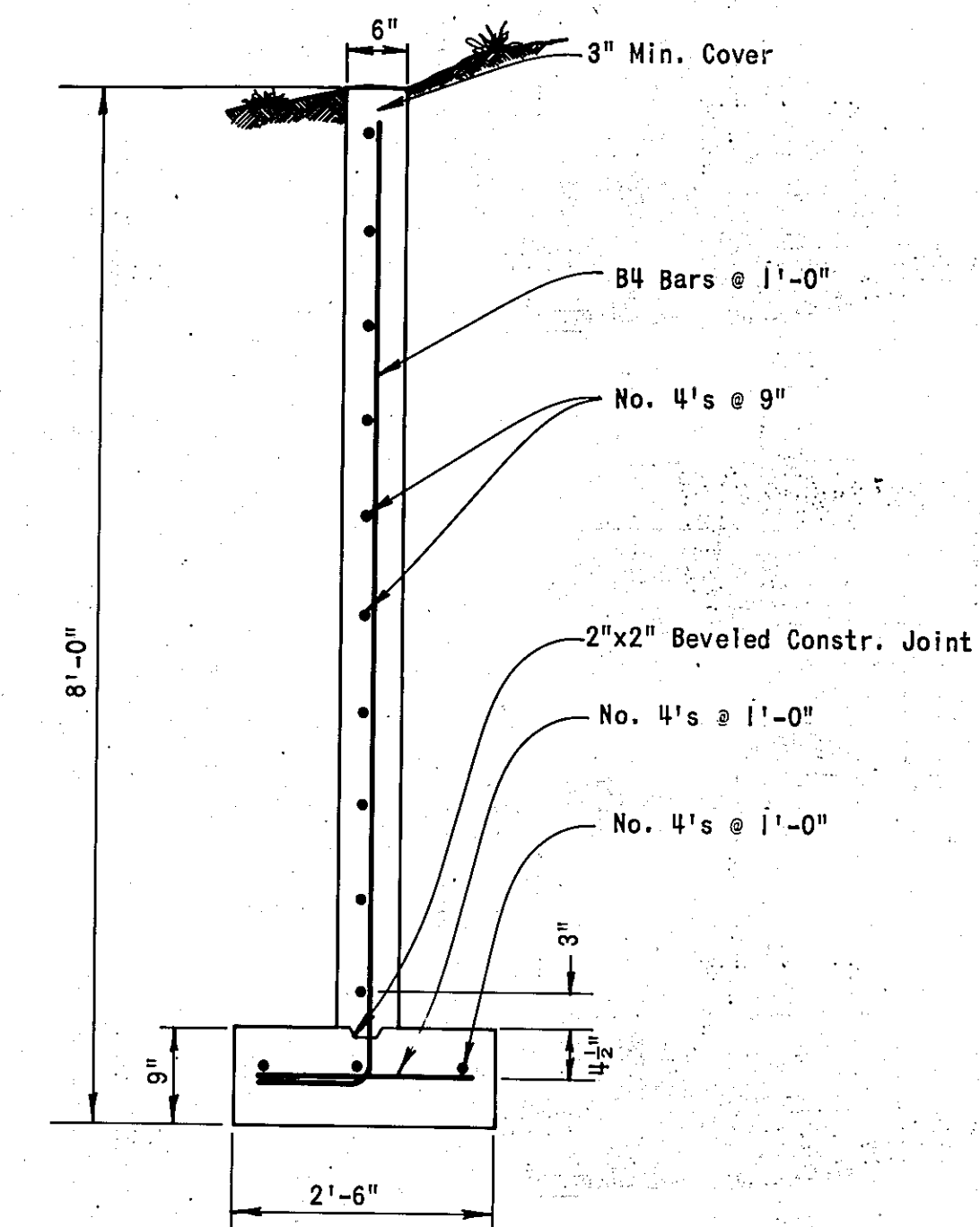
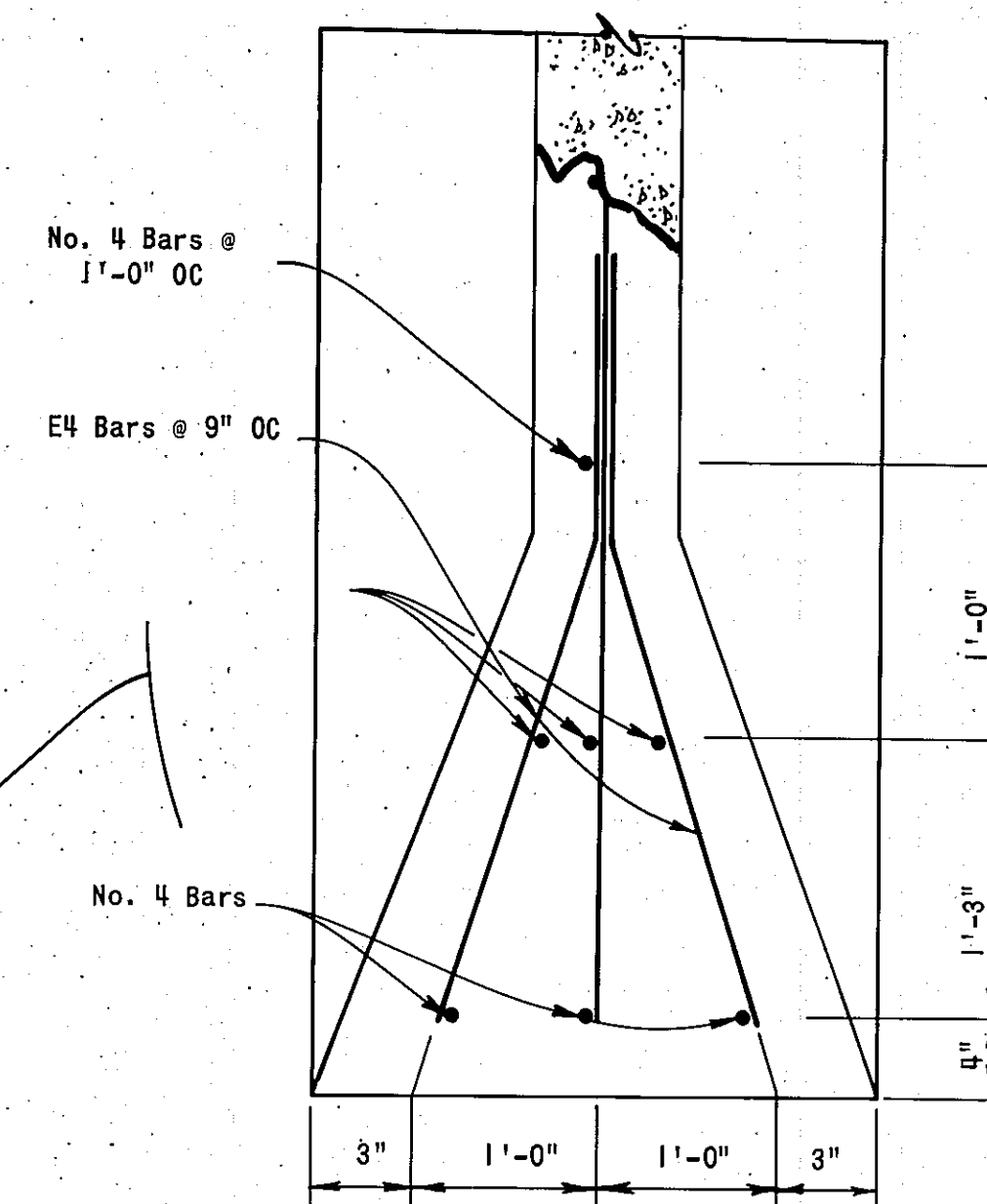
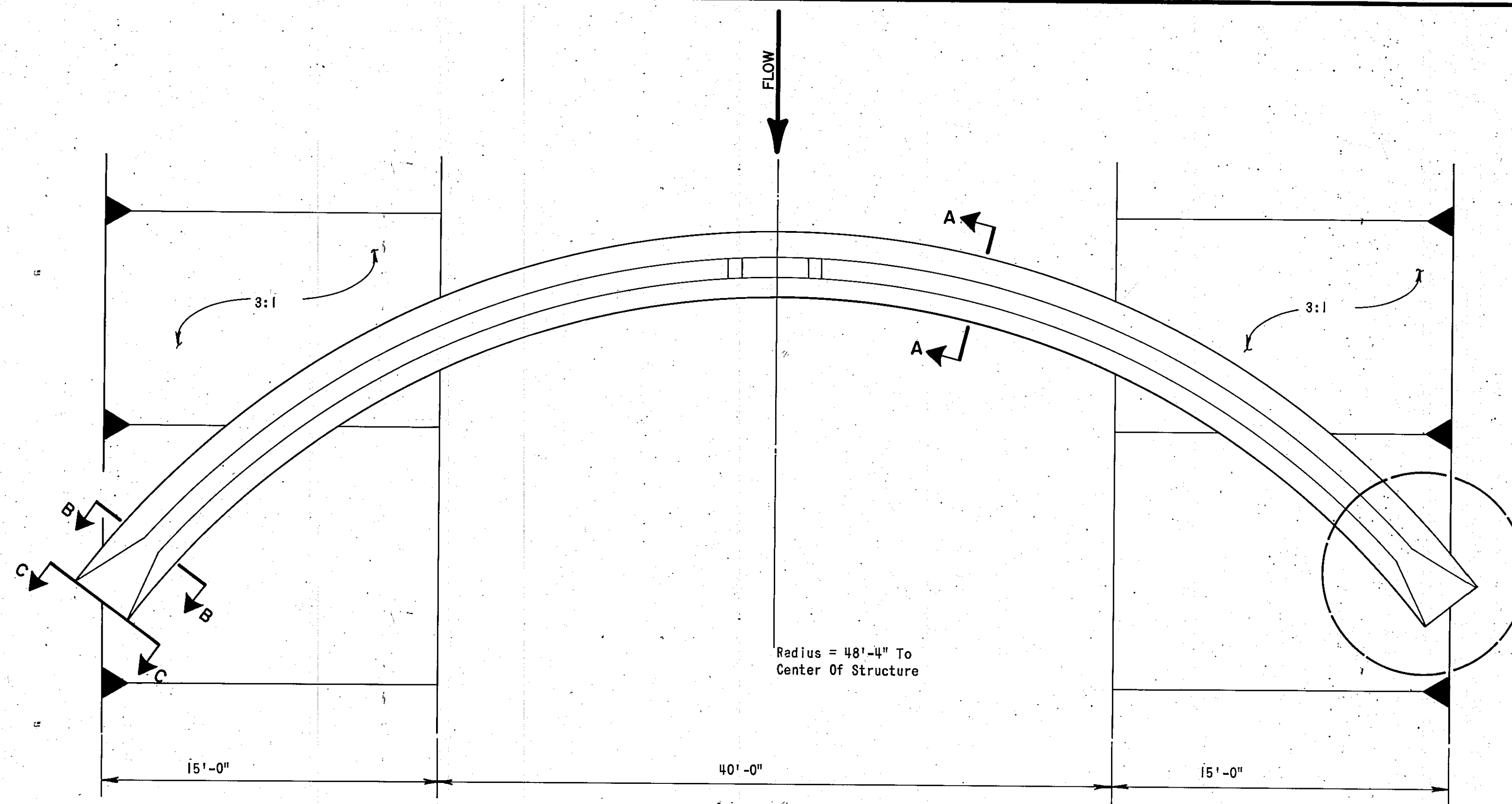
- NOTES:
1. ALL CONCRETE SHALL BE 3500 PSI 28 DAY CONCRETE.
 2. ALL STEEL SHALL BE GRADE 60 DEFORMED BARS.
 3. STRUCTURE IS TO BE BACKFILLED BOTH UP, AND DOWNSTREAM.
 4. BACKFILL SHALL BE COMPACTED TO A RELATIVE DENSITY NOT LESS THAN 90 % AS DETERMINED BY ASTM D 1557, METHOD A.

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
[Signature]
DATE 12/2/78

Date 6/27/79 AS BUILT

1 2 3 4 5 6 7 8 9 10 11 12
[Stamp]

STORM DRAINAGE FACILITIES TRAMWAY EAST EMBUDO DAM	
Project No.	DOWNSTREAM DROP STRUCTURE
Seal	ALBUQUERQUE, NEW MEXICO
Job No. 73-198E	Sheet 16 of 19
Drawn By: JDC	Date: FEB. 1978
Checked By: DLW, CME	Scale: NO SCALE



- NOTES:
1. ALL CONCRETE SHALL BE 3500 PSI 28 DAY CONCRETE.
 2. ALL STEEL SHALL BE GRADE 60 DEFORMED BARS.
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APPROVAL OF AS BUILT DRAWINGS
CITY ASST. CITY ENGINEER-FIELD
DATE 12/12/79

Date 6/27/79 AS BUILT

STORM DRAINAGE FACILITIES
TRAMWAY EAST
EMBUDO DAM

UPSTREAM DROP STRUCTURE

ALBUQUERQUE, NEW MEXICO

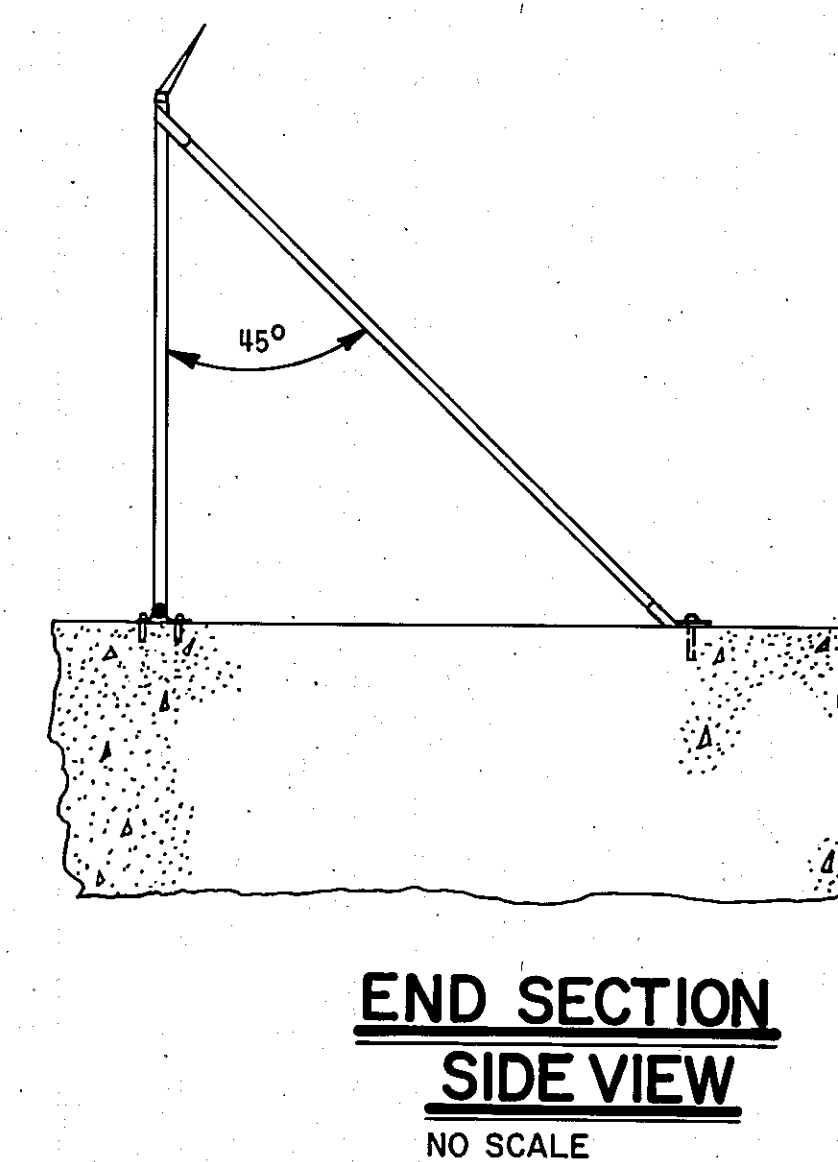
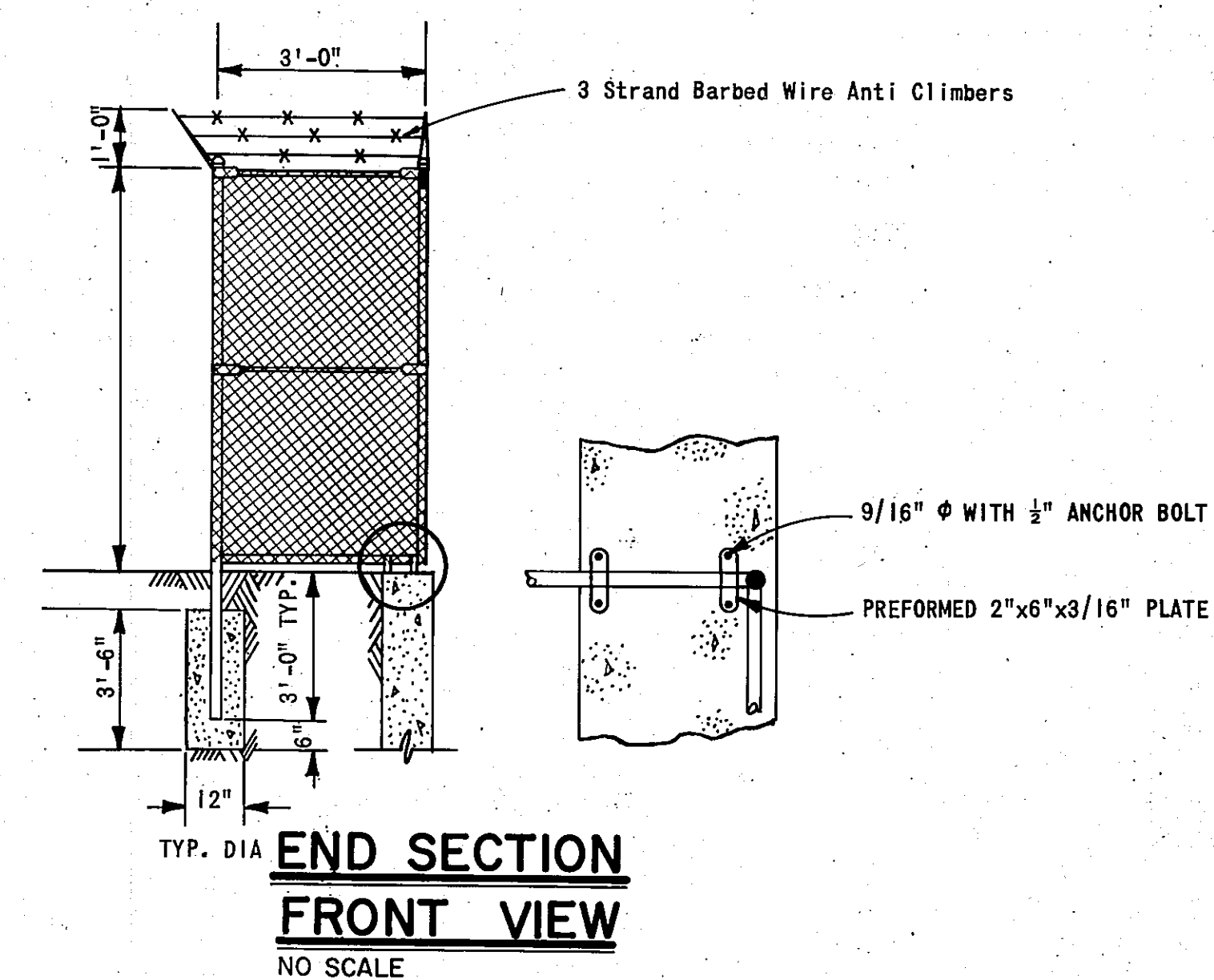
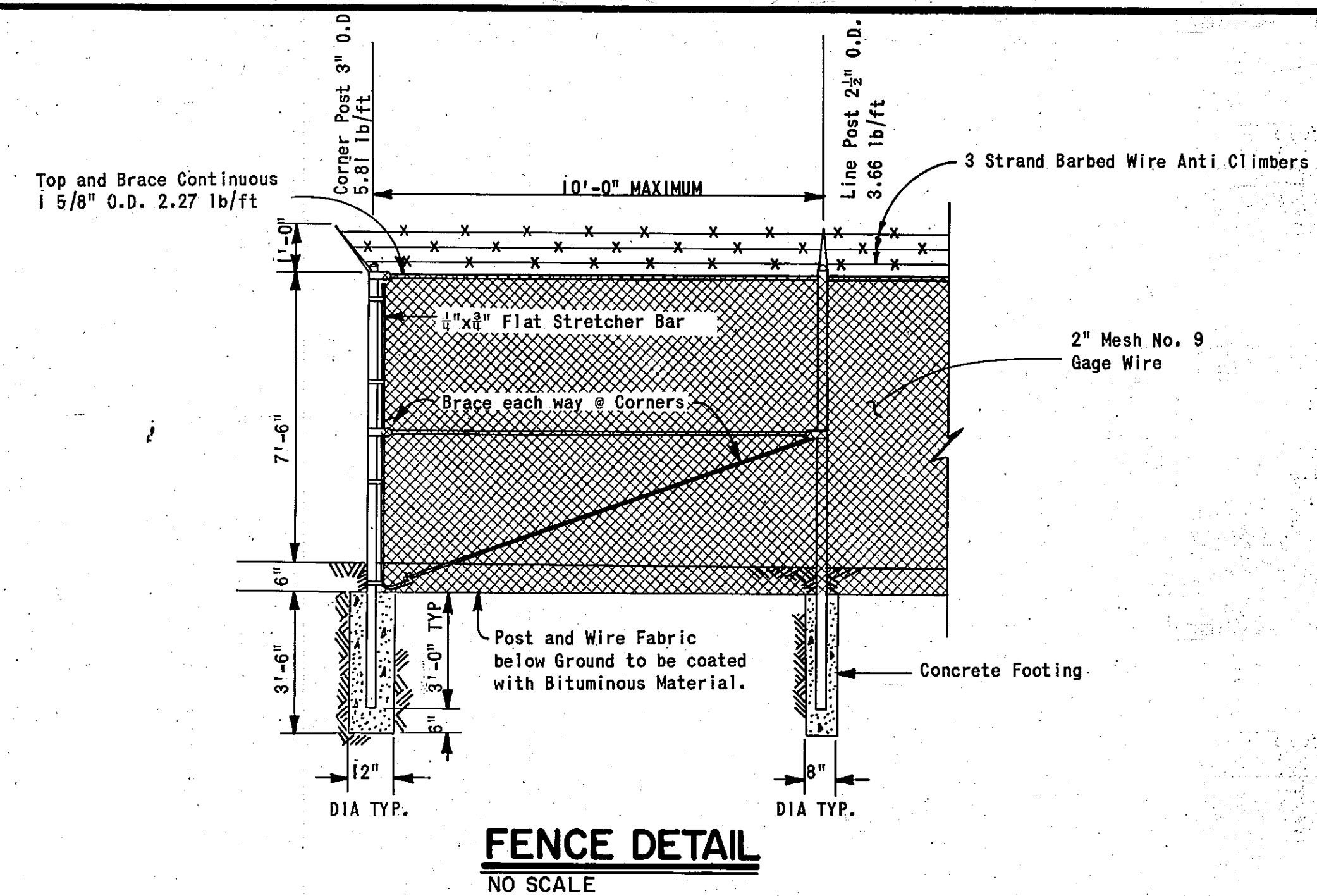
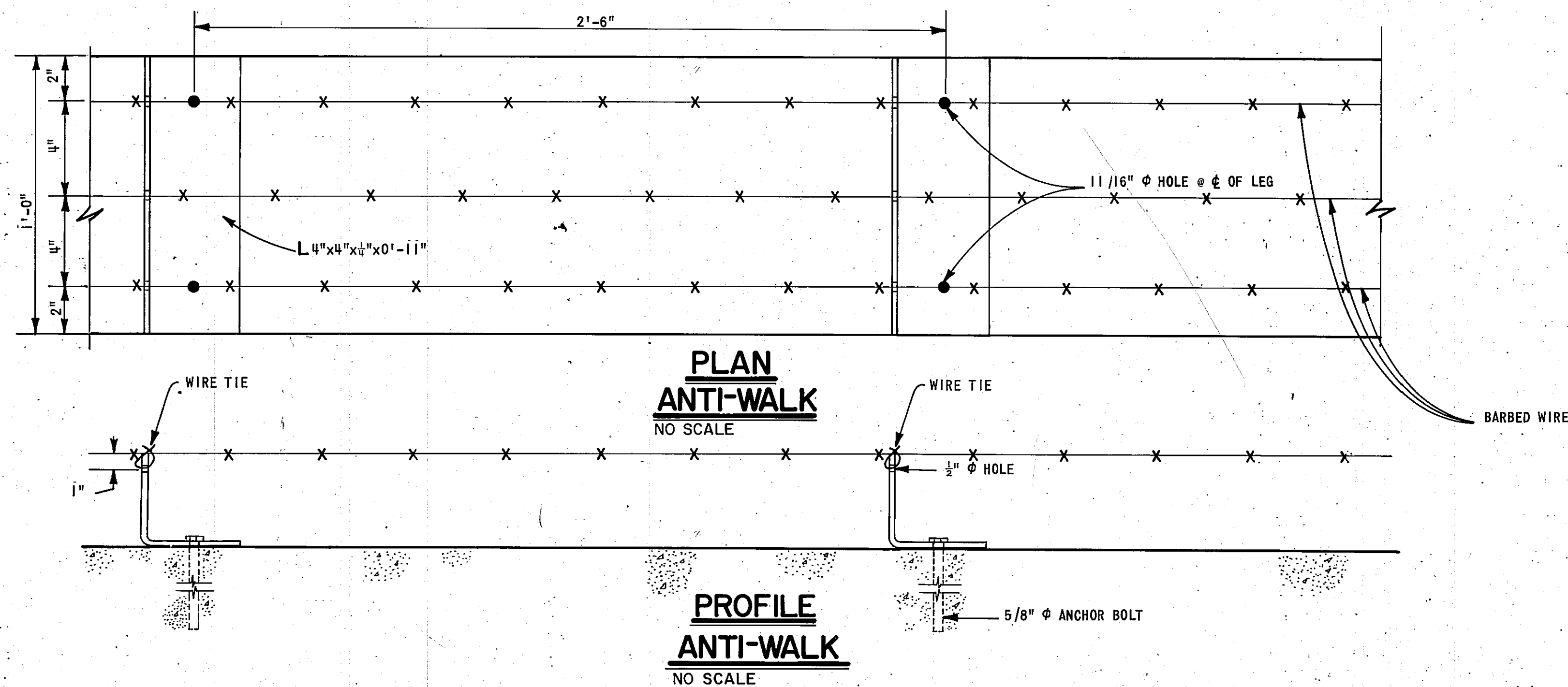
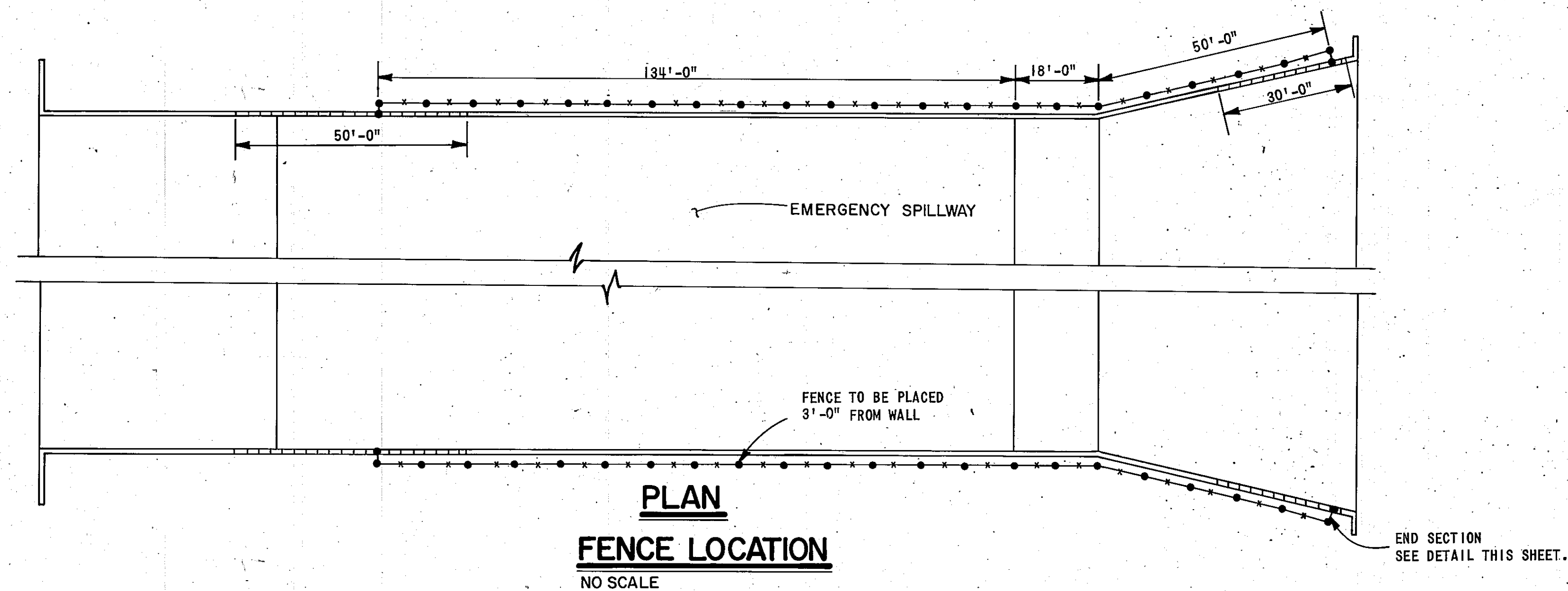
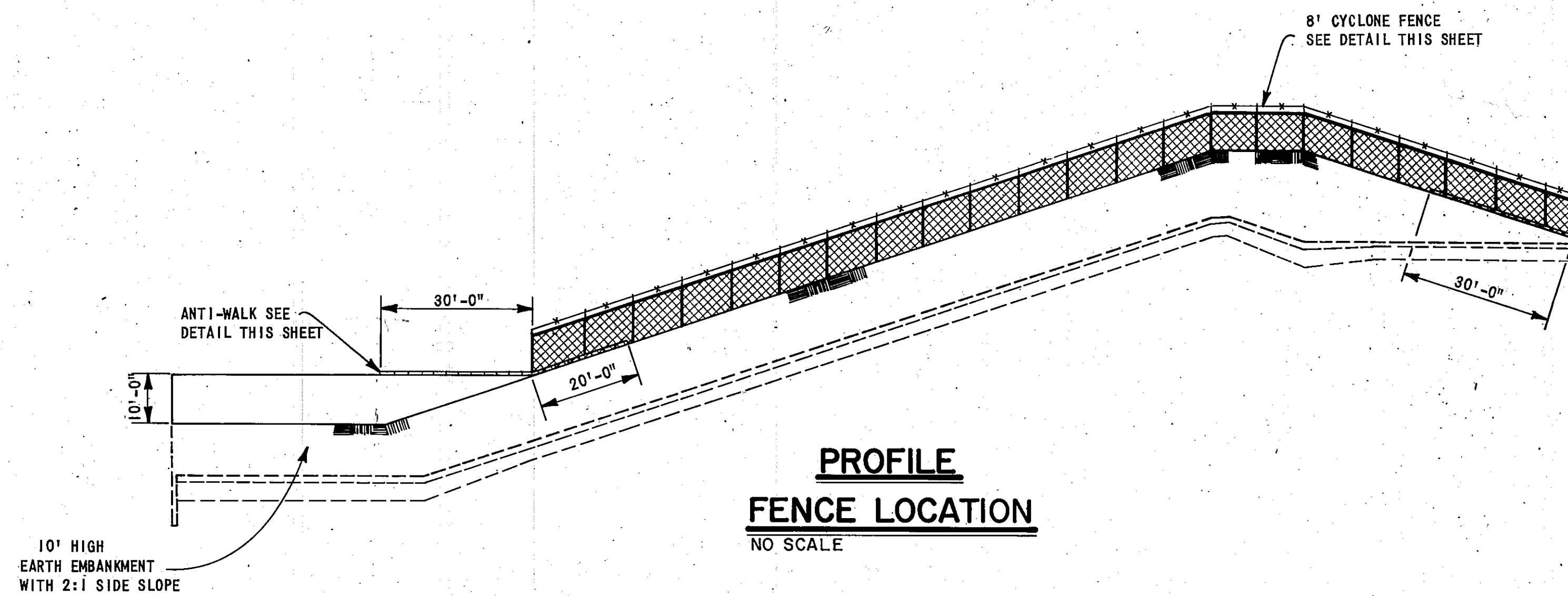
Job No. 73-198E

Sheet 17 of 19

Drawn By JDC Date FEB. 1978

Checked By DLW, CME Scale NO SCALE



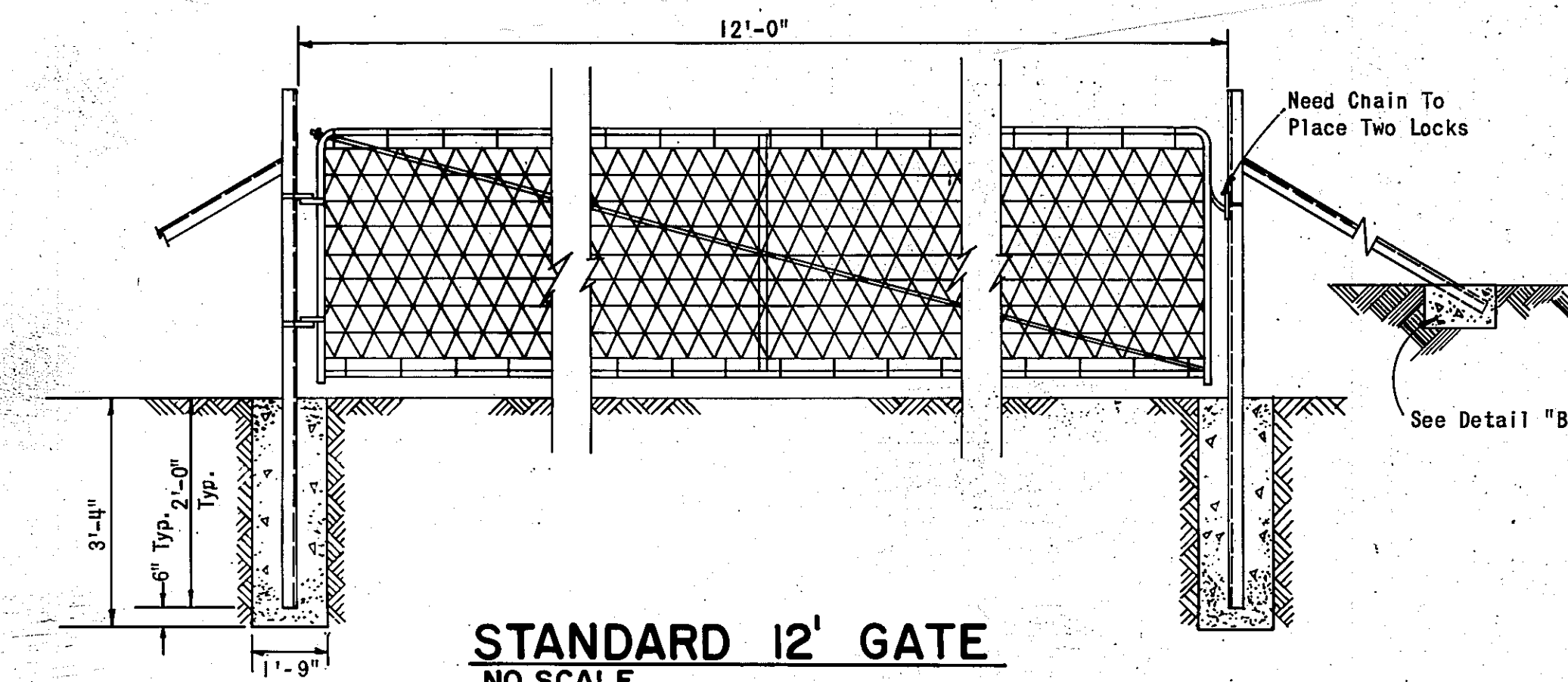
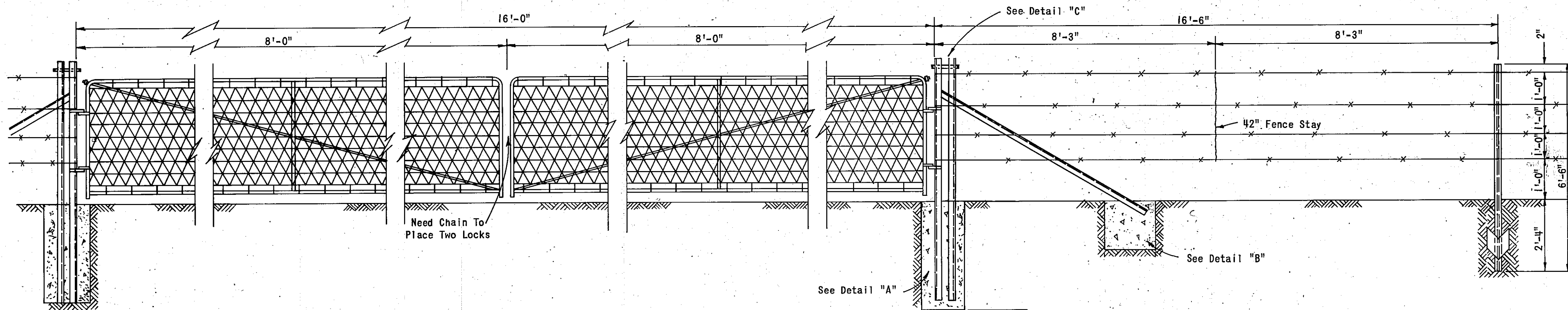


APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER-FIELD
C. P. [Signature]
DATE 12/7/79

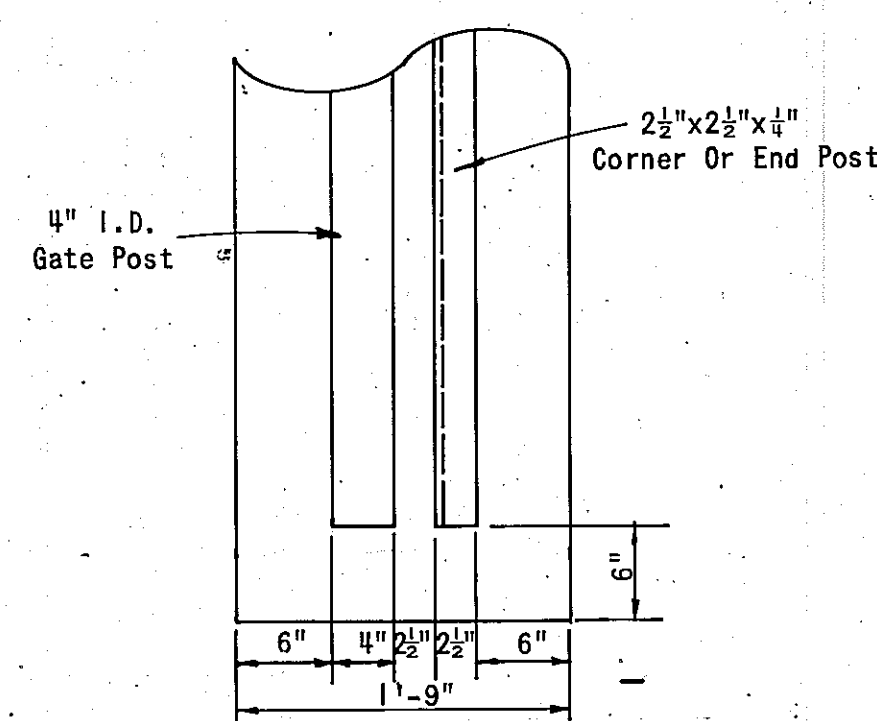
Date 6/27/79 AS-BUILT

Date	Revision	STORM DRAINAGE FACILITIES			
		TRAMWAY EAST			
		EMBUDO DAM			
By	Seal	Project No.	FENCE LOCATION AND DETAIL		
		ALBUQUERQUE, NEW MEXICO			
			Job No.	Sheet	Of
		73-198E	18	19	
		Drawn By: DHJ	Date: FEB. 1978		
		Checked By: DLW, CME	Scale: NO SCALE		

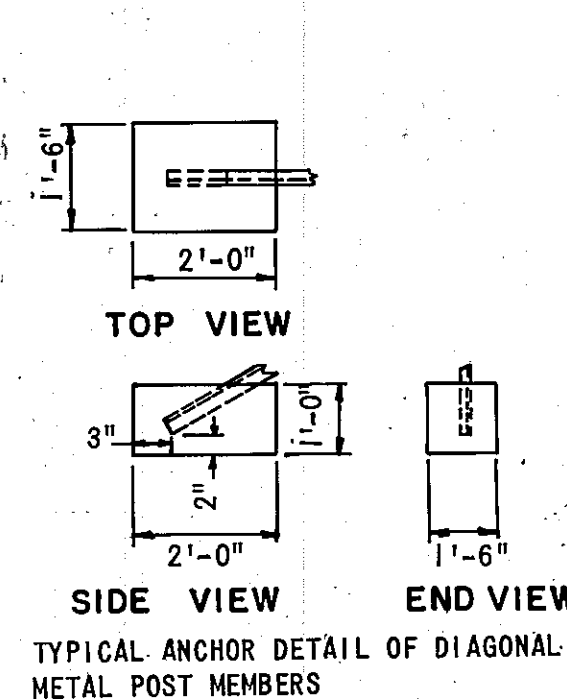




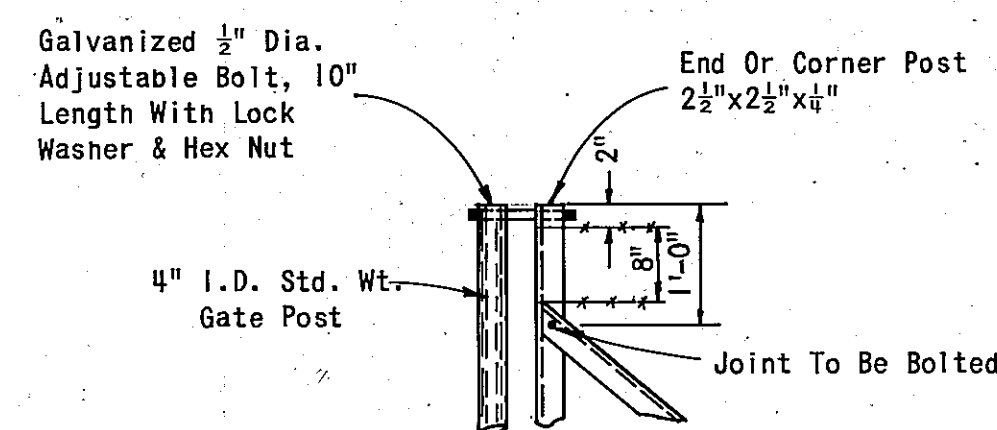
STANDARD 12' GATE
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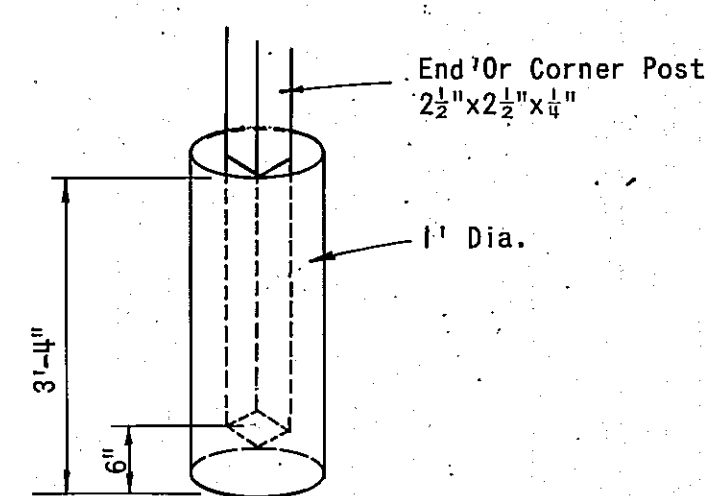
DETAIL A
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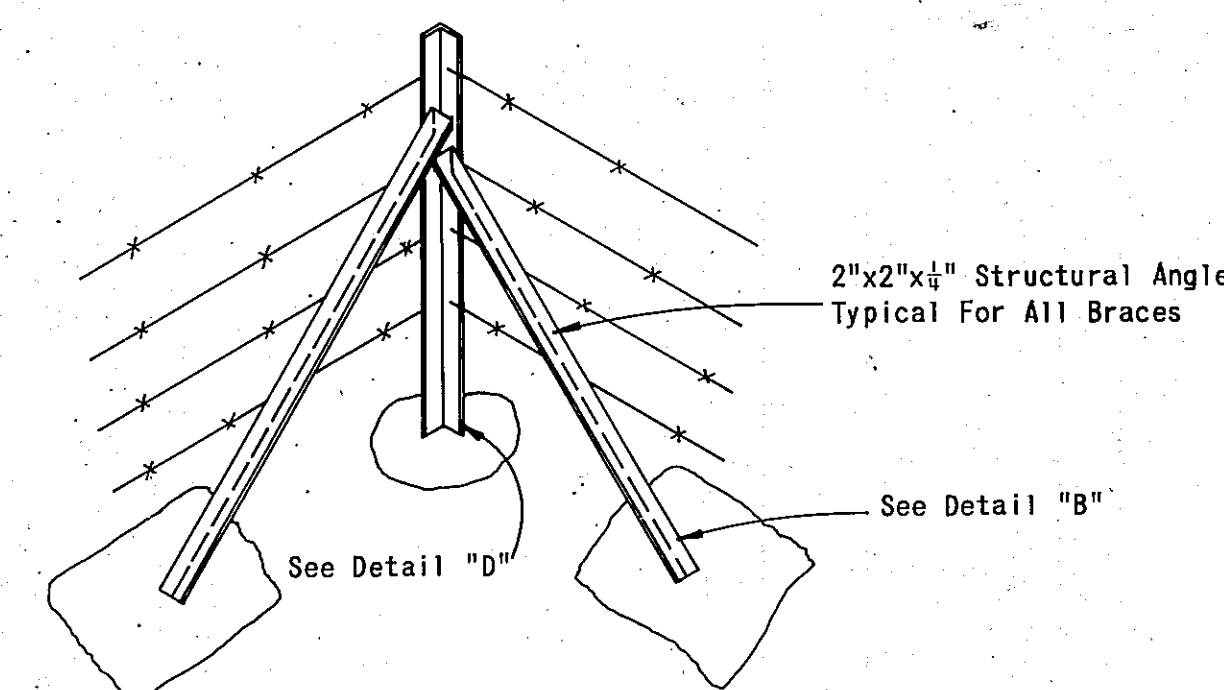
DETAIL B
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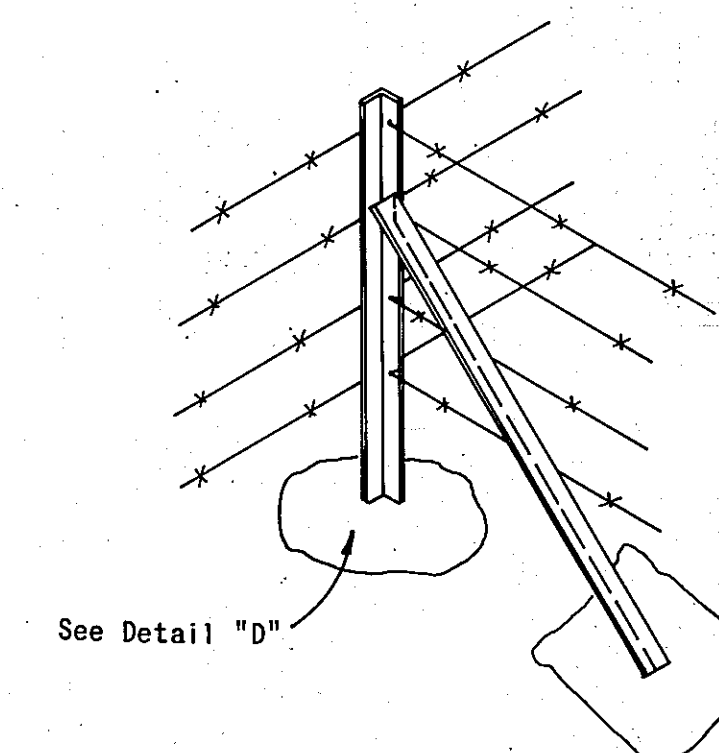
DETAIL C
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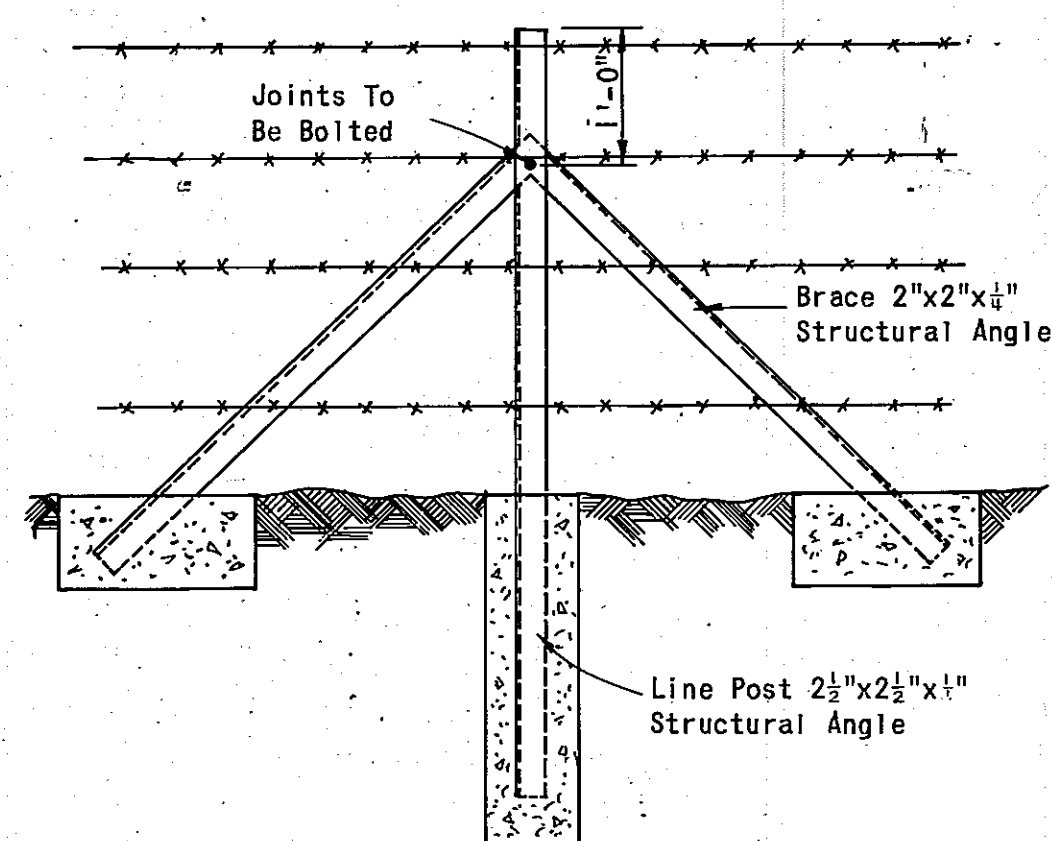
DETAIL D
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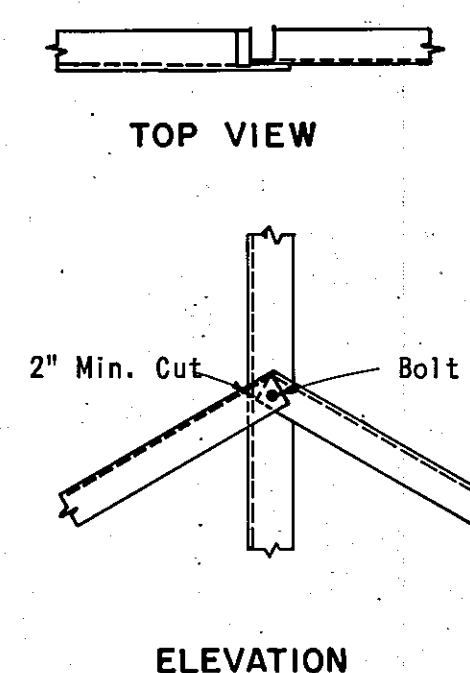
TYPICAL CORNER POST
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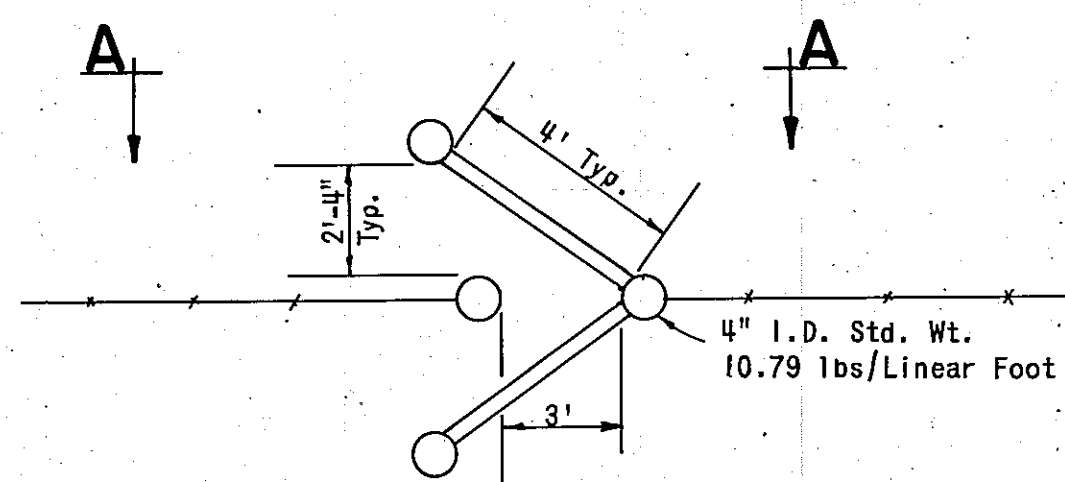
TYPICAL FENCE INTERSECTION
NO SCALE



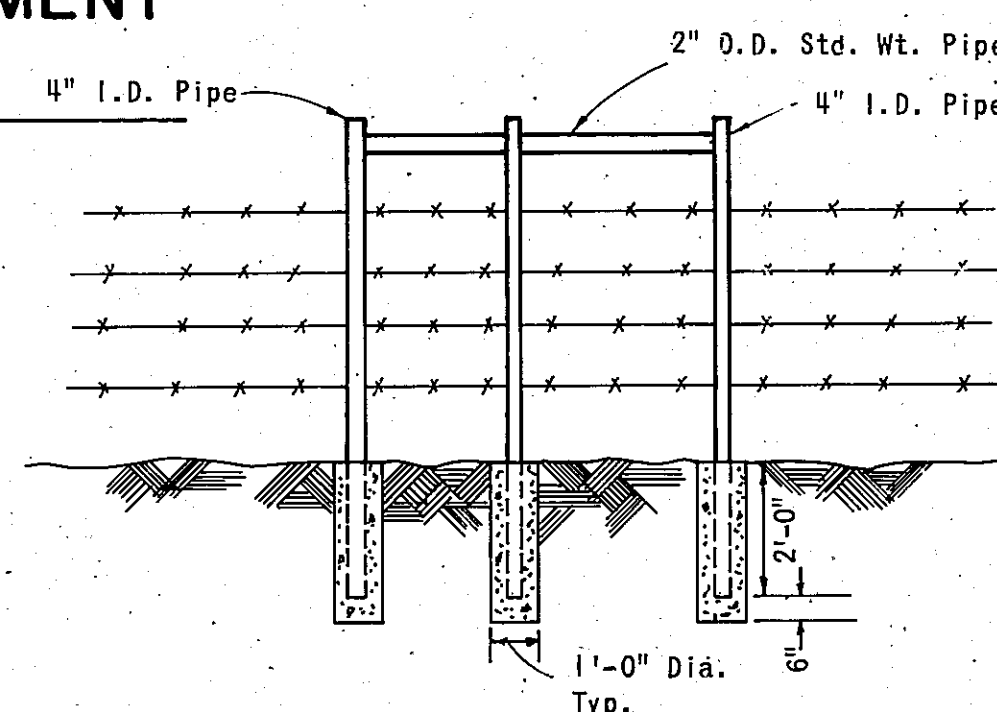
TYPICAL LINE BRACE INSTALLATION
NO SCALE



BRACE ATTACHMENT DETAIL
NO SCALE



WALK THRU GATE
NO SCALE



SECTION A-A
NO SCALE

NOTE:
The Fence Will Be Built In Accordance With
New Mexico Standard Specifications For Public
Works Construction 1975 Edition Unless Otherwise
Noted.

APPROVAL OF AS BUILT DRAWINGS
ASST. CIV. ENGINEER-FIELD
[Signature]
DATE 6/27/77

6/27/77 AS BUILT

Date Revision		STORM DRAINAGE FACILITIES TRAMWAY EAST EMBUDO DAM	
Project No.	Sheet	FENCE & GATE DETAILS	
Seal	6411	ALBUQUERQUE, NEW MEXICO	
Job No. 73-198EAS	19	MAR. 1979	
Drawn By: DL	Checked By: JH	NO SCALE	

1 2 3 4 5 6 7 8 9 10 11 12
08 001 1979