

LEGEND

Blue = DWR Cross Drainage Structure MP344.8
(impacted by detention basin in Planning Area 1)

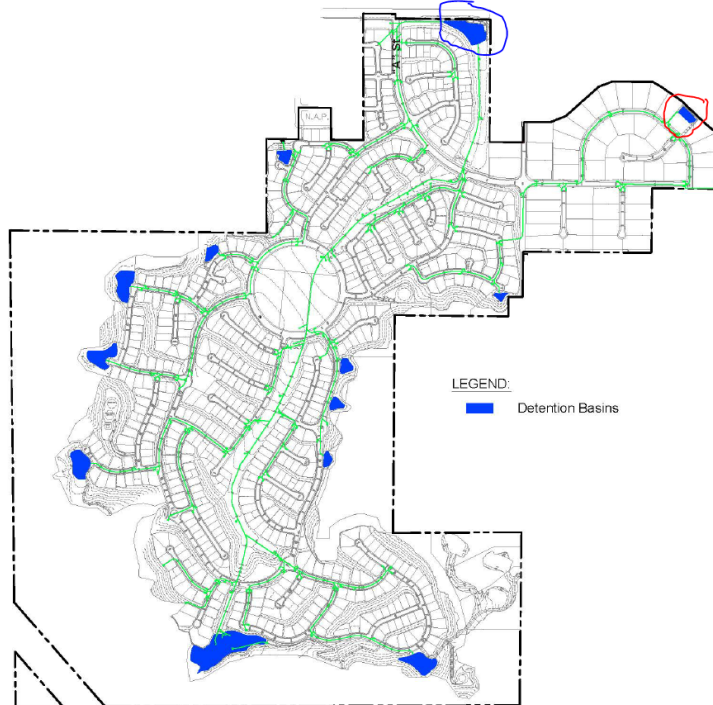
Red = DWR Cross Drainage Structure MP345.5
(impacted by detention basin in Planning Area 2)

SWP CROSS DRAINAGE EAST BRANCH Mile Post 303.9 to Mile Post 403.4 HYDROLOGIC & HYDRAULIC DATA TABLE B-5

Mile- Post mile	Station feet	Type of Structure	No.Of Bays or Pipes	Size w x h or Dia feet	Runoff Area sq. miles	Struct. Cap. cfs	RETURN PERIOD 100 YEAR			RETURN PERIOD 500 YEAR			C1,C2..
							Peak Inflow cfs	Routed Outflow cfs	Routed W. S. Elv. feet	Peak Inflow cfs	Routed Outflow cfs	Routed W. S. Elv. feet	
342.9	45+11.42	BC	3	2-9x9 10.5 x 9	8.25	5985	4350	4350	2936.0	5800	5800	2945.0	
343.6	88+87.24	BC	2	7 x 9	3.34	2300	1700	1700	2940.3	2290	2290	2945.9	
343.74	CHECK #52												
[68-46]	LEONA SIPHON TO PEARBLOSSOM PUMPING PLANT												
344.4	131+00	BC	1	6 x 6	0.57	1015	475	475		600	600		
344.8	151+40	BC	3	2-6x6 7.5 x 6	2.48	3140	1165	1165	2937.5	1580	1580	2939.3	
345.5	190+50	BC	1	6 x 6	0.50	910	340	340		450	450		
346.0	218+85	BC	3	4 x 4	0.80	1200	550	550		725	725		
346.3	235+00	O	2	5 x 6	0.24	840	260	260		240	340		
346.9	268+30	BC	1	4 x 4							200		
347.5	294+35	BC	2	6 x 6							750	2939.2	
348.0	321+90	BC	1	4 x 4							200		
348.17	CHECK #53												
348.9	368+55	PC	1								40		
349.2	389+10	PC	1								70		
349.7	412+65	BC	1	4 x 4							117		
350.2	436+00	BC	2	5 x 5							752		
350.25	CHECK #54												
350.7	467+00	O	1	10 x 10							800	2962.0	
351.1	486+00	BC	1	4 x 4							70		
351.4	502+00	BC	1	6 x 6							100		
351.7	516+20	BC	1	6 x 6							90		

Overflow from proposed detention basin in Planning Area 1 circled in blue will impact DWR MP344.8 Structure

Overflow from proposed detention basin in Planning Area 2 circled in red will impact DWR MP345.5 Structure

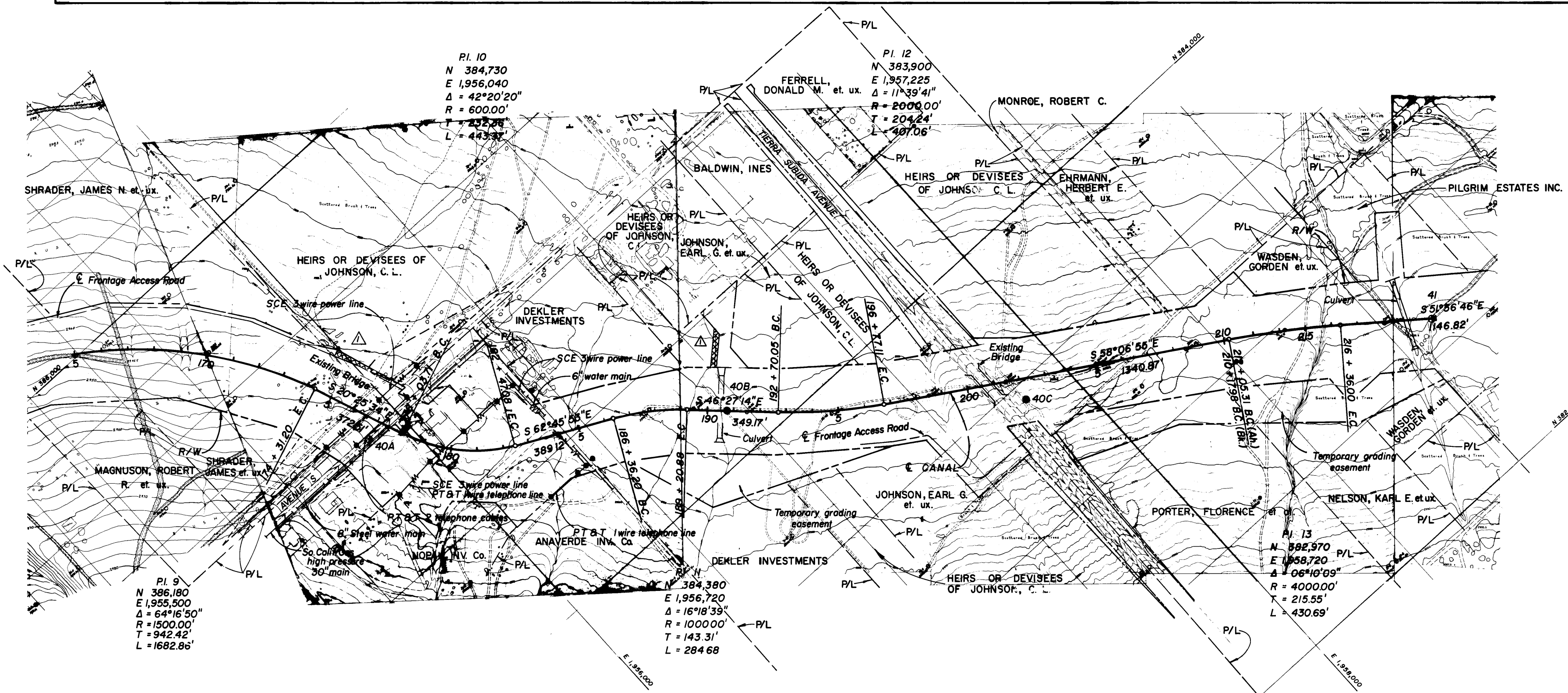
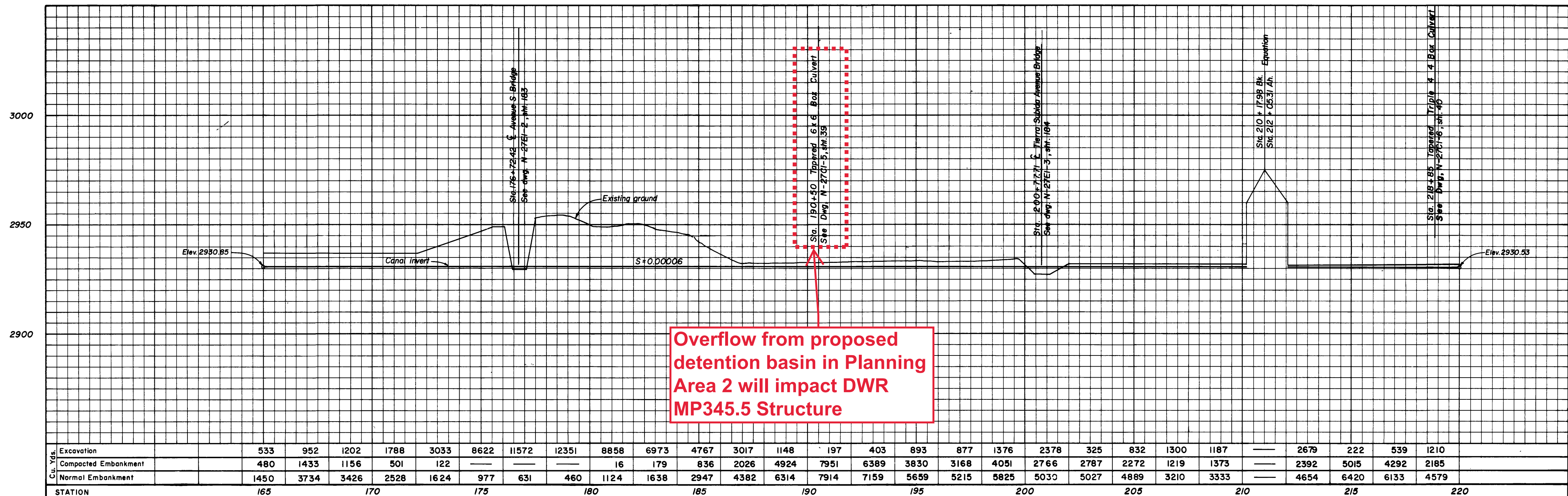


LEGEND:
■ Detention Basins

Note: Inflow, Outflow and Elevations may vary due to future urban development
4/20/95

TABLE B-5

Legend
BC=Box Culvert
PC=Pipe Culvert
DI=Drop Inlet
O = Overchute
C1, C2..=Structures Discharging Collectively



NOTES
1. For plan and profile notes, see dwg. N-27FI-1, sh. 13.

SAFETY — as Necessary as WATER

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF DESIGN AND CONSTRUCTION

STATE WATER FACILITIES
CALIFORNIA AQUEDUCT
MOJAVE DIVISION

CANAL - STA. 1 + 64.10 TO STA. 955 + 91.27
STA. "P" 0 + 00 TO STA. "P" 29 + 00

PLAN AND PROFILE
STA. 165 + 00 TO STA. 220 + 00

DESIGNED: R.M. Sasaki

DRAWN: R.M. Sasaki

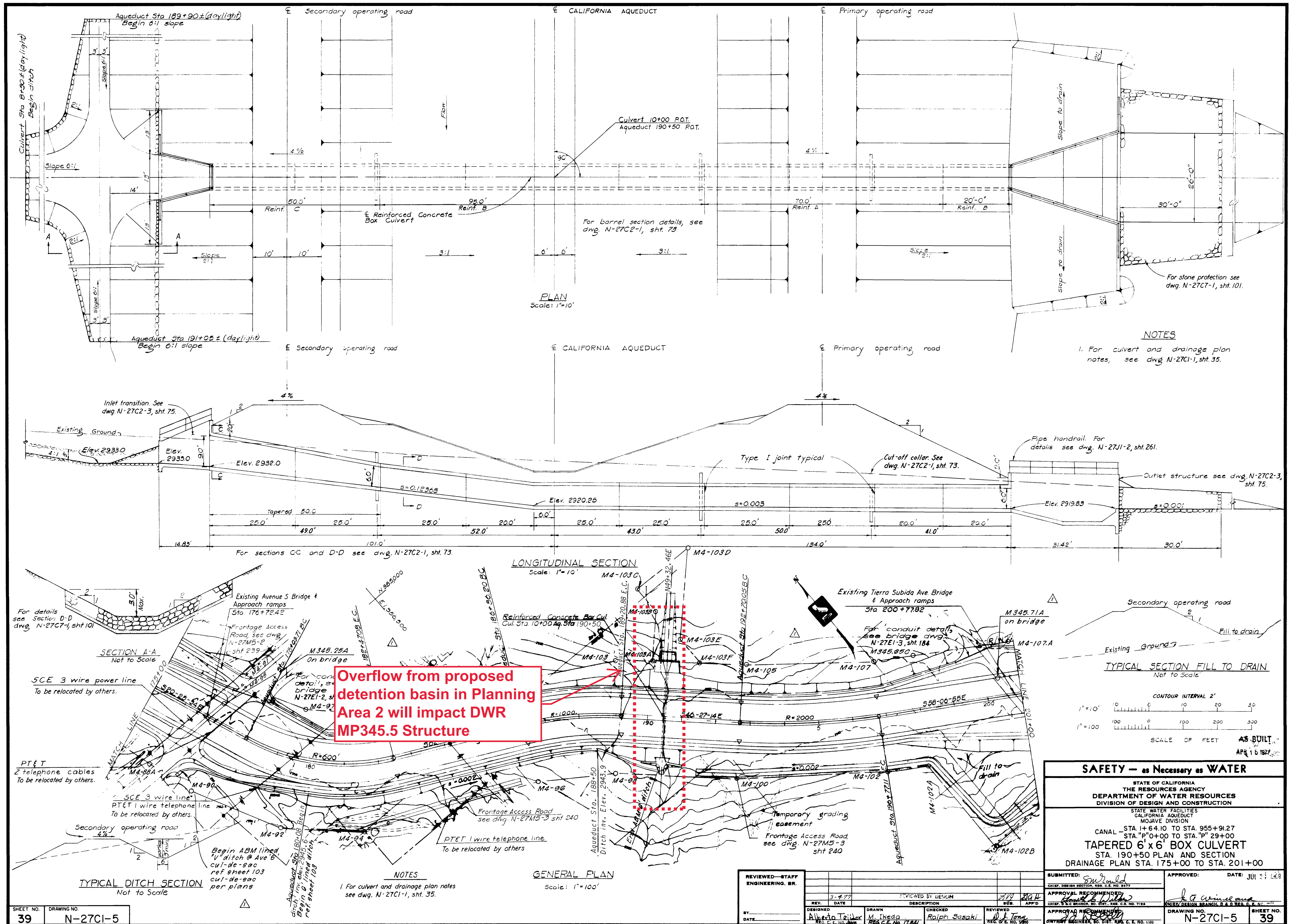
CHECKED: Alberto Tejedor

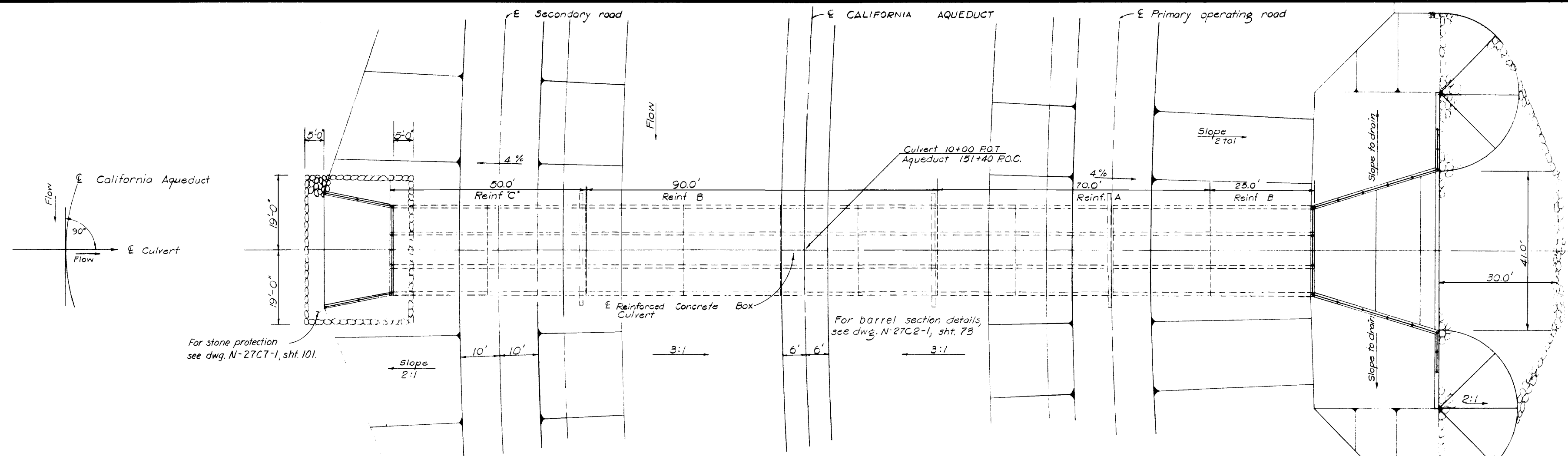
REVIEWED: J. Tong

SUBMITTED: [Signature]

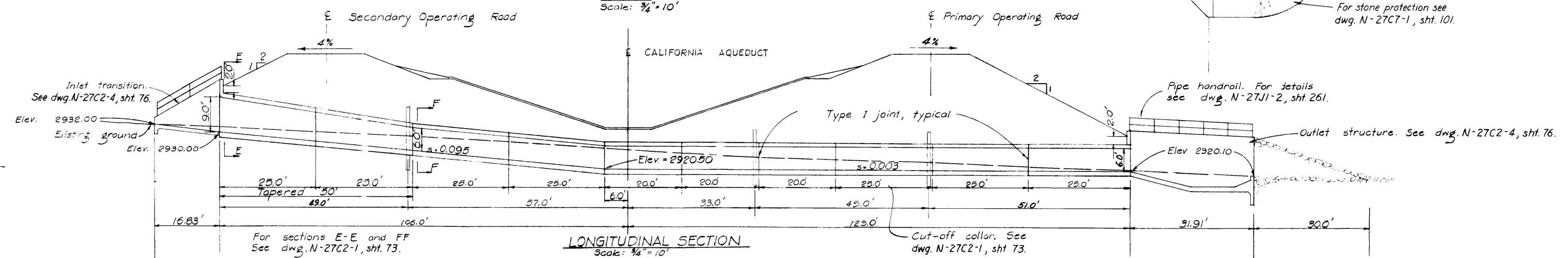
APPROVED: [Signature]

DATE: JUL 24 1968



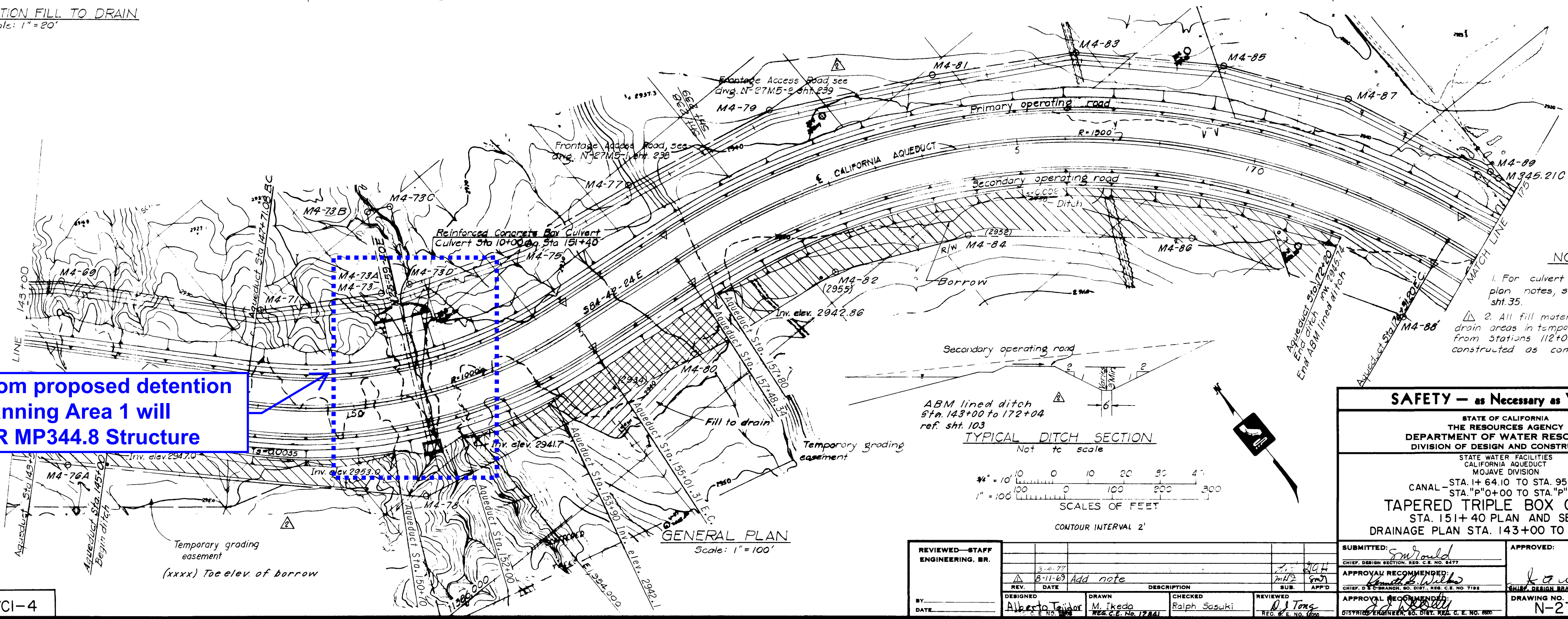


PLAN
Scale: 3/4" = 10'



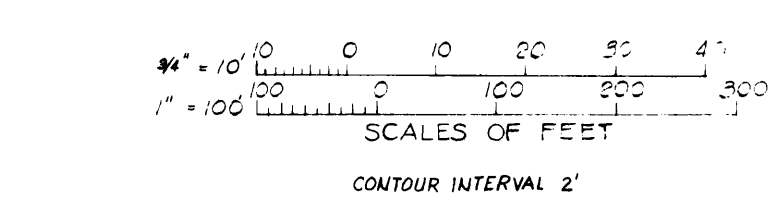
LONGITUDINAL SECTION
Scale: 3/4" = 10'

TYPICAL SECTION FILL TO DRAIN
Scale: 1" = 20'



GENERAL PLAN
Scale: 1" = 100'

TYPICAL DITCH SECTION
Not to scale



- NOTES**
1. For culvert and drainage plan notes, see dwg. N-27C1-1, sht. 35.
 2. All fill material deposited to drain areas in temporary easements from stations 143+00 to 149+00 to be constructed as compacted embankment.

Overflow from proposed detention basin in Planning Area 1 will impact DWR MP344.8 Structure

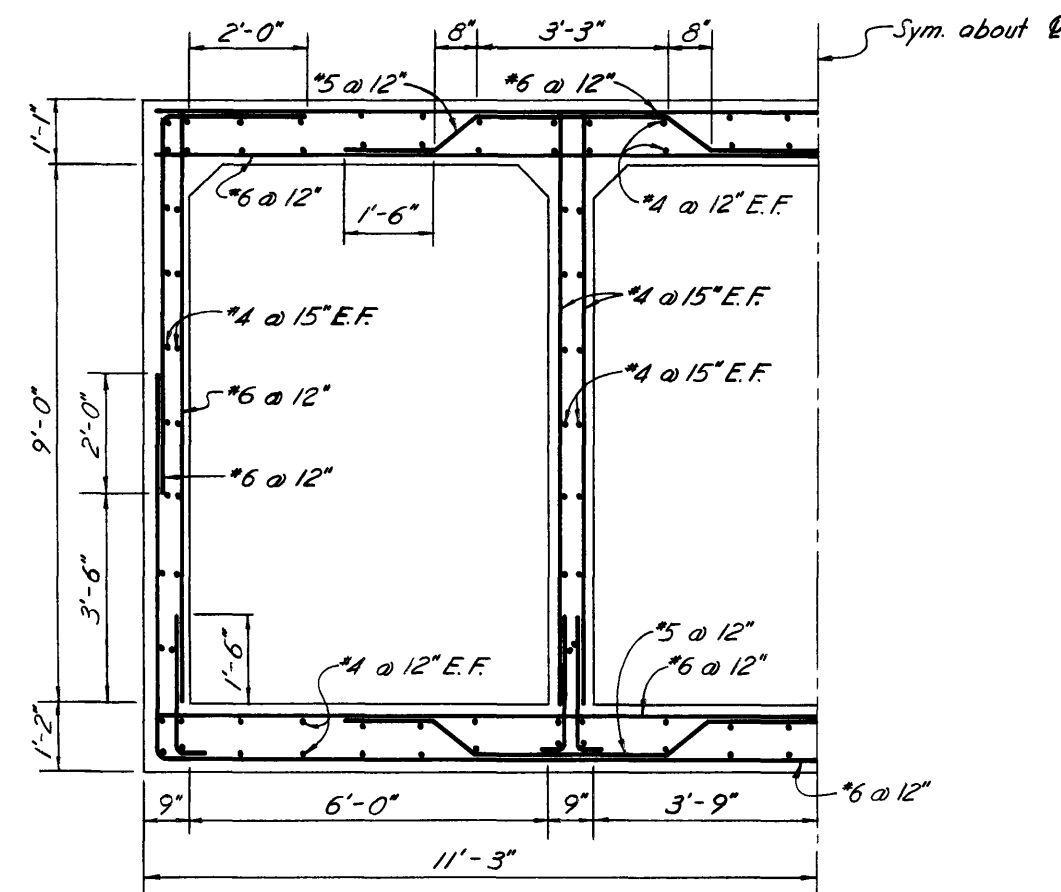
SAFETY — as Necessary as WATER

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF DESIGN AND CONSTRUCTION
STATE WATER FACILITIES
CALIFORNIA AQUEDUCT
MOJAVE DIVISION

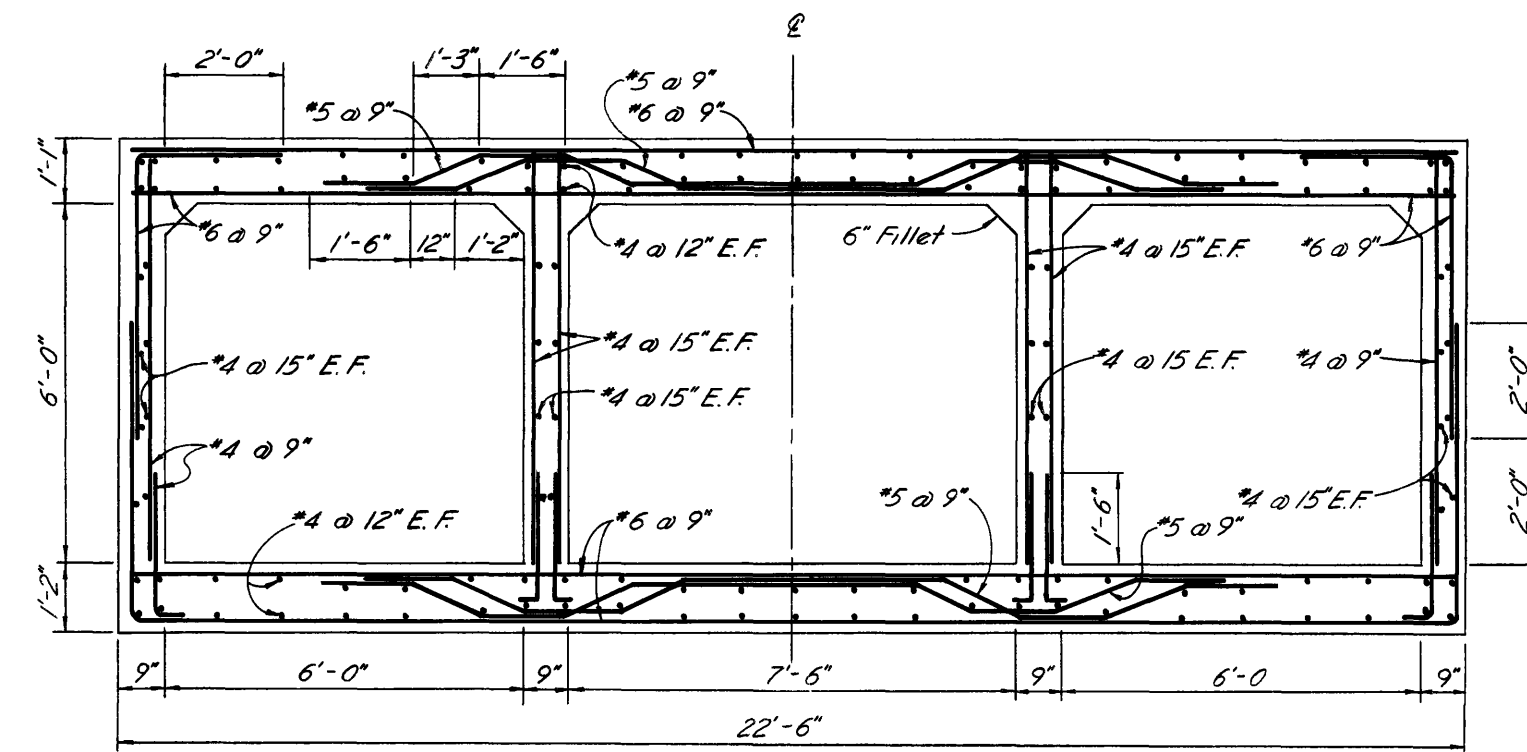
CANAL STA. 1+64.10 TO STA. 955+91.27
STA. "P" 0+00 TO STA. "P" 29+00
TAPERED TRIPLE BOX CULVERT
STA. 151+40 PLAN AND SECTION
DRAINAGE PLAN STA. 143+00 TO STA. 175+00

SUBMITTED: <i>[Signature]</i> CHIEF, DESIGN SECTION, REG. C.E. NO. 8477 APPROVAL RECOMMENDED: <i>[Signature]</i> CHIEF, DIST. BRANCH, DIST. REG. C.E. NO. 7195 APPROVAL RECOMMENDED: <i>[Signature]</i> DISTRICT ENGINEER, DIST. REG. C.E. NO. 8800	APPROVED: <i>[Signature]</i> DATE: JUL 24 1954 CHIEF, DESIGN BRANCH, DIST. REG. C.E. NO. 7195 DRAWING NO. N-27C1-4 SHEET NO. 38
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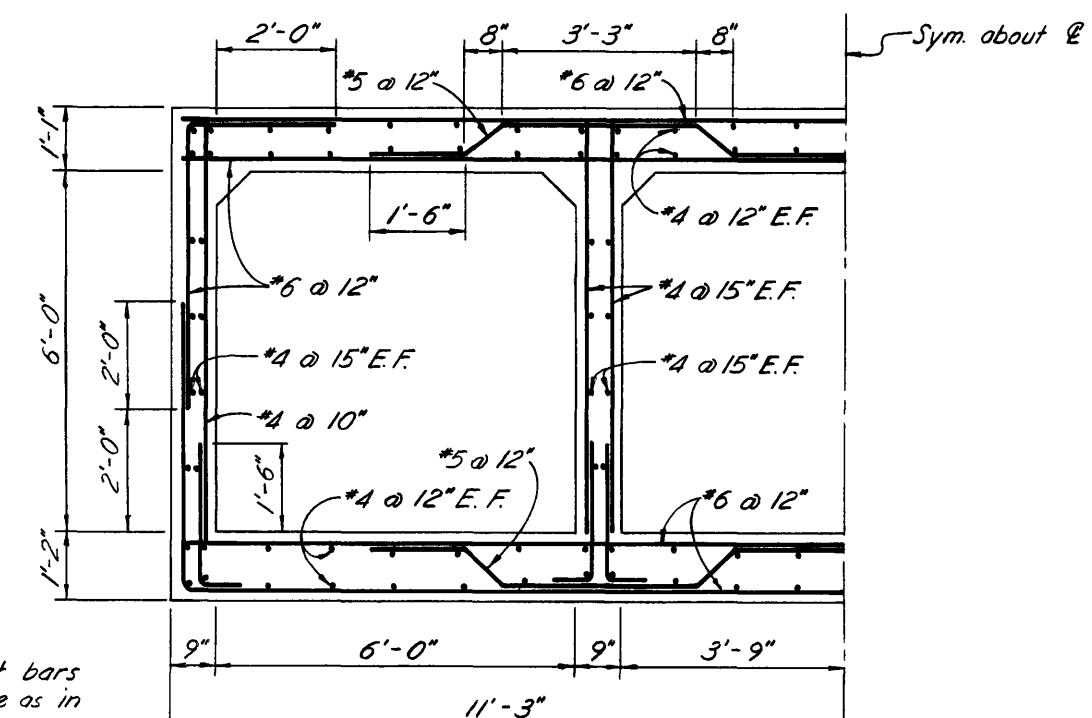
REVIEWED—STAFF ENGINEERING, BR. REV. DATE 8-11-63 BY: <i>[Signature]</i> DATE:	DESIGNED: <i>[Signature]</i> DRAWN: M. Ikeda CHECKED: Ralph Suzuki REVIEWED: <i>[Signature]</i> REG. C.E. NO. 12841 REG. C.E. NO. 1000	DESCRIPTION: Add note SUB. APP'D: <i>[Signature]</i> REG. C.E. NO. 1000
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REINFORCEMENT C
SECTION E-E
 $\frac{1}{2}'' = 1'-0''$



REINFORCEMENT A
SECTION F-F
 $\frac{1}{2}'' = 1'-0''$
See dwg. N-27C1-4, sht. 38

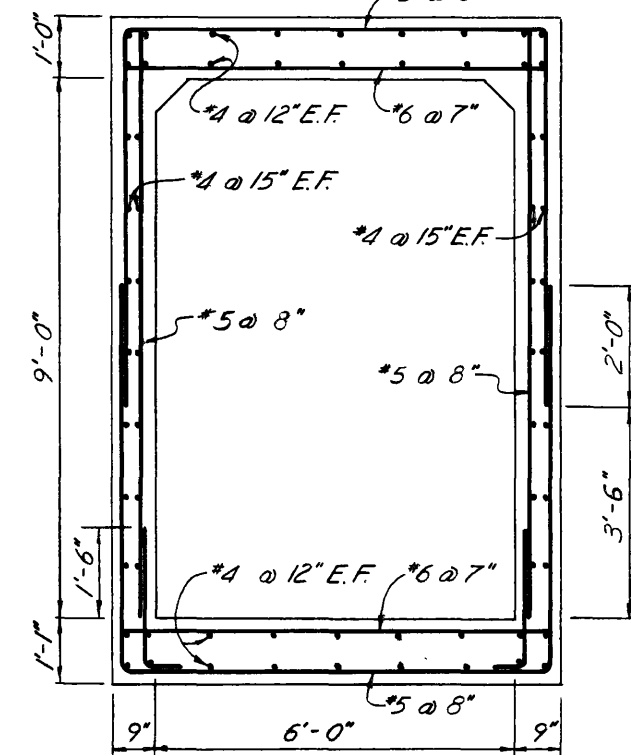


REINFORCEMENT B
SECTION F-F
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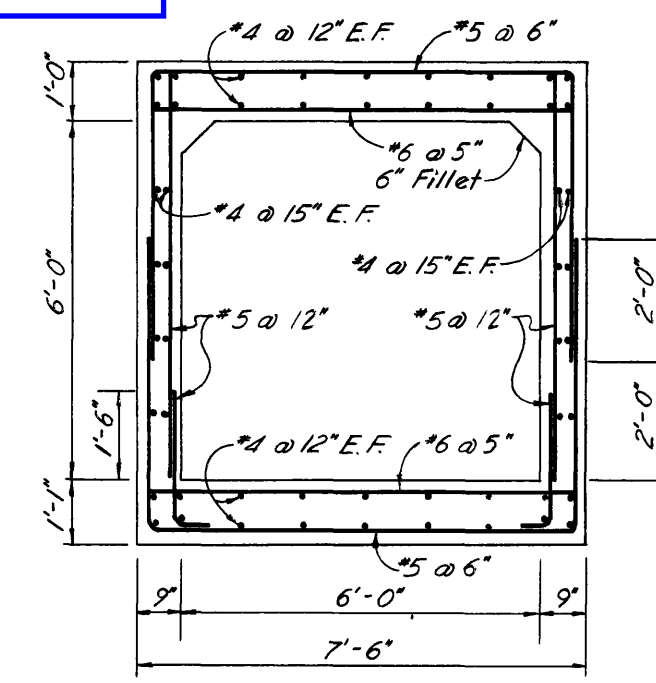
Dimensions of bent bars
in bottom slab same as in
top slab.

Overflow from
proposed detention
basin in Planning
Area 1 will impact
DWR MP344.8
Structure

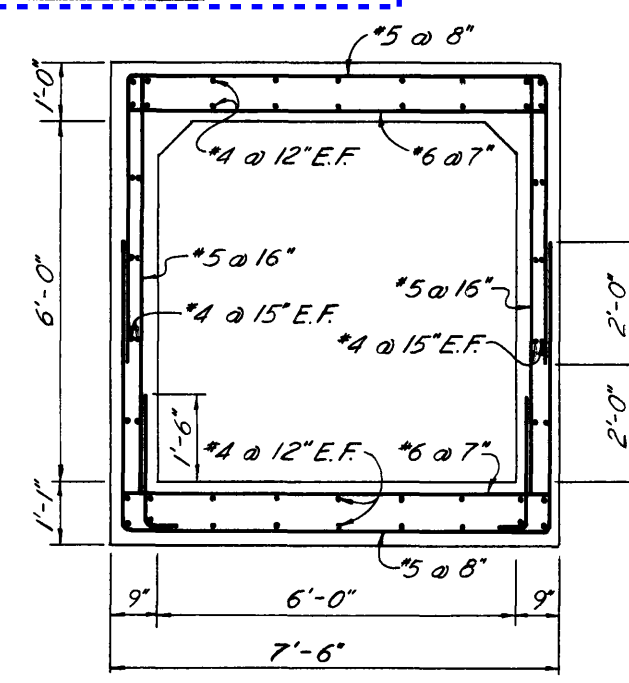
TRIPLE 6(6-7.5-6) BOX CULVERT
STA. 151+40



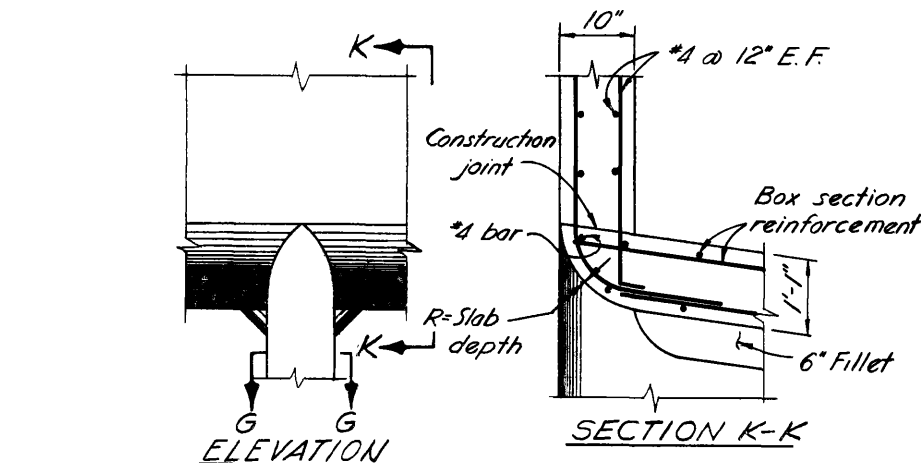
REINFORCEMENT C
SECTION C-C
 $\frac{1}{2}'' = 1'-0''$



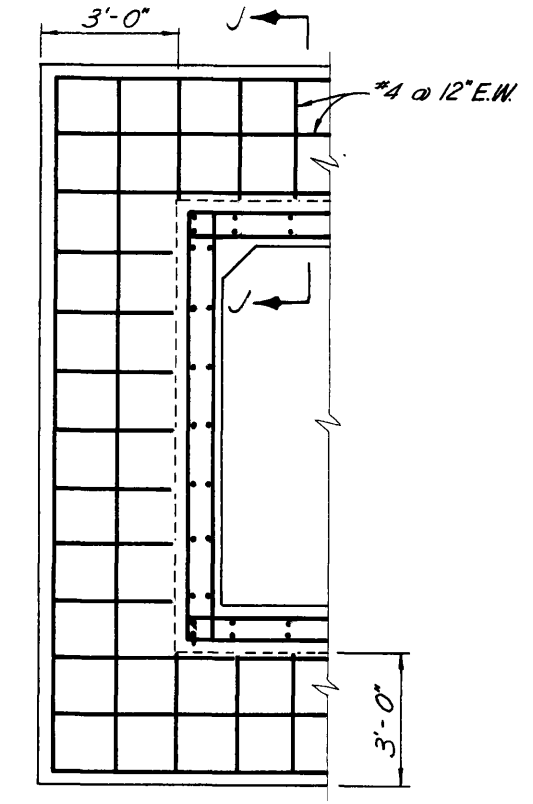
REINFORCEMENT A
SECTION D-D
 $\frac{1}{2}'' = 1'-0''$



REINFORCEMENT B
SECTION D-D
 $\frac{1}{2}'' = 1'-0''$

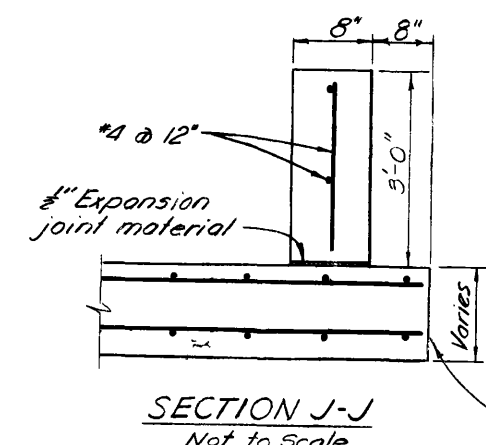


SECTION G-G
ENTRANCE DETAIL FOR
THREE-BARRELS CULVERT
Not to scale

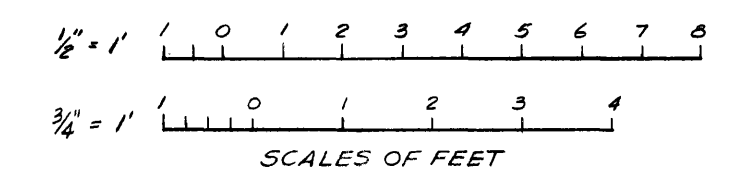


CUT-OFF COLLAR
DETAIL
Not to scale

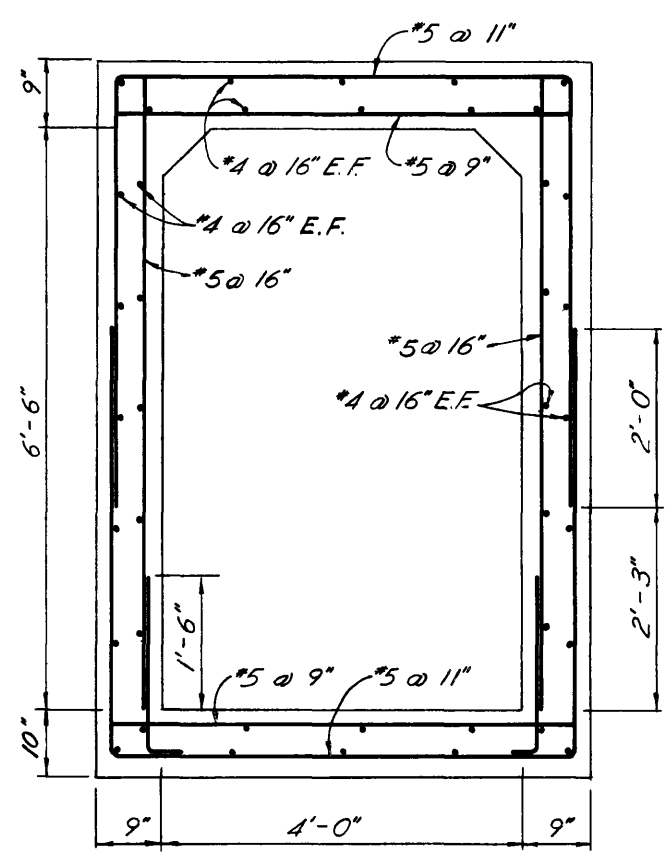
- NOTES:
- For Concrete Design notes see drawing N-27N3-1, sht. 121.
 - For joint detail, see dwg. N-27J3-1, sht. 264.



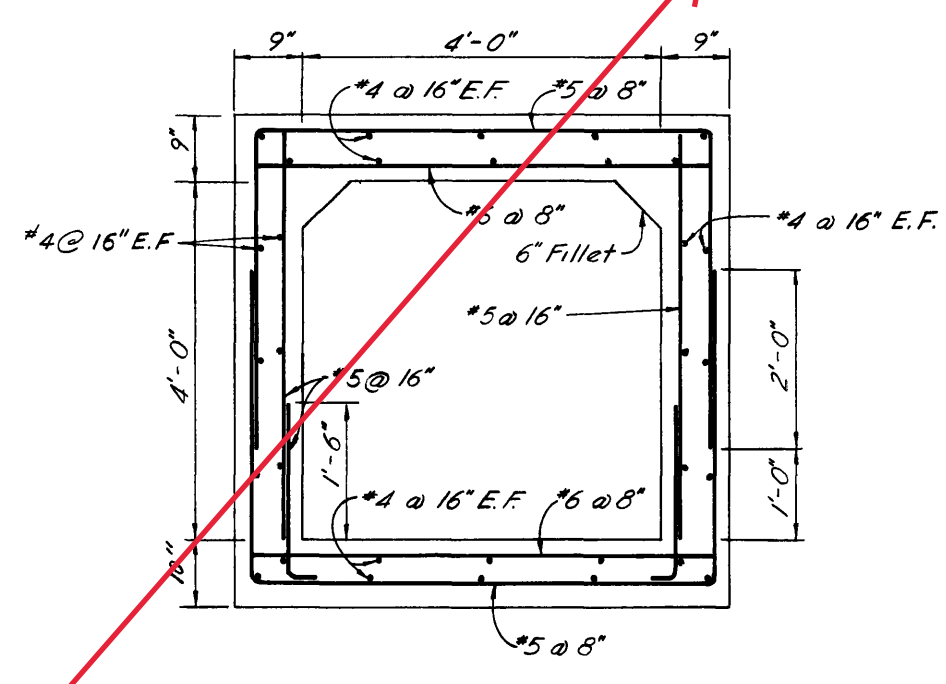
SECTION J-J
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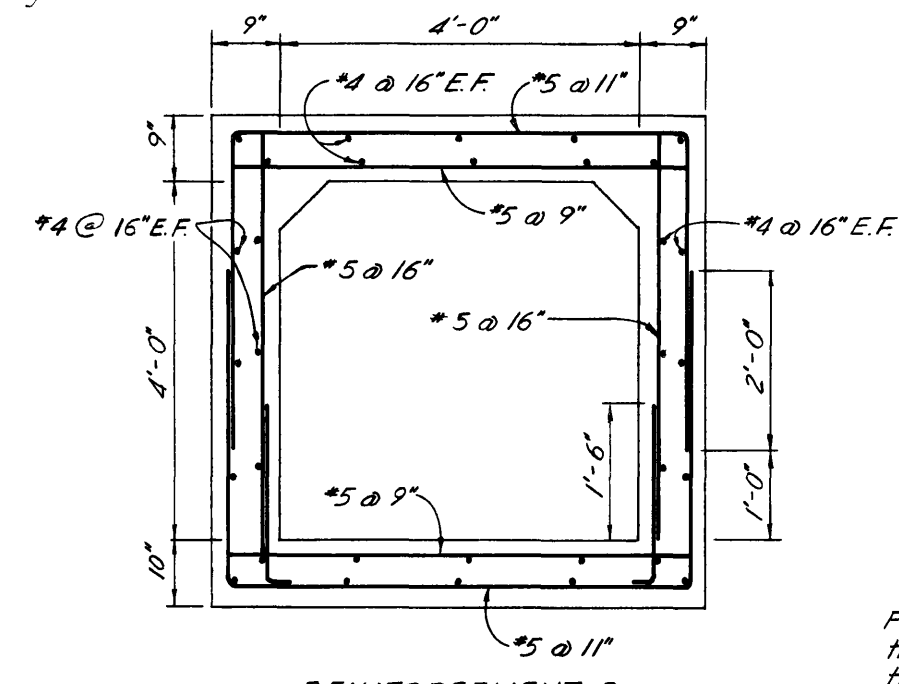
AS BUILT
JUL 2 1959
APR 15 1977



REINFORCEMENT C
SECTION A-A
 $\frac{3}{4}'' = 1'-0''$



REINFORCEMENT A
SECTION B-B
 $\frac{3}{4}'' = 1'-0''$



REINFORCEMENT B
SECTION B-B
 $\frac{3}{4}'' = 1'-0''$

6x6 BOX CULVERT
STA 131+52 see dwg. N-27C1-3 sht. 37
STA 150+50 see dwg. N-27C1-5 sht. 39
STA 302+00 see dwg. N-27C1-8 sht. 52
STA 516+50 see dwg. N-27C1-9 sht. 53

4x4 BOX CULVERT

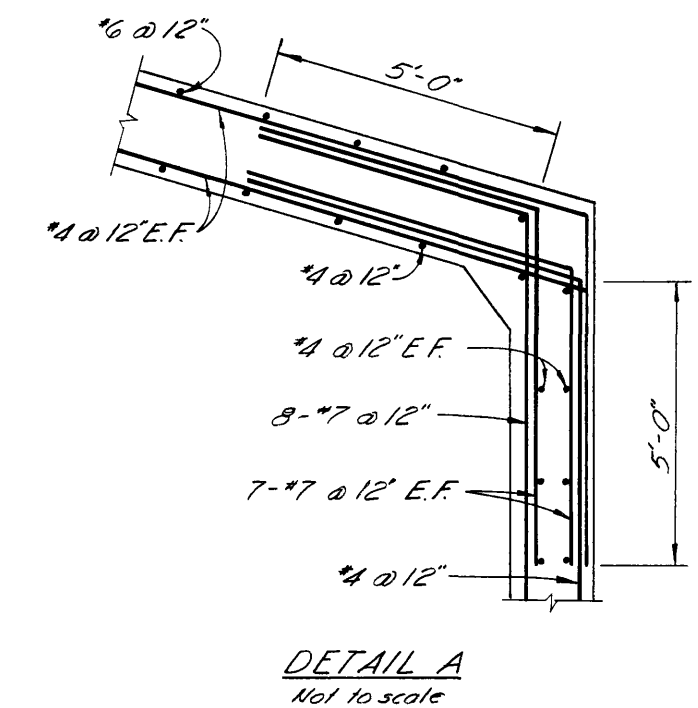
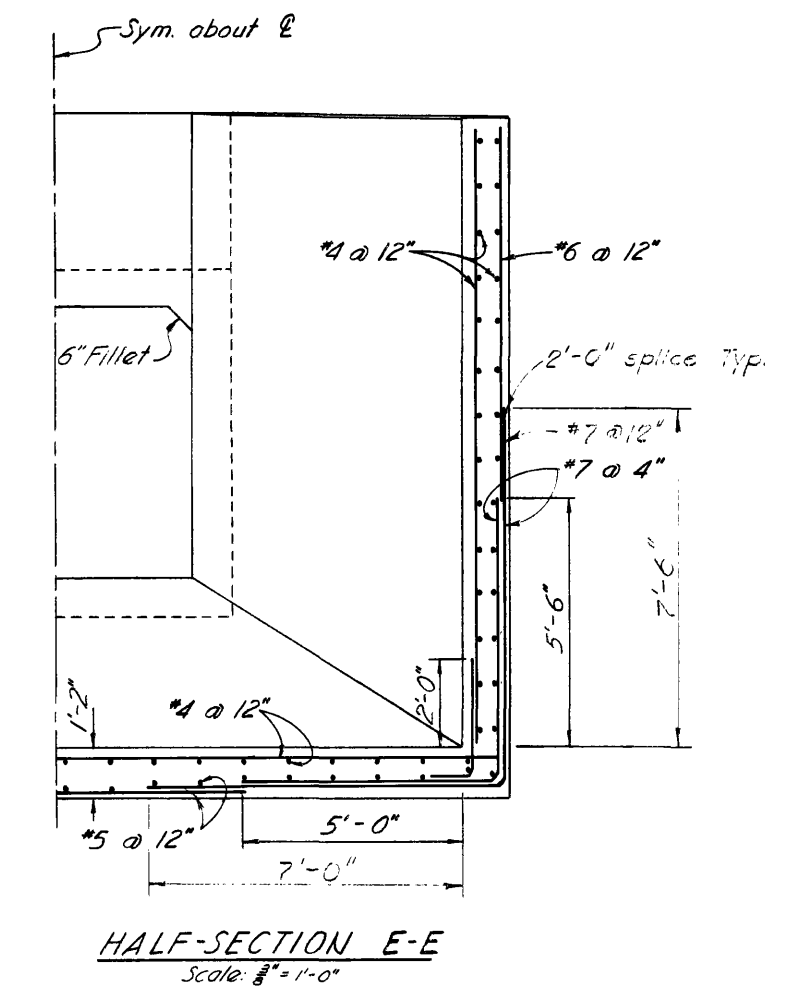
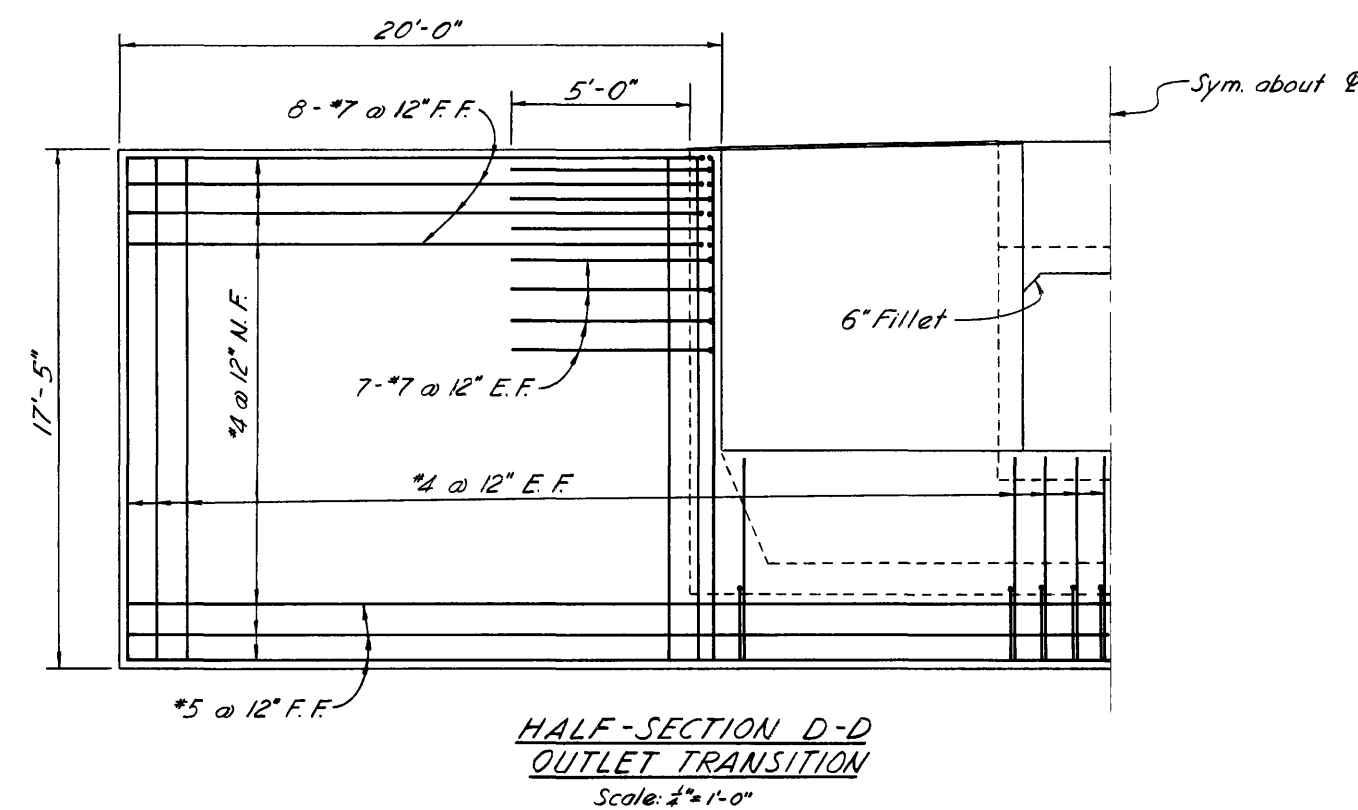
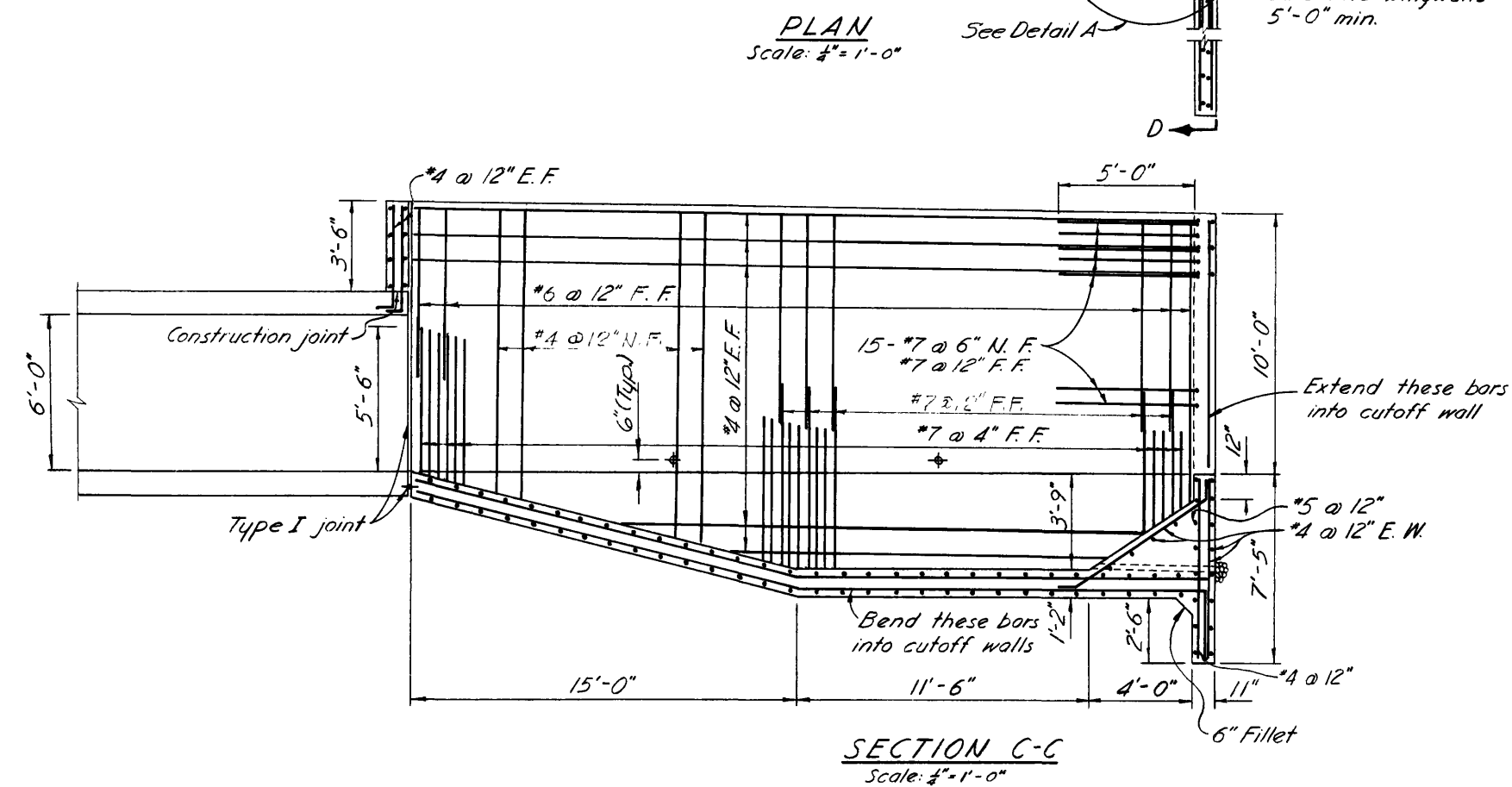
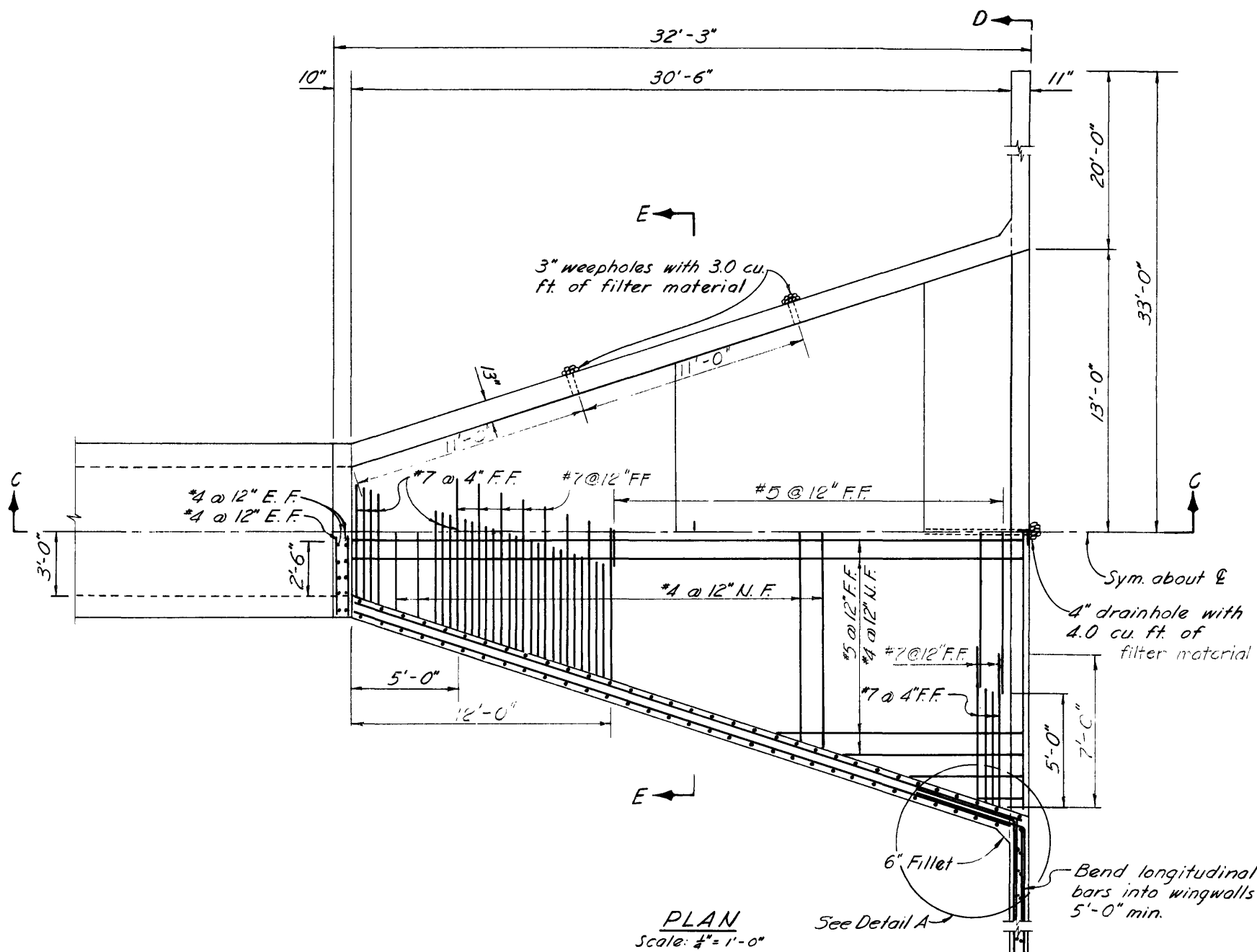
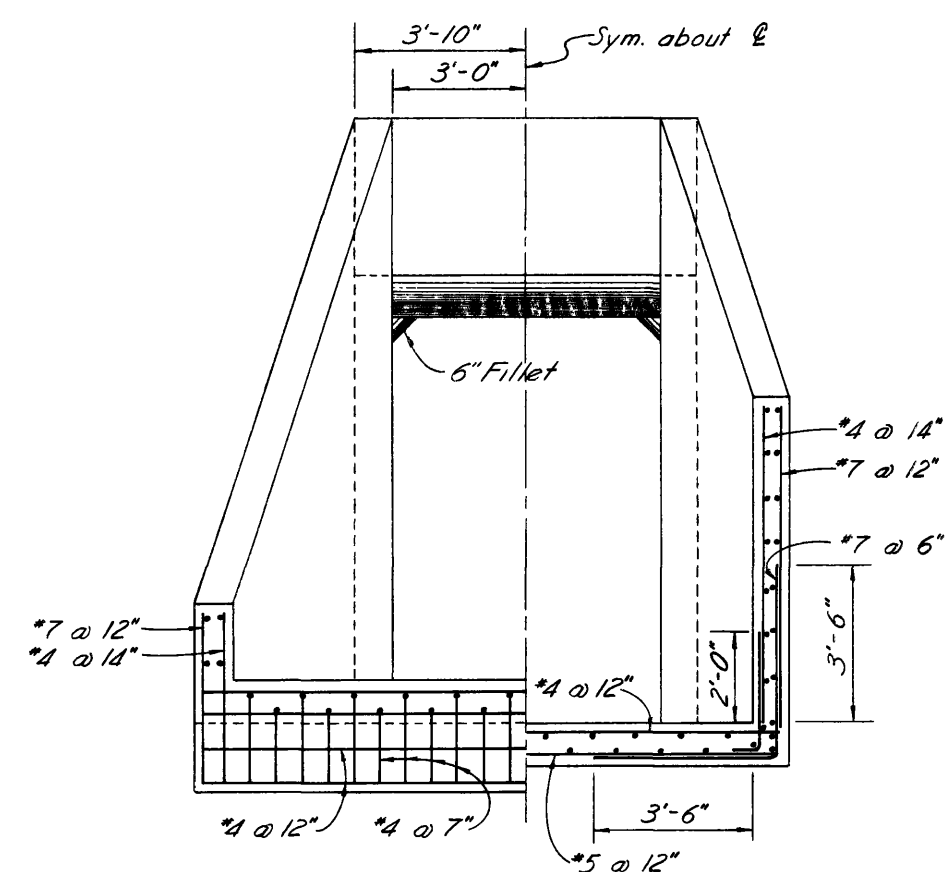
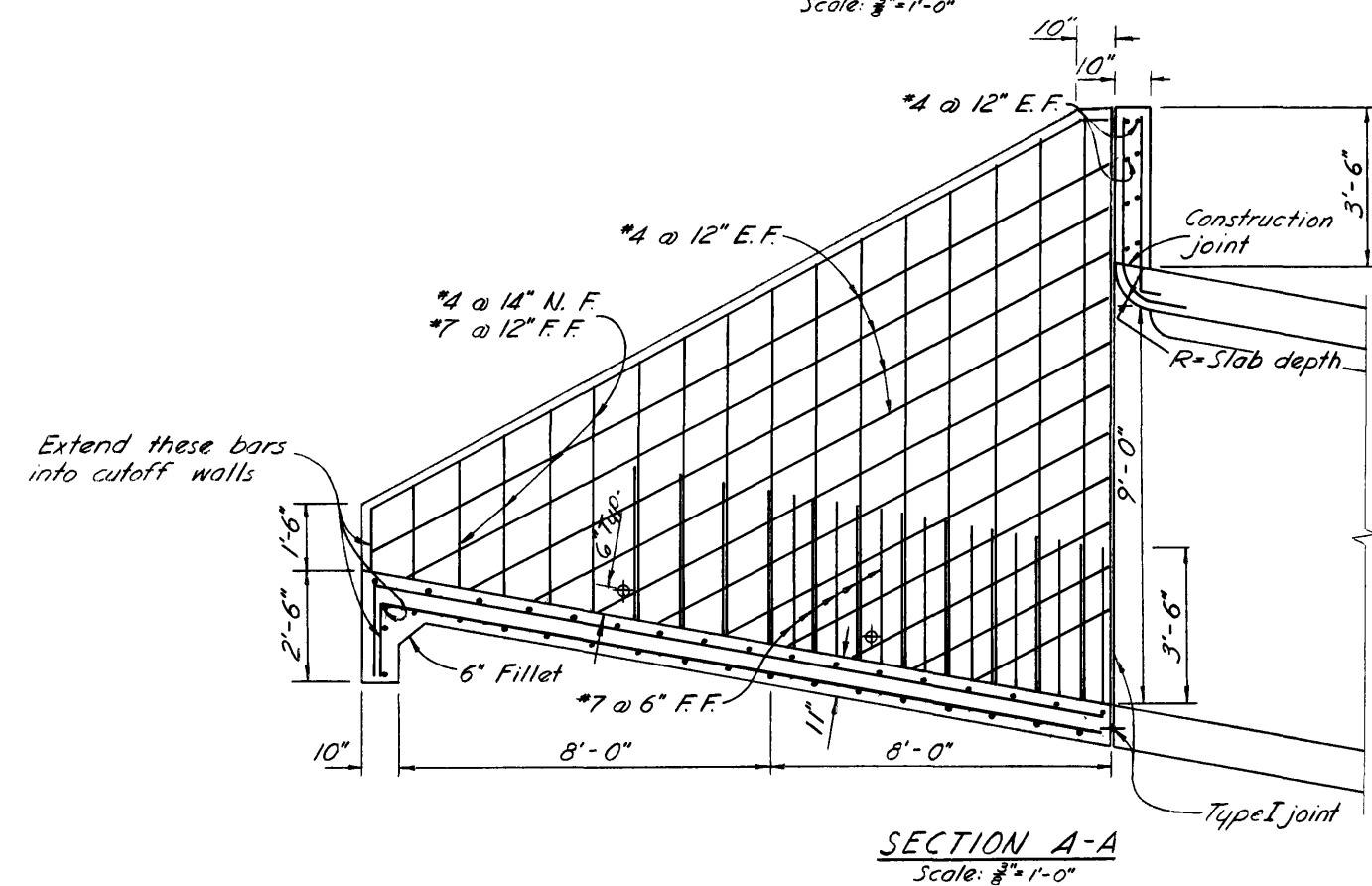
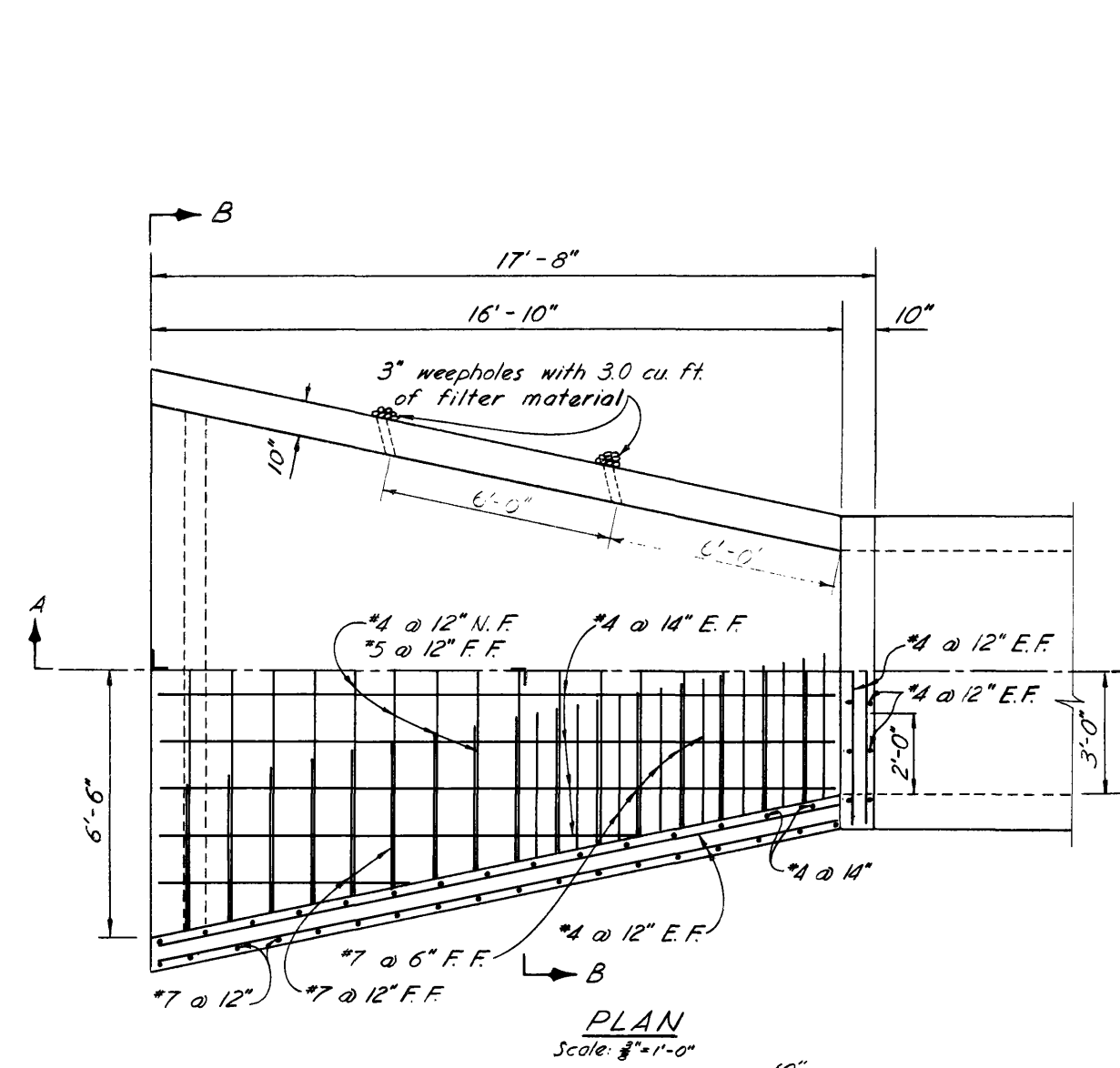
- STA 268+30 see dwg. N-27C1-9 sht. 42
STA 321+90 see dwg. N-27C1-10 sht. 44
STA 412+65 see dwg. N-27C1-14 sht. 48
STA 426+00 see dwg. N-27C1-17 sht. 51
STA 549+00 see dwg. N-27C1-21 sht. 55
STA 602+00 see dwg. N-27C1-24 sht. 58
STA 636+90 see dwg. N-27C1-25 sht. 59
STA 657+95 see dwg. N-27C1-26 sht. 60

For culvert at Sta. 321+90 and Sta. 657+95
the top slab will be 10" instead of 9" and
the floor slab will be 11" instead of 10"

Overflow from proposed
detention basin in Planning
Area 2 will impact DWR MP345.5
Structure

REVIEWED-STAFF ENGINEERING, BR.		REVIEWED BY DESIGN		DESIGNED		DRAWN		CHECKED		REVIEWED	
DATE		DATE		DATE		DATE		DATE		DATE	

SAFETY — as Necessary as WATER	
STATE OF CALIFORNIA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES DIVISION OF DESIGN AND CONSTRUCTION STATE WATER FACILITIES CALIFORNIA AQUEDUCT MOJAVE DIVISION CANAL STA. 1+64.10 TO STA. 955+91.27 STA "P" 0+00 TO STA. "P" 29+00 R.C. BOX CULVERTS BARREL SECTIONS	
SUBMITTED: <i>Submittal</i>	APPROVED: <i>J. O. Winslow</i>
CHIEF, DESIGN SECTION, REG. C.E. NO. 8477	CHIEF, DESIGN BRANCH, D & S REG. C.E. NO. 1997
APPROVAL RECOMMENDED: <i>James E. Miller</i>	APPROVAL RECOMMENDED: <i>J. J. Brown</i>
CHIEF, D.S. BRANCH, REG. DIST. REG. C.E. NO. 7128	DISTRICT ENGINEER, REG. DIST. REG. C.E. NO. 800
DRAWING NO. N-27C2-1	SHEET NO. 73



- NOTES
1. For Concrete Design Notes, see dwg. N-27N3-1, sht. 121.
 2. For joint detail, see dwg. N-27J3-1, sht. 264

$\frac{1}{4}'' = 1'$ 1 0 1 2 3 4 5 6 7 8 9 10
 $\frac{3}{8}'' = 1'$ 1 0 1 2 3 4 5 6 7
 SCALE of FEET

AS BUILT
PR 15 1977

SAFETY — as Necessary as WATER

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF DESIGN AND CONSTRUCTION

STATE WATER FACILITIES
CALIFORNIA AQUEDUCT
MOJAVE DIVISION
STA. 1+64.10 TO STA. 955+91.27
CANAL - STA. "P" 0+00 TO STA. "P" 29+00
TAPERED 6x6 BOX CULVERT
INLET AND OUTLET DETAILS
TYPE I

SUBMITTED: *Jim Gould*
CHIEF, DESIGN SECTION, REG. C.E. NO. 8477

APPROVED: _____ DATE: JUL 24 1968

APPROVAL RECOMMENDED:
Kenneth E. Wilke
CHIEF, D & C BRANCH, SO. DIST., REG. C.E. NO. 7192

L. A. Wineland
CHIEF DESIGN BRANCH, D. & C. REG. C. E. NO. 7257

APPROVAL/RECOMMENDED:
DISTRICT ENGINEER, SO. DIST. REG. C. E. NO. 650

DRAWING NO. N-27C2-2	SHEET NO. 74
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SHEET NO 74	DRAWING NO. N-27C2-2
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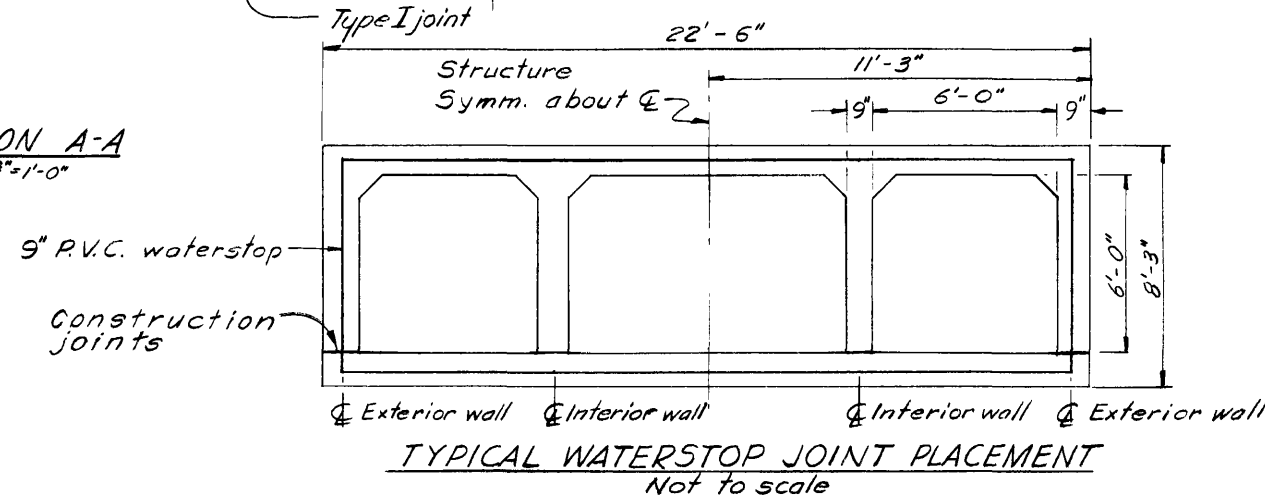
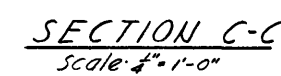
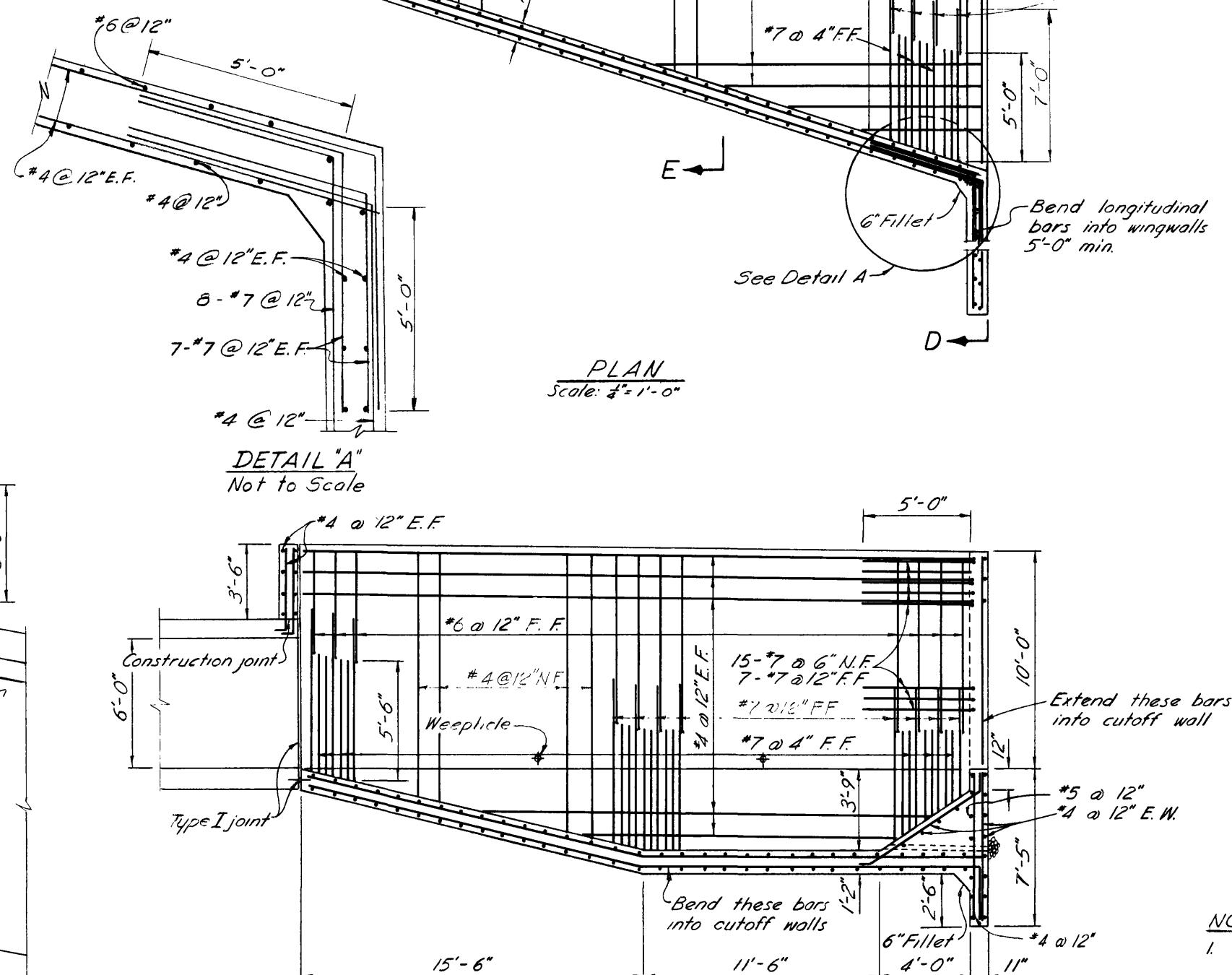
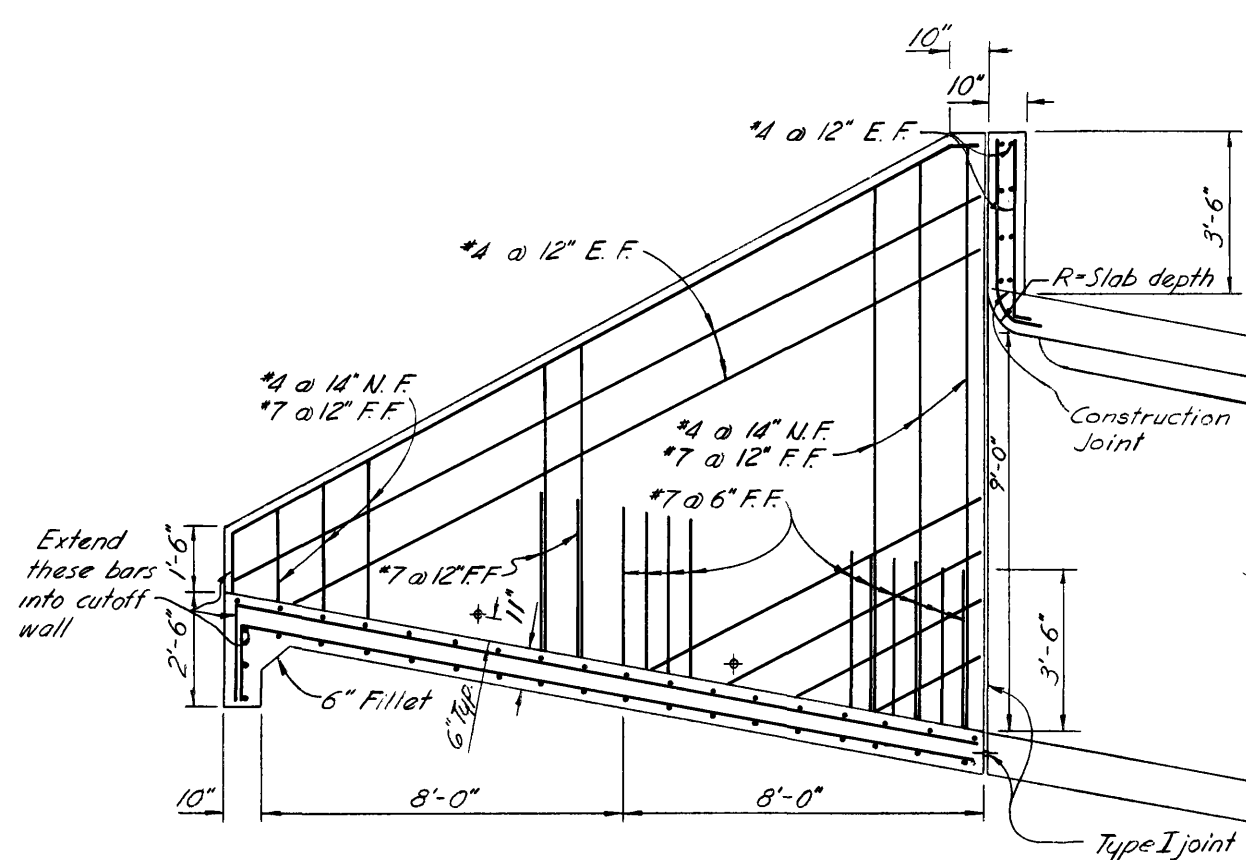
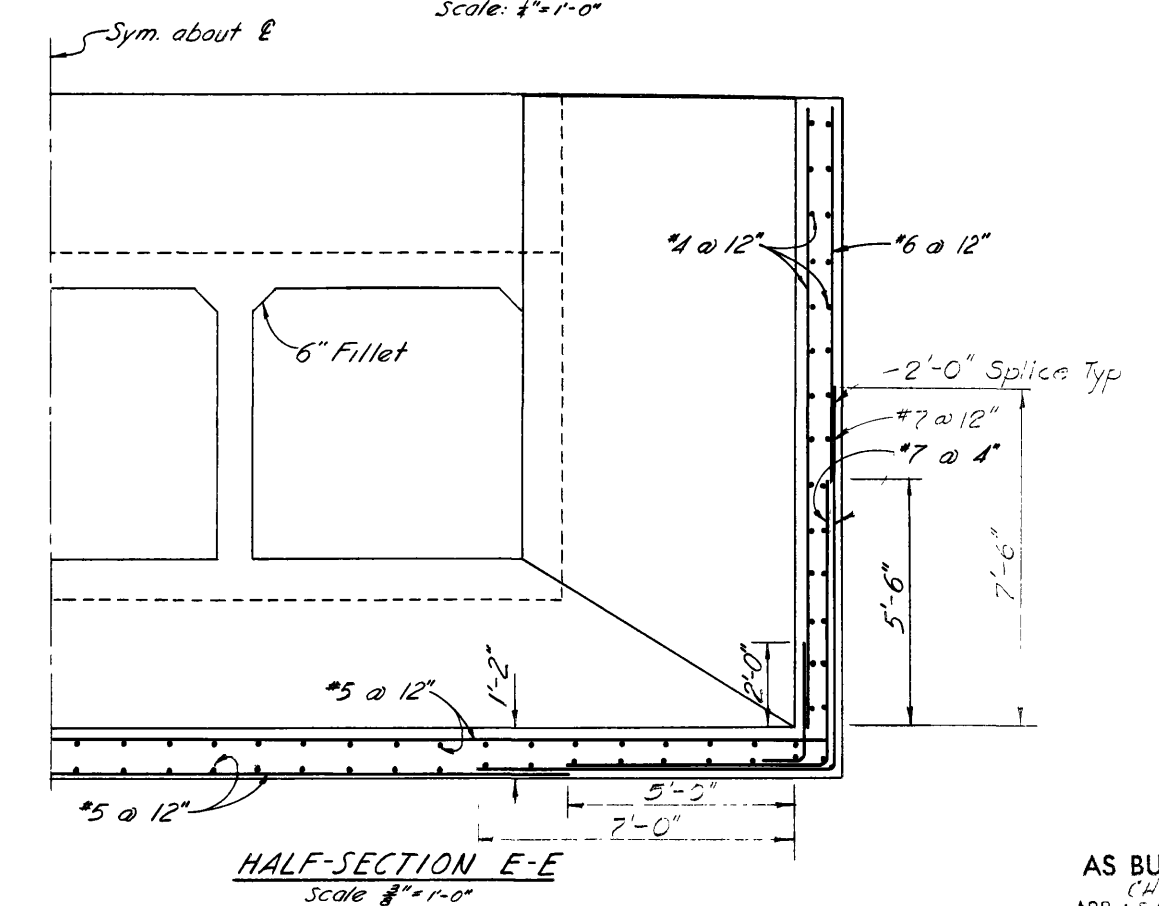
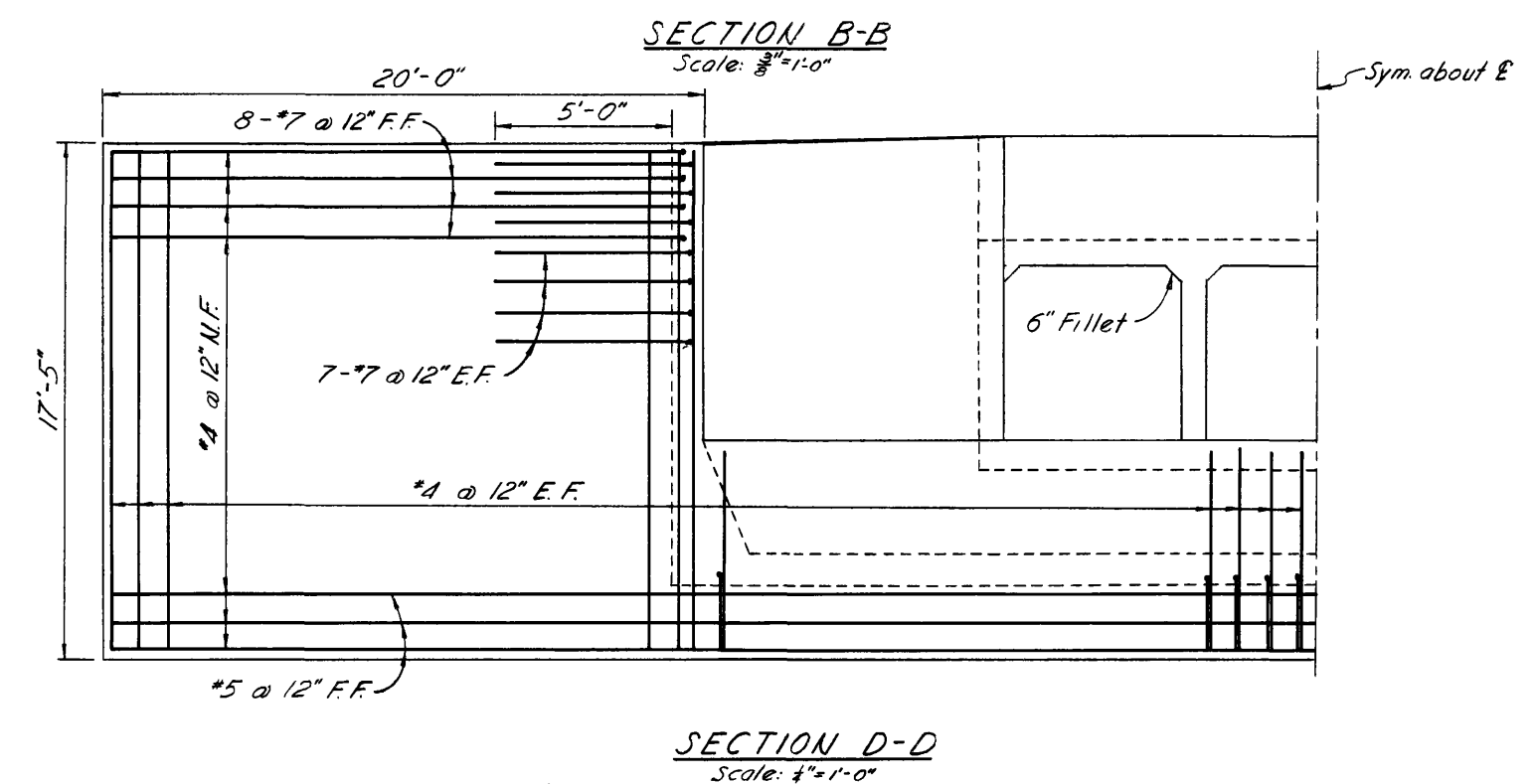
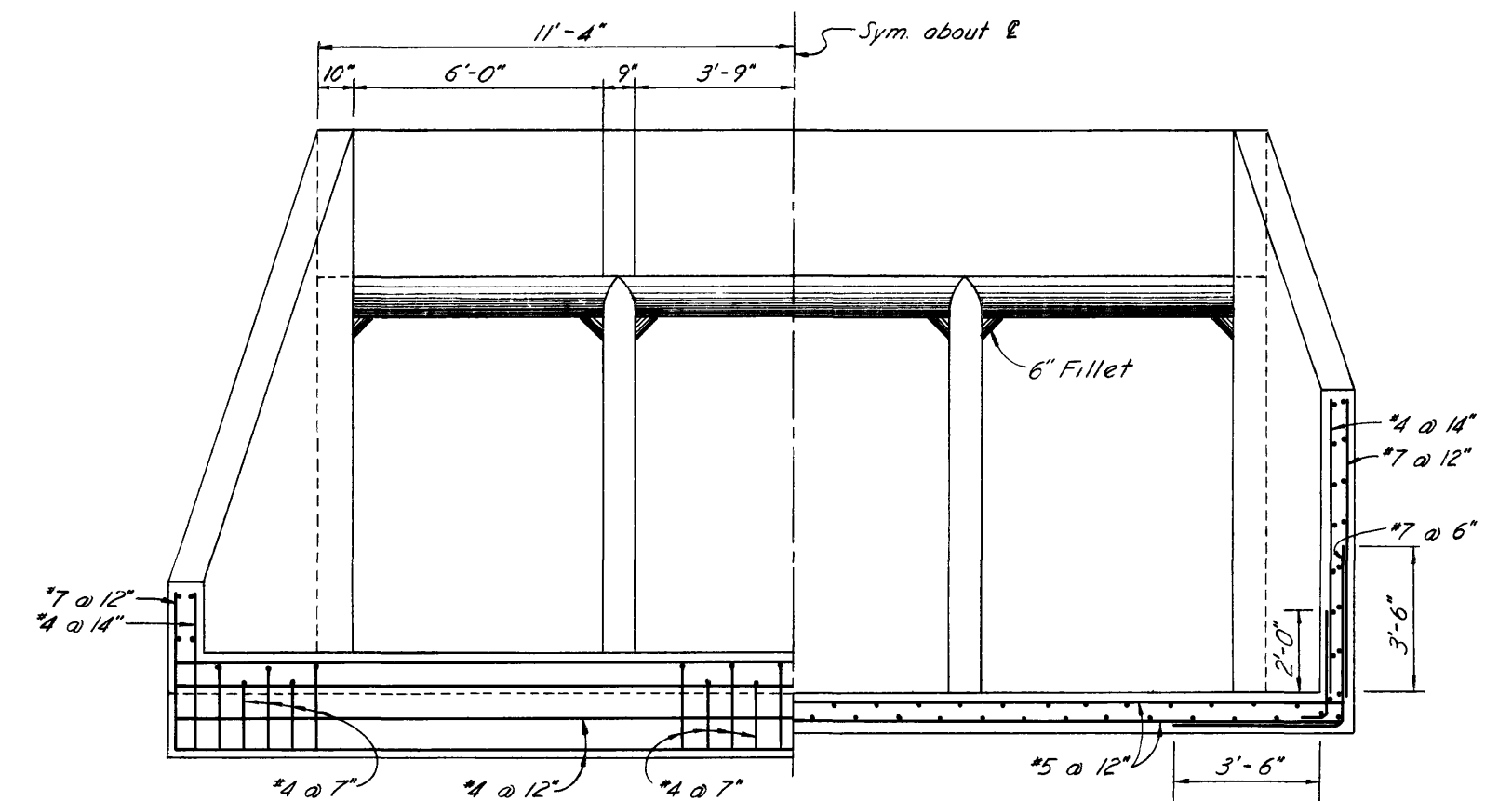
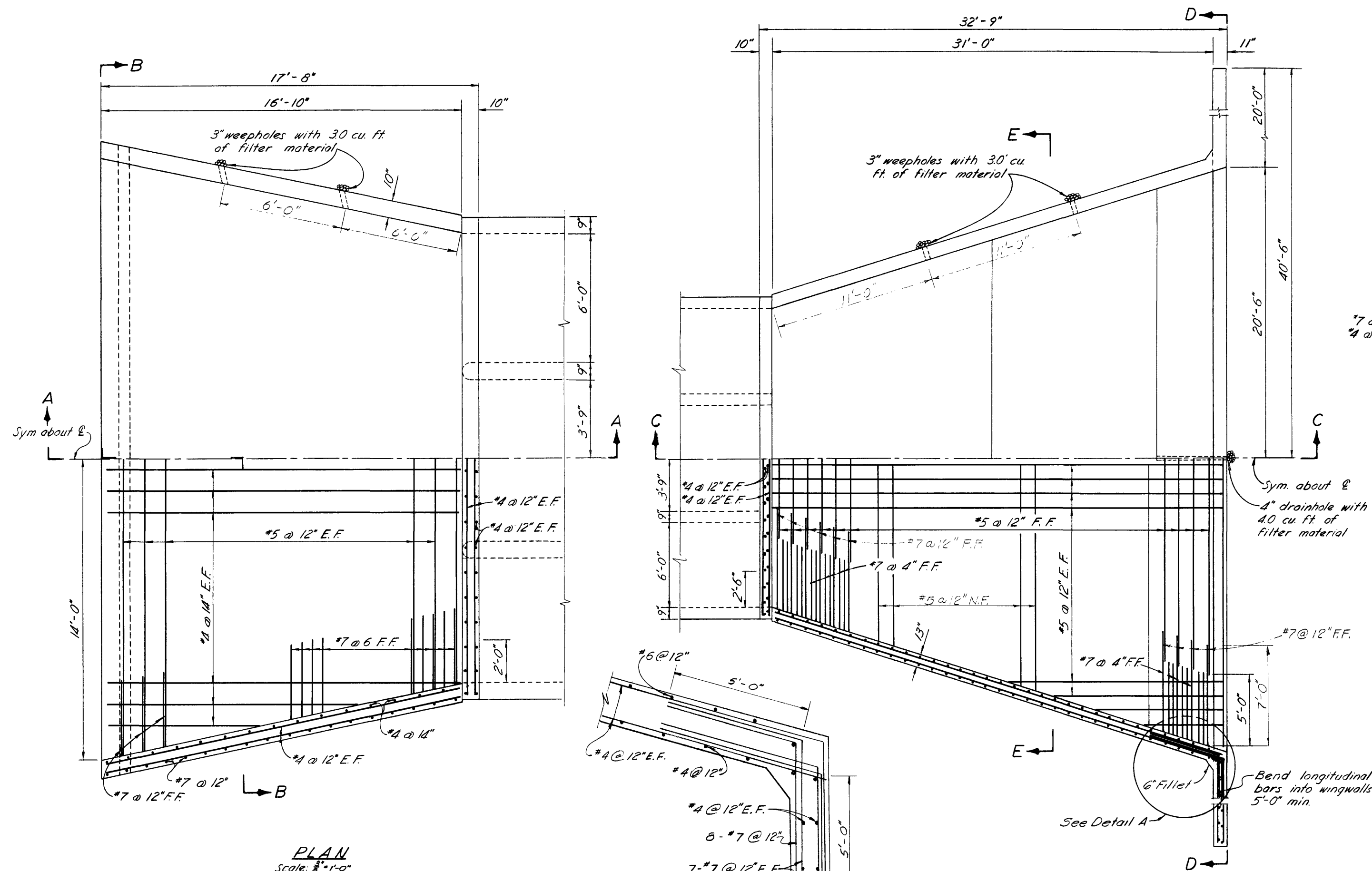
REVIEWED—STAFF
ENGINEERING, BR

1

REV.	DATE	REVIEWED BY DESIGN		DATE
5-4-77				5/11/77
DESIGNED	DRAWN	CHECKED	REVIEWED	
J. Tejedor	M. Matsunaga	J. Tejedor	M. Matsunaga	
REG. 6-2 H.C. 100M		REG. 6-2 H.C. 100M		

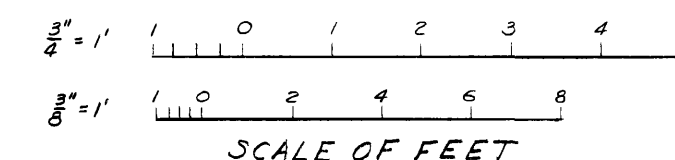
194 APP'D	SUBMITTED: <i>Dimould</i> CHIEF, DESIGN SECTION, REG. C.E. NO. 8477
194 APP'D	APPROVAL RECOMMENDED: <i>Renald B. Walker</i> CHIEF, D & C BRANCH, SO. DIST., REG. C.E. NO. 7192
50	APPROVAL RECOMMENDED: <i>W. R. Brady</i> DISTRICT ENGINEER, SO. DIST., REG. C.E. NO. 500

APPROVED:	DATE: JUL 24 1968
<i>L. J. Winslow</i>	
CHIEF DESIGN BRANCH, D E C REG. C. E. NO. 727	
DRAWING NO. N-27C2-2	SHEET NO. 74



- NOTES

1. For Concrete Design notes see drawing N-27N3-1, sht. 121.
2. For joint detail, see dwg N-27J3-1, sht. 264.

REVIEWED—STAFF
ENGINEERING, BR.

5-4-77		REVIEWED BY DESIGN		204
REV.	DATE	DESCRIPTION		SUB.
DESIGNED	DRAWN	CHECKED	REVIEWED	
Alberto Tencio	M. Matsunaga	S. Carlson	D. J. Tora	

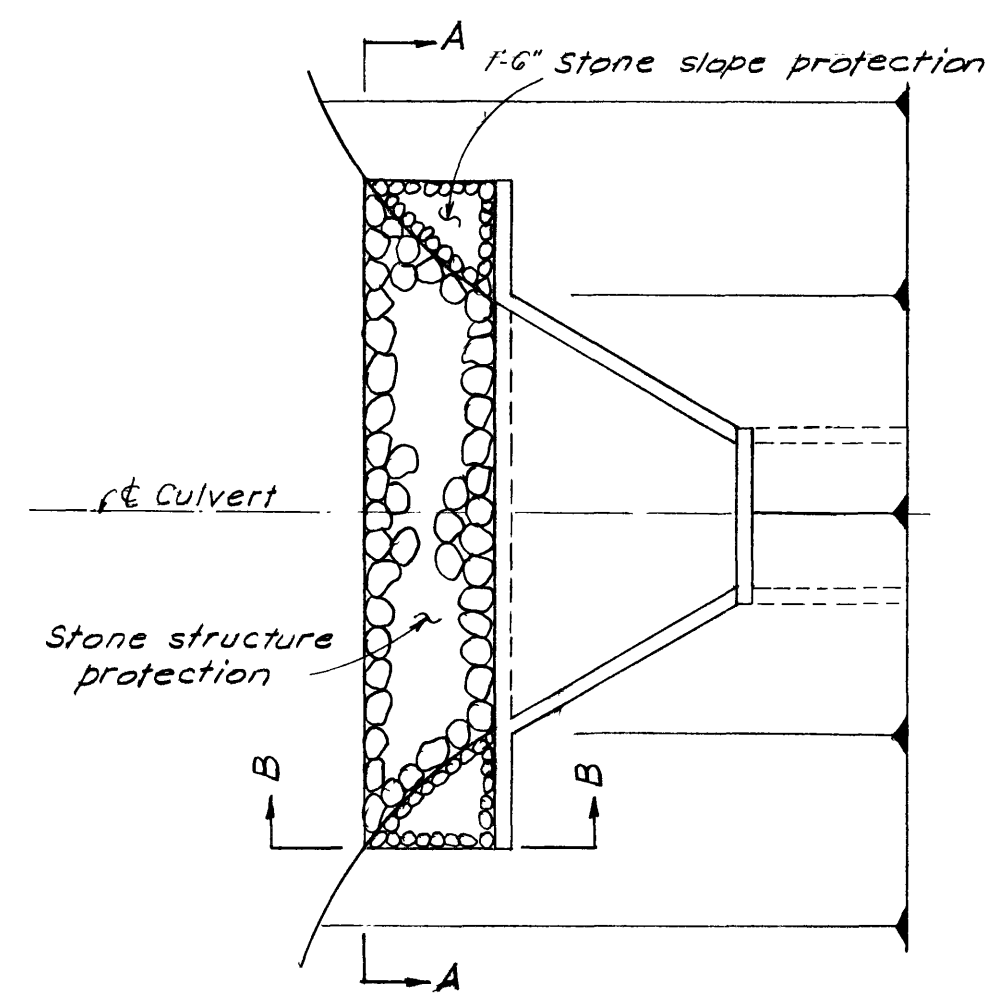
	MEET AND
	SUBMITTED: <i>SM Gould</i>
	CHIEF, DESIGN SECTION, REG. C.E. NO. 8477
#	APPROVAL RECOMMENDED:
	<i>Donald E. Walker</i>
'D	CHIEF, D & C BRANCH, DIST. REG. C.E. NO. 7192
	APPROVAL RECOMMENDED:
	<i>J. J. O'Leary</i>
	NATIONAL ENGINEER OF DIST. REG. C.E. NO. 610

APPROVED:		DATE: JUL 24 1958	
			
CHIEF, DESIGN BRANCH, D W C REG. C. E. NO. 7282			
DRAWING NO.		SHEET NO.	
N-27C2-4		76	

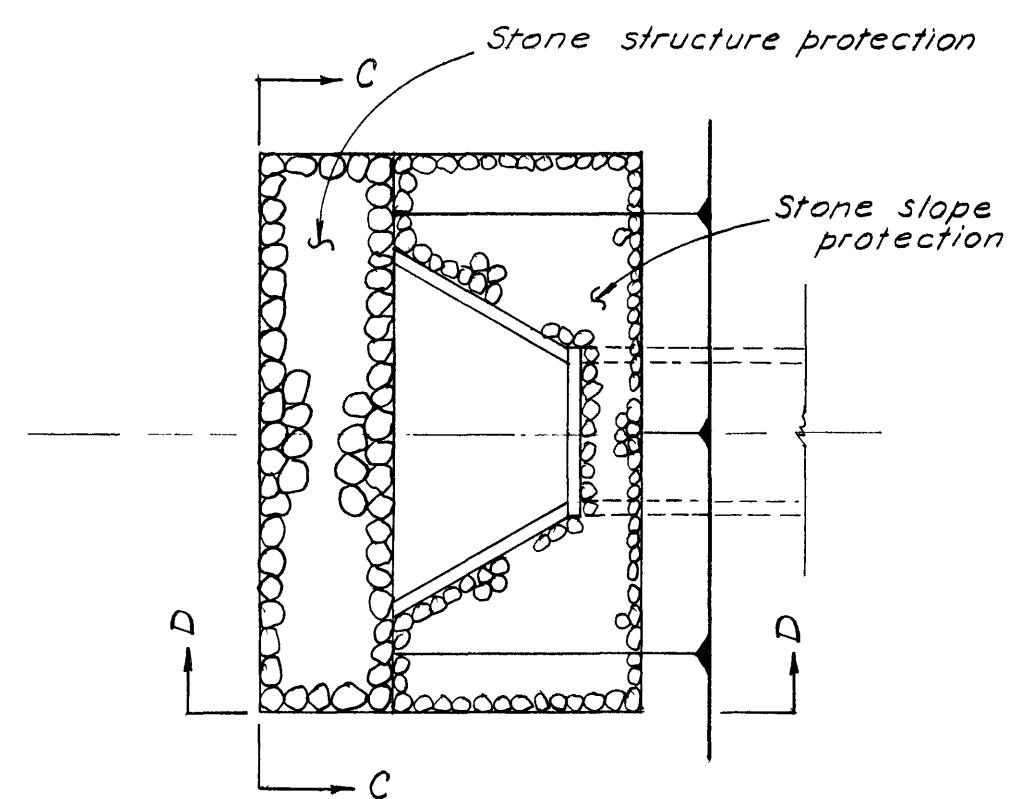
SHEET NO. 76	DRAWING NO N-27C2-4
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SAFETY — as Necessary as WATER	
STATE OF CALIFORNIA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES DIVISION OF DESIGN AND CONSTRUCTION	
STATE WATER FACILITIES CALIFORNIA AQUEDUCT MOJAVE DIVISION	
CANAL — STA. 1+64.10 TO STA. 955+91.27 STA. "P" 0+00 TO STA. "P" 29+00	
TAPERED TRIPLE BOX CULVERT	
STA. 151+40	
INLET AND OUTLET DETAILS	
SUBMITTED: <i>SMould</i> CHIEF, DESIGN SECTION, REG. C.E. NO. 8477 APPROVAL RECOMMENDED: <i>SMould</i> CHIEF, D.E.C. BRANCH, SO. DIST. REG. C.E. NO. 7182 APPROVAL RECOMMENDED: <i>SMould</i> DISTRICT ENGINEER, DIST. REG. C.E. NO. 834, ALUC	APPROVED: _____ DATE: JUL 24 1959 <i>J. J. Wilson</i> CHIEF, DESIGN BRANCH, D.E.C. REG. C.E. NO. 7287 DRAWING NO. N-27C2-4 SHEET NO. 76

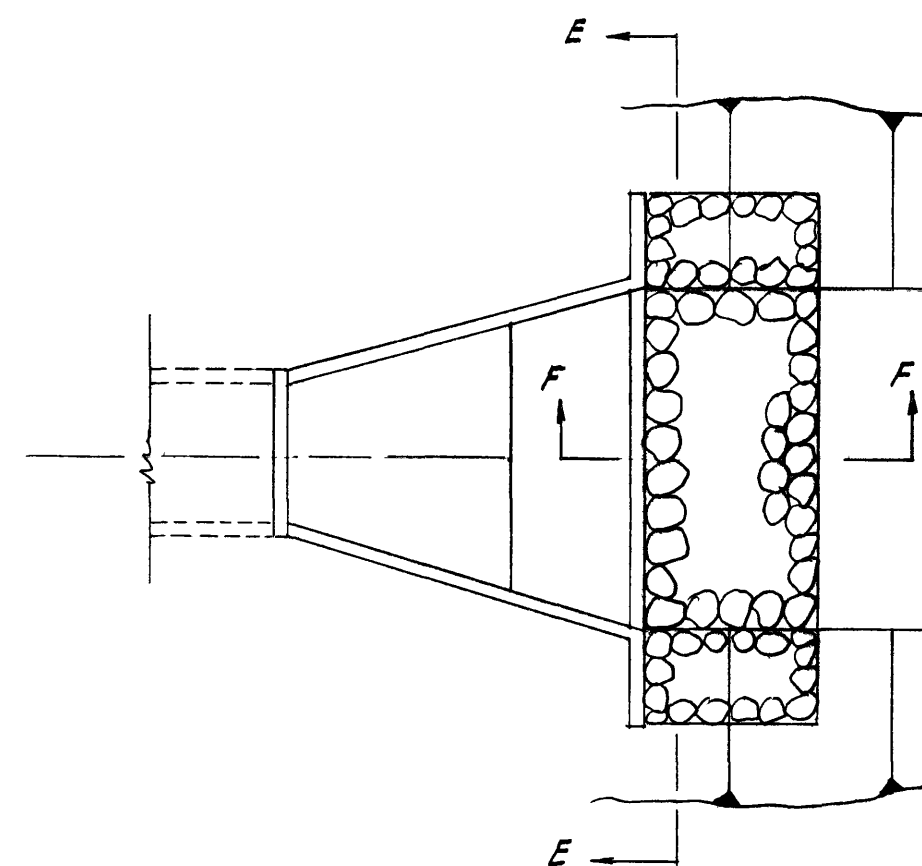
SPEC. No. 68-46



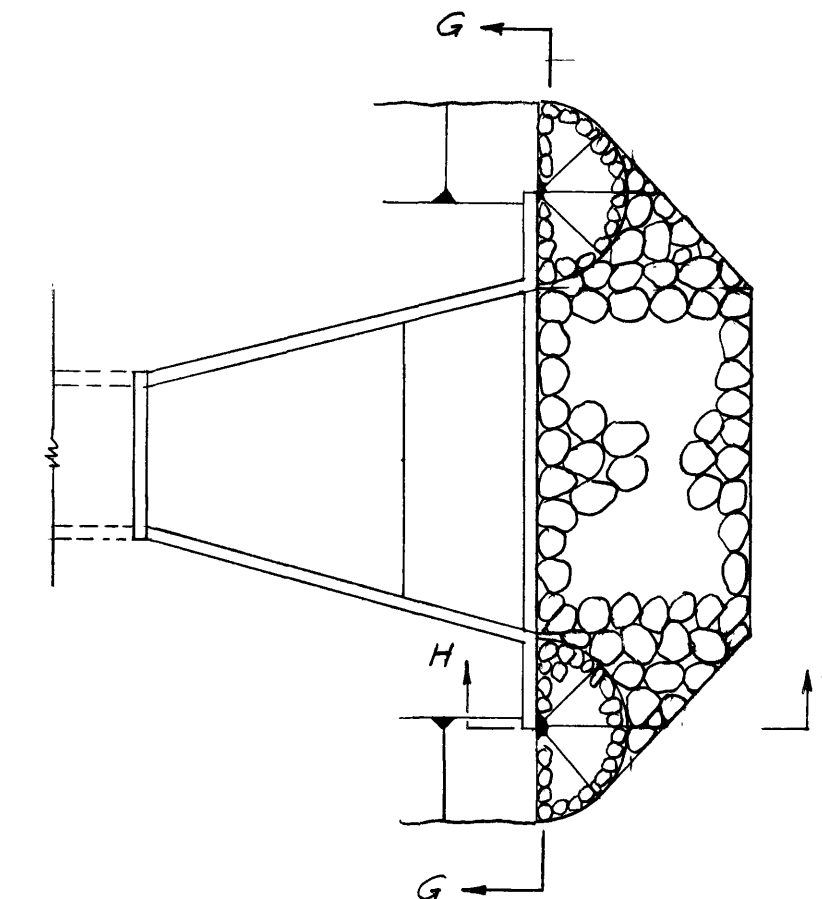
PLAN



PLAN



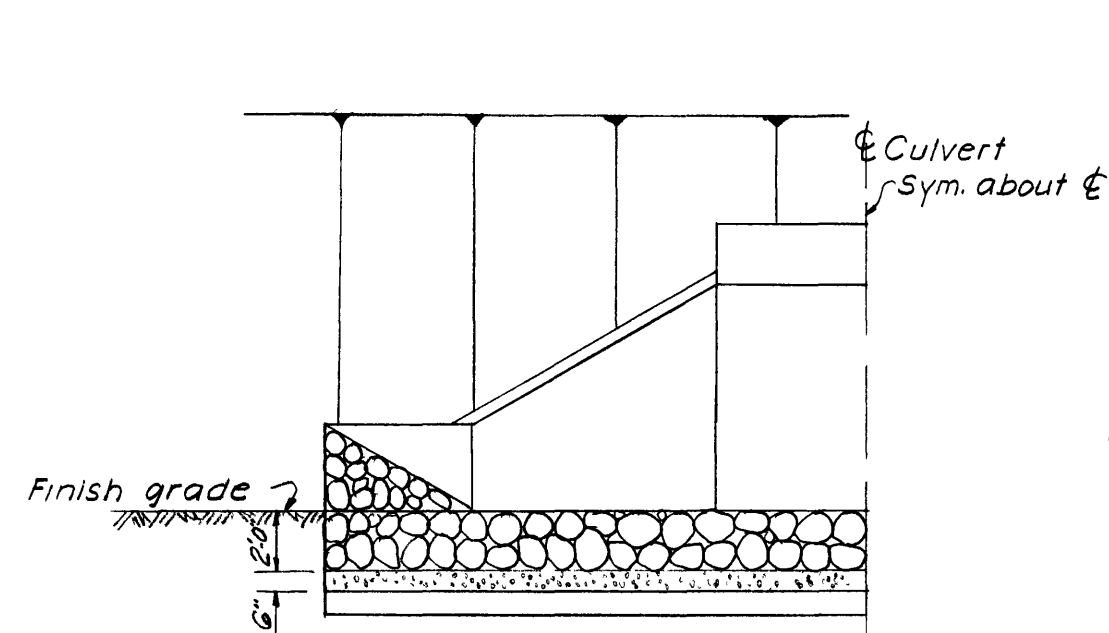
PLAN



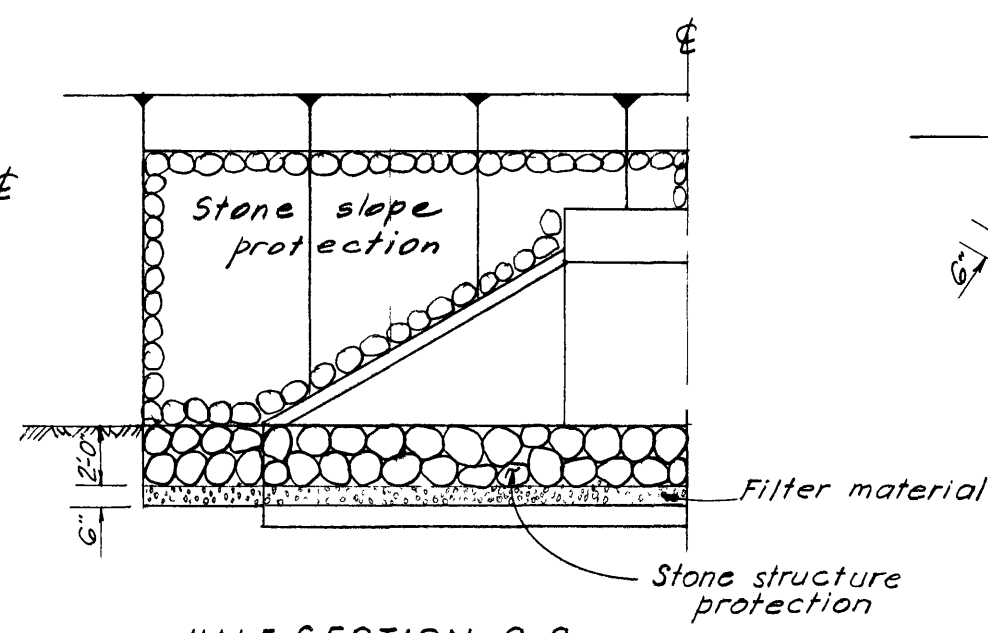
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INLET STONE PROTECTION
Not to Scale

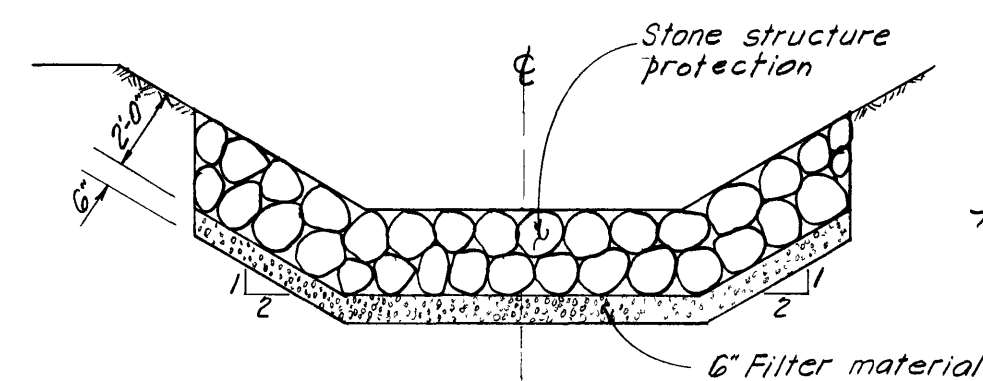
OUTLET STONE PROTECTION
Not to Scale



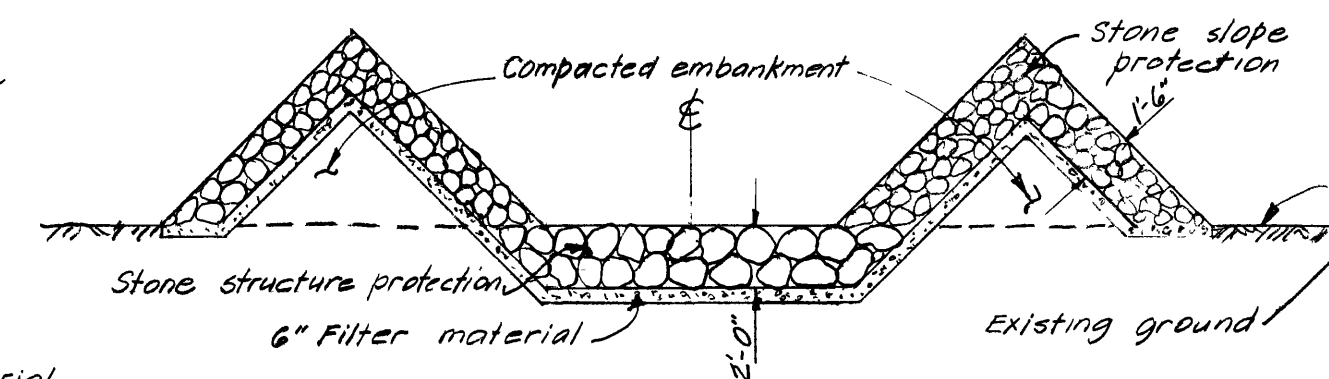
HALF SECTION A-A



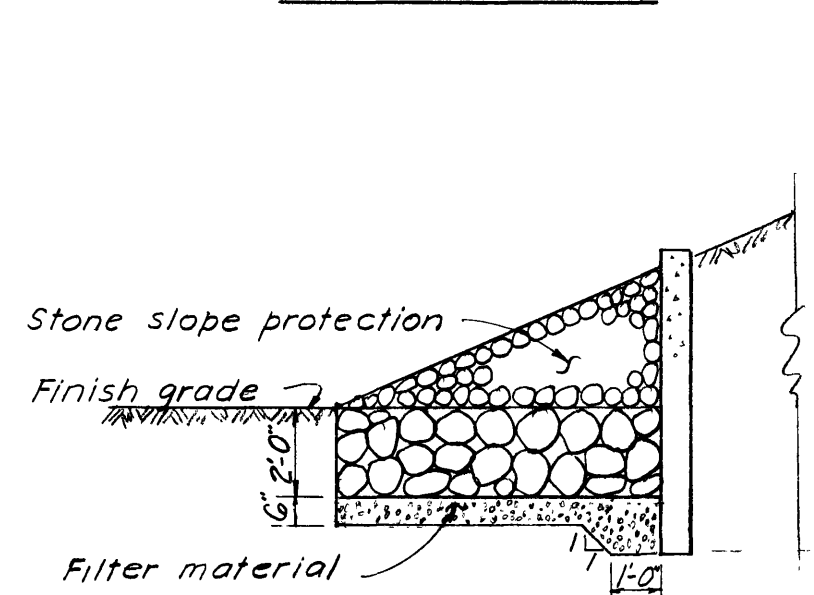
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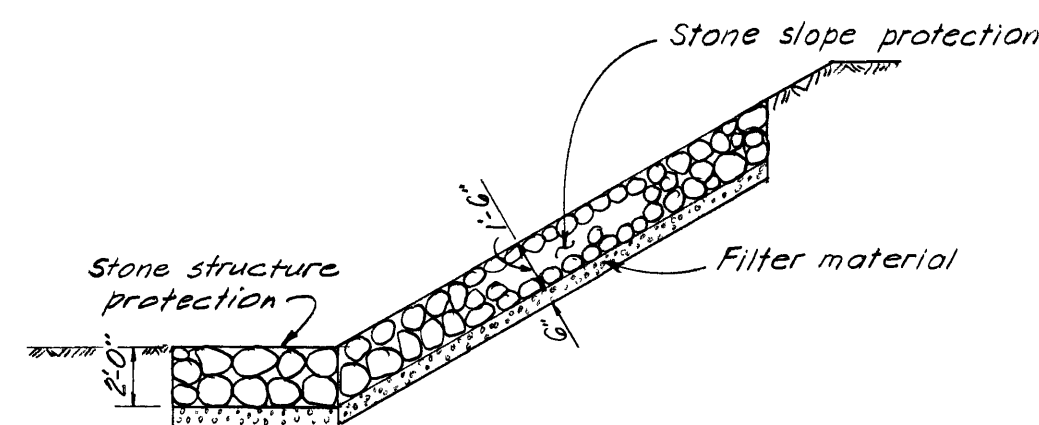
SECTION E-E



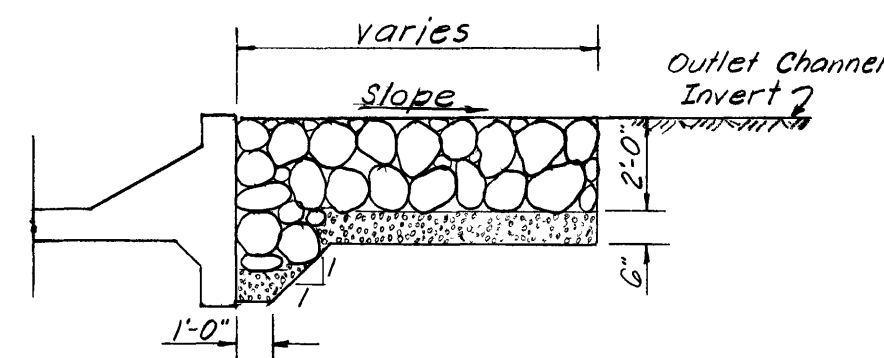
SECTION G-G



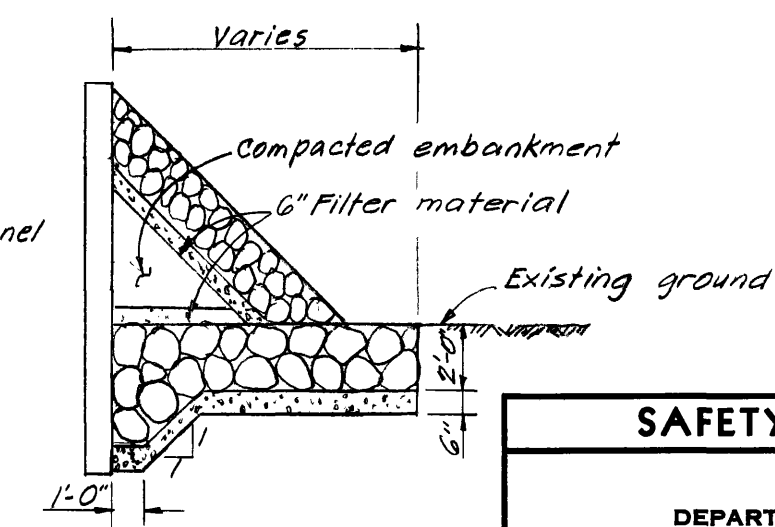
SECTION B-B



SECTION D-D



SECTION F-F



SECTION H-H

SAFETY — as Necessary as WATER	
STATE OF CALIFORNIA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES DIVISION OF DESIGN AND CONSTRUCTION	AS BUILT APR 15 1977
STATE WATER FACILITIES CALIFORNIA AQUEDUCT MOJAVE DIVISION CANAL — STA 1+64.10 TO STA. 955+91.27 STA. "P" 0+00 TO STA. "P" 29+00	
CULVERT STONE PROTECTION DETAILS	
SUBMITTED: <i>See above</i>	APPROVED: <i>See above</i> DATE: JUL 24 1968
CHIEF, DESIGN SECTION REG. C. E. NO. 8477	CHIEF, DESIGN BRANCH, D & C REG. C. E. NO. 1237
APPROVAL RECOMMENDED: <i>See above</i>	DRAWING NO. N-27C7-1
CHIEF, DIST. BRANCH, D & C REG. C. E. NO. 2192	SHEET NO. 101
APPROVAL RECOMMENDED: <i>See above</i>	
DISTRICT ENGINEER, SO. DIST. REG. C. E. NO. 6200	

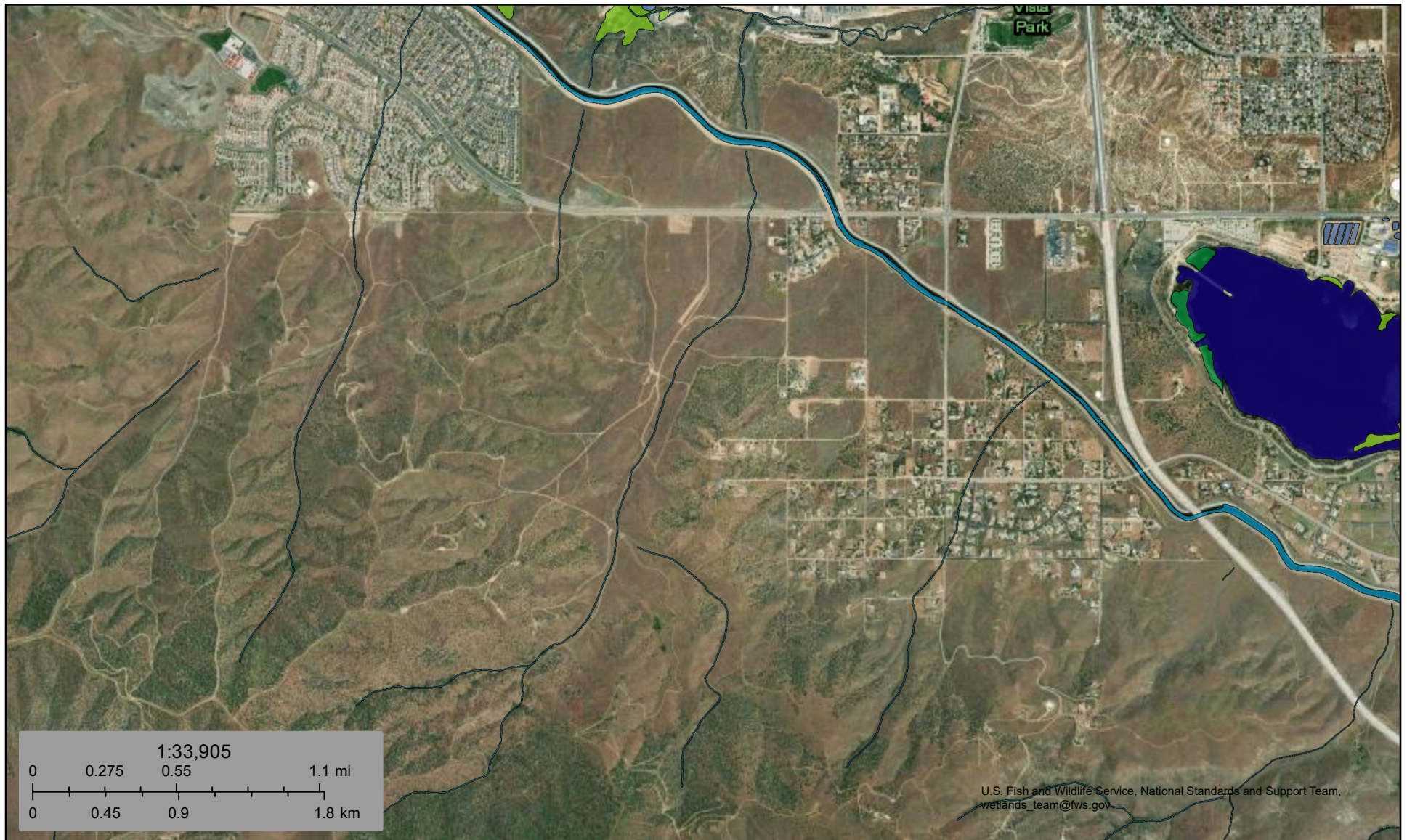
REVIEWED — STAFF ENGINEERING, BR.	REVIEWED BY DESIGN	REVIEWED
DATE: 3-4-77	DATE: 3-4-77	DATE: 3-4-77
BY: <i>See above</i>	DRAWN: <i>See above</i>	CHECKED: <i>See above</i>
DATE: 3-4-77	DATE: 3-4-77	DATE: 3-4-77



U.S. Fish and Wildlife Service

National Wetlands Inventory

Riverine Systems near SCH No. 20241000



December 12, 2024

Wetlands

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.