48 7012 IMPERIAL™ TRACING CLOTH
K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
B.M.s NOTED
STRUCTURE NOTATIONS CH'KD
NO.
BY
DATE

GENERAL NOTES:

1. Construction shall be in accordance with the City of Riverside Department of Public Works, Standard Specification No. 461 and Standard Drawings

2. It shall be the responsibility of the contractor to clear the right of Way in accordance with the provision of the law as it affects each utility including Irrigation Lines and appurtenance, and at no cost to the City.

3. 1/2" Expansion joints shall be provided in Gunite paving, every 50' or as directed in the field.

Estimate of Quantity

1.	R.C.C. for Box Culv.	92.6	Cu. Yds.
2.	Gunite w/4"x4"-10x10 W.W.M.	23400	Sq ft Δ
3.	Chain Link Fence w/3 Gates	1540	Lin ft
4.	15" R.C.P	25	Lin ft
5.	Excavation	2800	Cu. yds
6.	Gravel for Weep Holes	10	Cu. yds
7.	Rip Rap (Size: 6" min)	400	Sq ft (Approx)

* Grading letter has been obtained from Property owner

Bench Mark: Spike in Pole #1171J N'ly side of Columbia Ave 332'± W'ly from Inter Columbia Ave & Main St.
Elev: 814.535 F.B. G31/5

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

HUGH M. GALLAHER
CIVIL ENGINEER
RIVERSIDE, CALIFORNIA

Approved by *Hugh M. Gallaher* Date 3/15/66
R.C.E. No. 7304

W.O. E-1082 F.B. 31/5-9

MARK	REVISIONS	APPR.	DATE
Δ	Alternate 4" Class "B" P.C.C. John H. Hacker R.C.E. 14614		11-12-68

DESIGNED BY R.E.B. DRAWN BY F.H.H. CHECKED BY Bob S.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER	CER	4-27
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY ENG.		4-28 / 4-27

APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 4-29-66

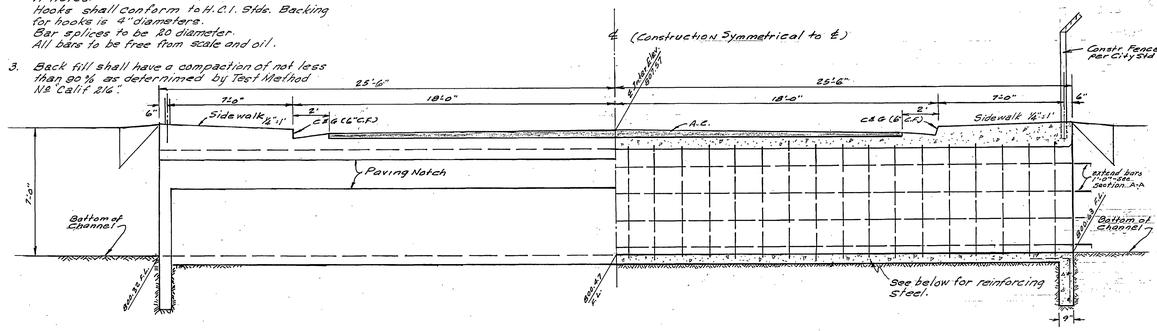
PLAN & PROFILE
SPRINGBROOK STORM DRAIN
SPRINGBROOK ESTATES
M.B. 38/48-49

HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'

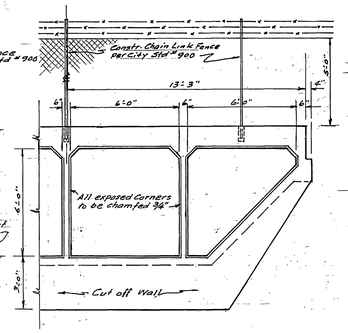
PROJECT NO.
D-39
SHEET 1 OF 2

Specifications

1. Concrete shall be Class "A"
2. Reinforcement shall consist of round deformed bars.
   Embedment is 1¼ x Dia. clearance, min. 1" except if noted.
   Hooks shall conform to H.C.I. Stds. Backing for hooks is 4" diameters.
   Bar splices to be 20 diameter.
   All bars to be free from scale and oil.
3. Back fill shall have a compaction of not less than 90 % as determined by Test Method No. Calif 216.



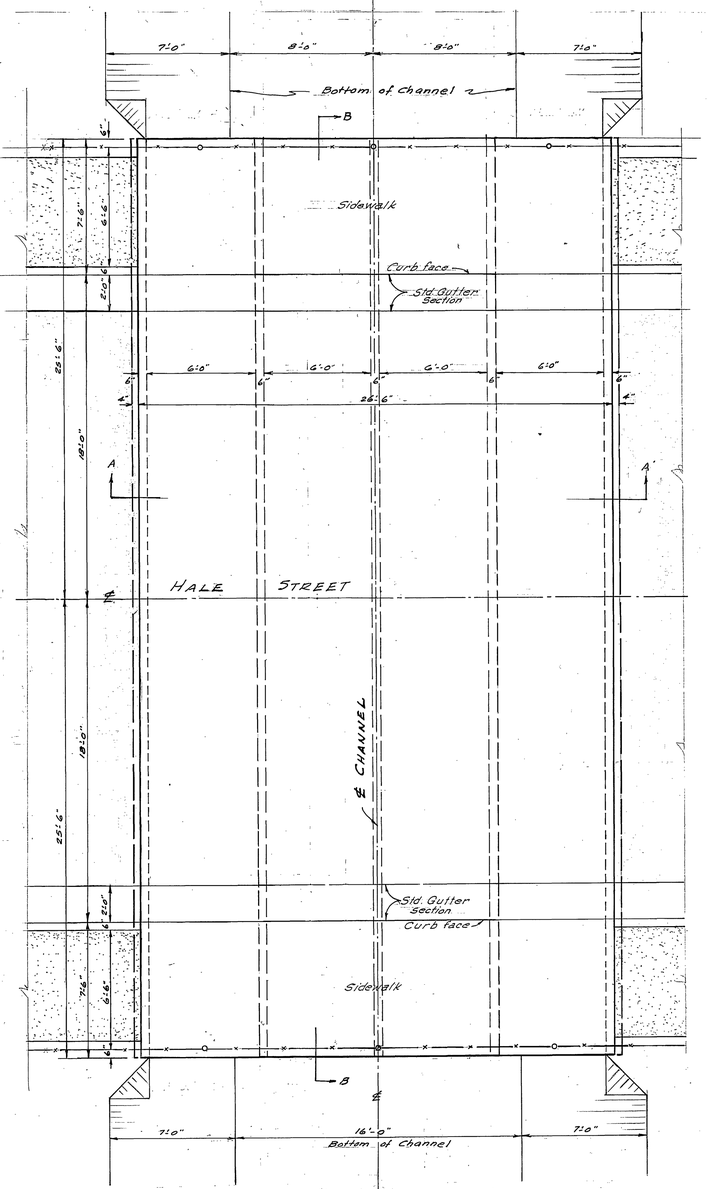
W'ly HALF ELEVATION



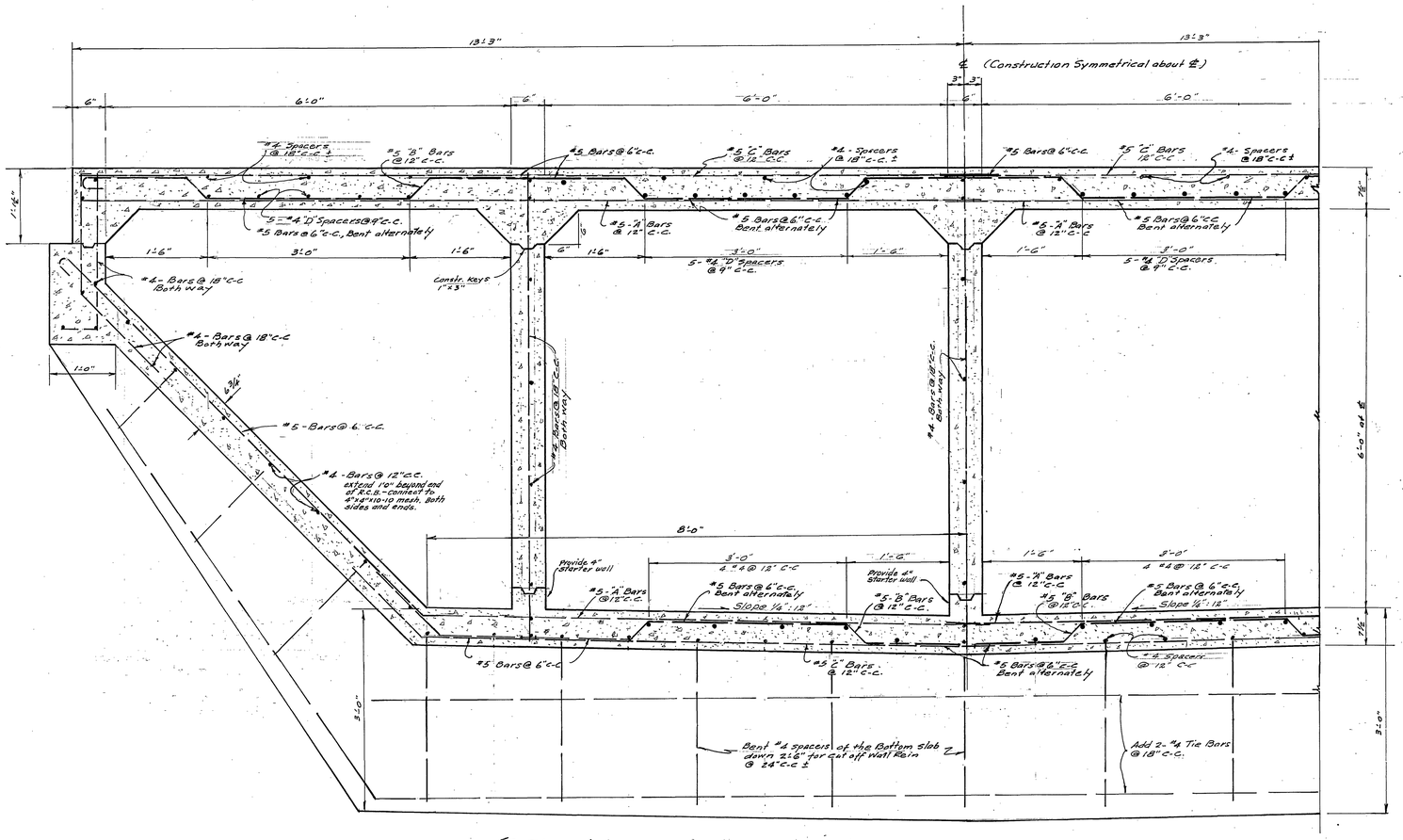
HALE END ELEVATION
Scale ½"=1'-0"

SECTION "B-B"

Scale: ½"=1'-0"



PLAN
Scale ½"=1'-0"



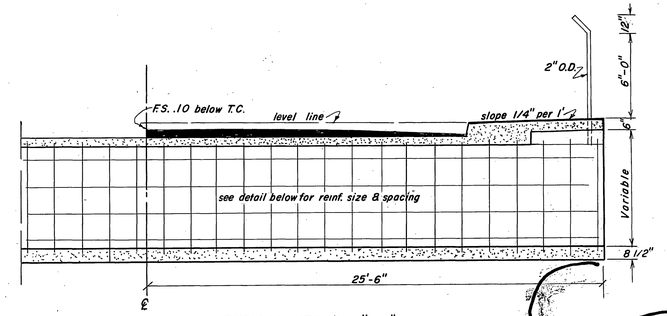
SECTION A-A
Detail for Reinforcement
Scale 1"=1'-0"

BENCH MARK — Spike in pole "11711 N'ly side at Columbia Ave. 332' ± W'ly from Inter. Columbia Ave. & Main St.
Elev. 814.533 F.B. 63/15

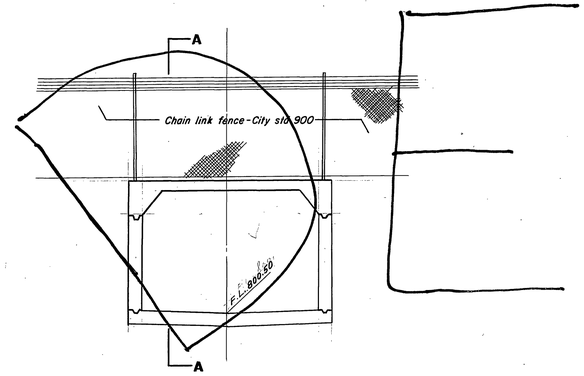
HUGH M. GALLAHER CIVIL ENGINEER RIVERSIDE, CALIFORNIA Approved by Hugh M Gallaher Date 3/15/66 R.C.E. No. 7304	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY — DATE OFFICE ENGINEER — CBR 6-27 PARK DEPARTMENT — — TRAFFIC DIVISION — — ASSISTANT CITY ENG. — Hugh 4-28, Hans 6-27 Hugh APPROVED BY J. Hamilton DIRECTOR OF PUBLIC WORKS DATE 4-29-66	REINFORCED BOX CULVERT SPRINGBROOK STORM DRAIN HALE STREET CROSSING SPRINGBROOK ESTATES M.B. 38/48,49
MARK REVISIONS APPR. DATE		PROJECT NO. D-39
W.O. E-1082 F.B. 31/5-9	DESIGNED BY H.S. DRAWN BY F.H.H. CHECHED BY H.S.	SCALE: AS NOTED SHEET 2 OF 2

SPECIFICATIONS

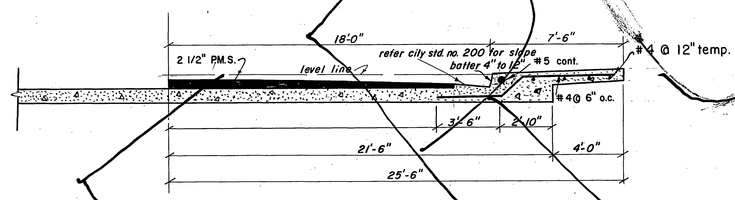
(1) RIVERSIDE CITY STD. SPECIFICATIONS No. 461
CLASS "A" PORTLAND CEMENT CONCRETE
f_s = 20,000



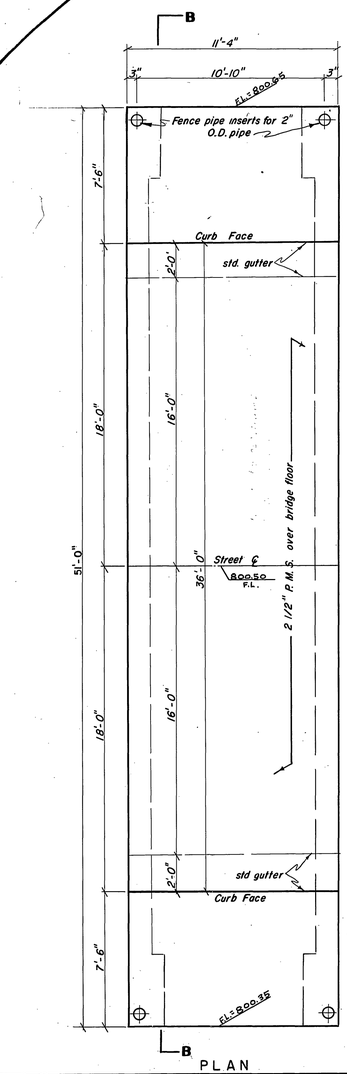
TYPICAL SECTION "A-A"
1/4" = 1'



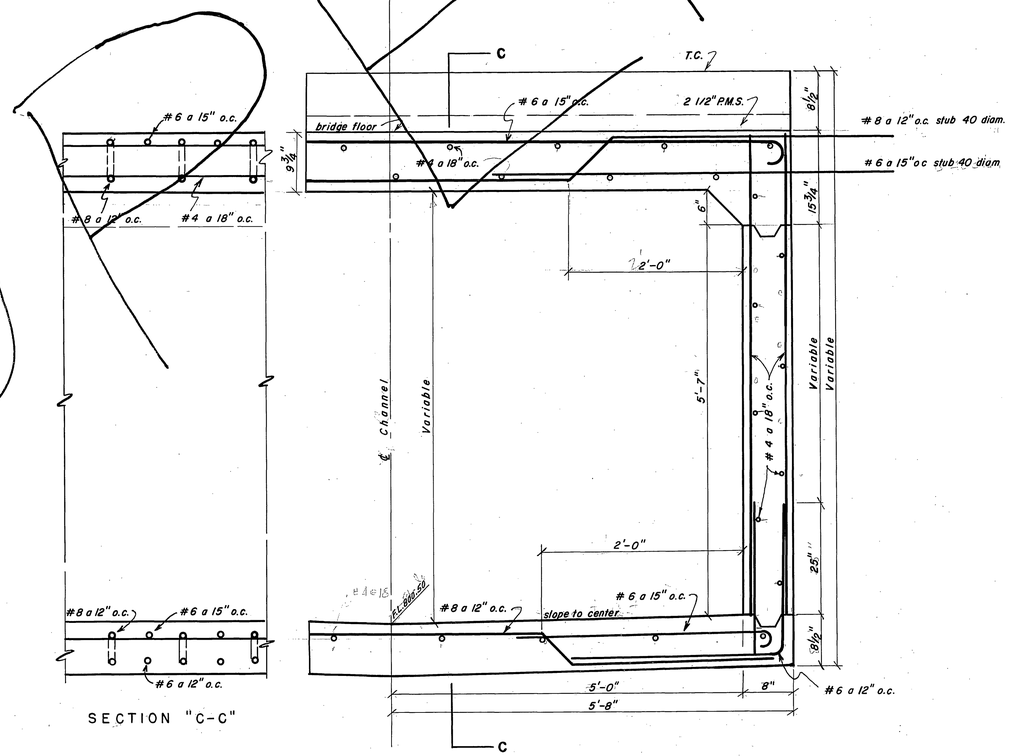
TYPICAL CROSS SECT.
1/4" = 1"



TYPICAL SECTION "B-B"
1/4" = 1'-0"



PLAN



DETAIL SECTION
Scale 1" = 1'-0"

SECTION "C-C"

SUPERSEDED

REVISIONS

MARK	DATE	DESCRIPTION
(1)	11-26-62	SPECIFICATIONS

DESIGNED BY
DRAWN BY
CHECKED BY
RECOMMENDED BY
ASSISTANT CITY ENGINEER

J. F. DAVIDSON-CIVIL ENGINEER
R.E. NO. 862
RIVERSIDE, CALIFORNIA
APPROVED BY J. F. Davidson DATE 11-27-62

RIVERSIDE ENGINEERING CO. INC.
RIVERSIDE CALIFORNIA
APPROVED L. Irving Marshall C.E. DATE 8-24-59

CITY OF RIVERSIDE CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

BOX CULVERT AT HALE ST. & SPRINGBROOK
STORM DRAIN

SPRINGBROOK ESTATES UNIT NO. ONE
Scale ___ As Noted ___

APPROVED:
DIRECTOR OF PUBLIC WORKS
Date: Sept. 30, 1959

NO. D-39
Sheet 1 of 1

INDEXED R.H. INDEXED