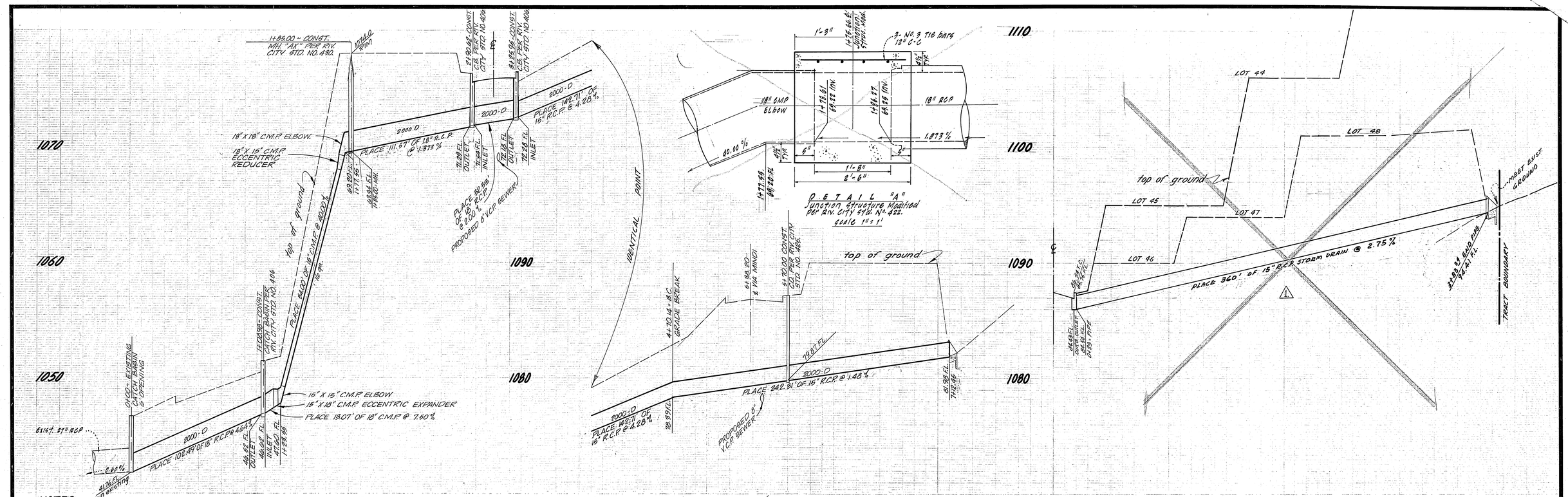
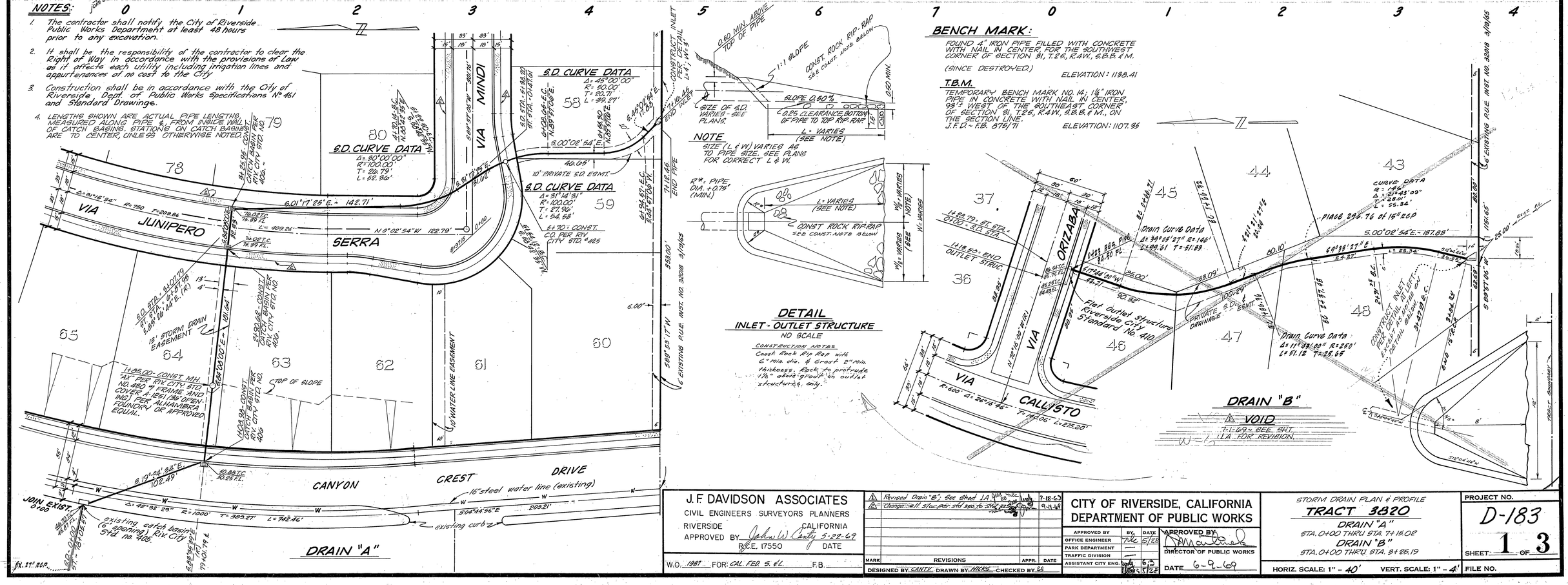
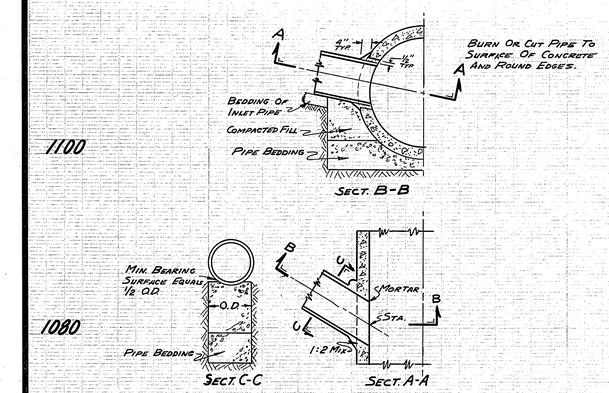
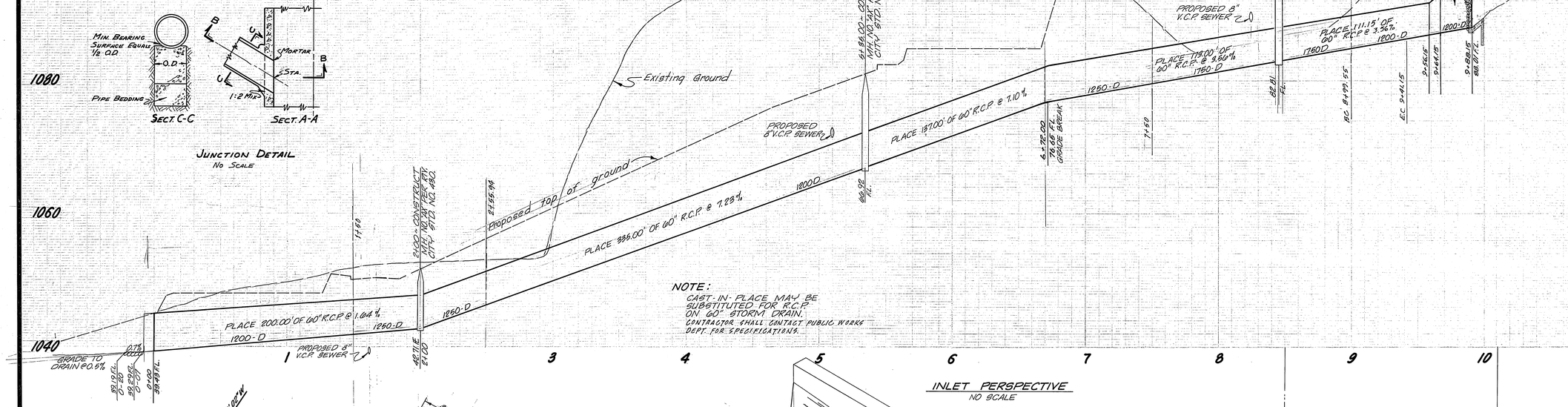

1+88.00 ~ CONST. MH. "A" PER RIV. CITY STD. NO. 480.
1070
1060
1050
1090
1080
1110
1100
18" X 18" C.M.P. ELBOW.
18" X 15" C.M.P. ECCENTRIC REDUCER
PLACE 111.57' OF 18" R.C.P. @ 1.873 %
2000-D
6000-D
PLACE 142.71' OF 15" R.C.P. @ 4.20 %
PLACE 84.00' OF 18" C.M.P. @ 8.00 %
top of ground
IDENTICAL POINT
EXIST. 27" RCP
JOIN EXISTING
PLACE 102.49' OF 18" R.C.P. @ 4.04 %
0.80 %
16" X 15" C.M.P. ELBOW
15" X 18" C.M.P. ECCENTRIC EXPANDER
PLACE 130.7' OF 18" C.M.P. @ 7.60 %
PROPOSED 6" V.C.P. SEWER
PLACE 242.31' OF 15" R.C.P. @ 1.45 %
4+10.14 ± BEG. GRADE BREAK
4+88.80 ± END MINOR
DETAIL "A"
Junction Structure Modified per R.I.V. City Std. No. 422.
SCALE 1" = 1'
3 - No. 3 TIE bars 12" C-C
18" CMP ELBOW
18" RCP
40.00 %
1.873 %
2'-6"
1'-8"
5"
2"
LOT 44
LOT 48
LOT 45
LOT 47
LOT 46
top of ground
MEET EXIST. GROUND
PLACE 360' OF 15" R.C.P. STORM DRAIN @ 2.75 %
TRACT BOUNDARY
21.83 ± E.G.
24.41 F.L.
24.49 F.L.
D-129 TYP.E
1" = 40'
1" = 4'


NOTES:
1. The contractor shall notify the City of Riverside Public Works Department at least 48 hours prior to any excavation.
2. It shall be the responsibility of the contractor to clear the Right of Way in accordance with the provisions of Law as it affects each utility including irrigation lines and appurtenances at no cost to the City.
3. Construction shall be in accordance with the City of Riverside, Dept. of Public Works Specifications No. 461 and Standard Drawings.
4. LENGTHS SHOWN ARE ACTUAL PIPE LENGTHS, MEASURED ALONG PIPE & FROM INSIDE WALL OF CATCH BASINS. STATIONS ON CATCH BASINS ARE TO CENTER, UNLESS OTHERWISE NOTED.
JOIN EXIST. 0+00
VIA JUNIPERO
SERRA
CANYON
CREST
DRIVE
VIA MINDI
VIA CALISTO
VIA ORIZABA
S.D. CURVE DATA
Δ = 30°00'00"
R = 100.00'
T = 26.79'
L = 52.36'
Δ = 31°16'54"
R = 750'
T = 209.86'
L = 409.26'
Δ = 31°14'31"
R = 100.00'
T = 27.96'
L = 54.53'
Δ = 45°00'00"
R = 50.00'
T = 20.71'
L = 39.27'
Δ = 42°52'29"
R = 1000'
T = 389.27'
L = 748.46'
Δ = 25°18'46"
R = 600'
T = 148.05'
L = 265.20'
S.D. CONSTRUCT INLET PER CITY STD. NO. 302 TYPE "B" DETAIL B-2 OR B-3
S.D. CONSTRUCT CATCH BASIN PER CITY STD. NO. 400.
CONSTRUCT MH. "A" PER RIV. CITY STD. NO. 480.
CONSTRUCT CATCH BASIN PER RIV. CITY STD. NO. 406.
CONSTRUCT JUNCTION STRUCTURE PER RIV. CITY STD. NO. 422.
CONSTRUCT CATCH BASIN PER RIV. CITY STD. NO. 400.
10' PRIVATE S.D. ESMT.
18' STORM DRAIN EASEMENT
6" EXISTING P.U.E. INST. NO. 32018 3/19/65
6" EXISTING WATER LINE EASEMENT
16" steel water line (existing)
existing curb
existing catch basin (6" opening) Riv. City Std. no. 406.
TOP OF SLOPE
END KILL
END PIPE
CONSTRUCT INLET PER CALTRANS DETAIL D-87 (Type G) L = 4', W = 3'
0.60 MIN. ABOVE TOP OF PIPE
1:1 SLOPE
CONST. ROCK RIP-RAP SEE CONST. NOTE BELOW
SLOPE 0.60 %
0.60 MIN.
SIZE OF S.D. VARIES - SEE PLANS.
0.25 CLEARANCE BOTTOM OF PIPE TO TOP RIP-RAP
L = VARIES (SEE NOTE)
NOTE
SIZE (L & W) VARIES AS TO PIPE SIZE. SEE PLANS FOR CORRECT L & W.
R* PIPE DIA. + 0.75' (MIN.)
L = VARIES (SEE NOTE)
W = VARIES (SEE NOTE)
CONST ROCK RIP-RAP SEE CONST. NOTE BELOW
DETAIL
INLET - OUTLET STRUCTURE
NO SCALE
CONSTRUCTION NOTES
Const. Rock Rip Rap with 6" min. dia. & Grout 2" min. thickness. Rock to protrude 1½" above grout on outlet structures, only.
BENCH MARK:
FOUND 4" IRON PIPE FILLED WITH CONCRETE WITH NAIL IN CENTER, FOR THE SOUTHWEST CORNER OF SECTION 31, T.2S., R.4W., S.B.B. & M.
(SINCE DESTROYED.)
ELEVATION: 1138.41
T.B.M.
TEMPORARY BENCH MARK NO. 14; 1½" IRON PIPE IN CONCRETE WITH NAIL IN CENTER, 99'± WEST OF THE SOUTHEAST CORNER OF SECTION 31, T.2S., R.4W., S.B.B. & M., ON THE SECTION LINE.
J.F.D. - F.B. 878/11
ELEVATION: 1107.86
Drain Curve Data Δ = 90°05'27" R = 100' L = 99.61 T = 51.83
Drain Curve Data Δ = 11°29'00" R = 250' L = 51.12 T = 25.65
Curve Data Δ = 14°43'09" R = 250' L = 58.84
PLACE 290.76 of 15" RCP
S 00°02'54" E - 187.83'
Flat Outlet Structure Riverside City Standard No. 410
DRAIN "B"
⚠ VOID
7-1-69 ~ SEE SHT. 11A FOR REVISION.
DRAIN "A"
W = 15
J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
RIVERSIDE CALIFORNIA
APPROVED BY [signature] R.C.E. 17550 DATE 5-22-69
W.O. 1987 FOR: CAL. FED. S. & L. F.B.
⚠ Revised Drain "B"; See sheet 11A 7-18-69
⚠ Change "all" Struc. per Std 399.76 9-9-69
MARK REVISIONS APPR. DATE
DESIGNED BY CANTY DRAWN BY HICKS CHECKED BY DA
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY / DATE
OFFICE ENGINEER 5/23
PARK DEPARTMENT —
TRAFFIC DIVISION —
ASSISTANT CITY ENG. 6/3
DIRECTOR OF PUBLIC WORKS
DATE 6-9-69
STORM DRAIN PLAN & PROFILE
TRACT 3820
DRAIN "A"
STA. 0+00 THRU STA. 7+16.02
DRAIN "B"
STA. 0+00 THRU STA. 3+25.19
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'
PROJECT NO. D-183
SHEET 1 OF 3
FILE NO.

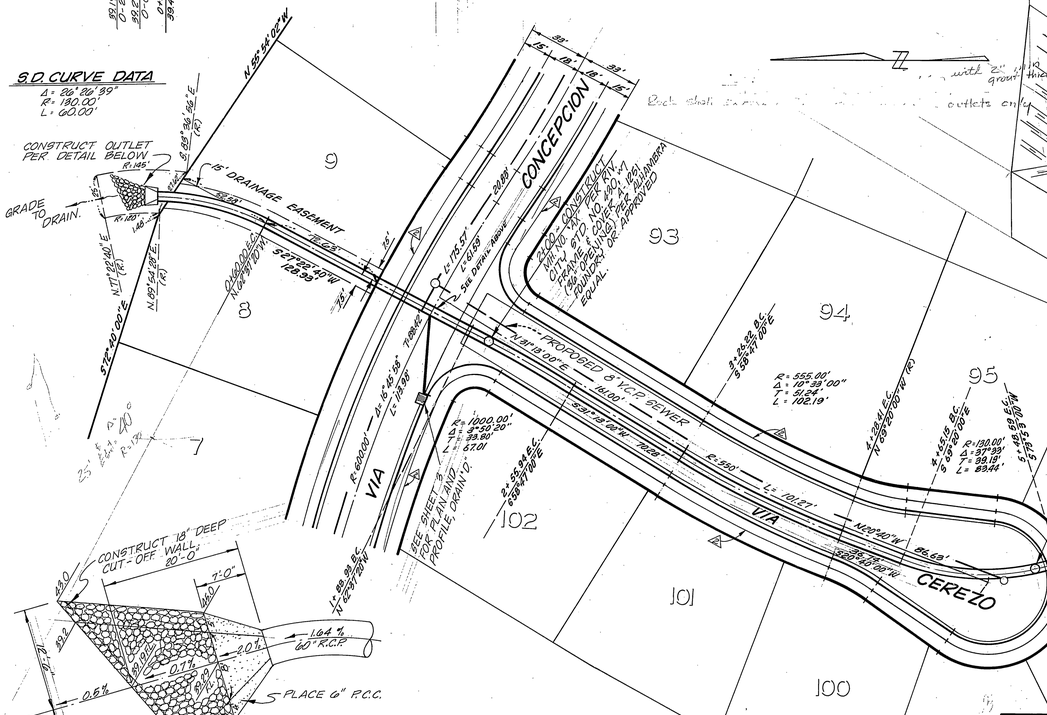


Junction Detail
No Scale

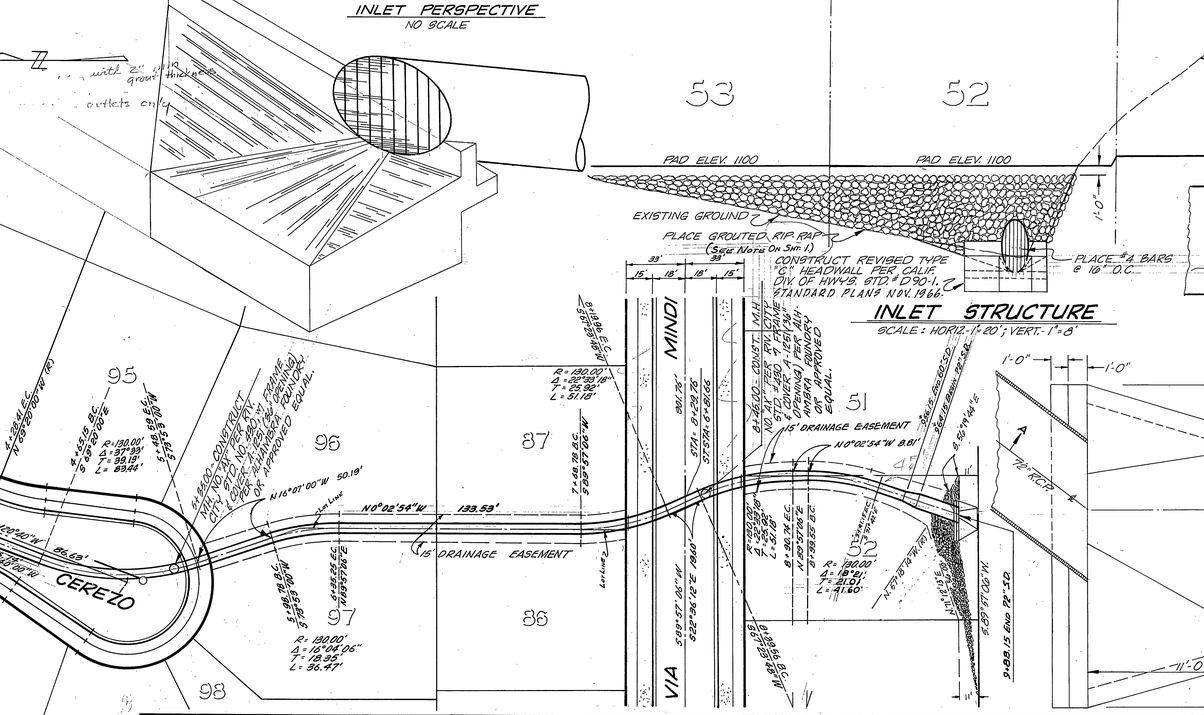


Note:
Cast-in-place may be substituted for R.C.P. on 60" storm drain. Contractor shall contact Public Works Dept. for specifications.

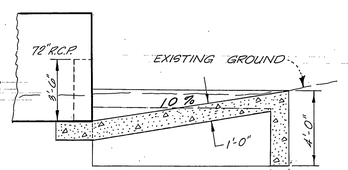
Inlet Perspective
No Scale



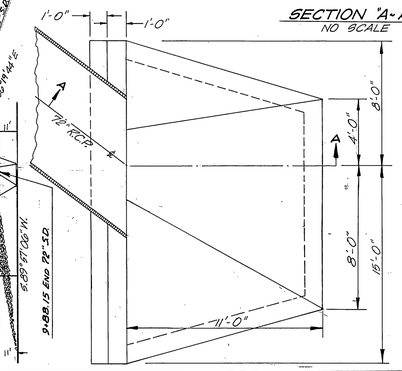
Outlet Structure
No Scale



Inlet Structure
Scale: Horiz. 1" = 20'; Vert. 1" = 8'



Section "A-A"
No Scale



Plan View
No Scale

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
RIVERSIDE CALIFORNIA
APPROVED BY John W. Canby 2-20-69
R.C.E. 17550 DATE

W.O. 1987 FOR: CAL FED S & L. F.B.

MARK	REVISIONS	APPR.	DATE
1	Changed width of Outlet Structure not to correct error	JW	6-18-69
2	Change all Sta. 56+61.350 to Sta. 56+61.15	JW	6-18-69

DESIGNED BY CANTY DRAWN BY HICKS CHECKED BY BB

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

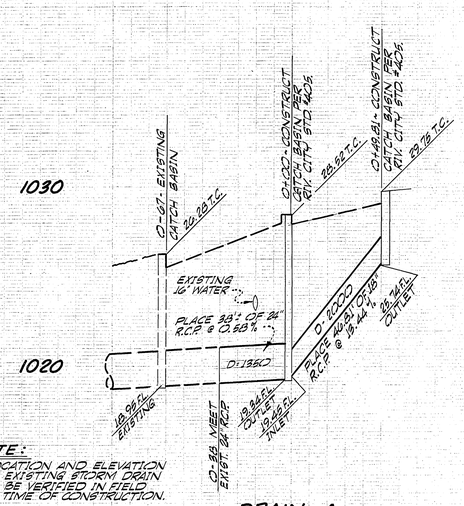
APPROVED BY	BY	DATE
OFFICE ENGINEER	[illegible]	5/28
PARK DEPARTMENT	—	
TRAFFIC DIVISION	—	
ASSISTANT CITY ENG.	[illegible]	6/9

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6-9-69

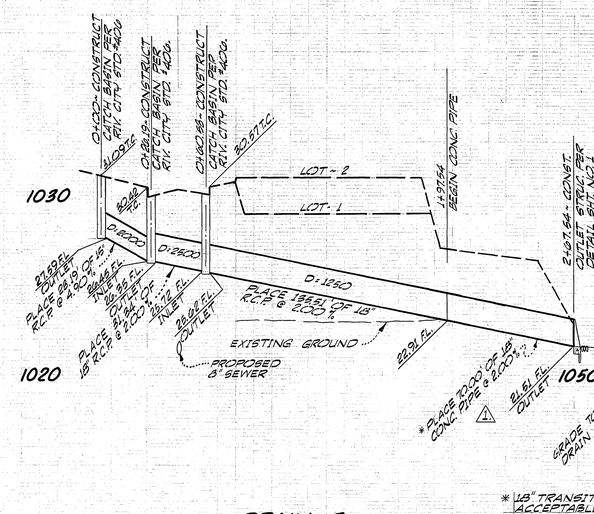
STORM DRAIN PLAN & PROFILE
TRACT 3820
60" R.C.P. OR CAST IN PLACE
STA. 0+00 THRU STA. 9+88.15

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 8'

PROJECT NO. D-183
SHEET 2 OF 3
FILE NO.

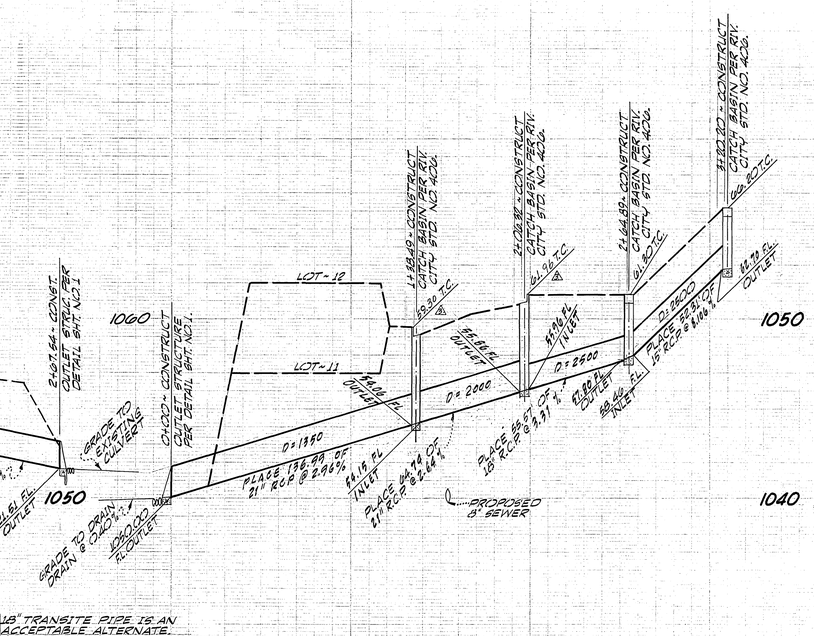


DRAIN - A

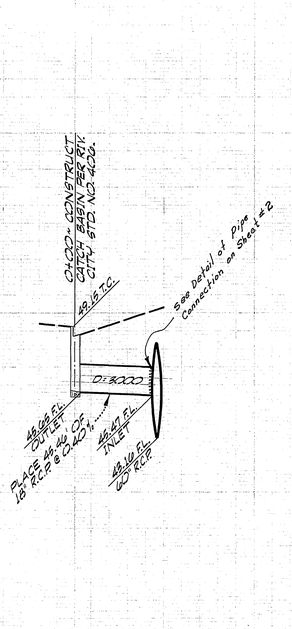


DRAIN - B

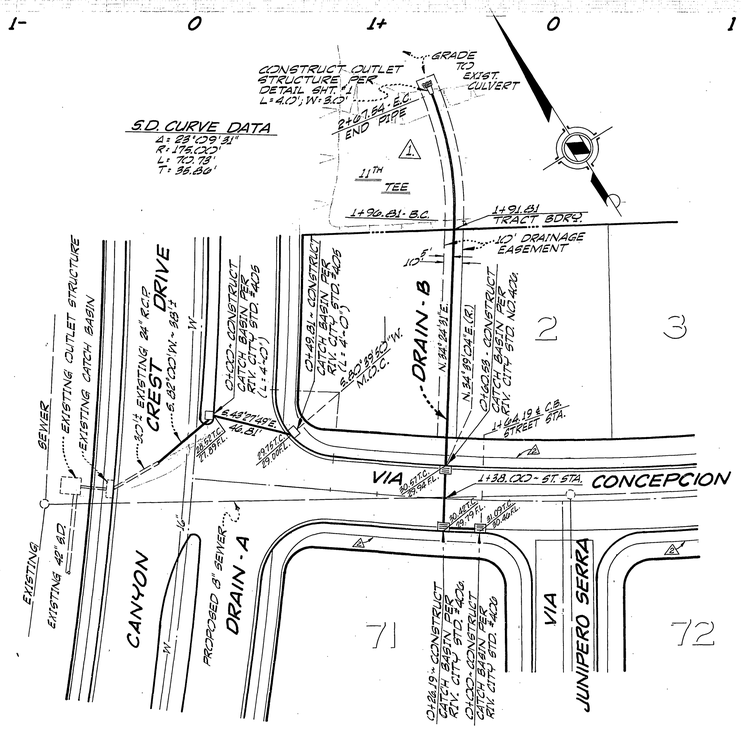
* 18" TRANSITE PIPE IS AN ACCEPTABLE ALTERNATE. (CLASS 1600)

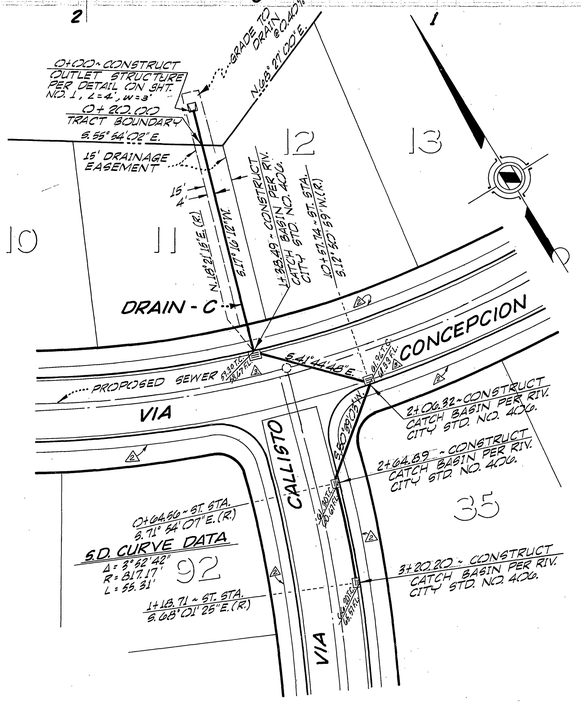


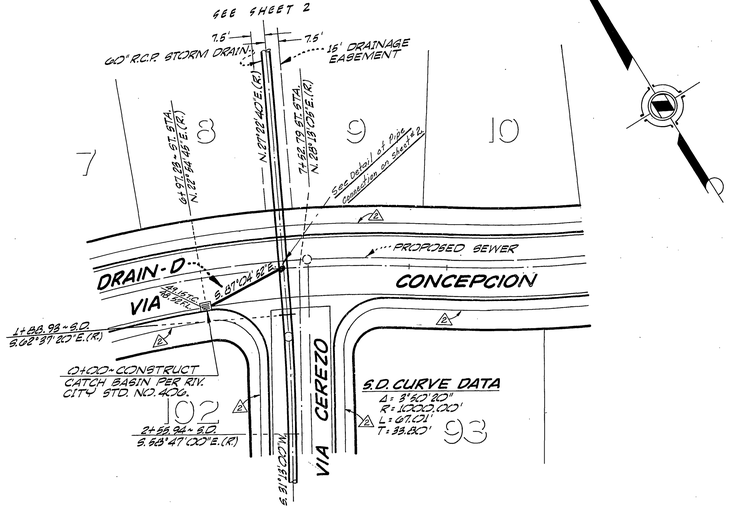
DRAIN - C



DRAIN - D

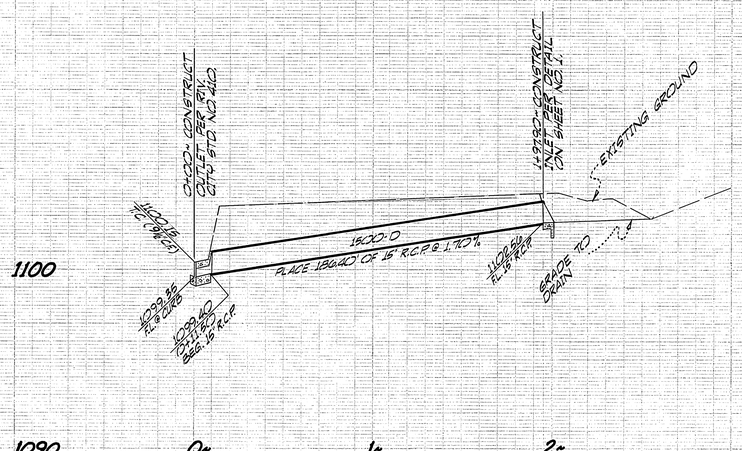


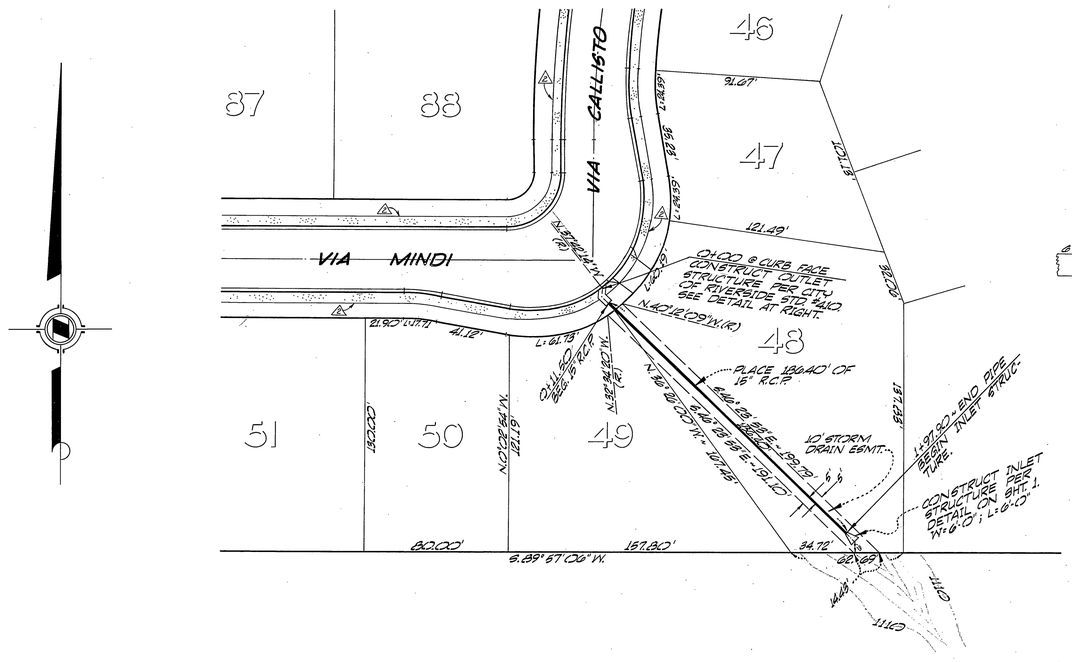


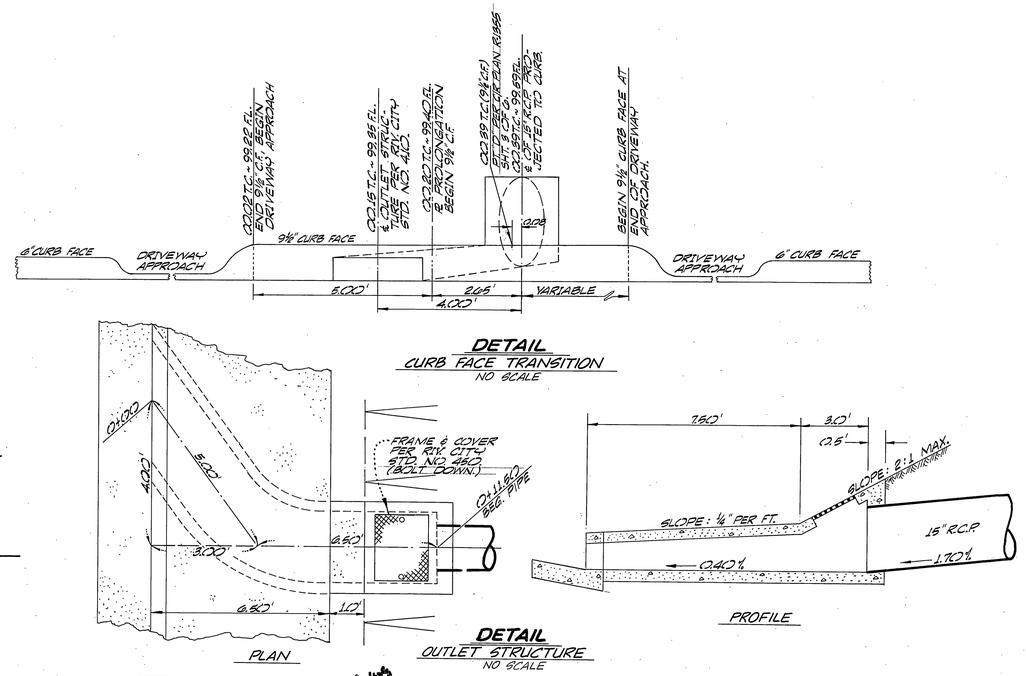


Extend Drain B to

J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS RIVERSIDE CALIFORNIA APPROVED BY John W. Conley 3-3-69 R.C.E. 17550 DATE	1 Extended Drain "B" under 11th Tee 6-9-69 WJC 2 Change o/l Struct STA 1+90 to STA 1+91 6-9-69 3 Raised grade of curb to clear rock 1-20-70	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY / DATE OFFICE ENGINEER 6/25 PARK DEPARTMENT — TRAFFIC DIVISION — ASSISTANT CITY ENG. 6-9 DIRECTOR OF PUBLIC WORKS DATE 6-9-69	STORM DRAIN PLAN & PROFILE TRACT 3820 DRAIN - A O-67 THRU O+98.98 DRAIN - B O+00 THRU 1+67.00 DRAIN - C O+00 THRU 3+10.70 DRAIN - D O+00 THRU 0+45.46 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'	PROJECT NO. D-183 SHEET 3 OF 3 FILE NO. 2735K
W.O. 1987 FOR: CAL. FED. F.B.	MARK REVISIONS APPR. DATE DESIGNED BY ROD DRAWN BY ROD CHECKED BY JOHN		







J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA

APPROVED BY John W. Canty DATE 7-9-69
R.E. No. 17550

W.O. 1987 FOR: CAL. FED. S. & L. ASSOC. F.B.

MARK	REVISIONS	APPR.	DATE
A	Change all sta. shld # 380 to sta. # 325	WJH	9-16-69

DESIGNED BY ROD DRAWN BY ROD CHECKED BY GK

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER	WJH	7/18
PARK DEPARTMENT		
TRAFFIC DIVISION		
ASSISTANT CITY ENG.		7-18

APPROVED BY William D. Gardner
DIRECTOR OF PUBLIC WORKS
DATE 7/18/69

STORM DRAIN PLAN AND PROFILE
TRACT 3820
DRAIN "B"
(REVISED)
STA. 0+00 THRU STA. 1+98.90

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. D-183

SHEET 1A OF 3

FILE NO. 2735