PLATE 1 - PLAN - PROFILE O. P. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

K & E CO. No. 348-IC
MADE IN U.S.A.
80538

PROFILE

SURVEYED		
PLOTTED		
GRADES CHECKED		
NOTE BOOK		
B. M.'S NOTED		
STRUCTURE NOTATIONS CHECKED		
NO.	BY	DATE

B.M. ELEV. 816.51', S.& L. IN N.CB. MARMIAN WAY 5' W. OF W. ℄ PALM AVE.
B.M. ELEV. 817.51', S.& L. IN N. CB. CENTRAL AVE. 38' W. OF W. CB. PALM AVE.
F. B. 627 / 1, 11 REF: DWG. #603
SCALES: HOR. 1"=50', VERT. 1"=5'

TOP OF EXIST. PAVING ON ℄
℄ OF EXISTING GUTTER, 20' RT.
FL. 16.6' RT.
JOIN EXISTING M.H.
CONST. 12" R.C.P. BLEEDER LINE
339.50' 0.160%
312.58' 0.160%
44.72' 0.160% (12" R.C.P.)
CONSTR. CATCH BASIN, RIV. STD. #400
CONST. MANHOLES, RIV. STD. #500
Existing 36" Storm Drain 0.30% ±
Existing 16" Storm Drain 0.45% ±
0.45% ±
19+96.96 E. MARMIAN WAY
23+25.00 CONST. M.H. RIV. STD. #500
23+76.50 ℄ SUNNYSIDE DR.
26+43.79 ℄ CENTRAL AVE.

ORANGE VISTA TRACT BLOCK A
M.B. 5/143, REC. RIV. CO.

POR. NE 1/4 OF SE 1/4, SEC. 33, T2S, R5W

Washington Storm Drain

MARMIAN WAY

JOIN EXISTING MANHOLE

PALM AVENUE

CENTRAL AVENUE

SUNNYSIDE PLACE
M.B. 11/20 REC. RIV. CO.

SUNNYSIDE DRIVE

M.B. 8/87 REC. RIV. CO.
MARIVILLA TRACT

M.B. 2/35
TIBBETS BLOCK

SHATTO PL.

TRACT 3
REC. S.B. CO.

POR. NW 1/4 OF SW 1/4 SEC. 34, T2S, R5W

TIBBETS TRACT, BLOCK 4
M.B. 4/91, REC. RIV. CO.

PALM HEIGHTS
M.B. 11/31 REC. RIV. CO.

NOTE:
1-Relocate sewer House Connections as directed in the field.
2-Existing San. Sewer on ℄ Palm Ave. varies between 5 Ft. & 8 Ft. below Bleeder flow line.

SEE SHEET 2.

SCALE: 1" = 50'

Legend on Sh. 3

REVISIONS			CITY OF RIVERSIDE CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
		See Sh. 3	
	9-22-58	Note 3	CENTRAL AVENUE STORM DRAIN AT MAGNOLIA CENTER
	10-16-58	Note 3 & Signal Equip't deleted H.B.	PALM AVE. BLEEDER LINE

DESIGNED BY W.D.G. CHECKED BY J.H.B. APPROVED BY
DRAWN BY H. Ball
RECOMMENDED BY Thomas J. Gibbs CITY ENGINEER
DIRECTOR OF PUBLIC WORKS
DATE 2-13-58

D-23

SHEET 1 OF 5

INDEXED

PLATE 1.-PLAN-PROFILE. O.P.R.R.E. STANDARD
KELLOGG & ESSER CO., NEW YORK.
K. & E. CO. No. 348-10
(INTERNATIONAL SMOOTHING PAPER)
3X431

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
CALCULATIONS
STRUCTURE NO. AT H.P.I.
NO. BY DATE

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
CALCULATIONS
STRUCTURE NO. AT H.P.I.
NO. BY DATE

CONSTRUCT CATCH BASIN, R.I.V. STD. #400
℄ OF EXIST. GUTTER, 15' LT.
EXIST. TOP OF PAVEMENT ON ℄
F.L. OF EXIST. GUTTER, 20' RT.
20" V.C.P. Irrigation Line
Telephone conduit
CONSTR. 331.37' 12" R.C.P. BLEEDER LINE 0.72 %
CONSTR. 450.00' 12" R.C.P. BLEEDER LINE 0.32 %
CONSTR. 470.00' 12" R.C.P. BLEEDER LINE 0.32 %
Existing 12" V.C.P. San. Sewer (ON ℄)
6" North & South San. Sewer Line at 6.11 Sty.
B.M. ELEV. 817.51', S & L IN N. CB. CENTRAL 38' W. OF W. CB. PALM AVE.
B.M. ELEV. 826.46, IRON BAR SET IN CONC. SIDEWALK 50' E'LY OF ℄ MAGNOLIA & 30' N'LY OF ℄ CENTRAL.
F.B. 627/1, 14
SCALES: HOR. 1" = 50', VERT. 1" = 5'

CONSTR. MANHOLE, RIV. STD. #500
CONSTRUCT 12" R.C.P. BLEEDER LINE
Call Tucker 2221 Collect (Los Angeles) before excavating in vicinity of this cable.
Call Tucker 2221 Collect (L.A.) before excavating in vicinity of telephone cables.
20" IRRIGATION LINE
5' SIDEWALK ON PRIVATE PROPERTY
Exist. San. Sewer on ℄
Existing Curb & Gutter
S 89° 07' W 450.00'
S 89° 07' W 470.00'
Revision 1
ASPHALT PARKING LOT
ABANDONED
SEE SHEET NO. 3
CONSTR. 12" R.C.P. BLEEDER LINE
CONSTR. MANHOLE, RIV. STD. #500
CONSTR. MANHOLE, RIV. STD. #500

PALM AVENUE
CENTRAL AVENUE
NAVEL STREET
SCHOOL CIRCLE
BROCKTON AVENUE
MAGNOLIA AVENUE
AVENUE N 27°36' E
AVENUE S 06°17' E

TIBBETS TRACT BLOCK 4 M.B. 4/91 REC. RIV. CO.
PARENT NAVEL ORANGE TRACT M.B. 20/8 REC. RIV. CO.
TIBBETS TRACT BLOCK 6 M.B. 4/91 REC. RIV. CO.
TIBBETS TRACT BLOCK 7 M.B. 2/36 REC. RIV. CO.
PALM HEIGHTS M.B. 11/31 REC. RIV. CO.

NOTE:
1-Relocate sewer House Connections as directed in the field.

SCALE: 1" = 50'

REVISIONS			CITY OF RIVERSIDE CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
1	6-5-59	6" V.C.P. from S. side of Central diverted to M.H. 10+98 (As reported by Justin Smith. Sewer Crew.) H.Ball	CENTRAL AVENUE STORM DRAIN AT MAGNOLIA CENTER
2	6-15-59	8" conc. irr. pipe replaced 8+53 to 9+29 as shown. 1 ft. cover at ℄ School Circle. H.Ball	

DESIGNED BY W.R.G. CHECKED BY J.L.B. APPROVED BY
DRAWN BY H.Ball
RECOMMENDED Francis E. Lyon ASSISTANT CITY ENGINEER DATE 2-13-58 DIRECTOR OF PUBLIC WORKS
D-23
SHEET 2 OF 5

CONSTR. 1995' CB&GTR, RIV. STD #200
TOP OF CURB GRADE, 28' LEFT
0.426%

CONSTRUCT CATCH BASIN WITH 30' OPENING (Riv. Std #400)

F.L. OF EXIST. GUTTER, 15' LT.

Top of Exist. Curb (2.63%)

Exist. 6" Drain

CONSTR. CATCH BASIN WITH 20' OPENING, RIV. STD. #400

30" R.C.P.

CONSTR. CONC. BLOCK & MORTAR BULKHEAD

CONSTR. 31'± 30" R.C.P. & JOIN IN LY 60" R.C.P. TO NEW CATCH BASIN @ 2.90%

CONSTR. 41'± 30" R.C.P. & JOIN IN SLY 60" R.C.P. TO NEW CATCH BASIN @ 2.20%

CONSTR. 12" R.C.P. BLEEDER LINE

F.L. 0.32%

CONSTR. 12" CONC. ¼ BEND & CONNECTION & 12" CONC. TEE

Existing 12" V.C.P. San. Sewer on ℄

F.L. EXIST. GUTTER, 20' RT.

F.L. EXIST. GUTTER, 15' LT.

Existing Catch Basin

Existing Catch Basin (To be abandoned)

PLUG EXIST. 6" DRAIN

F.L. ISLAND GUTTER

Existing location of telephone conduits. (Completed prior to construction of storm drain.)

CONSTRUCT TWIN 60" R.C.P.'S

12" R.C.P. N'LY

18" R.C.P. N'LY

48" R.C.P. 5'LY

F.L. 0.74%

F.L. 0.33%

Top of Exist. Ground, 28' Left

F.L. of Exist. Asph. Gtr., 21' Left

Existing 10" Conc. Drain Pipe

PLUG

48" R.C.P. REMOVE

16'± 10" DOUBLE WALL CONC. PIPE

Exist. 10" Conc. Pipe

Exist. Tel. Conduit, to be relocated.

Exposed Tel. Conduit relocation to be completed prior to storm drain construction.

6'± 48" R.C.P.

JOIN EXIST. 10" CONC. PIPE TO NEW CATCH BASIN

Exist. 12" C.I. Water, to be relocated

CONSTR. CB & GTR., T.C. GRADE, 28' RT. 0.45%

CONSTR. CATCH BASIN WITH 30' OPENING (Riv. Std #400)

48" R.C.P. @ 4.00%

Existing 12" V.C.P. San. Sewer on ℄

F.L. EXIST. GUTTER, 28' RT.

PROFILE

SEE SHEET 2

S 1/2 OF NW 1/4, SEC. 34, T2S, R5W

N 1/2 OF SW 1/4, SEC. 34, T2S, R5W

PALM HEIGHTS
M.B. 11/31
REC. RIV. CO.

TIBBETS TRACT
BLOCK 7, M.B. 2/36, REC. RIV. CO.

CENTRAL AVENUE S 89°07'W

MAGNOLIA AVENUE N 12°25'30"E

BROCKTON AVENUE

EXISTING CATCH BASIN TO BE FILLED WITH D.G. CATCH BASIN OPENING TO BE FILLED WITH CONCRETE TO A NEAT, SMOOTH FINISH.

CONSTRUCT AS DIRECTED IN FIELD TO CLEAR IRRIGATION LINE.

RELOCATE EXIST. DRAINS AS SHOWN

CONNECT EXIST. DRAIN TO 60" R.C.P.

CONSTR. TWIN 60" R.C.P.'s

CONSTR. CB & GTR., 8'℄ F., RIV. STD #200 FROM 14+74.5 TO 15+37 AND FROM 15+72 TO 16+50

CONSTR. CB & GTR., RIV. STD. 200, TRANSITION SECTION FROM 16+50 TO 16+74

CONNECT 10" PIPE INTO CATCH BASIN

CONSTR. CATCH BASIN WITH 30' OPENING, RIV. STD #400

48" R.C.P.

Edge of Exist Paving

Exist. 10" Conc. Pipe (Approx. location)

TRANSITION FROM 8'℄ F. TO 5½'℄ F.

EXIST. CB & GTR.

EXISTING CURB & GUTTER

INTERCONNECT & FIRE ALARM CABLE

REMOVE CURB & GUTTER FROM 14+36 TO 15+05, AND REPLACE FROM 14+36 TO 14+65 AND FROM 15+00 TO 15+05. (6"C.F.) FILL CATCH BASIN AT 14+45 WITH D.G.

IRRIGATION LINE TO BE RELOCATED FOR 48" R.C.P.

Irrigation line to be lowered to provide clearance for 36" R.C.P.'s and future 60" R.C.P. extension.

CONSTR. 12" CONC. BEND & CONNECTION. CONSTR. 12"×12" CONC. TEE. (SEE DETAIL.)

BANK BLDG.

CONSTR. CATCH BASIN WITH 30' OPENING, RIV. STD. #400

Asphalt Parking Lot

Concrete Sidewalk

Asphalt

Concrete

Gravel

BLDG.

CURVE DATA:
① Δ = 8°00'30" R = 520.52' L = 72.75' T = 36.44'
② Δ = 8°00'30" R = 513.14' L = 71.72' T = 35.92'

NOTES: 1-60"×48" prefabricated Wye, similar to Conc. Conduit Co. Dwg. A53 0-2.
2-Construct concrete block & mortar bulkhead.
3-Riverside Public Utilities Dept. to relocate the following; Street lighting, Traffic signals, Electric power, Domestic Water lines, Fire Hydrants, Water Meters, and appurtenances.
4-Telephone facilities to be relocated by The Telephone Company.
5-Gas facilities to be relocated by the Gas Company.
6-Irrigation facilities to be relocated by Contractor to the satisfaction of the Riverside Water Co.
7-Pipe under trucks to be extra strength as per A.S.T.M. C-76-52.
8-Trees #1 & #2 to be removed before construction by Riverside Dept. of Parks & Street Trees. (Also tree #3 if necessary during construction.)

LEGEND
W — WATER
G — GAS
E — ELECTRIC CONDUIT
T — TELEPHONE CONDUIT
SL — STREET LIGHTING CONDUIT
SIG — TRAFFIC SIGNAL CONDUIT
(E) CALCULATED FIGURE OBTAINED BY ADDING FULL CURB FACE TO FLOW LINE ELEVATION.

SELECTED BACKFILL (See Special Provisions.)
60" R.C.P. O.D. 70½"
90°
15'
TYPICAL SECTION
Scale: 1"=6'-0"

CONC. BLOCK & MORTAR BULKHEAD
60" R.C.P.
30" R.C.P.
12" R.C.P.
12"×12" CONC. TEE
12" CONC. CONNECTION
SECTION AT 12+70.00 SHOWING OUTLET CONNECTIONS
Scale: 1"=6'-0"

SCALE: 1" = 20'

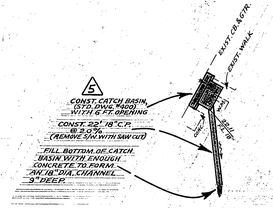
B.M. ELEV. 817.51', S&L IN N. CB. CENTRAL, 38' W. OF W. CURB PALM AVE.
B.M. ELEV. 826.46', IRON BAR SET IN CONC. SIDEWALK 50' E'LY OF ℄ MAGNOLIA & 30' N'LY OF ℄ CENTRAL.
F.B. 627/1, 14
SCALES: HOR. 1"= 20', VERT. 1"= 2'

REVISIONS			CITY OF RIVERSIDE CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
1	2-21-58	Proposed tel. conduit relocation.	
2	3-5-58	F.L. & Grade Corrections. H.B.	CENTRAL AVENUE STORM DRAIN AT MAGNOLIA CENTER
3	4-4-58	Storm Drain R.C.B. Alternate A.W.	
4	5-21-58	Delete R.C.B. Alt. & T.D. A.K.	
	6-6-58	Traffic Signal Equipt. Deleted H.B.	
	9-22-58	Prepared for re-bidding: 1-Std. Dwgs. re-numbered. 2-Double wall pipe changed to R.C.P. (12") 3-Catch Basin drainage aligned. H.B.	
	10-21-58	Pipe under tracks, Note #7 H.B.	

DESIGNED BY W.D.G. CHECKED BY J.L.B.
DRAWN BY H.Ball
RECOMMENDED BY ASSISTANT CITY ENGINEER
APPROVED BY DIRECTOR OF PUBLIC WORKS
DATE 2-15-58

D-23
SHEET 3 OF 5

PLAN



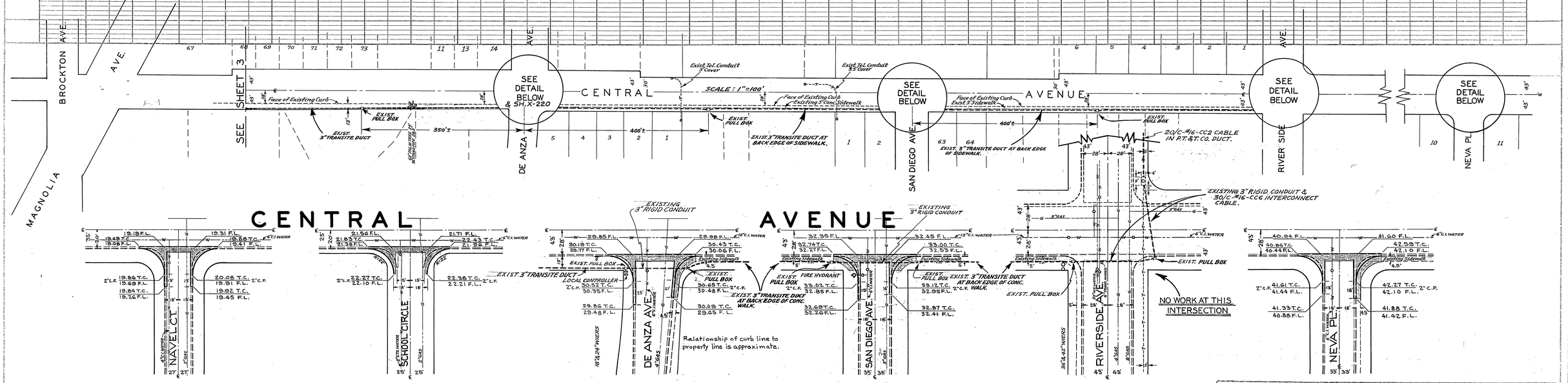
Revision 5 2-16-59, Added C.B. & Notes, N.E. cor. Central & Magnolia

PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK
K & E Co. No. 346-10

B.M. El. 817.51 on S&L in N. cb. of Central 38' W. of W. cb. on Palm.
B.M. El. 826.46 on iron bar set in conc. s/w 50' E. of ℄ Magnolia and 30'± N. of ℄ Central.
B.M. El. 835.642 on S&L in NW cb. return at Riverside and Central.
B.M. El. 841.83 on nail & lead in N cb. of Central 10' W of ℄ Neva prod.

F.B. 627/15,16,19,25,28-31.

SCALE: As noted.



NOTES:
1. All returns to be laid out in the field with 27' radius. Payment will be for as-built quantities, but each return length is assumed to be 42.41' for estimating.
2. All cross gutters to be 6' wide.
3. Sidewalk replacement sections to be removed to a score line.
4. Remove all curb, gutter, returns, cross gutters, sidewalks, etc., within shaded area necessary for new construction.
5. Pavement to be straight between edges of gutters at 2" C.F. sections.
6. All removals to be made at a sawed joint.

No. 4 - 120-150

SCALE: 1" = 50'

REVISIONS		
MARK	DATE	DESCRIPTION
	6-6-58	Traffic Signal Equipt. Revised.
	9-22-58	Pull Boxes & Duct "As Built".

CITY OF RIVERSIDE CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

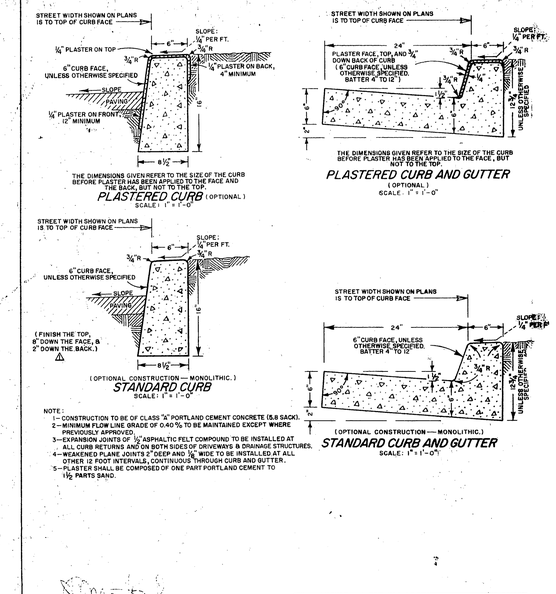
GENTRAL AVE.
STORM DRAIN
INTERSECTION REVISIONS

DESIGNED BY WDG
DRAWN BY WDG H.B.
CHECKED BY J.L.B.
RECOMMENDED BY Francis E. Lefebvre ASSISTANT CITY ENGINEER
APPROVED BY [signature] DIRECTOR OF PUBLIC WORKS
DATE 2-13-58

D-23
SHEET 4 OF 5

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

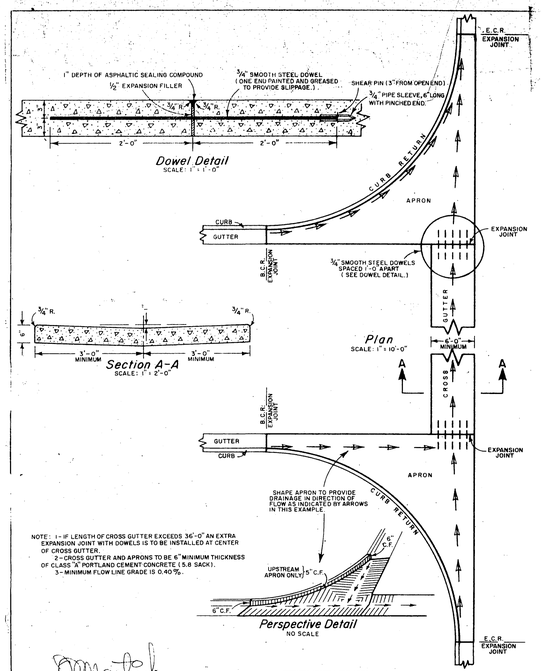
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK NO.
BY
DATE



Approved [signature] City Engineer
Date 3-24-58 H.Ball

DATE	MARK	BY	APPROVED
6-13-58	Δ	H.BALL	[signature]
8-5-58		" "	DWG. RE-NUMBERED, PREVIOUSLY NO. 108.

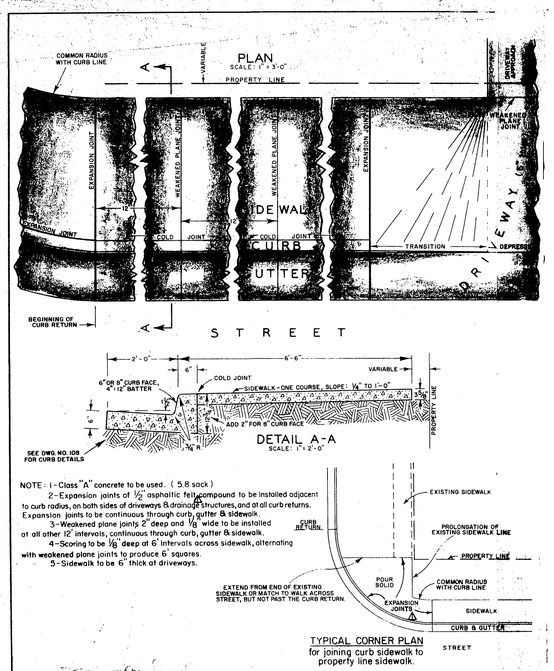
CURB AND GUTTER
CITY OF RIVERSIDE, CALIFORNIA
ENGINEERING DIVISION, DEPT. OF PUBLIC WORKS
STANDARD DRAWING NO. 200



Approved [signature] City Engineer
Date April 28, 1958 H.Ball

DATE	MARK	BY	APPROVED
8-6-58		H.BALL	DWG. RE-NUMBERED, PREVIOUSLY NO. 117

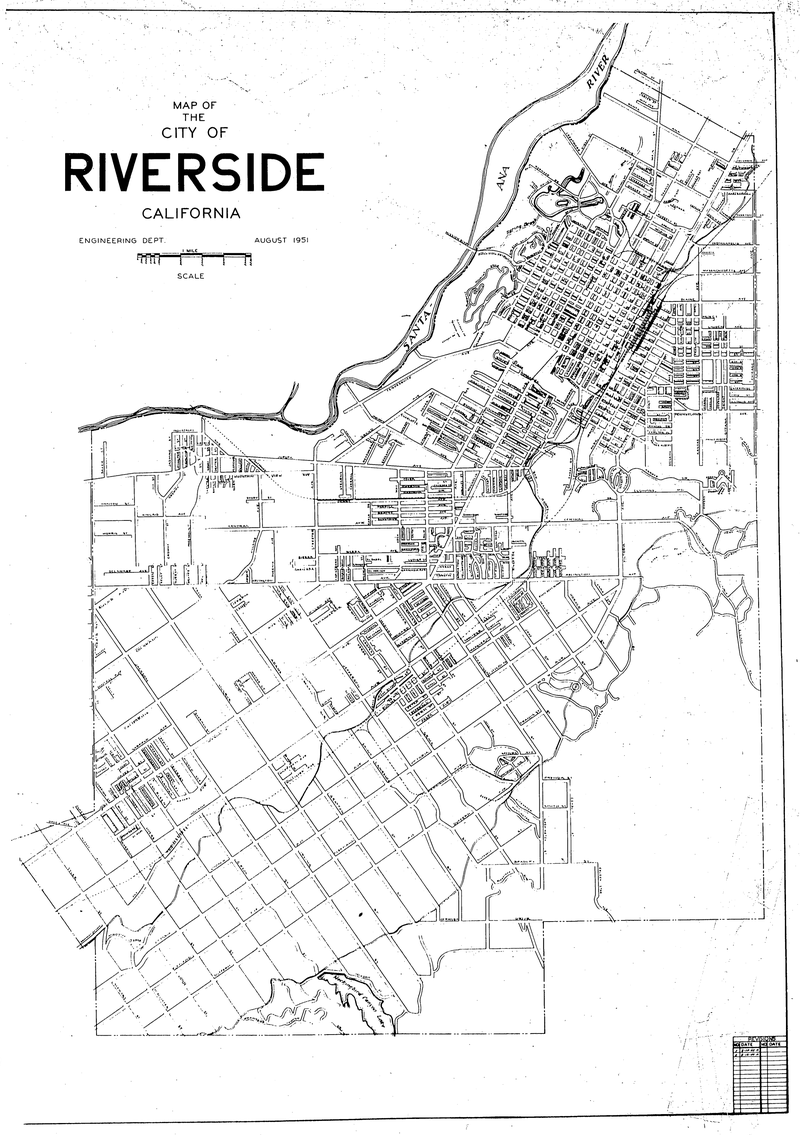
CROSS GUTTER AND APRONS
CITY OF RIVERSIDE, CALIFORNIA
ENGINEERING DIVISION, DEPT. OF PUBLIC WORKS
STANDARD DRAWING NO. 220

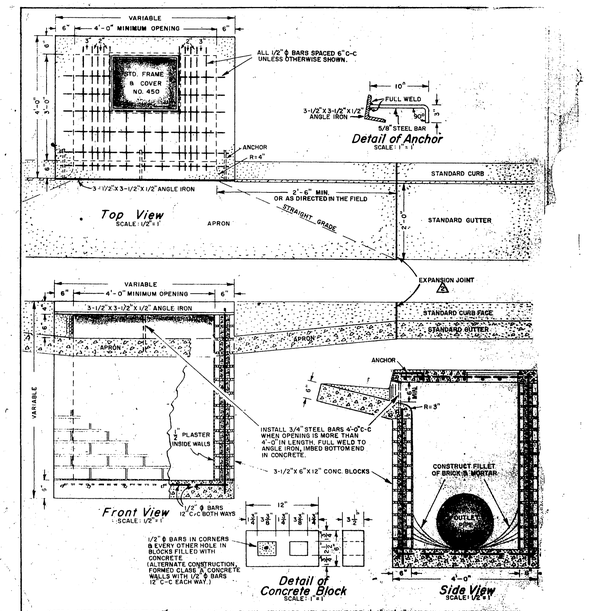


Approved [signature] City Engineer
Date 10-31-57

DATE	MARK	BY	APPROVED
7-21-58	Δ	H.BALL	[signature]
8-5-58		" "	DWG. RE-NUMBERED, PREVIOUSLY NO. 107

COMBINATION CURB & GUTTER AND CURB SIDEWALK
CITY OF RIVERSIDE, CALIFORNIA
ENGINEERING DIVISION, DEPT. OF PUBLIC WORKS
STANDARD DRAWING NO. 325





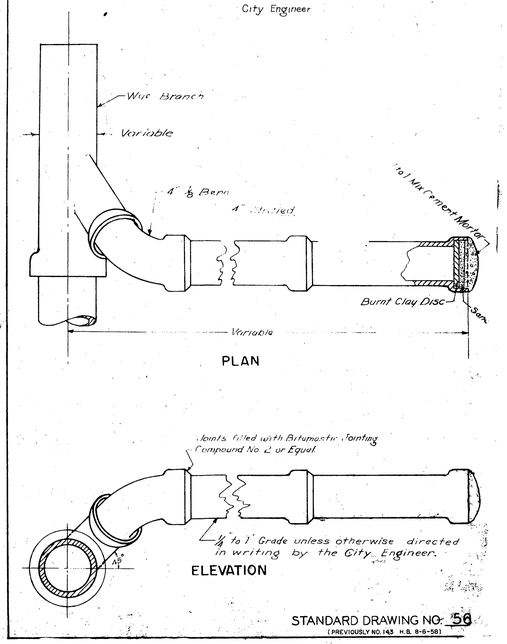
Approved [signature] City Engineer
Date 6-10-57

DATE	MARK	BY	APPROVED
11-7-57	Δ	H.BALL	[signature]
7-21-58	Δ	H.BALL	[signature]
8-6-58		" "	DWG. RE-NUMBERED, PREVIOUSLY NO. 140 D.

STORM WATER CATCH BASIN BACK OF CURB TYPE
CITY OF RIVERSIDE, CALIFORNIA
ENGINEERING DIVISION, DEPT. OF PUBLIC WORKS
STANDARD DRAWING NO. 400

CITY OF RIVERSIDE, CALIF.
ENGINEERING DEPARTMENT
STANDARD HOUSE CONNECTION
NO SCALE

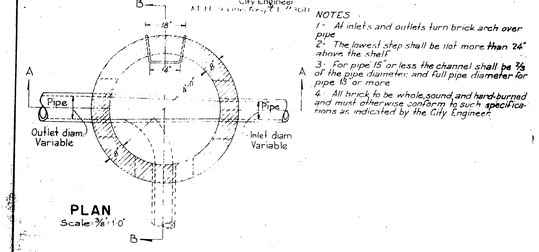
Approved [signature]
City Engineer



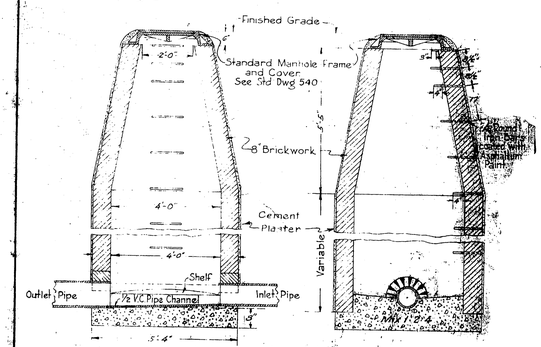
STANDARD DRAWING NO. 56
(PREVIOUSLY NO. 143 H.B. 8-6-58)

CITY OF RIVERSIDE, CALIFORNIA
ENGINEERING DEPARTMENT
STANDARD MANHOLE STRUCTURE
(BRICK CONSTRUCTION)

Approved [signature]
City Engineer



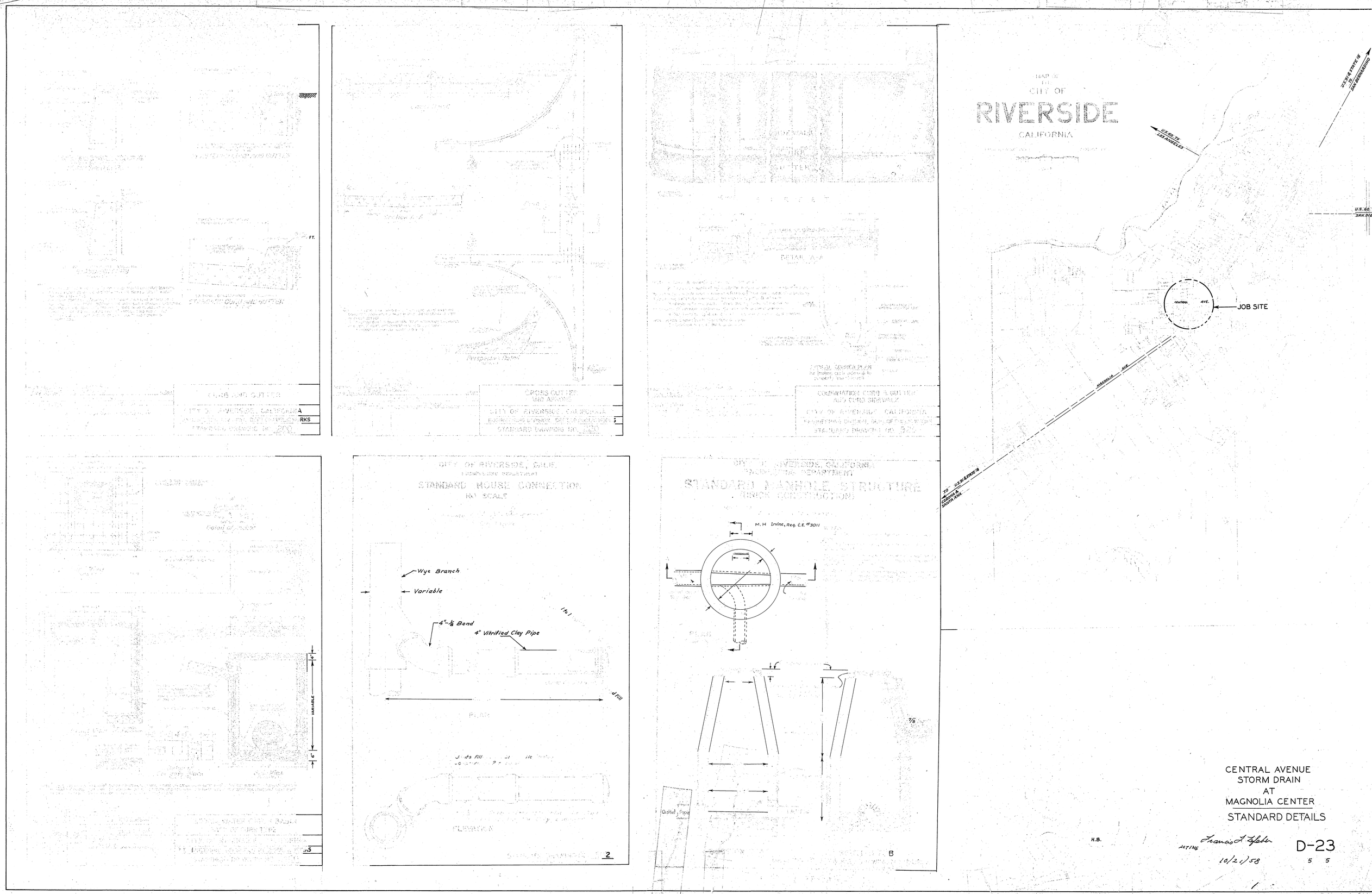
NOTES
1—All inlets and outlets turn brick arch over pipe.
2—The lowest step shall be not more than 24" above the shelf.
3—For pipe 15" or less the channel shall be ⅓ of the pipe diameter, and full pipe diameter for pipe 18" or more.
4—All brick to be whole, sound, and hard-burned and must otherwise conform to such specifications as indicated by the City Engineer.



STANDARD DRAWING NO. 500
(PREVIOUSLY NO. 1410 H.B. 8-6-58)

08-10

REVISIONS			CITY OF RIVERSIDE CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE	DESCRIPTION	
			CENTRAL AVENUE STORM DRAIN AT MAGNOLIA CENTER STANDARD DETAILS
DESIGNED BY		CHECKED BY	APPROVED BY
DRAWN BY			DIRECTOR OF PUBLIC WORKS
RECOMMENDED BY ASSISTANT CITY ENGINEER			DATE
			SHEET OF



CENTRAL AVENUE
STORM DRAIN
AT
MAGNOLIA CENTER
STANDARD DETAILS

H.B.

ACTING Francis F. Lefebvre
10/21/58

D-23
5 5

GENERAL NOTES

INSTALL NEW 4 INCH-FOUR DUCT SYSTEM FROM M.H. 55 TO VAULT 27.

PORTION OF NEW DUCT LINE FROM STA. 0+15 TO STA. 0+35-SHALL BE 4 INCH RIGID COND. - REMAINING SECTIONS TO BE 4 INCH SOAPSTONE.

INSTALL PORTION OF NEW DUCT OVER AREA ALLOTED FOR NEW STORMDRAIN WITHOUT CONCRETE ENVELOPE. THIS PORTION TO BE RIGID COND. & ENCLOSED IN CONCRETE AFTER STORM DRAIN INSTALLATION IS COMPLETED.

NEW 4/0 - 5KV, OKOLITE CABLE-3 1/C, SHALL BE INSTALLED TO REPLACE EXISTING CABLE.

SERVICE TO VAULT No. 27 TO BE MAINTAINED & BANK OF AMERICA SHALL BE NOTIFIED IN ADVANCE BY THE CONSTRUCTION DEPT. WHEN OUTAGE WILL OCCUR.

EXISTING 6 DUCT TO BE ABANDONDED BETWEEN M.H. No. 55 & VAULT 27.

EXISTING 4/0 - 5KV CABLE TO BE REMOVED AND RETURNED TO SALVAGE.

NOTE: EXISTING NEUTRAL GROUND WIRE LAID ON TOP OF CONCRETE OF EXISTING DUCT SYSTEM.

MAGNOLIA & CENTRAL AVE.

PRIMARY DUCTLINE REVISION

CITY OF RIVERSIDE
DEPT. OF PUBLIC UTILITIES

SCALE HOR. 1" = 20' VER. 1" = 4'	F. B. NO. 9 - P40-46	LIGHT DEPT.
DATE -58	CHKD. BY	DWG. NO.
DWG. BY AFR	APPRVD. BY	U5-11600
~~TRCD. BY~~ EL 1635	C. O. NO.	

FILE WITH D-23