Remove exist. bulkhead (similar to bulkhead detail on sheet 4 of this plan, see also plan D-41 sheet 3) Connect to exist. pipe with mortar joint shown below

Bench Mark: Elev. 793.135
Pk. Nail in N'ly Cb. of Mag. 70' W'ly of Jefferson. See F.B. U-25
Reference: F.B. D-4/1-19

CAUTION: UNDERGROUND TELEPHONE CABLE. CALL 683-0071 24 HRS. PRIOR TO EXCAVATION

FOR DETAIL OF LILLIAN STREET INTERSECTION SEE SHEET 3

MH Nº 3	
Sta. 11+50±1'	
Std. 430	
FL at Sta. Pt. = 83.33	
D_1=60"	GP_1 = 83.31
D_2=60"	GP_2 83.35

Soil Boring Note: Preliminary borings to 12½'± at or near posted stations are available for inspection of the Public Works office.

LEGEND

- 12' wide by ½" thick AC overlay
- Overlay at intersection
- Limit of overlay
- 2½"AC over 4" AB (Class 2) plus 6" AB (Class 3)
- 1" AC over no base

PROFILE
NOTE BOOK	NO.
SURVEYED	
PLOTTED	
GRADES CHECKED	
B. M.S NOTED	
STRUCTURE NOTAT'NS CH'KD	

BY | DATE

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

BY | DATE

REVISIONS		
MARK	DATE	DESCRIPTION
△1	3-22-65	Add soil borings Sam ES &HK, CE.R, ORJ

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
S.S. PROJECT NO. 174

JEFFERSON STORM DRAIN NO. 3 IN MAGNOLIA AVENUE

BETWEEN JEFFERSON & MADISON

DESIGNED BY ES
DRAWN BY Bob Sam
CHECKED BY JHK
SUBMITTED BY Charles E. Robertson
PARK DEPT. ELK
TRAFFIC DIV.
RECOMMENDED BY [signature] ASSISTANT CITY ENGINEER
APPROVED BY [signature] DIRECTOR OF PUBLIC WORKS
DATE 3-17-65
PROJ. NO. 4002
D-107
SHEET 1 OF 5

K+E PLATE 1. PLAN-PROFILE

Existing Ground

Ballast from old Pacific Electric Rwy in median only, not in trench area. Boring taken at 4+ N'ly of curb.

Rocky Sandy Loam loose - dk. brown Humid

Sandy Loam loose brown Humid

Lt. Brown

Top of inside of Pipe

FL?

Sandy Loam firm lt. brown Humid

G.P.1 96.36

G.P.2 96.40

Install 461.7 of 57" RCP 1250-D 0.78%

Install 552.5' of 57" RCP 1250-D 0.78%

Install 461.9' of 60" RCP 1250-D @ 0.78%

Install 61.3 57" RCP 1250-D @ 0.78%

Elev. 96.40

Elev. 95.91

16+14.50 Const. MH No 4 FL 89.95

16+86.00 Const. US No 2 FL 92.76

21+50±1 MH No 5 FL 96.38

6"W

14" VCP Inv. Exact Depth & Location Unknown

27+05.09 Const. MH No 7

FL 92.67

FL 92.87

24" W (East)

24" W (West)

24" Unknown

27+69.16 Const. MH No 9

See Details Sht 4

G.P.2 803.47

G.P.1 803.44

Const. Conc. Block Bulkhead See Detail on Sht. 4

Install 4' stub of 30" R.C.P. @ 0.78% 1750-D

Install 51.1' of 30" R.C.P. @ 0.78% 1750-D

18" W.P.

815 / 810 / 805 / 800 / 795 / 790

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

PROFILE — SURVEYED — PLOTTED — PLANIMETRIC CHECKED — R/W CHECKED — NOTE BOOK — NO. — BY — DATE

16 17 18 19 20 21 22 23 24 25 26 27 28 29

12" Pepper 11.8' Pole #8356U 10'
12" Pepper 11.8'
12" Pepper 11.8'
16+14.50 Const. MH No 4 Std. 432
Pole #8355U 10.2'
16+86.0 Const. US No 2 Std 421
Pole #8354U 10.2'
Pole #8353U 10.2'
12" Pepper 12'
12" Pepper 11.5'
Pole #8352U 10.5'
12" Pepper 11.7'
12" Pepper 12.7'
21+50±1 Const. MH No 6 Std. 430
12" Pepper 11'
Pole #8351U 10.2'
Pole #8350U 10.4'
Pole #8349U 10.4'
Pole #8348U 10'
12" Pepper
24" Pepper 10.5'
Abandon
27+05.09 Const. MH No 7 Std. 432
Pole #8347U 10'
27+69.16 Const. MH No 9
See Details Sht 4

See Sheet No 1

Match Line Sta 15+00

MEDIAN CURB FACE

MAGNOLIA AVENUE

SURVEY CONTROL LINE

Place 12' wide by ½" thick AC overlay over new and exist. paving per typical cross-section sheet 1

Install 61.3' of 57" RCP 1250-D

Install 461.7' of 57" RCP 1250-D

Install 552.5' of 57" RCP 1250-D

Install 51.1' of 30" RCP 1750-D and bulkhead per detail sheet 4

Install 461.9' of 60" RCP 1250-D @ 0.78%

℄ 57" RCP

SOUTHERLY DRIVE

CAUTION: UNDERGROUND TELEPHONE CABLE. CALL 683-0071 24 HRS. PRIOR TO EXCAVATION.

STEARNS — 1 2 3 4 9 8 7 6

TRACT A — 5 4 3 2 1

STORAGE AREA

Before using, see Sect. 21 of the Special Provisions

CORTEZ ST. — 35' — 18' 18'

MADISON STREET — 40' — 8' 8'

48" Elec. 30.5'

30" Palm 32.5'

3'-6" Elec. 32.6'

30" Palm 32.8'

15 16 17 18 19

FOR DETAIL OF CORTEZ ST. INTERSECTION SEE SHEET 3

FOR DETAIL OF MADISON ST. INTERSECTION SEE SHEET 4

MH No 6
Sta. 21+50 ±1'
Std. 430
FL at Sta. Pt 96.38
D_1 = 57" G.P.1 96.36
D_2 = 57" G.P.2 96.40

Overlay to curb where shown on plans

3" min. total thickness of AC over trench

℄ RCP

Place AC overlay as directed in field

Place 5" class 3 base in Lillian and Cortez Streets and 6" in Madison Street

Place class 2 4" base

Place 2½" AC

Top foot of backfill at 85% compaction

Other backfill at 90% compaction

10" Max.

10" Max.

Install RCP per plan

Case III bedding per Std. 452

No Scale

TYPICAL CROSS-SECTION OF LILLIAN, CORTEZ, AND MADISON AND ALL FEEDER PIPES FROM CATCH BASINS

SCALE 1"=50'

PLAN — SURVEYED — PLOTTED — PLANIMETRIC CHECKED — R/W CHECKED — NOTE BOOK — NO. — BY — DATE

REVISIONS		
MARK	DATE	DESCRIPTION
⚠	3-22-65	Add soil borings & Sam

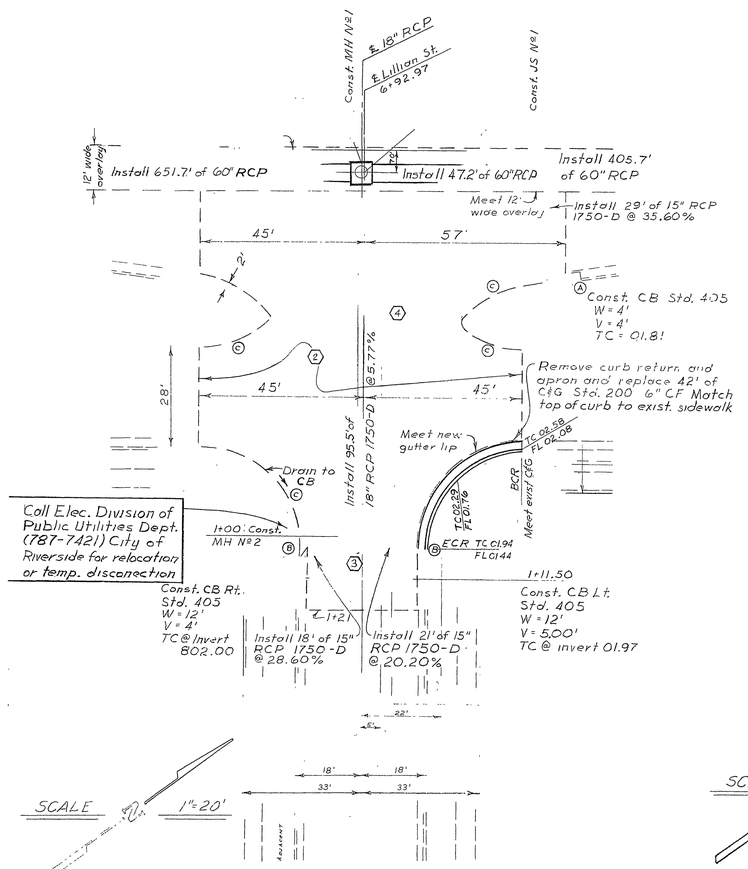
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

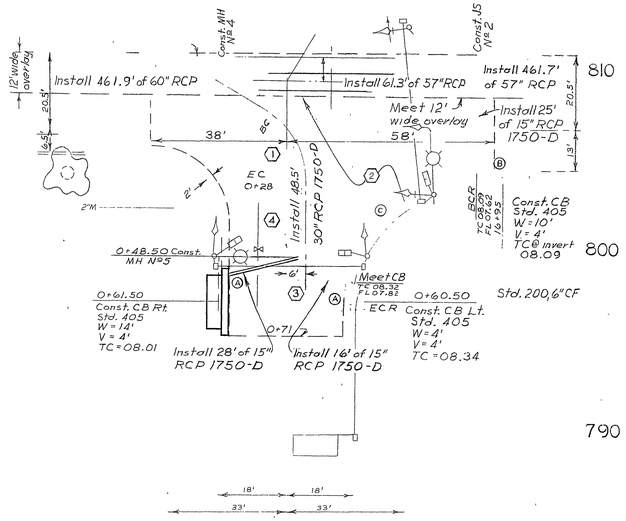
S.S. - PROJECT NO. 174

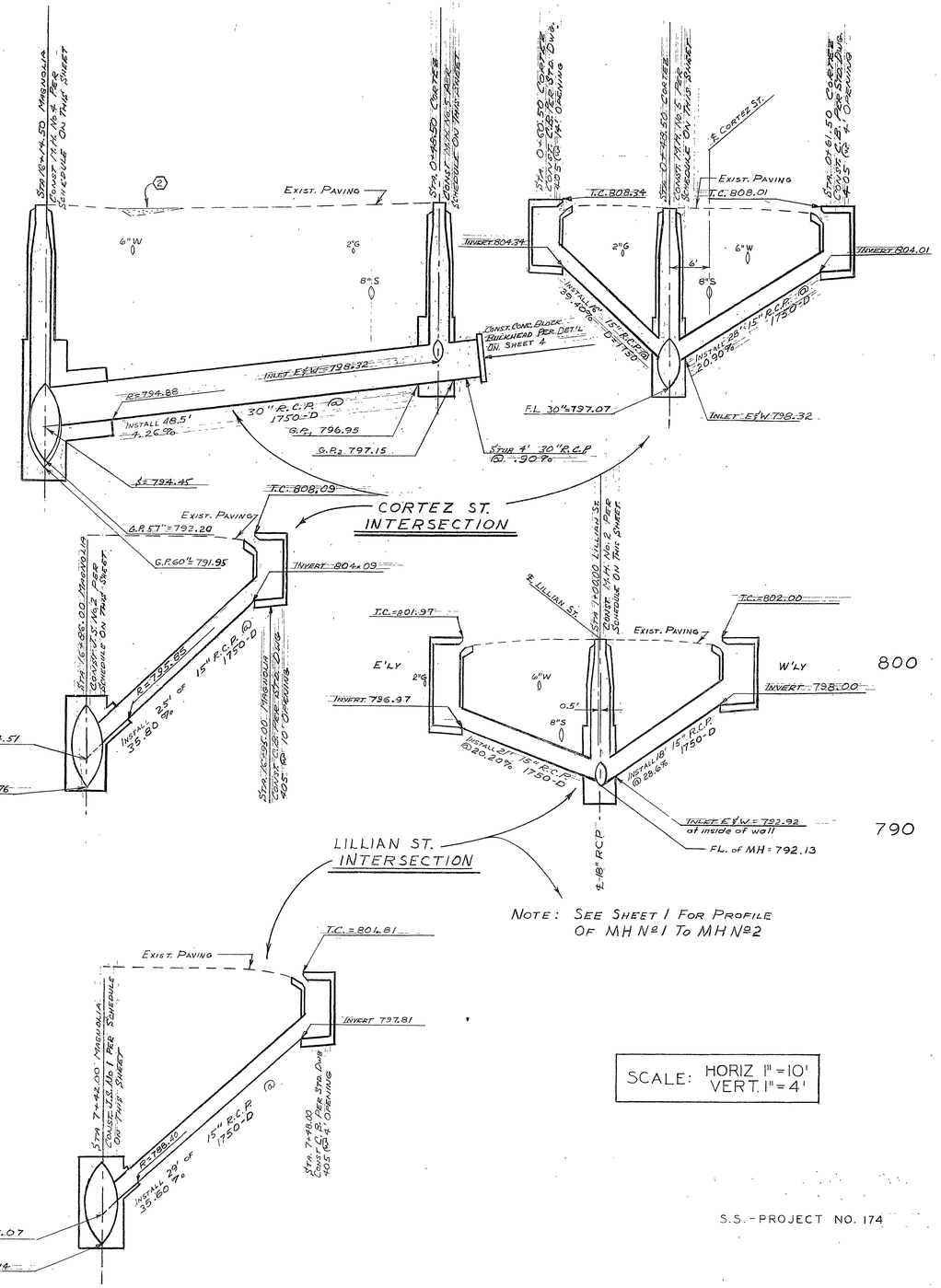
JEFFERSON STORM DRAIN NO. 3
IN MAGNOLIA AVENUE

BETWEEN JEFFERSON & MADISON

DESIGNED BY
DRAWN BY Sams
CHECKED BY
SUBMITTED BY Charles E. Patterson
PARK DEPT.
TRAFFIC DIV.
RECOMMENDED BY
ASSISTANT CITY ENGINEER
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 3-17-65
PROJ. NO. 4002
D-107
SHEET 2 OF 5







NOTE: SEE SHEET 1 FOR PROFILE OF MH No 1 TO MH No 2

SCALE: HORIZ 1" = 10' VERT. 1" = 4'

MANHOLE SCHEDULE (LILLIAN ST.)

MH No 1

Sta. 6+92.47
Std. 430
$D_1 = D_2 = 60"$
Inlet of 18" pipe at ID of 60" RCP
G.P.1 84.74 G.P.2 84.78

MH No 2

Sta. 1+00 Lillian St.
Std. 431
Inlets at shaft wall
Lt. 92.92
Rt. 92.92
G.P.1 91.97 G.P.2 92.23

JS No 1

Sta. 7+42.00
Std. 421

Dimensions	Steel Schedule
A. 79.2°	A bars #6 @ 3" OC
B. 15"	B bars #6 @ 3" OC
C. 3'-9"	F bars #5 @ 6" OC
D. 60"	Tie bars #4 @ 18" OC
E. 1'-6"	
F. 2'-7"	
G. 2'-5"	
J. 3'-5"	
L. 2'	
R. 88.40	
S at Z" 87.07	
FL of JS @ Z" 85.14	
T 4¼"	

MANHOLE SCHEDULE (CORTEZ ST.)

MH No 4

Sta. 16+14.50
Std. 432

Dimensions	Steel Schedule
A. 30°	A bars #6 @ 3" OC
B. 30"	B bars #6 @ 3" OC
C. 10'	C bars #5 @ 6" OC
D1 57"	D bars #5 @ 3" OC
D2 60"	E bars #6 @ 4" OC
E. 10'-7"	F bars #5 @ 6" OC
L. 11'	Tie bars #4 @ 18" OC
R. 94.88	
S. 94.45	
G.P60" 91.95	
G.P57" 92.20	

MH No 5

Sta. 0+48.50 Cortez
Std. 421
G.P.1 96.95 G.P.2 97.15
L = 4'
Inlets at shaft center
Lt. 98.32
Rt. 98.32

JS No 2

Sta. 16+86.00
Std. 421

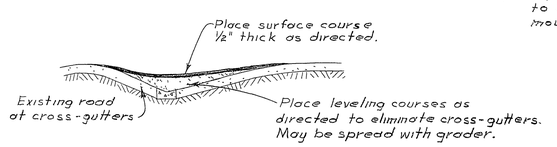
Dimensions	
A. 79.7°	F. 2'-7"
B. 15"	G. 2'-3"
C. 3'-9"	J. 3'-3"
D. 57"	L. 2'-0"
E. 1'-5"	T 5"
R. 95.85	
S at Z" 94.51	
FL of JS @ Z" 92.76	

Steel Schedule
A bars #6 @ 3" OC
B bars #6 @ 3" OC
F bars #5 @ 6" OC
Tie bars #4 @ 18" OC

Note: All catch basin outlet pipes shall be rounded to 3" radius at the mouth of the outlet

Ⓐ Install outlet pipe at ℄ of CB
Ⓑ Install outlet pipe near end of CB as indicated
Ⓒ Place overlay against curb to drain as directed

① Pipe Δ Data Δ = 60° R = 22.50' L = 23.56'
② Overlay intersection as directed in the field to eliminate X-gutter
③ Const. conc. block bulkhead per detail on sheet 4
④ Raise sewer MH to grade as directed in the field



TYPICAL SECTION AT CROSS-GUTTERS

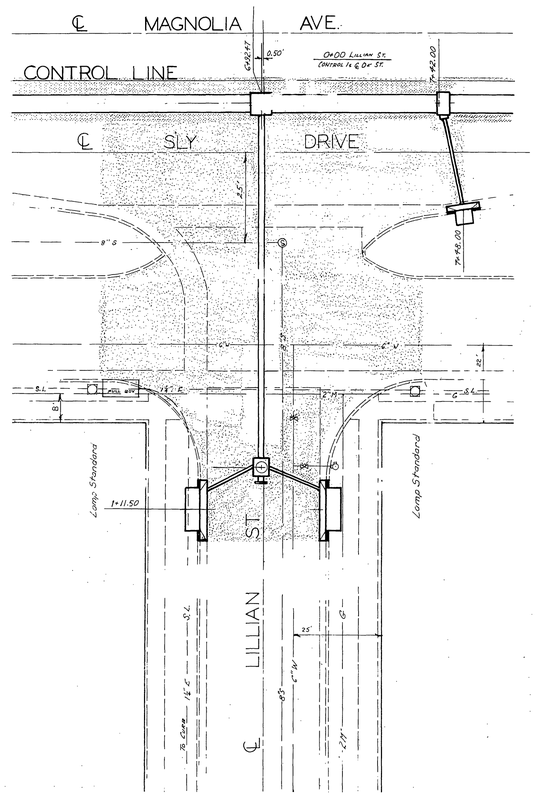
No scale

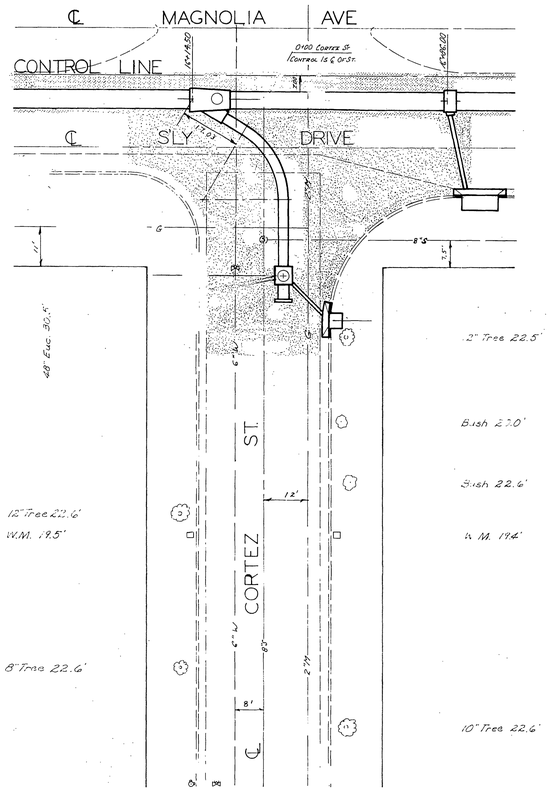
S.S.-PROJECT NO. 174

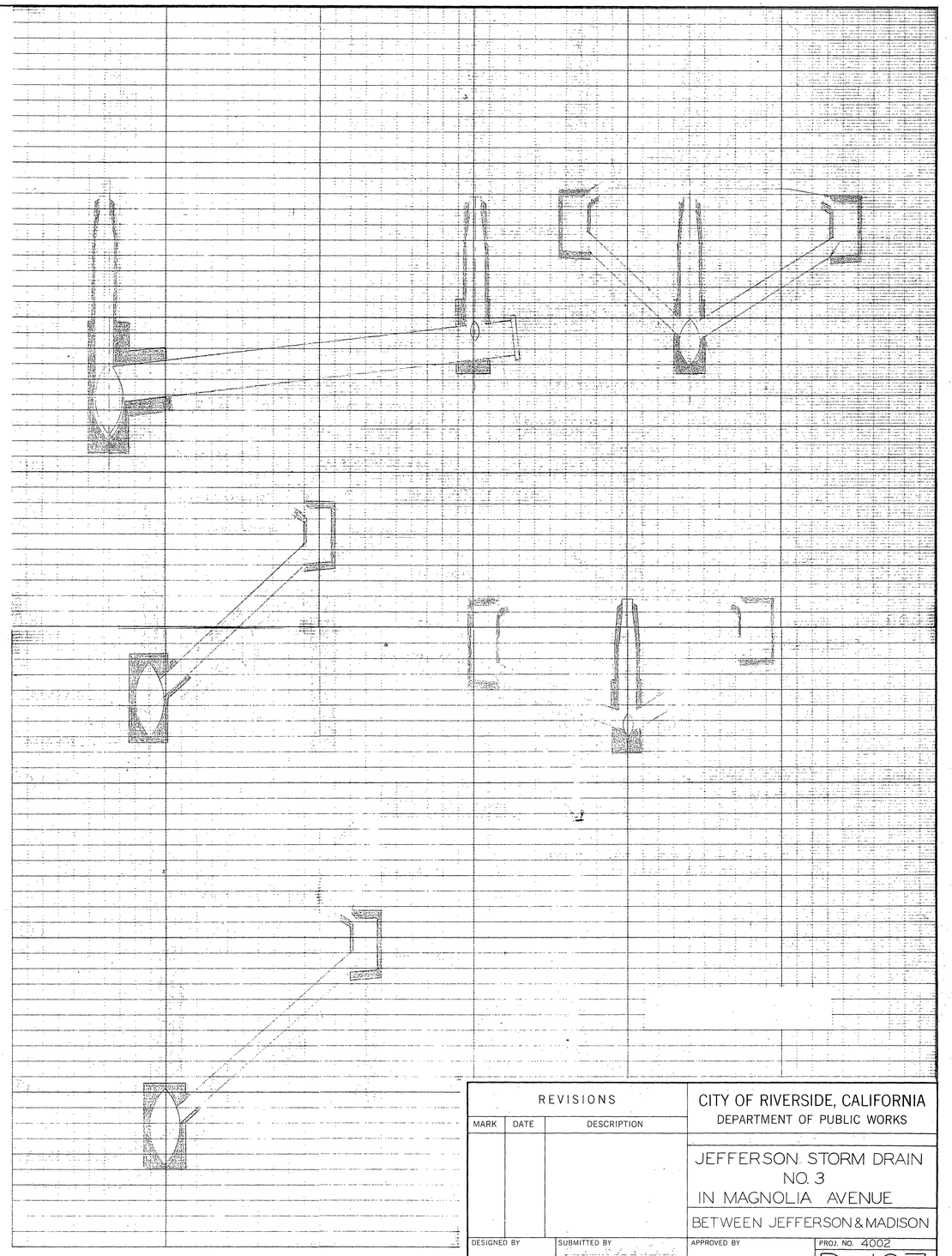
Sams G&K — Schultz & Robertson — Mendenhall — 3-17-65

D-107

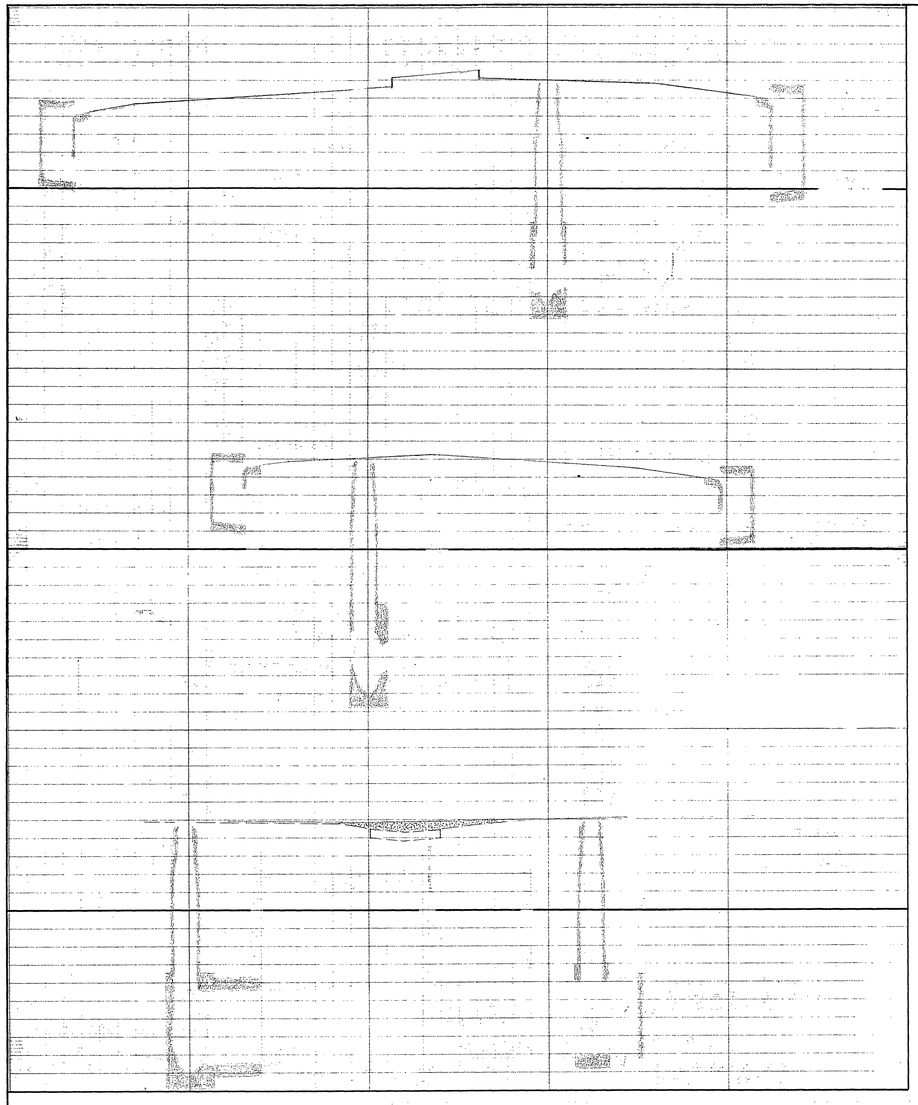
3 OF 5

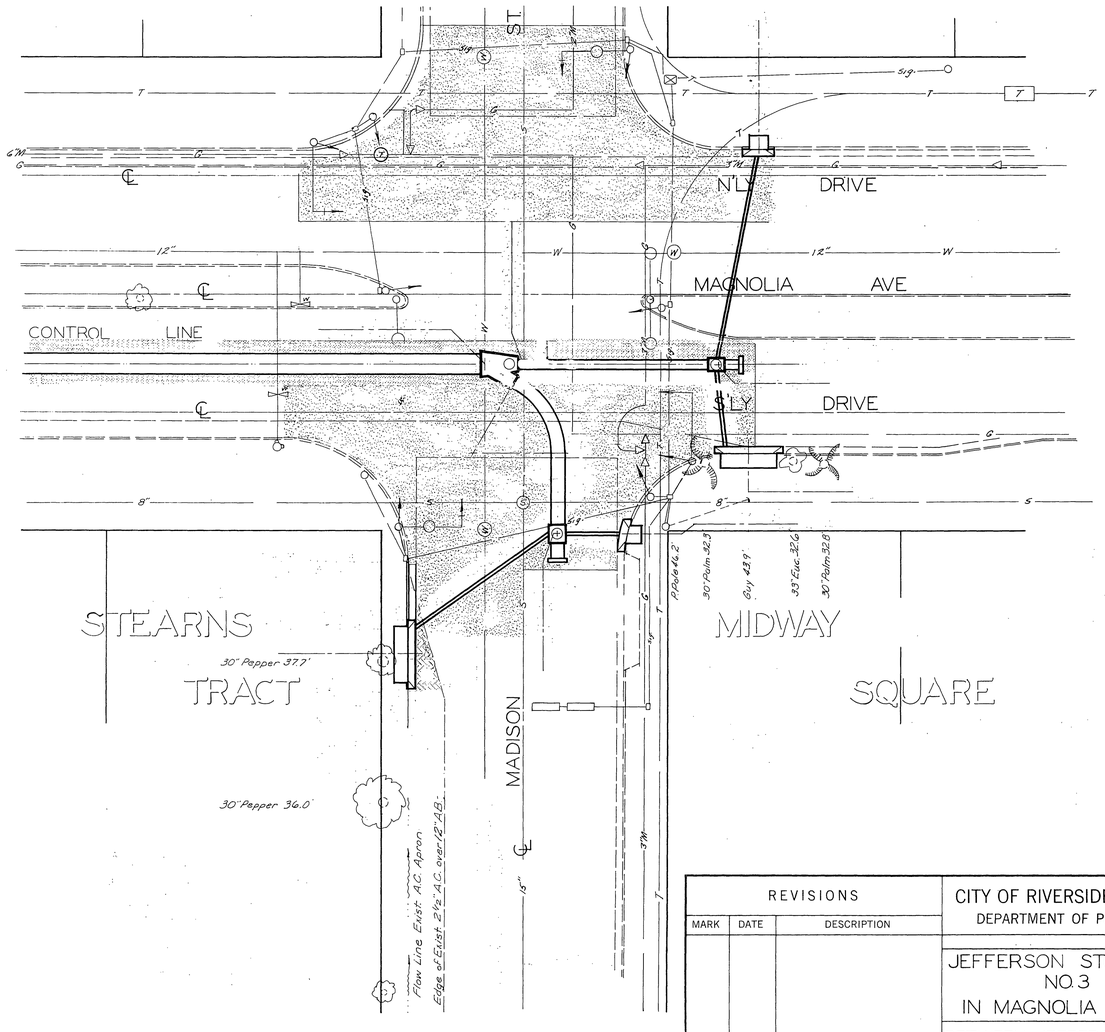






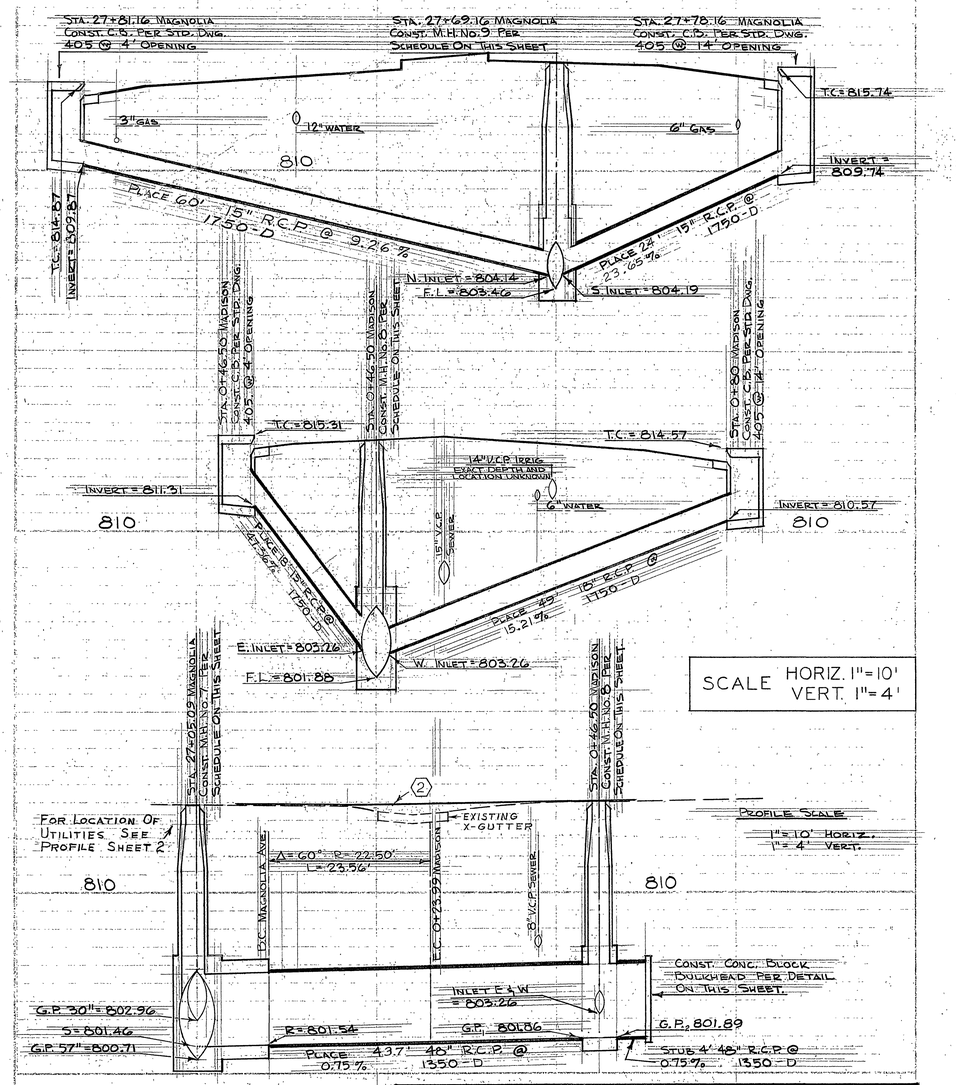
REVISIONS			CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	JEFFERSON STORM DRAIN NO. 3 IN MAGNOLIA AVENUE BETWEEN JEFFERSON & MADISON	
DESIGNED BY	SUBMITTED BY		APPROVED BY	PROJ. NO. 4002
DRAWN BY Bob V.A.	PARK DEPT.	TRAFFIC DIV.	DIRECTOR OF PUBLIC WORKS	D-107
CHECKED BY	RECOMMENDED BY ASSISTANT CITY ENGINEER		DATE	SHEET 3 OF 5

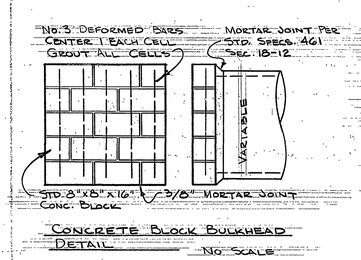




REVISIONS			CITY OF RIVERSIDE, CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
			JEFFERSON STORM DRAIN NO. 3 IN MAGNOLIA AVENUE
			BETWEEN JEFFERSON & MADISON

DESIGNED BY	SUBMITTED BY	APPROVED BY	PROJ. NO. 4002
DRAWN BY BLL	PARK DEPT. / TRAFFIC DIV.	DIRECTOR OF PUBLIC WORKS	D-107
CHECKED BY	RECOMMENDED BY ASSISTANT CITY ENGINEER	DATE	SHEET ___ OF ___





CONCRETE BLOCK BULKHEAD DETAIL NO SCALE

MANHOLE SCHEDULE (MADISON ST)

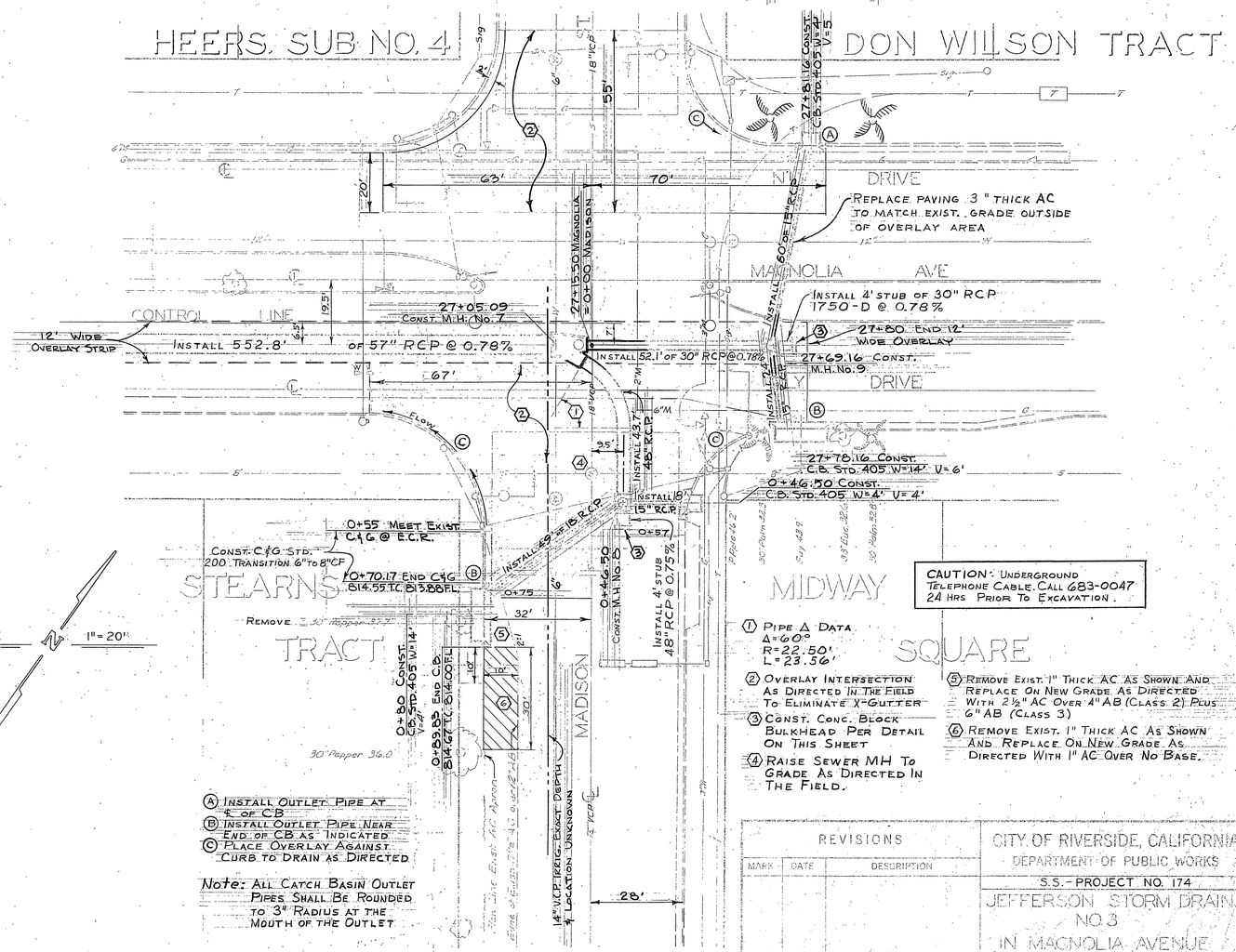
MANHOLE No. 7 — 27+05.09 MAGNOLIA — STD. DWG. No. 432			MANHOLE No. 8 — 0+46.50 MADISON — STD. DWG. No. 430	
DIMENSIONS		STEEL		
A	30°	A BARS #6 @ 3" O.C.	D_1	48"
B	48"	B BARS #6 @ 3" O.C.	D_2	48"
C	10'	C BARS #5 @ 6" O.C.	INLET EAST	803.26
D_1	30"	D BARS #5 @ 3" O.C.	INLET WEST	803.26
D_2	57"	E BARS #6 @ 4" O.C.	G.P.$_1$	801.86
E	9'7"	F BARS #5 @ 6" O.C.	G.P.$_2$	801.89
F	10'	TIE BARS #4 @ 18" O.C.		
P_2	801.54			
P_1	801.46			
G.P. 57"	800.71			
G.P. 30"	802.96			

MANHOLE No. 9 — 27+69.16 MAGNOLIA — STD. DWG. No. 431

D@ INLET EAST 30"
D@ INLET WEST 30"

INLET NORTH 804.14
INLET SOUTH 804.19
G.P.$_1$ 813.44
G.P.$_2$ 803.47

SCALE 1"=20'



(A) INSTALL OUTLET PIPE AT ℄ OF C.B.
(B) INSTALL OUTLET PIPE NEAR END OF C.B. AS INDICATED
(C) PLACE OVERLAY AGAINST CURB TO DRAIN AS DIRECTED

Note: ALL CATCH BASIN OUTLET PIPES SHALL BE ROUNDED TO 3" RADIUS AT THE MOUTH OF THE OUTLET

(1) PIPE A DATA
Δ = 90°
R = 22.50'
L = 23.56'

(2) OVERLAY INTERSECTION AS DIRECTED IN THE FIELD TO ELIMINATE X-GUTTER

(3) CONST. CONC. BLOCK BULKHEAD PER DETAIL ON THIS SHEET

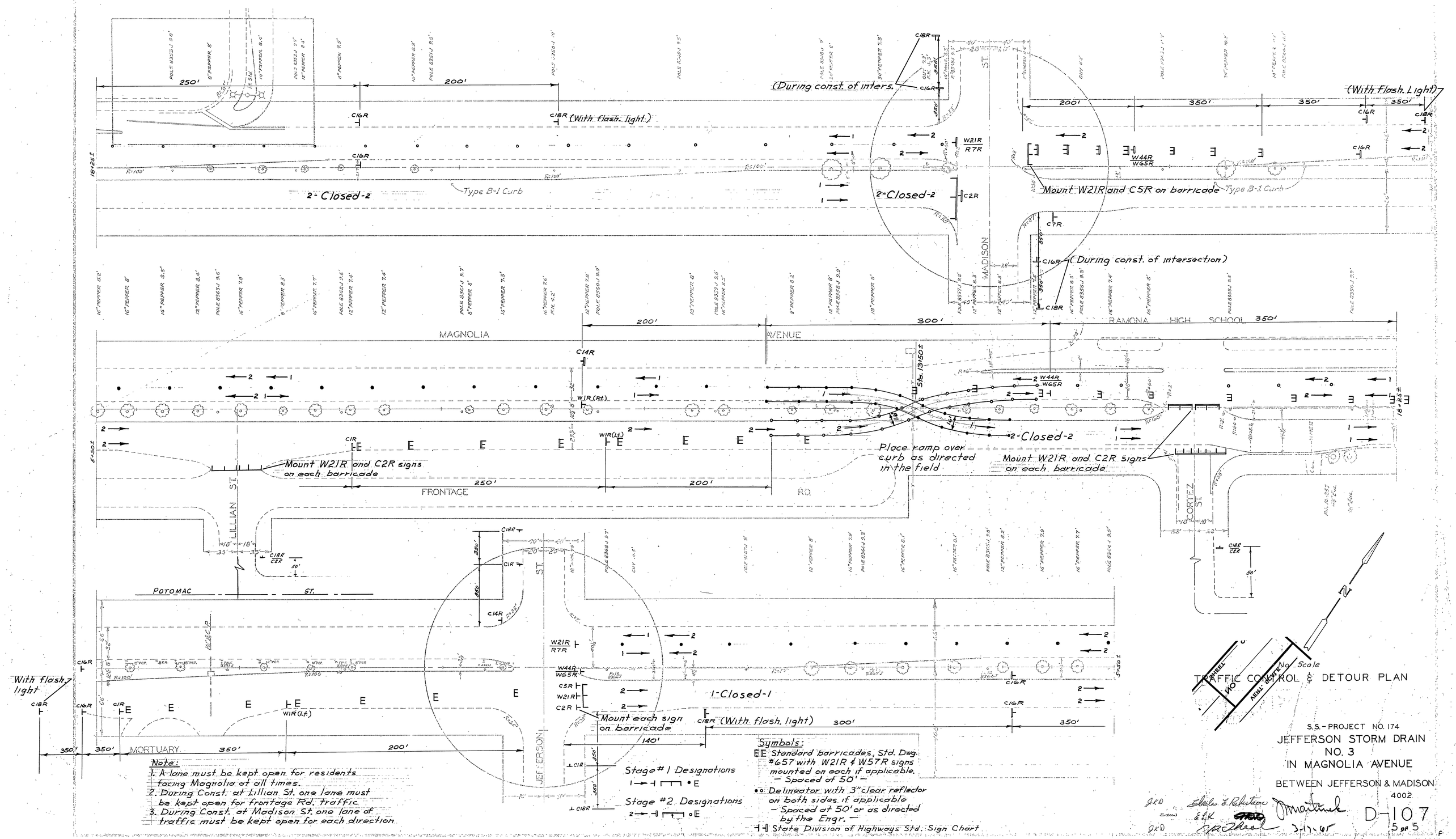
(4) RAISE SEWER MH TO GRADE AS DIRECTED IN THE FIELD.

(5) REMOVE EXIST. 1" THICK AC AS SHOWN AND REPLACE ON NEW GRADE AS DIRECTED WITH 2½" AC OVER 4" AB (CLASS 2) PLUS 6" AB (CLASS 3)

(6) REMOVE EXIST. 1" THICK AC AS SHOWN AND REPLACE ON NEW GRADE AS DIRECTED WITH 1" AC OVER NO BASE.

REVISIONS			CITY OF RIVERSIDE, CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
			S.S. - PROJECT NO. 174
			JEFFERSON STORM DRAIN NO. 3 IN MAGNOLIA AVENUE
			BETWEEN JEFFERSON & MADISON

DESIGNED BY CD — DRAWN BY Charles E. Robertson — APPROVED BY — PROJ. NO. 6032
CHECKED BY Ron Sams — TRACED BY GLK — CHIEF DEPUTY DIR. OF PUBLIC WORKS — DATE 3-17-65
QUANTITIES BY GLK — CHECKED BY MRO Reed — ENGINEER OF WORK — SHEET 1 OF 5



(During const. of inters.
(With flash. light)
(With Flash. Light)
2-Closed-2
Type B-1 Curb
Mount W21R and C5R on barricade
(During const. of intersection)
MADISON ST.
MAGNOLIA AVENUE
RAMONA HIGH SCHOOL
Sta. 13+50±
Place ramp over curb as directed in the field
Mount W21R and C2R signs on each barricade
FRONTAGE RD.
LILLIAN ST.
CORTEZ ST.
POTOMAC ST.
JEFFERSON ST.
1-Closed-1
Mount each sign on barricade
(With flash. light)
With flash. light
MORTUARY
Note:
1. A lane must be kept open for residents facing Magnolia at all times.
2. During Const. at Lillian St. one lane must be kept open for frontage Rd. traffic
3. During Const. at Madison St. one lane of traffic must be kept open for each direction
Stage #1 Designations
Stage #2 Designations
Symbols:
Standard barricades, Std. Dwg. #657 with W21R & W57R signs mounted on each if applicable. — Spaced at 50' —
Delineator with 3" clear reflector on both sides if applicable — Spaced at 50' or as directed by the Engr. —
State Division of Highways Std. Sign Chart
No Scale
TRAFFIC CONTROL & DETOUR PLAN
S.S.-PROJECT NO. 174
JEFFERSON STORM DRAIN
NO. 3
IN MAGNOLIA AVENUE
BETWEEN JEFFERSON & MADISON
4002
D-107
5 of 5

MAGNOLIA AVENUE

RAMONA HIGH SCHOOL

MADISON ST.

LILLIAN ST.

FRONTAGE RD.

CORTEZ ST.

JEFFERSON ST.

MORTUARY

Type B-1 Curb

Type B-1 Curb

REVISIONS			CITY OF RIVERSIDE, CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
DESIGNED BY		SUBMITTED BY	APPROVED BY
DRAWN BY A.D.D.		PARK DEPT. / TRAFFIC DIV.	DIRECTOR OF PUBLIC WORKS
CHECKED BY		RECOMMENDED BY ASSISTANT CITY ENGINEER	DATE

PROJ. NO. D-107

SHEET 5 OF 5

MISSION BLUEPRINT CO