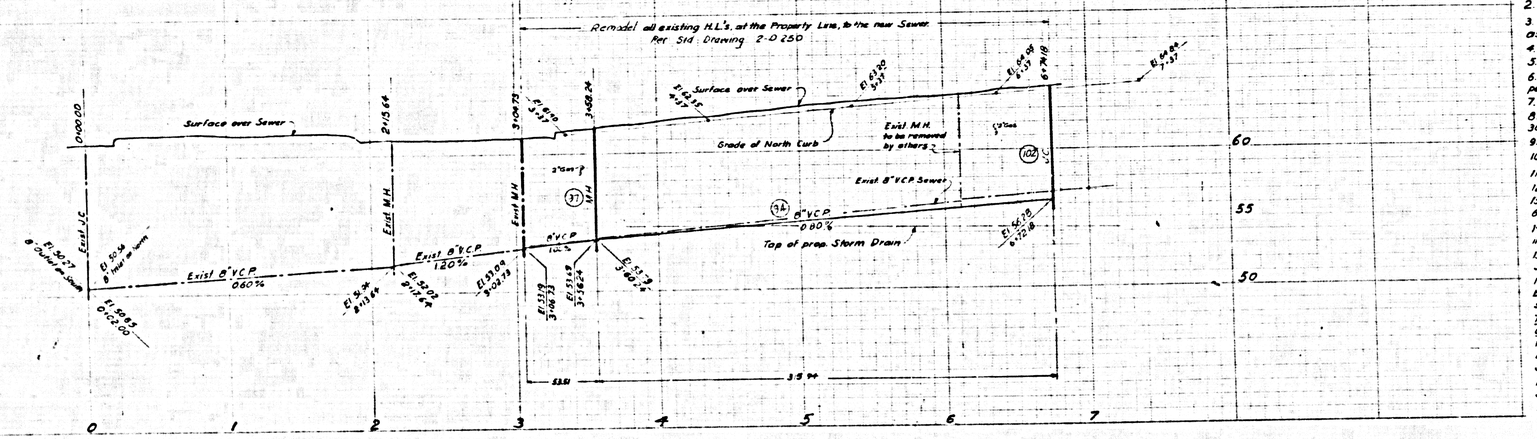
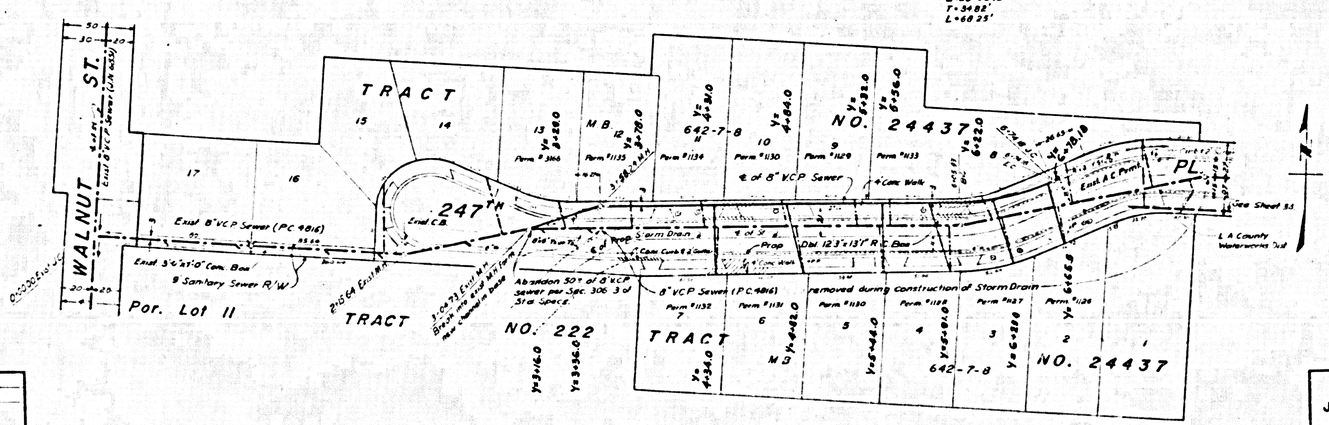
PROFILE SCALE
HORIZ. 1" = 40'
VERT. 1" = 4'

B.M. SD 208-A El 161.075 FB 3321-133
247th Pl W and 0.2 mi W. of Western Ave.
Tel. Ramset Nail in conc. Cb. S side of B.C.P.
in front of House #1063



Sewer Curve Data
R = 150'
Δ = 26°08'10"
T = 34.88'
L = 68.25'



PLAN
SCALE 1" = 40'

GENERAL SEWER NOTES

THE FOLLOWING NOTES SHALL APPLY TO CONSTRUCTION OF SEWERS UNDER JURISDICTION OF THE COUNTY ENGINEER: SHEETS 33-37, 41

1. Sanitary sewers shall be constructed in accordance with the Standard Specifications for Public Works Construction (hereinafter referred to as the Standard Specifications), Special Provisions and Standard Plans on File in the Office of the County Engineer, Sanitation Division.
2. For legend see Standard Plan S-1.
3. Use extra strength vitrified clay pipe. All pipe is standard depth, except as noted.
4. Vitrified clay pipe joints shall be type "O", "X" or "6" per Sec 208-2 of Std. Specifications.
5. "T" or "Y" branches may be used for connection to main line sewers, except as noted.
6. All structures shall be either brick manholes per S-3 or precast concrete manholes per S-5 or S-6, except as noted.
7. Use standard manhole frames and covers per Std. Plan S-15, except as noted.
8. Sewer pipe and appurtenances shall be abandoned in accordance with Section 306-3 of Standard Specifications.
9. Sewers to be tested for leakage per Section 306-2.3.7 of Special Provisions.
10. Refer to Section 7-10.4.1 of Standard Specifications for safety orders.
11. Existing sewer services and flow shall be maintained at all times.
12. No revisions shall be made to these plans without the approval of the County Engineer.
13. The Contractor shall notify the Construction Division of the County Engineer by telephone 629-4767, ext 61551, at least 24 hours before starting any work under this contract.
14. In addition to Standards listed above, the following latest revised Std. Plans shall apply in the construction of this project: S-2, S-4.7, S-31.3, 2.1, S-32.3, S-36, S-37, S-4a, S-33.
15. Cast iron pipe shall be class 150 per Section 207-9.1(c).2 or (c).3 of Standard Specifications, cement lined with mechanical joints.
16. Jointing of cast iron pipe shall be in accordance with Sec. 306-2.3.4 paragraph b, d, e. Joint for transition from vitrified clay pipe to cast iron pipe shall be rubber sleeve type (with hoop if necessary) per Sect. 208-2 of Standard Specifications.

THE FOLLOWING NOTES SHALL APPLY TO CONSTRUCTION OF SEWERS UNDER JURISDICTION OF THE COUNTY SANITATION DISTRICT: SHEETS 36-44, 46 & 47

17. All work for the construction of sanitary sewers and appurtenant structures shall be done in accordance with the Standard Specifications for The Construction of Sanitary Sewers And Appurtenances of Los Angeles County Sanitation Districts.
18. Manholes shall be brick sewer structures per S-a-201 and frames and covers per S-a-207, except as noted. All covers shall read C.S.D. No. 5.
19. The Contractor shall notify the Sanitation District by telephone 636-3097 at least 48 hours before beginning any work under this contract.
20. Unless otherwise specified, the Contractor shall construct the proposed system in such a manner that continuous flow of sewage in the C.S.D. Trunk Sewer is not interrupted. The Contractor's method of construction shall be submitted to the Sanitation District for approval before construction.
21. The Contractor shall furnish and install extra strength V.C.P. with mechanical compression joints.
22. Horizontal curves in V.C.P. sewers shall be cast using beveled pipe which has a maximum deval of 4 degrees on the spigot end. No one joint shall have a total deflection greater than 4 degrees. The pipe used to construct the horizontal curves shall be factory fabricated to the centerline radii shown on the drawings. (Unless otherwise specified)
23. Construction within the City of Los Angeles (Sheets 34 and 35) shall be in accordance with the requirements of the City.
24. Manholes constructed outside the paved surface of the street right of way shall have the manhole covers placed to meet the existing ground.

42288

DRAWN BY	REVISIONS		
County	MARK	DATE	DESCRIPTION
CHECKED BY			
County			
LOCATED BY			
County			
SUBMITTED BY			
C.W.H.			

APPROVED
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN. DIST. NO. 5
BY _____

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
_____ 3-10-69
ASST. DIVISION ENGINEER-SANITATION DIVISION

DRAWN BY	MACHINE	DESIGNED BY	
TRACED BY	VOL. 204	CHECKED BY	
QUANTITIES BY		DATE	2-19

1964 STORM DRAIN BOND ISSUE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
REGIONAL
PROJECT NO. 1104
SEWER RECONSTRUCTION
UNIT
PLAN AND PROFILE

RECOMMENDED BY	APPROVED AS TO DESIGN BY
CHIEF ENGINEER	ASSISTANT CHIEF ENGINEER
APPROVED BY	
CHIEF ENGINEER	

SCALE	DATE	DWG. NO. 364-1104-D.5.33
HORIZ. 1"=40' VERT. 1"=4'	AUG. '69	SHEET 33 OF 47

PC 7787 (S.D. PROJ. 1104, UNIT 1) SEWER RECONST.

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

Remodel all existing H.L.'s at the Property Line, to the new Sewer per Std. Drawing S-D 250

All H.L.'s are 5' below grade at Property Line

Reconstruct all existing House Laterals from Property Line to new Sewer per Los Angeles City Standard Plan B-3691

Surface over Sewer

Grade of South Curb

Exist 8" V.C.P. Sewer

Exist 8" V.C.P Sewer

8" V.C.P 0.40%

8" Clay Pipe 1.00%

Top of Prop. Storm Drain

Sta 5+82.25

Sta 3+15.00

Sta 0+00.00

267.25

315.00

B.M. S.D 264-A El 58.624 FB 3321-132
247'TH & Western Ave. Service Rd West Side
1'N of Rd Int. Jnt. in C & G Surf. 15' N of ℄ 247'TH

Remove exist. Sewer

Surface over Sewer

Exist H.C. Sta. 9+05.55 per D-9012 to be removed

8" Inlet on West

8" Clay Pipe @ 0.40%

Exist 8" C.P. Sewer @ 0.40% (form exist 8" V.C.P. Sewer at nearest gasket joint.

Exist 8" V.C.P. to be removed

Prop. Storm Drain

Exist 8" V.C.P. @ 2.00%

Sta 9+05.55 (approx. location)

14.00

TRACT NO. 16151
M.B. 373-22-23

TRACT NO. 16150
M.B. 722-36

Boundary of the City of Los Angeles

Perm # 140166 | Perm # 140167 | Perm # 160168 | Perm # 160169

17 | 18 | 19 | 20 | 23 | 24 | 25 | 26 | 27

L.A. City Dept Wtr & Pwr

So. Cal. Gas Co.

So Calif Gas Co.

Exist. 8" V.C.P. Sewer (P.C.130) removed during construction of S.D.

Existing 8" C.P. Sewer per D-9012 removed during construction of Storm Drain

Remove exist MH of Sta 9+05.55 (M) per D-9012. Reuse Mfr Frame & Cover on new Construction.

Reconstruct 24" of 8" V.C.P. Sewer See Profile B-B

Tract No. 24437 M.B. 692-7-8

247'TH

Prop. Dble 12'3"x3'1" R.C. Box

℄ of St.

Conc. Curb & Gutter

Exist. A.C. Pvmt.

PL

Conc. Driveway

4 Conc. Sidewalk

℄ of 8" V.C.P. Sewer

℄ of 8" Clay Pipe Sewer

Perm # 3657 | Perm # 160670 | Perm # 160671 | Perm # 160672 | Perm # 160673

1 | 21 | 22 | 23 | 24 | 28 | 29 | 30 | 31 | 32

Tract No. 24437 M.B. 692-7-8

TRACT NO. 16151
M.B. 373-22-23

TRACT NO. 15150
M.B. 722-36

Boundary of the City of Los Angeles

WESTERN AVE.

℄ of St.

House Connections

Exist. "Y"		New "Y"		As A	
Sta	South	Sta	South	Sta	South
North Side of St.					
0+76	9.5'			0+78	6'
1+00	6'			1+03	6'
1+46	6'			1+48	6'
2+56	9'			2+58	6'
3+05	8'			3+12	6'
South Side of St.					
0+27	9.5'			0+26	6'
0+93	8'			0+96	6'
1+98	8'			2+01	6'
2+76	8'			2+84	6'
3+25	8'			3+32	6'

City of Los Angeles Standard Plans Shown on Sht. Nº 35

42289

PLAN
SCALE: 1" = 40'

REVISIONS			
MARK	DATE	DESCRIPTION	

APPROVED
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN DIST. NO. 5
BY _____ OFFICE ENGINEER

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
9-15-69
1ST DIVISION ENGINEER, SANITATION DIVISION

1964 STORM DRAIN BOND ISSUE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
REGIONAL
PROJECT Nº 1104
SEWER RECONSTRUCTION
UNIT I
PLAN AND PROFILE

RECOMMENDED BY _____ APPROVAL RECOMMENDED BY _____
APPROVED BY _____ CHIEF ENGINEER

SCALE	DATE	DWG. NO. 364-1104-D 5 34
HORIZ. 1"=40' VERT. 1"=4'	AUG '69	SHEET 34 OF 47

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

B.M. S.D.-256, EL. 40.910, F.B. 3318-13

B.M. S.D. 255 EL 39.06 F.B. 3318-13

Reconnect all exist. house laterals to new sewer

Surface over Sewer

Existing Channel

Prop. Storm Drain

Exist. M.H.

Exist 18" C.P. Sewer

Exist 6" C.P. Sewer City of L.A. (D-16533)

Exist 8" C.P. to be abated per General Note B

Exist 57" R.C.P. Sewer (San Dist No. 5)

Sanitary Sewer R/W

Storm Drain R/W

Encase 80'± of 42" C.P. per L.A. City Std Dwg B-3714 Case XI

10' Sewer Easement to be acquired prior to construction

Remove 12.4 C.Y. Concrete per B-3468

Construct 2'-3" x 5'-6" R.C. Box

Exist 6" C.I. Water

Exist 6" C.I. Gas

Exist 8" C.I. Water

Exist 6" C.I. Water

Exist 4" C.I. Water

Exist 6" C.I. Water

Exist 8" C.I. Water

Exist 6" C.I. Water

Exist 6" C.I. Water

Exist 6

B M S.D. 247, El 64.660 F.B. 3318-17
Walnut St & 247th St (West) SW cor
Bl spk in cb 10'± S of S end C.R.

B M S.D. 248 El 58.127 F.B. 3318-18
Walnut St & Lomita Blvd N.E. cor
Bl spk in cb 20'± N of N end C.R.

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

EXTRA DEPTH IN MAIN LINE

Surface Over Sewer

Exist 8" V.C.P.

Exist 8" C.I.P.

8" V.C.P. @ 14.08%

8" Inlet on North

8" Outlet on South

El 53.44 1+18.00

El 58.99

El 55.84 1+33.00

15.00

VOID

1+16.00

1+00.00

8" Inlet on West

Exist 8" V.C.P. Sewer to be removed

Exist 8" V.C.P.

60° V.C.

El 45.39 (Low) 1+70.00

El 46.64 1+40.00

El 47.89 1+10.00

El 49.14 1+80.00

El 49.39 1+70.00

El 49.64 1+60.00

El 49.89 1+50.00

El 50.14 1+40.00

El 50.39 1+30.00

El 50.64 1+20.00

El 50.89 1+10.00

El 51.14 1+00.00

62.00

8.00

24

Exist 8" V.C.P. Sewer to be removed

8" Inlet on Northwest

8" Outlet on Southeast

El 55.94

Exist 18" Sewer to be abandoned Remove interfering portions

Exist 8" V.C.P. Sewer To be removed

Exist 8" V.C.P.

60° V.C.

El 46.63 1+40.00

El 46.88 1+30.00

El 47.13 1+20.00

El 47.38 1+10.00

El 47.63 1+00.00

El 46.76 1+50.00

El 46.51 1+60.00

El 46.26 1+70.00

El 46.01 1+80.00

El 45.76 1+90.00

El 45.51 2+00.00

El 45.26 2+10.00

El 45.01 2+20.00

El 44.76 2+30.00

El 44.51 2+40.00

El 44.26 2+50.00

El 44.01 2+60.00

El 43.76 2+70.00

El 43.51 2+80.00

El 43.26 2+90.00

El 43.01 3+00.00

El 42.76 3+10.00

El 42.51 3+20.00

El 42.26 3+30.00

El 42.01 3+40.00

El 41.76 3+50.00

El 41.51 3+60.00

El 41.26 3+70.00

El 41.01 3+80.00

El 40.76 3+90.00

El 40.51 4+00.00

El 40.26 4+10.00

El 40.01 4+20.00

El 39.76 4+30.00

El 39.51 4+40.00

El 39.26 4+50.00

El 39.01 4+60.00

El 38.76 4+70.00

El 38.51 4+80.00

El 38.26 4+90.00

El 38.01 5+00.00

El 37.76 5+10.00

El 37.51 5+20.00

El 37.26 5+30.00

El 37.01 5+40.00

El 36.76 5+50.00

El 36.51 5+60.00

El 36.26 5+70.00

El 36.01 5+80.00

El 35.76 5+90.00

El 35.51 6+00.00

El 35.26 6+10.00

El 35.01 6+20.00

El 34.76 6+30.00

El 34.51 6+40.00

El 34.26 6+50.00

El 34.01 6+60.00

El 33.76 6+70.00

El 33.51 6+80.00

El 33.26 6+90.00

El 33.01 7+00.00

El 32.76 7+10.00

El 32.51 7+20.00

El 32.26 7+30.00

El 32.01 7+40.00

El 31.76 7+50.00

El 31.51 7+60.00

El 31.26 7+70.00

El 31.01 7+80.00

El 30.76 7+90.00

El 30.51 8+00.00

El 30.26 8+10.00

El 30.01 8+20.00

El 29.76 8+30.00

El 29.51 8+40.00

El 29.26 8+50.00

El 29.01 8+60.00

El 28.76 8+70.00

El 28.51 8+80.00

El 28.26 8+90.00

El 28.01 9+00.00

El 27.76 9+10.00

El 27.51 9+20.00

El 27.26 9+30.00

El 27.01 9+40.00

El 26.76 9+50.00

El 26.51 9+60.00

El 26.26 9+70.00

El 26.01 9+80.00

El 25.76 9+90.00

El 25.51 10+00.00

El 25.26 10+10.00

El 25.01 10+20.00

El 24.76 10+30.00

El 24.51 10+40.00

El 24.26 10+50.00

El 24.01 10+60.00

El 23.76 10+70.00

El 23.51 10+80.00

El 23.26 10+90.00

El 23.01 11+00.00

El 22.76 11+10.00

El 22.51 11+20.00

El 22.26 11+30.00

El 22.01 11+40.00

El 21.76 11+50.00

El 21.51 11+60.00

El 21.26 11+70.00

El 21.01 11+80.00

El 20.76 11+90.00

El 20.51 12+00.00

El 20.26 12+10.00

El 20.01 12+20.00

El 19.76 12+30.00

El 19.51 12+40.00

El 19.26 12+50.00

El 19.01 12+60.00

El 18.76 12+70.00

El 18.51 12+80.00

El 18.26 12+90.00

El 18.01 13+00.00

El 17.76 13+10.00

El 17.51 13+20.00

El 17.26 13+30.00

El 17.01 13+40.00

El 16.76 13+50.00

El 16.51 13+60.00

El 16.26 13+70.00

El 16.01 13+80.00

El 15.76 13+90.00

El 15.51 14+00.00

El 15.26 14+10.00

El 15.01 14+20.00

El 14.76 14+30.00

El 14.51 14+40.00

El 14.26 14+50.00

El 14.01 14+60.00

El 13.76 14+70.00

El 13.51 14+80.00

El 13.26 14+90.00

El 13.01 15+00.00

El 12.76 15+10.00

El 12.51 15+20.00

El 12.26 15+30.00

El 12.01 15+40.00

El 11.76 15+50.00

El 11.51 15+60.00

El 11.26 15+70.00

El 11.01 15+80.00

El 10.76 15+90.00

El 10.51 16+00.00

El 10.26 16+10.00

El 10.01 16+20.00

El 9.76 16+30.00

El 9.51 16+40.00

El 9.26 16+50.00

El 9.01 16+60.00

El 8.76 16+70.00

El 8.51 16+80.00

El 8.26 16+90.00

El 8.01 17+00.00

El 7.76 17+10.00

El 7.51 17+20.00

El 7.26 17+30.00

El 7.01 17+40.00

El 6.76 17+50.00

El 6.51 17+60.00

El 6.26 17+70.00

El 6.01 17+80.00

El 5.76 17+90.00

El 5.51 18+00.00

El 5.26 18+10.00

El 5.01 18+20.00

El 4.76 18+30.00

El 4.51 18+40.00

El 4.26 18+50.00

El 4.01 18+60.00

El 3.76 18+70.00

El 3.51 18+80.00

El 3.26 18+90.00

El 3.01 19+00.00

El 2.76 19+10.00

El 2.51 19+20.00

El 2.26 19+30.00

El 2.01 19+40.00

El 1.76 19+50.00

El 1.51 19+60.00

El 1.26 19+70.00

El 1.01 19+80.00

El 0.76 19+90.00

El 0.51 20+00.00

El 0.26 20+10.00

El 0.01 20+20.00

El -0.24 20+30.00

El -0.49 20+40.00

El -0.74 20+50.00

El -0.99 20+60.00

El -1.24 20+70.00

El -1.49 20+80.00

El -1.74 20+90.00

El -1.99 21+00.00

El -2.24 21+10.00

El -2.49 21+20.00

El -2.74 21+30.00

El -2.99 21+40.00

El -3.24 21+50.00

El -3.49 21+60.00

El -3.74 21+70.00

El -3.99 21+80.00

El -4.24 21+90.00

El -4.49 22+00.00

El -4.74 22+10.00

El -4.99 22+20.00

El -5.24 22+30.00

El -5.49 22+40.00

El -5.74 22+50.00

El -5.99 22+60.00

El -6.24 22+70.00

El -6.49 22+80.00

El -6.74 22+90.00

El -6.99 23+00.00

El -7.24 23+10.00

El -7.49

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

B.M. SD 970 El 60.822 F.B. 3318-19
Eshelman St. (E side) 120'± S of ℄ 250th St
Bl Spk in cb 10'± S of N end cb (Use #2500B)

EXTRA DEPTH IN MAIN LINE

Remodel all existing house laterals to new sewer per Std. Dr. S-0250

Surface Over Sewer

Tel. Cable

6" Chimney

Exist J.C.

El. 50.39 18" Inlet on West

El. 49.24 8" Inlet on South

El. 50.09 4" 15.94

El. 49.56 3" 17.96

18" V.C.P. 0.64%

El. 49.91 8" Inlet on East

El. 47.74 36" Outlet on North

El. 49.92 8" Inlet on South

El. 47.79 18" Outlet on North

18" V.C.P. @ 9.086%

El. 49.91 17.02.00

El. 49.07 17.42.00

El. 47.73 0.90.00

El. 47.78 Dr. 90.00

10.00

44.00

0.46%

8" V.C.P.

12 MTD 6 MTD

El. 49.19 8" Inlet on South

Sta. 0+90.00

1+00.00

1+44.00

Sta. 1+38.63

1+28.63

El. 47.94

3"-15.96

101.98

177.33

15.00

0 1 2 3 4

PLAN
SCALE: 1" = 40'

CITY OF LOMITA

Exist 18" V.C.P. Trunk Sewer (C.I. 1003) San. Dist. Nº 5

See Sheet 38

250TH ST.

ESHELMAN AVE.

Exist 8" V.C.P. Sewer to be removed during Storm Drain Const

Prop. Dbl. 11'-0" x 9'-7" R.C. Box

℄ of Drain

℄ 8" V.C.P. Sewer

Proposed 8" Sewer (Early Sch. Proj. 625) See Sheet 46

Construct M.H. around exist 8" V.C.P. Sewer. Seal inlet on South M.H. See Sheet 38 for note 6

Exist M.H.

Shown at Right Prop. 25" Siphon See Sheet 43

℄ 25 V.C.P. Sewer

Sta. 0+90.00 Station

1+50.00 J.C. County J.C. around exist 8" V.C.P. sewer. Break out pipe for connection. Core to read San. Dist. Nº 5.

1+42.00 M.H. Construct M.H. around exist 8" V.C.P. sewer. Break out pipe for connection. Seal inlet and outlet on note 6 (Dwg. 53)

Exist 8" V.C.P. Sewer C.I. 1003

Construct 8" temporary 18" C.M.P. bypass See note at Right. Bypass shall be removed during Storm Drain Construction.

Exist 18" V.C.P. Trunk Sewer (C.I. 1003)

Exist 18" V.C.P. Trunk Sewer (C.I. 1003) San. Dist. Nº 5

Chimney El. 45.5

Exist J.C. Break into exist J.C. and form new channel in base of existing. Remove interfering portion of existing pipe.

Exist 18" V.C.P. removed during Storm Drain Construction

Chimney El. 51.0

Prop. 11'-0" x 9'-7" R.C. Box Storm Drain See Sheet 38

Prop. 30" Siphon See Dwg. Sch. Proj. 625 See Sheet 46

Exist 8" V.C.P. Sewer C.I. 1003

Sta. 1+38.63 M.H. Per note 18, Sheet 43

1+23.63 J.C. See note at Right

TRACT Nº 16989 M.B. 488 41 to 43

Exist 8" V.C.P. Sewer P.C. 2804

℄ of 8" V.C.P. Sewer 8% exist

Tel. Cable

℄ of Drain

Shown at Left

SEWER CURVE DATA
R= 25.00'
Δ= 90°00.00
T= 25.00'
L= 39.27
Maximum M/ter 4°

Note: Encase 2' on either side of power pole per S-23 (Sheet 2)

Manhole covers to read San. Dist. Nº 5

NOTE

Prior to construction of Siphon (See Sheet 43) construct temporary bypass from M.H. @ Sta 1+41.69 as shown at left and temporarily seal outlet on north of J.C. @ 1+23.63. In addition, permanently seal outlet on north of M.H. @ 1+44.00 at far left. After completion of siphon, form new channel in base of temporary bypass M.H.'s, seal inlet and outlet of temperary bypass and remove temperary seal @ the M.H. M.H. to be constructed per note 18. Sheet 43

REVISIONS

MARK	DATE	DESCRIPTION

DRAWN BY: J. A. COUNTY
CHECKED BY: J. A. COUNTY
DESIGNED BY: J. A. COUNTY
SUBMITTED BY: CAM

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7737
RECOMMENDED BY
Jan Cram 3-6-69
ASST. DIVISION ENGINEER, SANITATION DIVISION

APPROVED:
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN. DIST. NO. 5
BY J. Parkhurst

DRAWN BY: J. LEONG
DESIGNED BY: C.A.M.
TRACED BY: J. LEONG
CHECKED BY: C.A.M.

42292

1964 STORM DRAIN BOND ISSUE

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

REGIONAL
PROJECT NO. 1104
SEWER RECONSTRUCTION
UNIT 1
PLAN AND PROFILE

RECOMMENDED BY: A. J. Eberle 3-6-69
CHIEF ENGINEER
COMPILED BY: J. Leong
DESIGNED BY: C.A.M.
APPROVED BY: Walter Biard 3/6/69
CHIEF ENGINEER

SCALE: HORIZ 1"=40' VERT N.A.
DATE: 3-6-'69
DWG. NO. 364-1104-D 5.37
SHEET 37 OF 41

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

B.M. S.D. 272 El. 64.580, F.B. 3318: 20
Oak St. & 250th St. SE cor.
Bl. spk. in cb 10'± E. of E. end C.R.

EXTRA DEPTH IN MAIN LINE

Remodel all existing house laterals to new sewer per Standard Drawing S.D.150.

Exist. 6" House laterals

Surface Over Sewer

Tel. Cable

11'-9" x 13'-7" R.C.B. Drain

Const. 6" V.C.P. Chimney bore per S.D. 27

18" V.C.P. 0.52%

16'-0" x 12'-4" R.C.B. Drain

Construct 6" Chimneys to intercept exist. H.L.'s

Const. 6" V.C.P. Chimney per S.D. 27

18" V.C.P. 0.62%

DN. N-0.5 9'-6" R.C.B. Drain

Temporary 6" Stream

Chimney Base

18" V.C.P. 0.52%

M.H. per S.D. 208 & S.D. 207 Cover to read C.S.D. No. 6

Property Line

℄ of 18"

18 V.C.P.

℄ of M.H.

North wall of Drain

M.H. @ STA. 5+85.00

Sta. 14+21.70 — Sta. 9+24.01 — Sta. 5+85.00 — Sta. 2+52.00 — Sta. 1+21.06 = Sta. 0+00.00

195.69 — 341.01 — 333.00 — 130.94

CITY OF LOMITA

TRACT No. 480 M.B. 15-5

TRACT No. 5641 M.B. 94-91

TRACT No. 480 M.B. 15-5

250TH ST.

OAK ST.

ANDREO AVE.

ESHELMAN AVE.

WOODWARD AVE.

Exist. 8" V.C.P. Sewer, C.I. 1003

Exist. 18" Trunk Sewer (C.I. 1003) San. Dist. 5

Prop. 15'-0" x 12'-6" R.C. Box Storm Drain

Exist. 8" V.C.P. Sewer, C.I. 1216

Exist. 8" V.C.P. Sewer, P.C. 2834

Prop. 24" Siphon See Sheet 45

See Sheet 3

See Sheet 46

SEWER CURVE DATA
R = 78.28
Δ = 14° 36' 27"
T = 10.03
L = 19.91
Use 2° Lengths

SEWER CURVE DATA
R = 78.28
Δ = 14° 36' 27"
T = 10.01
L = 19.91
Use 2° Lengths

SEWER CURVE DATA
R = 100.00'
Δ = 22° 01' 41"
T = 19.46
L = 38.45'

PLAN
SCALE 1" = 40'

DETAIL OF M.H. @ STA. 14+21.70

DETAIL OF J.C. @ STA. 1+21.06

DETAIL OF M.H. @ STA. 2+52.00

See pulling Eye Detail Sheet 41

VOID

NOTE
SANITARY SEWER RIGHT OF WAY SHALL BE ACQUIRED PRIOR TO CONSTRUCTION.

APPROVED
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN. DIST. NO. 5
BY _____ DEPUTY

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
D.M.C. 3-C-68
ASST. DIVISION ENGINEER, SANITATION DIVISION
DRAWN BY J.O.N.J.R. | TRACED BY | CHECKED BY
ENGINEER IN CHARGE OF DESIGN C.E. NO. 4380

RECOMMENDED FOR APPROVAL
C.E. Eddy Jan. 1969
CHIEF ENGINEER
APPROVED BY
Walter E. Hoag 8/14/69
CHIEF ENGINEER

SCALE: HOR. 1" = 40' VERT. 1" = 4'
DATE: AUG. '69
DWG. NO. 364-1104-D 538
SHEET 38 OF 47 SHEETS

REVISIONS

MARK	DATE	DESCRIPTION
L.A. COUNTY		
L.A. COUNTY		
L.A. COUNTY		
D.W.M.		

42293

1964 STORM DRAIN BOND ISSUE

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

REGIONAL

PROJECT NO. 1104

SEWER RECONSTRUCTION

UNIT 1

PLAN AND PROFILE

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

EXTRA DEPTH IN MAIN LINE

Remodel all existing house laterals to new sewer per Std. Drawing D-D 250

BM SD 274 El 68.739 FB 3318-20
Norbonne Ave & 250th St, SE cor
Bf spk in cb 15'± E of E end CR

Construct 6" V.C.P. Chimneys to intercept Exist. 6" H.L.'s

Const 6" Chimney base per S-27

Surface Over Sewer

Exist. 6" House Laterals

Tel cable

Const 6" Chimney base per S-27

11'-9" x 13'-7" R.C.B. Drain

18" V.C.P 0.52%

18" V.C.P 0.52%

18" V.C.P 0.52%

18" V.C.P 0.62%

18" Outlet on East

El. 64.79

El. 61.22 18" Inlet on West

El. 59.84 / 23+20.72

El. 59.74 / 23+41.79

El. 58.02 / 19+93.72

El. 57.82 / 19+85.72

El. 56.69 / 17+53.72

El. 56.59 / 17+23.72

El. 56.49 / 17+23.70

25+17.47

29+26.72

19+51.72

17+51.72

14+21.70 M.H.

M.H.

Existing M.H.

Exist M.H. to be removed during Storm Drain construction

This Portion of the Project Applies to Proposals 2, 3, & 4

This Portion of the Project Applies to All Proposals

350.75

335.00

240.00

330.02

CITY OF LOMITA

Exist 8" V.C.P Sewer C.I. 727

TRACT 23+42.0

TRACT 9

No 480 M.B. 15-8

No 4405 M.B. 49-22

Chimney Base 24+45.0

Chimney Base 23+82.0

Chimney Base 23+40.0

Chimney Base 22+76.0

Chimney Base 22+28.0

Chimney Base 21+75.0

Chimney Base 20+95.0

Chimney Base 20+42.0

Chimney Base 20+15.0

Chimney Base 19+76.0

Chimney Base 19+24.0

Chimney Base 15+20.0

NOTE: 10" Pipe for underground cable (Pac. Tel. "Cable 05 ¾ 58")

Exist 8" V.C.P Trunk Sewers San Dist No 5.

See Sheet 40

See Sheet 38

250TH ST.

CYPRESS AVE.

EJIOA AVE.

NARBONNE AVE.

WOODWARD AVE.

Exist. A.C. Pvmt.

Exist. 6" House Lateral

Prop 11'-6" x 13'-7" R.C. Box Storm Drain

Exist 15" V.C.P Trunk Sewer (C.I. 1003) San Dist No 5

Exist 10" V.C.P Sewer C.I. 1003

Exist 8" V.C.P Sewer C.I. 1003

SEWER CURVE DATA
R = 65.17'
Δ = 17° 27' 27"
L = 19.52'
T = 10.00'

SEWER CURVE DATA
17+51.72 M.H. "D" BC Offset M.H.
R = 3200.22'
Δ = 1° 25' 56"
L = 80.01'
T = 40.00'

PLAN
SCALE: 1" = 40'

DETAIL OF EXIST OFFSET M.H.
RECONSTRUCTION OF EXIST M.H. APPLIES TO PROPOSAL 1 ONLY

DETAIL OF OFFSET M.H. "D" AT STATION 17+51.72
APPLIES TO PROPOSAL 1 ONLY
SCALE ⅜"=1'-0"

42294

REVISIONS			
L.A. County	MAT.	DATE	DESCRIPTION
L.A. County			
L.A. County			
C.M.M.			

APPROVED:
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN DIST. NO. 5
BY

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
ASST. DIVISION ENGINEER, SANITATION DIVISION
DATE 3-6-68

1964 STORM DRAIN BOND ISSUE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
REGIONAL
PROJECT NO. 1104
SEWER RECONSTRUCTION
UNIT I
PLAN AND PROFILE

APPROVED BY
RECOMMENDED BY
CHIEF ENGINEER

SCALE: Horiz. 1"=40' Vert. 1"=4'
DATE: AUG. '69
DWG. NO. 364-1104-D5.39
SHEET 38 OF 47

TRUNK

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

EXTRA DEPTH IN MAIN LINE

Remove all existing house laterals to new sewer per Std. Drwg. V-3.050

Surface Over Sewer

Construct 6" chimneys to intercept exist. H.L.'s

Exist 6" V.C.P House Laterals

Exist J.C. El. 64.42 8" Inlet on North

El. 64.4 18" Inlet on West

Exist 6" V.C.P Chimneys per T.27

Construct 6" V.C.P. Chimney per St. 27

18" V.C.P. @ 0.52%

14" V.C.P. @ 0.52%

12'8" x 13'-1" R.C.B. Drain

El. 63.51 30+04.47

El. 63.41 30+00.47

El. 61.23 29+79.47

12" Outlet on East

This Portion of the Project Applies to Proposals 3.64

100.56

425.00

CITY OF LOMITA

TRACT

PENNSYLVANIA AVE.

250TH ST.

CYPRESS ST.

Exist 15" Palos Verdes Trunk Sewer San Dist No 5

Exist 12" V.C.P. Trunk Sewer (C.I. 1003) San Dist No 5

Exist A.C. Pvmt

Prop. 12'3" x 13'-7" R.C. Box Storm Drain

Exist 8" V.C.P. Sewer C.I. 727

Exist 8" V.C.P. Sewer C.I. 727

Chimney 32+95.0

Chimney 32+41.0

Chimney 32+32.0

Chimney 31+92.0

Chimney 31+41.0

Chimney 31+04.0

Chimney Y=30+44.0

Chimney 29+90.0

Chimney Y=29+75.0

Chimney 29+14.0

T=28+74.0

Chimney 28+28.0

Chimney 27+83.0

No Chimney 27+01.0

Per # 6.204

Per # 7.257

Per # 8.154

Per # 9.154

Per # 10.41

Per # 12.618

Per # 13.218

Per # 14.142

Per # 15.143

Per # 16.143

Per # 17.143

Per # 18.143

Per # 19.143

Per # 20.143

Per # 21.143

Per # 22.143

Per # 23.143

Per # 24.029

Per # 25.029

Per # 26.029

Per # 27.029

Per # 28.029

Per # 29.029

Per # 30.029

Per # 31.029

Per # 32.029

Per # 33.029

Per # 34.029

Per # 35.029

Per # 36.029

Per #

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

B.M. S.D. 278 El 79.57 ft. F.B. 3318: 21
Pennsylvania Ave. & 250th St. NE cor.
Bl. 32 M. in cb 18' E. of E. end C.R.

Remodel all existing house laterals to new sewer per Standard Drawing 2-0.250

Surface Over Sewer

EXTRA DEPTH IN MAIN LINE

Exist 6" H.L.S.

8" V.C.P. 0.40%

Exist 6" H.L.S.

8" V.C.P. 0.40%

Exist 6" H.L.S.

Exist 24" R.C.P. Storm Drain

8" V.C.P. 1.44%

12" V.C.P. 2.0%

El. 68.54 10" Inlet on South

El. 68.54 12" Outlet on East

El. 75.87 / 74.69

El. 74.67 / 73.69

El. 73.73 / 73.69

El. 70.09 / 73.89

El. 68.69 / 70.00

This Portion of the Project Applies to Proposal 3.19

305.00 226.00 254.00 91.59 100.00

CITY OF LOMITA

Exist. 10" V.C.P. Sewer C.I. 1003 to be removed during construction of Storm Drain

These Lots served by 15" Palos Verdes Trunk Sewer

Prop. 12'-3" x 13'-7" R.C. Box Storm Drain

Exist. 15" Palos Verdes Trunk Sewer, San. Dist. No. 5

Aband. exist. sewer per note 8

Existing A.C. Pvmt

Exist. A.C. Pvmt

Exist. Bldgs.

250TH

Joint Assoc. app.

4" M.W.

12' Conc. Walk

CRENSHAW BLVD.

PENNSYLVANIA AVE.

See Sheet 10

1+00.00 M.H. Construct 14" around exist. 12" V.C.P. Sewer per C.S.D. Std. 5-a-201

15-a-201 Remove interfering portion of 12" Pipe Cover to read C.S.D. M.H. 6

Exist. 12" V.C.P. Trunk Sewer, (C.I. 1003) San. Dist. No. 5.

Exist. 10" V.C.P. Sewer, C.I. 1003

Construct 1 C.O. on exist. 10" V.C.P. Sewer per C.S.D. Std. 5-a-201 & 5-a-201 Seal outlet at North Corner to read C.S.D. No. 5

TRACT No. 17125 592

Notes: Encase 2' on either side of power poles per S-23, Case IX.

42388

PLAN
SCALE: 1" = 40'

REVISIONS			
MARK	DATE	DESCRIPTION	

DRAWN BY: L.A. County
CHECKED BY: L.A. County
DESIGNED BY: L.A. County
SUBMITTED BY: C.M.H.

APPROVED:
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN. DIST. NO. 5
BY [signature]

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
[signature] 3-6-68
ASST. DIVISION ENGINEER SANITATION DIVISION
DRAWN BY: L.H.W.D.
TRACED BY: L.H.W.D.
DESIGNED BY: [illegible]
CHECKED BY: [illegible]
G. RAUB

1964 STORM DRAIN BOND ISSUE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
REGIONAL
PROJECT NO. 1104
SEWER RECONSTRUCTION
UNIT 1
PLAN AND PROFILE

RECOMMENDED BY: [signature] ENGINEER MANAGER
APPROVED BY: [signature] CHIEF ENGINEER

SCALE	DATE	DWG. NO.
Horiz. 1"=40' Vert. 1"=4'	AUG. '69	364-1104-D 5-41

SHEET 41 OF 47

PROFILE SCALE:
HORIZ: 1"=8'
VERT: 1"=4'

NOTE: Contractor shall notify Mr. Robert Rowell Ne 63097 at least 48 hrs. prior to commencing construction on the Trunk Sewer.
Horiz & Vert curves shall be constructed using beveled pipe which has a max. bevel of 5 degrees on each end. No one joint shall have a deflection greater than 10 degrees. Joints shall be a minimum of 4 feet apart. The pipe used to construct the horizontal curves shall be factory fabricated to centerline radii as shown.
Contractor to maintain flow at all times.

Note: Siphon M.H. Covers to read C.S.D. No. 5

Note: The Contractor shall construct the proposed siphon in such a manner that continuous flow of sewage in the C.S.D. Trunk Sewer is not interrupted. The Contractors method of construction shall be submitted to the County Sanitation Districts for approval before construction. All work done and all materials furnished on C.S.D. Trunk Sewer shall be subject to inspection and approval of Sanitation District representatives and the Contractor shall prosecute the work only in his presence.

NOTE: Interfering portions of exist 48" R.C.P. Trunk Sewer shall be removed during Storm Drain Construction and ends sealed with brick and mortar. Prior to sealing, the the Trunk Sewer shall be completely drained.

Sewer Curve Data
R = 20.37'
Δ = 45°00'00"
L = 16.00'
T = 8.44'
Use 4' length pipes 5° Bevel @ both ends except @ Sta 3+99.00 use 5° deflection (See Sht 44)

Sewer Curve Data
R = 20.37'
Δ = 45°00'00"
L = 16.00'
T = 8.44'
Use 4' length pipes 5° Bevel @ both ends except @ Sta. 11+93 use a 5° deflection (See Sht 44)

Construct 6" V.C.P. house lateral at 90° to exist house sewer at property line and saddle per S-28 to exist 8" V.C.P. Sewer

House Lateral for # 63062 to be abandoned

Support exist catch basin in place during construction of siphon

Encase 51" R.C.P. Siphon as shown on detail above

Exist San Dist M.H. to be abandoned

Exist 8" V.C.P. Sewer C.I. 727

Exist 6" M.H. to be abandoned

Siphon Structure See Sheet 44

Existing 8" V.C.P. Sewer P.C. 3635

Existing 2" Lomita Trunk Sewer Sanitation District No 8

Existing 8" V.C.P. Sewer C.I. 1028 To be aband. See Sheet 36

Exist 8" Sewer per M.H. 4285

Exist 8" Water

Exist 8" Gas

Exist 10" Gas

Exist 10" Baseline

Exist 42" R.C.P. Storm Drain

Exist 48" R.C.P. @ 2.38%

Exist 51" R.C.P. @ 0.30% slope

Exist 48" R.C.P. @ 0.30% slope

Exist 48" R.C.P. @ 0.38%

Exist 48" R.C.P. @ 0.38%

Exist 48" R.C.P. Trunk Sewer

Exist 48" R.C.P. Trunk Sewer to be abandoned & removed as per note below.

Proposed Dbl. R.C. Box 15'-8" W x 9'-7" Storm Drain

6" M.L. to be aband

Prop 8" V.C.P. Sewer

Support wall per Metropolitan Water District Std C-9561

Exist 6" Water

Exist 8" Water

Exist 8" Sewer per M.H. 4285

Exist 8" Sewer per M.H. 4285 to be aband & all of 51" R.C.P. Siphon See Detail at Left

Exist 8" Sewer per M.H. 4285 to be aband

Exist 6" M.H. to be aband

Exist 6" M.H.

Exist Catch Basin

Exist 6" Gas

Exist 8" Water

Exist 10" Baseline

Exist 42" R.C.P. Storm Drain

Exist 48" R.C.P. @ 2.38%

Exist 48" R.C.P. @ 2.38%

Exist 48" R.C.P. @ 2.38%

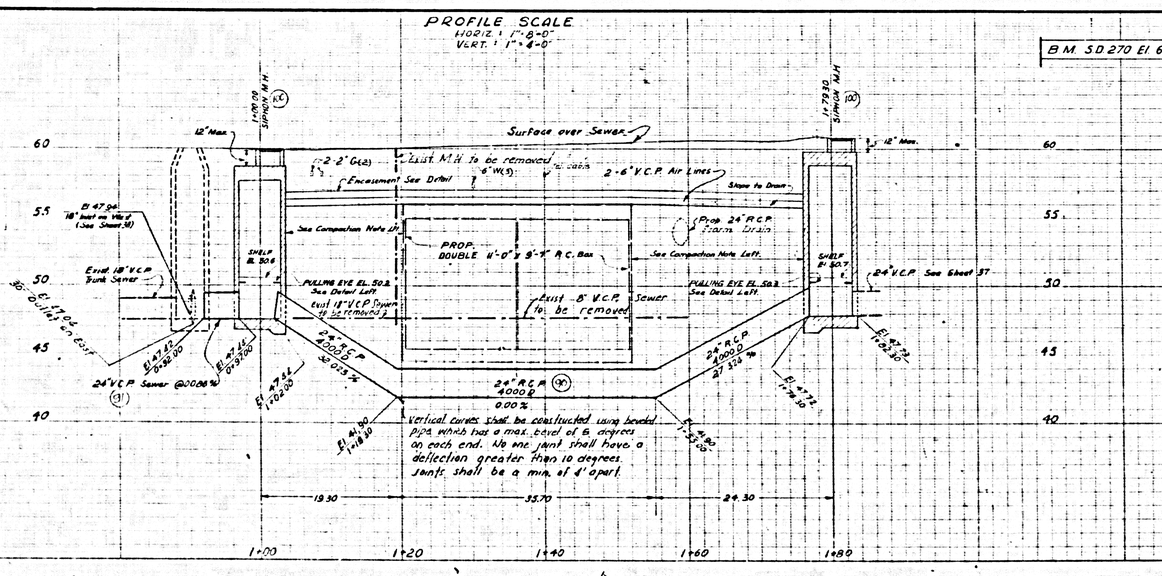
PROFILE SCALE
HORIZ. 1" = 8'-0"
VERT. 1" = 4'-0"

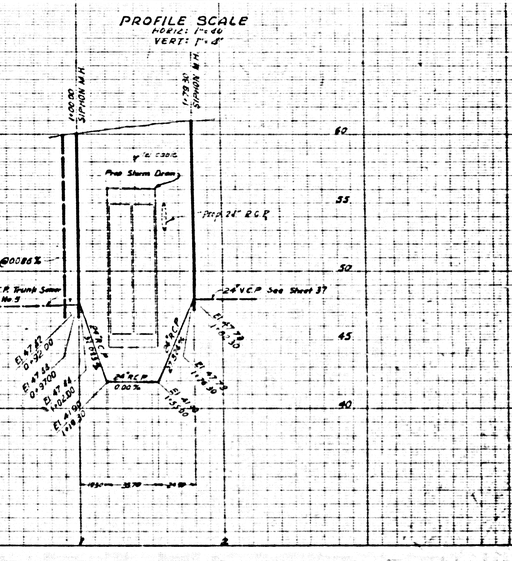
BM SD 270 El 60.822 FB 3318-19

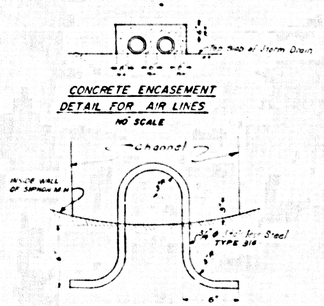
PROFILE SCALE
HORIZ. 1" = 40'
VERT. 1" = 8'

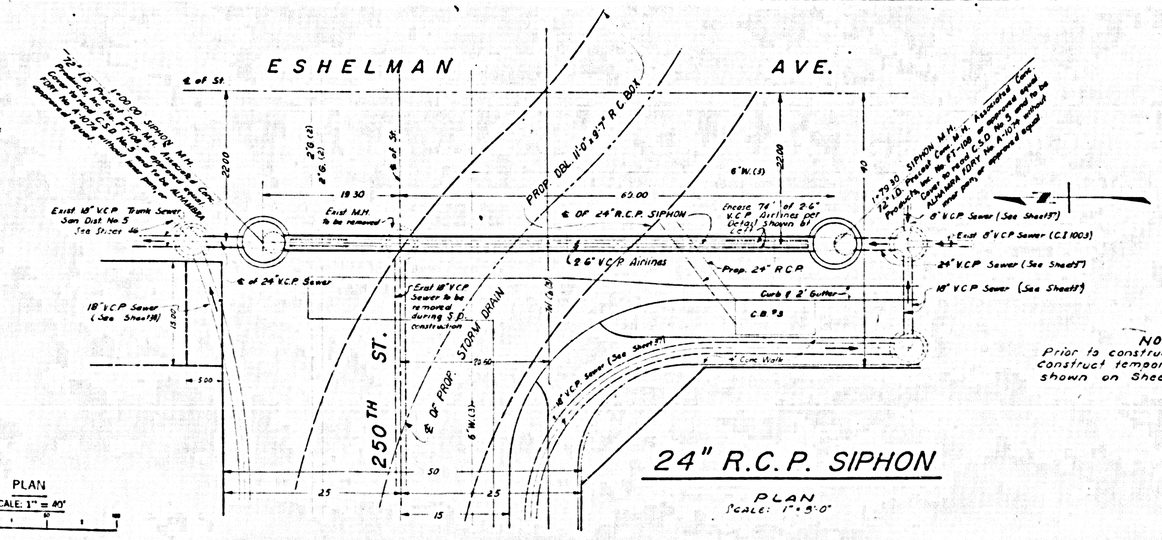
COMPACTION NOTE

The Contractor shall compact the trench backfill under the 2-6" Airlines, 5' RT and 5' LT, to a relative density of 95% in accordance with A.S.T.M. D-1556 & A.S.T.M. D-1557.

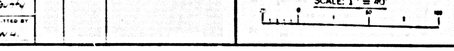




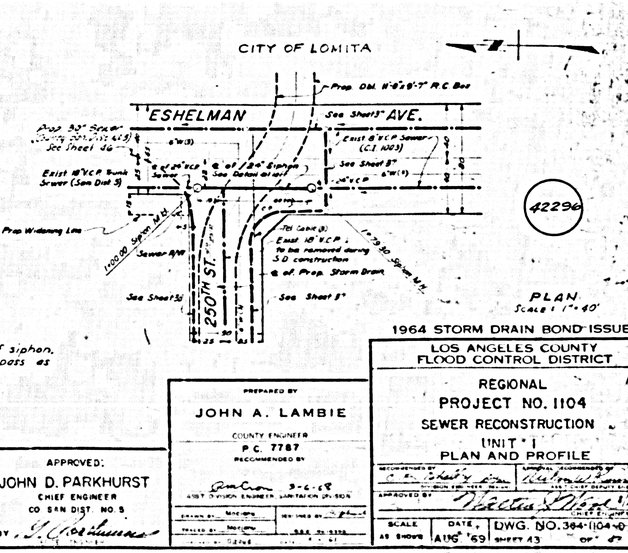




24" R.C.P. SIPHON
PLAN
SCALE: 1" = 50'



NOTE
Prior to construction of siphon, construct temporary bypass as shown on Sheet 37.



42296

REVISIONS

MARK	DATE	DESCRIPTION

DESIGNED BY L.A. County
CHECKED BY L.A. County
QUANTITIES BY L.A. County
SUBMITTED BY C.N.W.

APPROVED:
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN DIST. NO. 5
BY J. Parkhurst

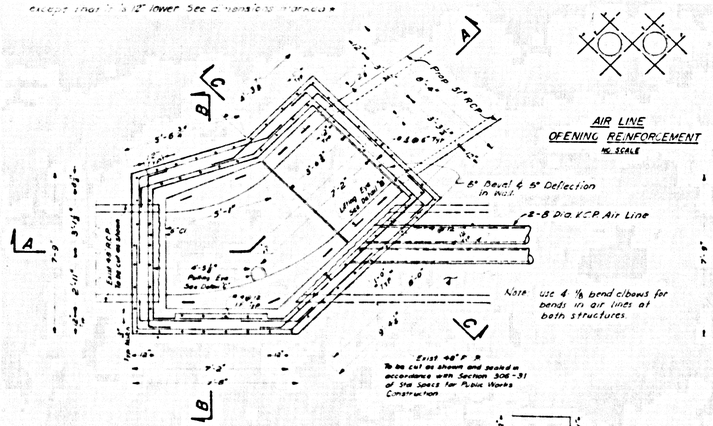
PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
3-6-69
ASST. DIVISION ENGINEER - SANITATION DIVISION
DRAWN BY MW/MN
TRACED BY MW/CM
DATE
CHECKED BY JAL
DATE 3-6-69

1964 STORM DRAIN BOND ISSUE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
REGIONAL
PROJECT NO. 1104
SEWER RECONSTRUCTION
UNIT "I"
PLAN AND PROFILE
RECOMMENDED BY
CHIEF ENGINEER AND GENERAL MANAGER
APPROVED BY
CHIEF ENGINEER AND GENERAL MANAGER
3-6-69
SCALE AS SHOWN
DATE APRIL '69
DWG. NO. 364-1104-D 543
SHEET 43 OF 87 SHEETS

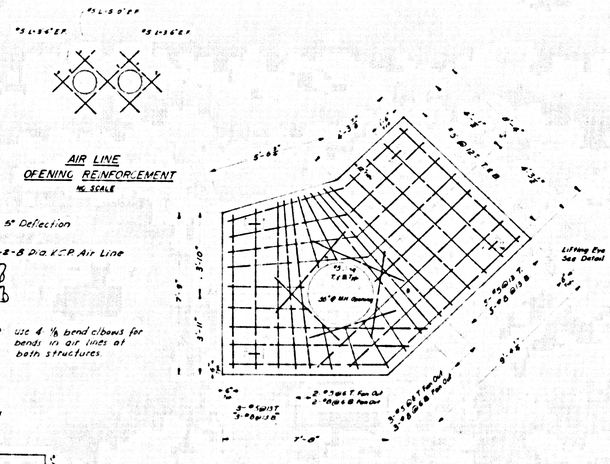
TRUNK

NOTE

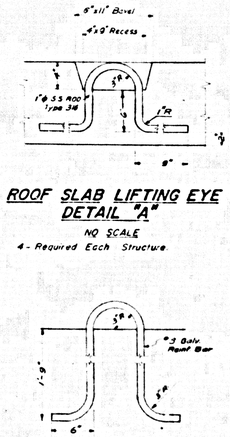
Details on this sheet are for upstream structure only.
Downstream structure is a mirrored image of upstream structure,
except that "S" is 2" lower. See General Notes Sheet.



PLAN - SECTION H-H

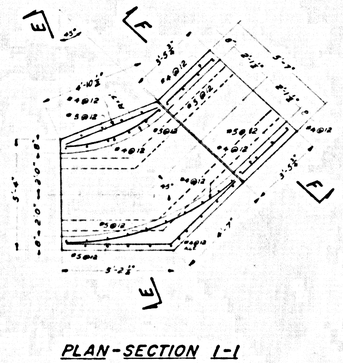


ROOF PLAN

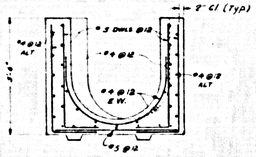


ROOF SLAB LIFTING EYE DETAIL "A"
NO SCALE
4 - Required Each Structure.

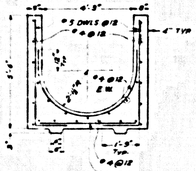
CHANNEL LIFTING EYE DETAIL "B"
NO SCALE
9 - Required Each Structure



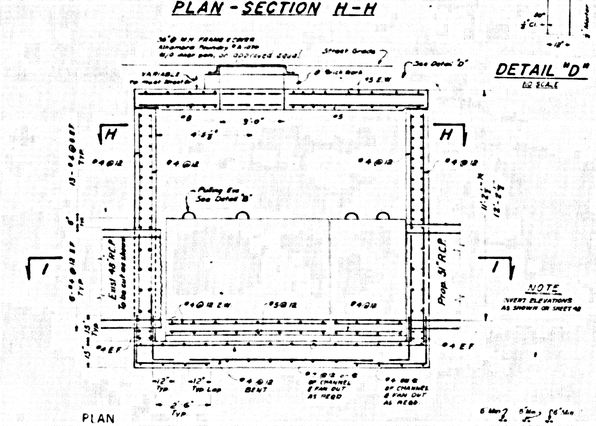
PLAN - SECTION I-I



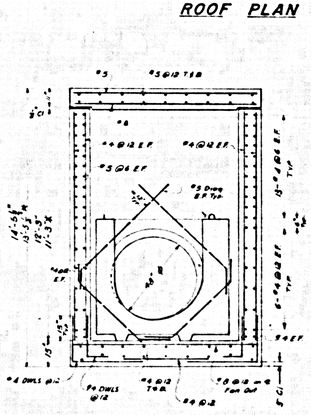
SECTION E-E



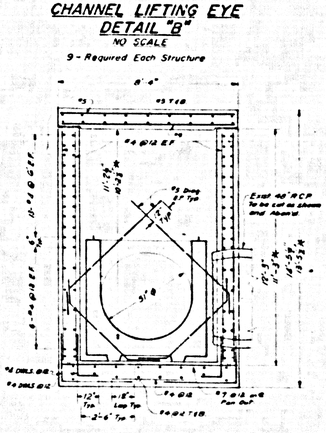
SECTION F-F



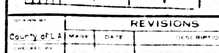
SECTION A-A



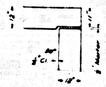
SECTION B-B



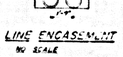
SECTION C-C



PLAN
SCALE 1" = 40'

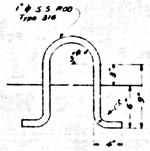


DETAIL "D"
NO SCALE



AIR LINE ENCASEMENT
NO SCALE

Note: for encasement of air lines in top slab of storm drain, see sheet.



PULLING EYE DETAIL "C"
NO SCALE
1 - Required each Structure.

AIR LINE OPENING REINFORCEMENT
NO SCALE

Note: use 4 ½ bend elbows for bends in air lines at both structures.

GENERAL NOTES

1. All backfill around and under structures shall be compacted to 90% relative density at optimum moisture content.
2. All concrete used in the project shall develop a strength of 3,000 psi at 28 days.
3. All reinforcing steel shall be intermediate grade.
4. Deformed bars with deformation conforming to A.S.T.M. specifications shall be used.
5. All bar bends shall conform to the American Concrete Institute Manual for Standard Practice.
6. Coarse aggregate shall not exceed ¾" in maximum in size.
7. Reinforcing steel shall have a minimum cover of 3" where concrete surface is in contact with the ground after removal of forms. Other min. cover equals 2"
8. Existing pipe will be cut by the forces of the County Sanitation District of Los Angeles County and removed and disposed of by the Contractor.
9. The Contractor shall trim existing pipe ends in the structures as necessary to facilitate the precast concrete channels.
10. The precast channels shall be placed at a period of low flow as directed by the County Sanitation District. All debris in the bottom of the structure which might interfere with the placement of the channels shall be removed.
11. Channel section to be lifted into place with horizontal strut between opposite lifting eyes.
    All outside dimensions shall be verified prior to construction of precast concrete channel.
12. Voids between precast channels and Structure walls shall be filled with concrete and the shelves sloped to drain into channels.

REVISIONS			
County of L.A.	MARK	DATE	DESCRIPTION
County of L.A.			
County of L.A.			
C.W.H.			

APPROVED
JOHN D. PARKHURST
CHIEF ENGINEER
CO. SAN. DIST. NO. 5
BY G. Parkhurst

PREPARED BY
JOHN A. LAMBIE
COUNTY ENGINEER
P.C. 7787
RECOMMENDED BY
9-25-68
ASS'T DIVISION ENGINEER, SANITATION DIVISION

42297

1964 STORM DRAIN BOND ISSUE

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

REGIONAL
PROJECT NO. 1104
SEWER RECONSTRUCTION
UNIT I

APPROVED BY [illegible] CHIEF ENGINEER
APPROVED BY Walter L. Ward 9/30/69 CHIEF ENGINEER

SCALE 8"=1'-0" | DATE AUG. '69 | DWG. NO. 364-1104-D 5.44 | SHEET 44 OF 47

PROFILE SCALE
H: 1" = 40'
V: 1" = 8'

DEPTH FEET	DESCRIPTION
	1.5 FT BROWN & LT GY CLAY, HARD & DRY
5	BROWN SANDY CLAY FIRM & DRY
10	BROWN SAND GRAVEL, MOIST & FIRM
15	LIGHTER COLOR SUGAR SAND MOIST & FIRM
20	END OF BORING

*ALL SEWER ELEVATIONS INDICATED ON THIS DRAWING ARE NGVD ON C.S.D. DATUM. ADD 0.35' TO ELEVATIONS SHOWN TO OBTAIN C.S.D. DATUM

B.M. S.D. 270 EL 60.822 F.B. 3318-19
ESHELMAN ST (E SIDE) 120'± OF THE ℄ OF 250TH ST. AT SPK IN CURB HSE #25008

EXIST. JUNCT. STRUCTURE O+00 SEE DETAIL SH. 47

SURFACE OVER SEWER

EXIST M.H.'s SUPPORT IN PLACE

EXIST R.C. CHIMNEYS SUPPORT IN PLACE

6"V.C.P AIR LINE

8" SEWER SUPPORT

R.C. SUPPORT

M.H. 3+55.00

12'-6"x7'-0" R.C.S.D. STORM DRAIN PROJECT NO 1104 LACFCD

M.H. 4+34.60

72" PRECAST ℄ 6+65.52 SEE DETAIL SH. 47

EXIST 18" OUTLET (H) 47.50

PROP. 18" OUTLET (H) EXIST. SEE SH. 48

PROPOSED 84" SIPHON SEE SHEET 48

60

50

30" R.C. PIPE

0.16%

INVERT EXIST 18" CONN "A"

21" SEWER

PROVIDE GRAVEL BED

344'-30" R.C. PIPE 2000.0

226'-30" R.C. PIPE 2000.0

Jack 15'-30" RCP 2000.0

CURVE DATA
Δ = 37°13' 30"
R = 45'
T = 29.55
L = 29.98
D.C. = 01°22'30"
E.C. = 10°47'32"

TEST HOLE SEE ABOVE

48" SEWER 18'± N OF ℄ LOMITA RELOC TR SEWER SEC 2

EXIST. JUNCT. STRUCTURE O+00 (45.96' RT OF P.I. STA 7+67.19) SEE DETAIL ON SHEET

REMOVE 60'± OF EXIST 18" V.C.P.
REFILL TO GRADE WITH GRAVEL

18" WATER, 36'± N OF ℄ L.A. COUNTY WATER W. (DIST 18)

P.I. 6' RT. P.B. STA 7+61.66

8" V.C.P. CONN

ESHELMAN BLVD.

ALLEY

TRACT Nº 3940 M.B. 42-81

TRACT Nº 241 M.B. 18-200

8"V.C.P SEWER, 27'± OF ℄ C.I. 1003

6" WATER, 18'± OF ℄ L.A. COUNTY WATER W. (DIST 18)

21" SEWER, 19'± OF ℄ LOMITA TR SEWER (C.I. 727)

8" GAS, 5'± OF ℄ SO CALIFORNIA GAS CO

18" V.C.P. CONN "A" (TO BE ABAND)

8" V.C.P. SEWER C.I. 1003

6" WATER L.A. COUNTY WATER W.

8" GAS SO CALIFORNIA GAS CO

8" V.C.P. SEWER P.C. 36+28

8" SEWER C.I. 1003

6" WATER L.A. COUNTY WATER W.

8" GAS SO CALIFORNIA GAS CO

PROP 12"x8" SIPHON 22'± W OF ℄

PROP 15'-0"x 9'-7" R.C.S.D. PROJ. NO 1104 (SH. 9)

72" PRECAST J.C. 6+65.52 = 1+21.06 (SEE SH. 98) (22'± LT P.B. STA 1+28.97) SEE DETAIL ON SH 47

AVE.

TRAFFIC ALIVATOR (PLANT MIX PVMT)

EXIST J.C. SEE DETAIL & NOTE AT RT.

8" V.C.P. SEWER (ABAND.)

8" V.C.P. SEWER, 4'± N OF ℄ LOMITA UNIT 3 (IN SEW.)

45" R.C.P. SEWER, 18'± N OF ℄ LOMITA RELOC TR SEWER

4 DUCT 405'± OF ℄ PAC TEL CO

M.H. 5+50.00 SEE NOTE 18 SH 33 AND DETAIL HEREON

8" V.C.P. PIPE AIR LINE SEE DETAIL AT (PLANT MIX PVMT)

6" STUB

CABLE 20'± S OF ℄ PACIFIC TEL CO

6" WATER 18'± S OF ℄ L.A. COUNTY WATER W (DIST 18)

12"x 7' R.C.S.D. 11'± S OF ℄ PROJECT NO. 1104 LACFCD

18" SEWER ON ℄ C.I. 727

14" PROP 18" V.C.P. SEWER, 22'± N OF ℄ (Sim SH.)

8" GAS, 18'± N OF ℄ SO CALIFORNIA GAS CO

(ABAND.) 6" GAS, 11'± N OF ℄ SO CALIFORNIA GAS CO

PROP. 84" R.C.P. SIPHON, 80'± S OF R.

6" WATER, 11'± S OF ℄ L.A. COUNTY WATER W.

18" SEWER ON ℄ C.I. 1003

8" SEWER 22'± W OF ℄ C.I. 1003

CURVE DATA
Δ = 45°00'00"
R = 25'
T = 11.18
L = 30.96
D.C. = 61°09'22"
E.C. = 6°44'56"

TRACT Nº 5431 M.B. 13-28

TRACT Nº 5641 M.B. 64-91

TRACT Nº 16989 M.B. 488-47-48

248TH ST.

250TH ST.

T=4+55.0

T=5+03.0

T=5+71.0

T=6+03.0

EXIST 18" V.C.P. CONN "A" TO BE ABANDONED

BRICK BULKHEAD

EXIST 18" V.C. PIPE

REMODEL EXIST J.C. IN LOMITA BLVD.
(TO BE PAID FOR UNDER "30" PIPE ITEM)

NOTE
THE CONTRACTOR SHALL DIVERT THE FLOW NORTH INTO EXISTING LOMITA TR SEWER (C.I. 727) BY REMOVING EXISTING WOODEN STOP LOG FROM "B" AND PLACING IT IN STOP LOG NOTCH AT 14" BRICK BULKHEAD R/STAND 18" CONN "A" AND PLASTER AND FILL IN CONN "A" ENAMEL DURING LOW FLOW PERIOD TO CONFORM WITH NEW DIRECTION OF FLOW AS DIRECTED BY THE CO. SANITATION DISTRICT REPRESENTATIVE.

VERTICAL CURVES SHALL BE CONSTRUCTED USING BEVELED PIPE WHICH HAS A MAX. BEVEL OF 5 DEGREES ON EACH END. NO ONE JOINT SHALL HAVE A DEFLECTION GREATER THAN 10 DEGREES. JOINTS SHALL BE A MIN. OF 6' APART.

3+50 3+60 3+70 3+80 3+90 4+00 4+10 4+20 4+30

SURFACE OVER SIPHON

12'-7" R.C. STORM DRAIN

JACK 30" TUNNEL AT INCH STATIONS

8" V.C.P. SEWER LINE

6" WATER

8" GAS

30" R.C. PIPE

21.50%

25.90%

EL 41.86 SIPHON M.H. 41.86 SEE SH. 33

EL 41.86 41.12 33

EL 45.76 41.34.42

30" R.C.P. SIPHON
VERT. & HORIZ. SCALE: 1"=10'

6" WATER 2" GAS

SIPHON M.H. 41.86 SEE SH. 33

EXIST 8" SEWER (C.I. 1003)

PROP 30" R.C. PIPE TR SEWER

ESHELMAN AVE

EXIST 18" SEWER (C.I. 727)

EXIST. J.C.

PROP 8" V.C.P. AIR LINE ENCASE IN CONC 6" MIN THICKNESS

PLAN
AIR LINE DETAIL
SCALE: 1"=10'

42298

1964 STORM DRAIN BOND ISSUE

REVISIONS			
	MARK	DATE	DESCRIPTION
County ENGINEER BY			
County APPROVED BY			
County W. MASTER BY			
CITY H			

PREPARED BY
COUNTY SANITATION DISTRICT Nº 5 OF LOS ANGELES COUNTY

CHIEF ENGINEER

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

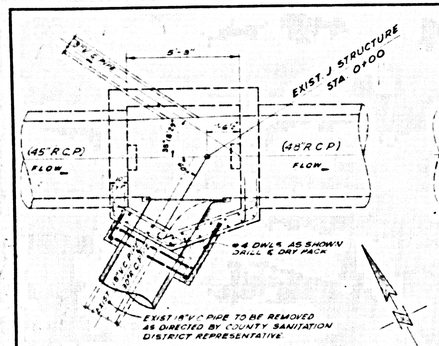
REGIONAL
PROJECT NO. 1104 UNIT I
PROPOSED 30" TRUNK SEWER
COUNTY SANITATION DISTRICT NO. 5
STA. 0+00 TO STA. 6+51.9

PLAN AND PROFILE

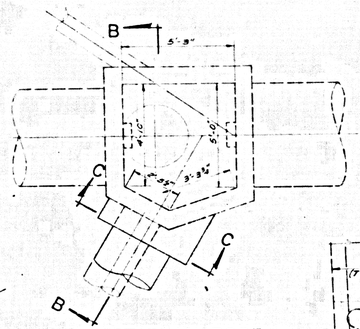
DESIGNED BY	DRAWN BY	CHECKED BY
C.E. Peterson Jr.	Richard Kramer	

APPROVED BY Walter Price
CHIEF ENGINEER

SCALE	DATE	DWG. NO. 364-1104-0546
AS SHOWN	AUG. '69	SHEET 46 OF 47



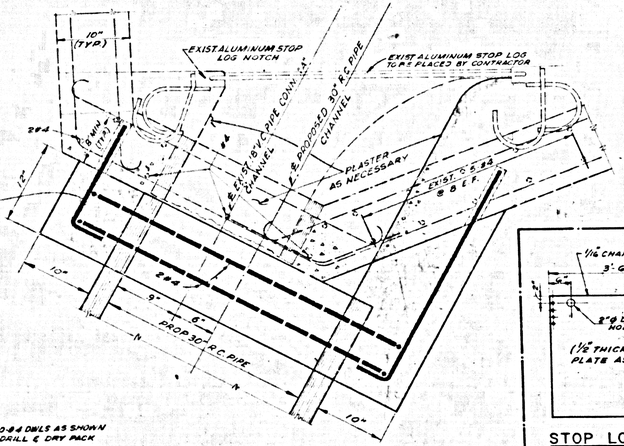
EXIST PLAN SECTION A-A



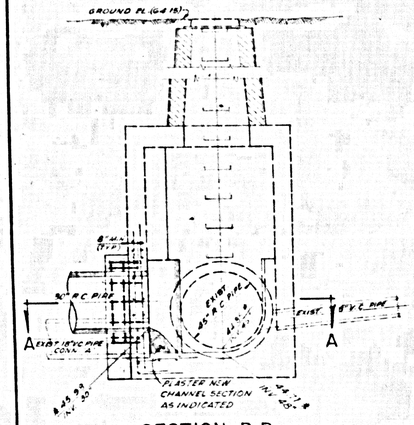
EXIST. PLAN ROOF

NOTES REGARDING 72"PRECAST JUNCTION CHAMBER

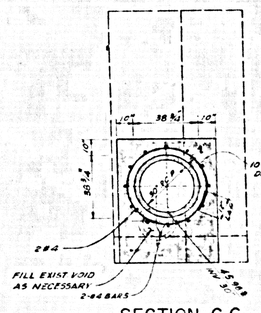
1. 72" I.D. RISER SECTIONS SHALL BE REINFORCED IN ACCORDANCE WITH A.S.T.M. C478 AND SHALL HAVE 6" MINIMUM WALL THICKNESS
2. JOINTS MAY BE THE TYPE SHOWN OR TONGUE AND GROOVE AND SHALL CONFORM WITH A.S.T.M. C-478 SECTION 14
3. THE PRECAST UNITS SHALL CONFORM WITH SECTION 23 OF THE COUNTY SANITATION DISTRICTS STANDARD SPECIFICATIONS PARAGRAPHS (A), (E), (D), (F), (G), (I), AND (M). CURING OF PRECAST SHALL CONFORM WITH SECTION 23 PARAGRAPH (E).
4. PRECAST UNITS SHALL BE ASSEMBLED USING MORTAR CONFORMING WITH SECTION 19 OF THE COUNTY SANITATION DISTRICTS STANDARD SPECIFICATIONS.



CHANNEL RECONSTRUCTION
SCALE 1 1/2" = 1'-0"



SECTION B-B



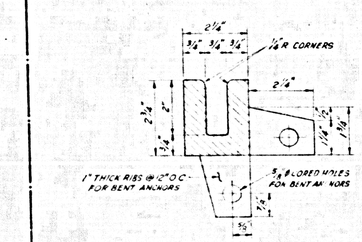
SECTION C-C

DETAIL CONNECTION TO
EXISTING JUNCTION STRUCTURE
AT STA. 0+00
(SEE SH.)
SCALE 3/8"=1'-0"
(TO BE PAID FOR UNDER 30" PIPE ITEM)
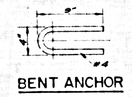
* ALL SEWER ELEVATIONS INDICATED ON THESE DRAWINGS ARE NOT DATED ON C.S.D. DATUM ADD 0.35 TO *ELEVATIONS SHOWN TO OBTAIN C.S.D. DATUM

AFTER THE FLOW IS DIVERTED FROM 18"V.C. PIPE THE CONTRACTOR SHALL INSERT THE ALUMINUM STOP LOG, FURNISHED AT THE JOBSITE BY THE COUNTY SANITATION DISTRICT No.5 INTO EXISTING JUNCTION STRUCTURE AT STA. 0+00, CHIP OUT PORTION OF EXISTING "A" CHANNEL AND 10" EXISTING WALL AND RECONSTRUCT CHANNEL FOR PROPOSED 30" PIPE. PLACE THE 30" PIPE AND FORM PROPOSED CONNECTION AS INDICATED ON THIS DRAWING. WORK SHALL BE DONE AS DIRECTED BY COUNTY SANITATION DISTRICT REPRESENTATIVE. FOR BACK FILL, CONCRETE, AND REINFORCING STEEL REQUIREMENTS, SEE GENERAL NOTES ON SHEET NO. 44.

REVISIONS			
County		DATE	DESCRIPTION
County			
County			
C.W.H.			

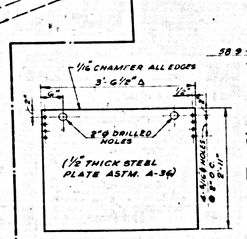


CAST IRON STOP LOG NOTCH

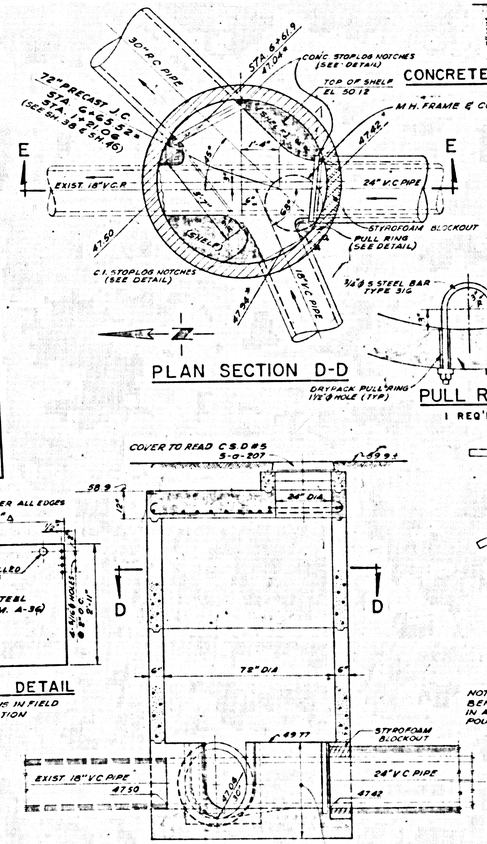


BENT ANCHOR

NOTES:
1. CAST IRON NOTCHES SHALL BE GRAY IRON CASTING ASTM-A48 CLASS 35 B.
2. SUBMIT SHOP DWGS. FOR APPROVAL OF COUNTY SANITATION DISTRICT REPRESENTATIVE PRIOR TO FABRICATION.



STOP LOG DETAIL
Δ VERIFY DIMENSIONS IN FIELD BEFORE FABRICATION

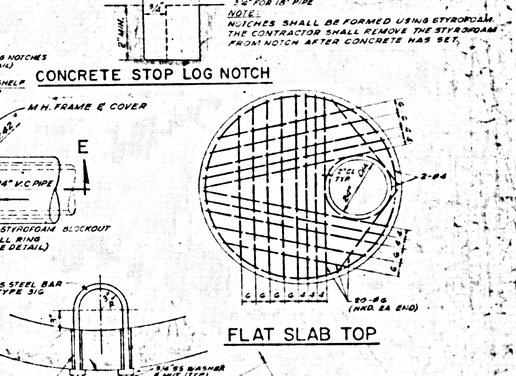


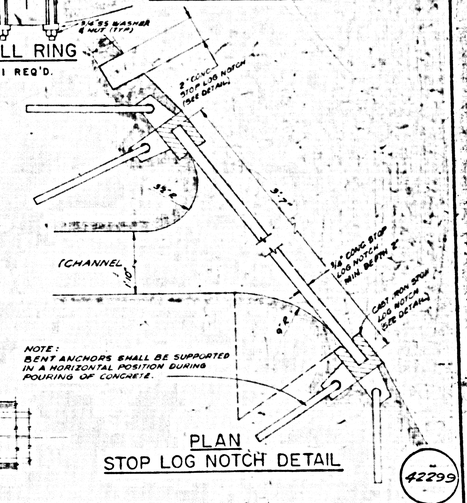
PLAN SECTION D-D

SECTION E-E
72" PRECAST JUNCTION CHAMBER
AT STA. 6+65.52 = STA. 1+21.06

PROJECTIVE COATINGS FOR STOP LOGS AND LOG NOTCHES

ALL SURFACES OF STOP LOGS AND CAST IRON STOP LOG NOTCHES SHALL BE COATED WITH "USS CHEMICALS" COAL TAR-EPOXY COATING "TARSET" PRIOR TO INSTALLATION IN THE STRUCTURE. THE COATING SHALL BE A MINIMUM THICKNESS OF 15 MILS TOTAL DRY FILM APPLIED IN TWO OR MORE COATS. THE COAL TAR-EPOXY SHALL BE APPLIED IN CONFORMANCE WITH THE MANUFACTURER'S TECHNICAL BULLETINS AND RECOMMENDATIONS. THE METAL SURFACES TO BE COATED WITH COAL TAR EPOXY SHALL BE CLEANED BY ABRASIVE BLASTING IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL "SSPC-SP-10-63T. "NEAR-WHITE BLAST CLEANING" AND THE COATING SHALL BE APPLIED IMMEDIATELY AFTER CLEANING OF THE METAL SURFACE.
A COAL TAR-EPOXY COATING EQUAL TO THE COATING CALLED FOR MAY BE SUBSTITUTED WITH THE APPROVAL OF COUNTY SANITATION DIST. REPRESENTATIVE





PLAN
STOP LOG NOTCH DETAIL

42299

1964 STORM DRAIN 3CND ISSUE

PREPARED BY
COUNTY SANITATION DISTRICT Nº 5
OF LOS ANGELES COUNTY

CHIEF ENGINEER

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

REGIONAL
PROJECT NO. 1104 UNIT I
PROPOSED 30" TRUNK SEWER
COUNTY SANITATION DISTRICT NO. 5

APPROVED BY
CHIEF ENGINEER

SCALE	DATE	DWG. NO. 364-1104-D547
AS SHOWN	AUG. '63	SHEET 47 OF 47