I-405-3(41)134 | 7 | CALIF

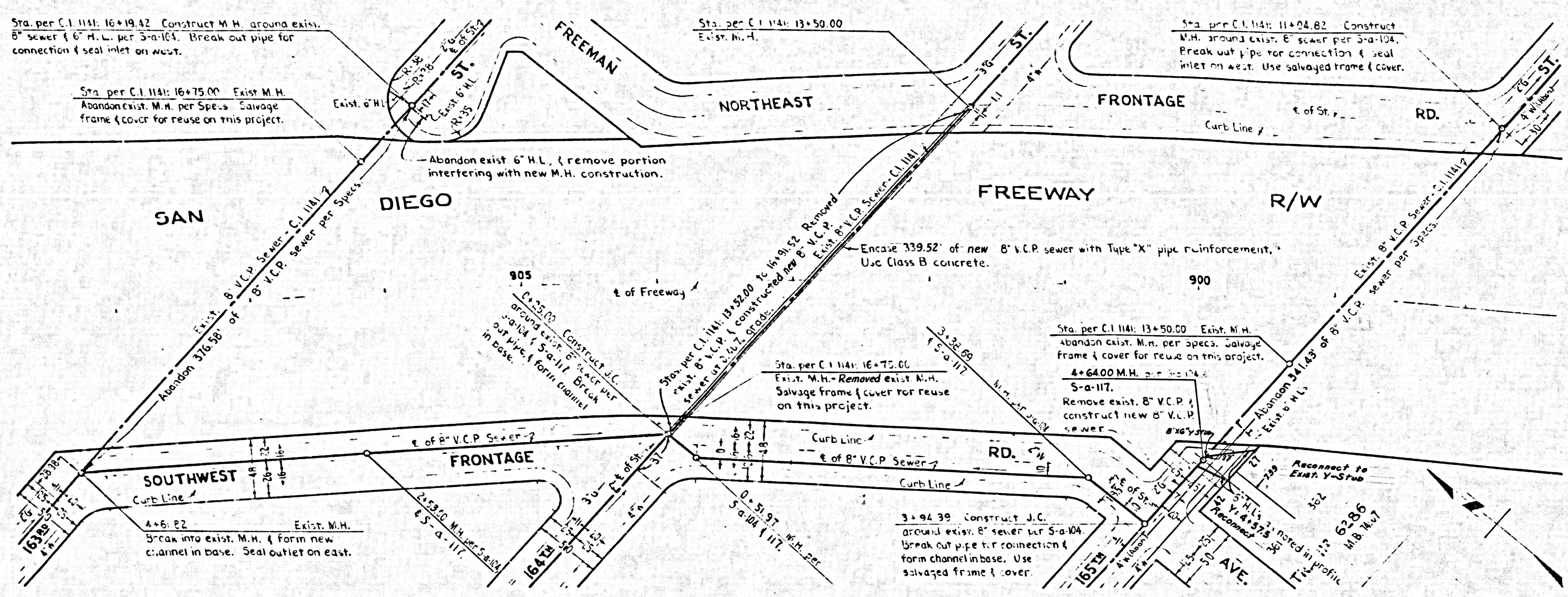
DIST	COUNTY	ROUTE	SEC
VII	LA	158	Lndl. 39

George A Hill
Dist Eng Div

Approved

32692

PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-1 W.S. 25 JULY, 1960
SCALES: Horiz.: 1" = 50'; Vert.: 1" = 5'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY C E Bunney
ASST. SANITATION ENGINEER
APPROVED, C. R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5
BY
OFFICE ENGINEER

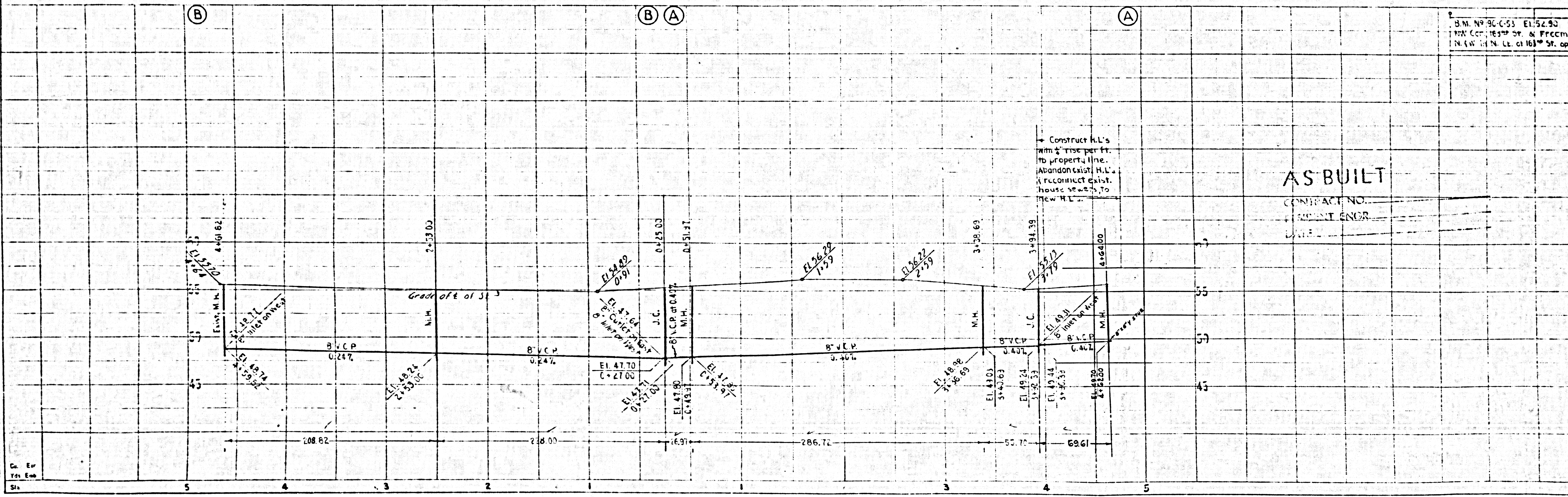

Sta. per C.I. 1141: 16+19.42 Construct M.H. around exist. 8" sewer & 6" H.L. per S-a-104. Break out pipe for connection & seal inlet on west.
Sta. per C.I. 1141: 16+75.00 Exist. M.H. Abandon exist. M.H. per Specs. Salvage frame & cover for reuse on this project.
Exist. 6" H.L.
R=38
R=28
R=35
Exist. 6" H.L.
ST.
FREEMAN
Abandon exist. 6" H.L., & remove portion interfering with new M.H. construction.
SAN
DIEGO
Exist. 8" V.C.P. Sewer - C.I. 1141
8" V.C.P. sewer per Specs.
Abandon 376.58' of
Sta. per C.I. 1141: 13+50.00 Exist. M.H.
NORTHEAST
FRONTAGE
RD.
ST.
Curb Line
℄ of St.
Sta. per C.I. 1141: 11+04.82 Construct M.H. around exist. 8" sewer per S-a-104. Break out pipe for connection & seal inlet on west. Use salvaged frame & cover.
FREEWAY
R/W
Stas. per C.I. 1141: 13+52.00 to 16+91.52 Removed exist. 8" V.C.P. & constructed new 8" V.C.P. sewer at 0.40% grade.
Exist. 8" V.C.P. Sewer - C.I. 1141
Encase 339.52' of new 8" V.C.P. sewer with Type "X" pipe reinforcement. Use Class B concrete.
905
℄ of Freeway
900
0+25.00 Construct J.C. around exist. 6" sewer per S-a-104 & S-a-117. Break out pipe & form channel in base.
Sta. per C.I. 1141: 16+75.00 Exist. M.H. - Removed exist. M.H. Salvage frame & cover for reuse on this project.
3+38.69 M.H. per S-a-104 & S-a-117.
Sta. per C.I. 1141: 13+50.00 Exist. M.H. Abandon exist. M.H. per Specs. Salvage frame & cover for reuse on this project.
4+64.00 M.H. per S-a-104 & S-a-117.
Remove exist. 8" V.C.P. & construct new 8" V.C.P. sewer
8"x6" Y Stub
Abandon 341.43' of 8" V.C.P.
Exist. 6" H.L.'s
SOUTHWEST
FRONTAGE
Curb Line
℄ of 8" V.C.P. Sewer
4+61.82 Exist. M.H. Break into exist. M.H. & form new channel in base. Seal outlet on east.
2+53.00 M.H. per S-a-104 & S-a-117.
163RD
164TH
℄ of St.
0+51.97 M.H. per S-a-104 & 117.
Curb Line
℄ of 8" V.C.P. Sewer
RD.
3+94.39 Construct J.C. around exist. 8" sewer per S-a-104. Break out pipe for connection & form channel in base. Use salvaged frame & cover.
165TH
AVE.
Reconnect to Exist. Y-Stub
Y: 4+57.5
Reconnect
6" H.L.'s as noted in profile
Tr. 6286
M.B. 74-07

-NOTES-
1. The Contractor shall notify the Construction Division of the County Engineer by telephone, MAdison 94747, Ext. 81551 at least 24 hours before starting any work on this sheet.
2. The Contractor shall maintain sewer service at all times.
3. All gas lines shown on this sheet are Sou. Calif. Gas Co.; all water lines shown on this sheet are Sou. Calif. Water Co.

NO CHARGE FOR CONNECTIONS

DESIGNED BY W. Mitchell

B.M. Nº 90-C-53 El. 52.90 L. 256.3, P. 32
NW Cor. 163rd St. & Freeman A.C.
T.N. (W 1st N. L. of 163rd St. opp. House Nº 4203


B
B
A
A
4+61.82
El. 55.20 / 4+61.82
Exist. M.H.
El. 48.74 / 4+59.82
El. 48.72 8" inlet on west
Grade of ℄ of St.
2+53.00
M.H.
8" V.C.P. 0.24%
El. 48.24 / 2+53.00
8" V.C.P. 0.24%
El. 54.89 / 0+91
El. 47.64 8" Outlet on east 8" inlet on west
El. 47.70 / 0+27.00
El. 47.71 / 0+27.00
0+25.00
J.C.
8" V.C.P. at 0.40%
0+51.97
M.H.
El. 47.80 / 0+49.97
El. 47.82 / 0+53.97
El. 56.29 / 1+59
El. 56.22 / 2+59
8" V.C.P. 0.40%
3+38.69
M.H.
El. 48.98 / 3+36.69
El. 49.03 / 3+40.69
3+94.39
El. 55.13 / 3+79
J.C.
8" V.C.P. 0.40%
El. 49.24 / 3+92.39
El. 49.44 / 3+96.39
El. 49.31 8" inlet on west
4+64.00
M.H.
8" V.C.P. 0.40%
El. 49.70 / 4+62.00
8"x6" Y Stub
Construct H.L.'s with 1/4" rise per ft. to property line. Abandon exist. H.L.'s & reconnect exist. house sewers to new H.L.'s.
55
50
45
208.82
238.00
26.97
286.72
55.70
69.61
Cu. Yds
Ex. Emb
Sta
5
4
3
2
1
1
3
4
5

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

9-60 #6-60 RED Diffenbach 10-6-60

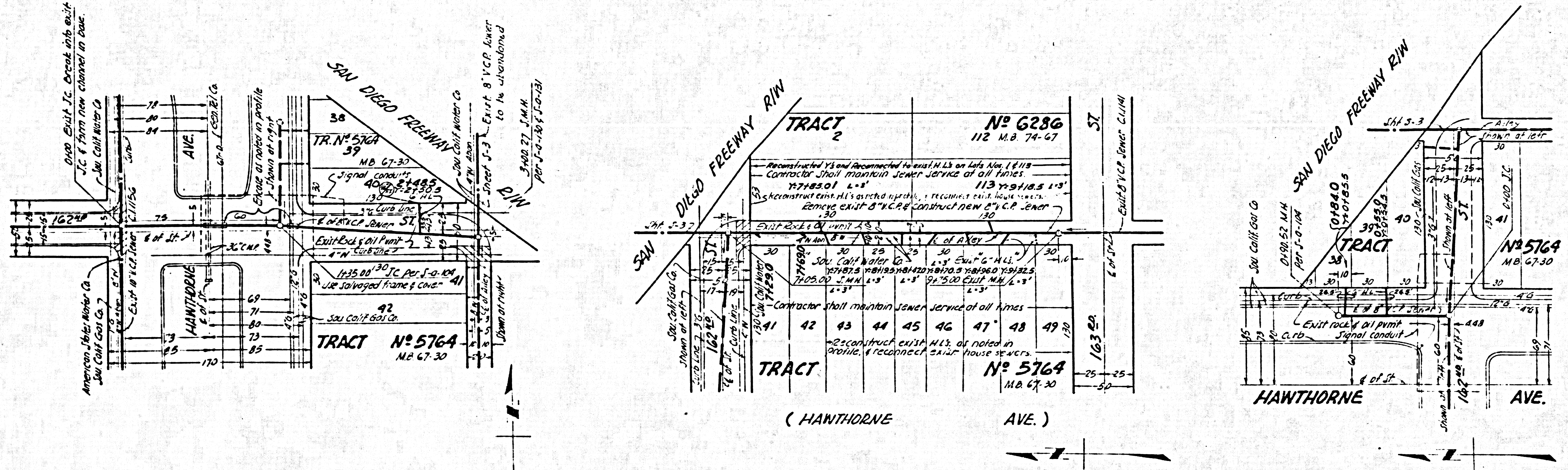
I-405-3(41)134

F.B.P.P. DIV'N	STATE	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
7	CALIF.			40	180

DIST	COUNTY	ROUTE	SEC	SHEET NO.	TOTAL SHEETS
VII	LA	158	Lndl.	40	133

George A. Hill
Dist. Eng. Dist.
Approved

32693


SAN DIEGO FREEWAY R/W
TR. Nº 5764 39 MB 67-30
38
162nd ST.
AVE.
HAWTHORNE
TRACT Nº 5764 M.B. 67-30
42
41
Exist Rock & oil pvmt
Use salvaged frame & cover
1+35.00 JC Per S-a-104
Sou Calif Gas Co.
Sou Calif Water Co
American States Water Co
Signal conduits
Curb line
Exist 8" V.C.P. Sewer to be abandoned
3+00.27 S.M.H. per S-a-109 & S-a-121
Sheet S-3
TRACT 2 Nº 6286 112 M.B. 74-67
Reconstructed Y's and Reconnected to exist. H.L's on Lots Nos. 1 & 113
Contractor Shall maintain sewer service at all times.
Y: 7+85.01 L=3'
113 Y: 9+18.5 L=3'
Reconstruct exist. H.L's as noted in profile, & reconnect exist. house sewers.
Remove exist 8" V.C.P. & construct new 8" V.C.P. Sewer
Exist Rock & Oil pvmt
℄ of Alley
Sou. Calif Water Co.
Exist 6" H.L's.
Y: 7+87.5 Y: 8+19.5 Y: 8+42.0 Y: 8+70.5 Y: 8+96.0 Y: 9+32.5
7+05.00 S.M.H.
9+75.00 Exist M.H.
L=3'
Contractor shall maintain sewer service at all times
41 42 43 44 45 46 47 48 49
Reconstruct exist. H.L's. as noted in profile, & reconnect exist. house sewers.
TRACT Nº 5764 M.B. 67-30
163rd ST.
Exist. 8" V.C.P. Sewer C.I.1141
Sht. S-3
(HAWTHORNE AVE.)
SAN DIEGO FREEWAY R/W
Sht. S-3
Alley
TRACT
Nº 5764 MB 67-30
0+49.52 M.H. per S-a-114
0+00 J.C.
Exist rock & oil pvmt
Signal conduit
Curb
Sou Calif Gas Co
162nd ST.
HAWTHORNE AVE.

PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-2 W.S. 25 JULY 1960
SCALES: Horiz: 1"=50'; Vert.: 1"=5'
COUNTY OF LOS ANGELES CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER

BY C.E. Bruns
ASST. SANITATION ENGINEER

APPROVED, C. K. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT-5

BY E. C. Bennett
for OFFICE ENGINEER

NOTES

1. The Contractor shall notify the Construction Division of the County Engineer by telephone, MAdison 9-4747, Ext. 81551 at least 24 hours before starting any work on this sheet.

NO CHARGE
FOR CONNECTIONS
W. Miskell 8-31-60

DESIGNED	ESQUER, 3.
TRACED	ESQUER, 3.
CHECKED	N. Nisker

B.M. 88-C-53 El. 64.91 L 285.3 Pg. 31
N.W. Cor 169th ST. & OSAGE AVE.
N&M 5' N. - B.C.R. of N. cb. of OSAGE AVE.

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

Ⓒ
Ⓒ
Ⓑ
Ⓑ
Ⓐ
Ⓐ
Encase 20 Feet of 8" V.C.P. under 36" C.M.P. & 6 Tr D. Use type "X" pipe reinforcement with Class B P.C.C.
Encase 10 Feet of 8" V.C.P. under 12" G. Use type "X" pipe reinforcement with Class B P.C.C.
Surface over Sewer
Y's to be laid horizontal & H.L's. to be constructed with 1/4" rise per ft to property line.
Join Exist. Line 9+50.00
Surface over Sewer
Surface over Sewer
36" C.M.P.
12" Gas
8" V.C.P.
0.40%
0.40%
8" V.C.P.
0.44%
8" V.C.P.
0.40%
Exist. J.C.
S.M.H.
Exist M.H.
0+00
1+35.00
3+00.27
7+05.00
9+75.00
0+49.52
0+00
135.00
165.27
270.00
90.52
60
55
50
45
0 1 2 3
7 8 9 10
1 0
Cu. Exc.
Yds. Emb.
Sta.

9-60 10-6-60 RE Diffenbach 10-6-60

1-405-3(41)134

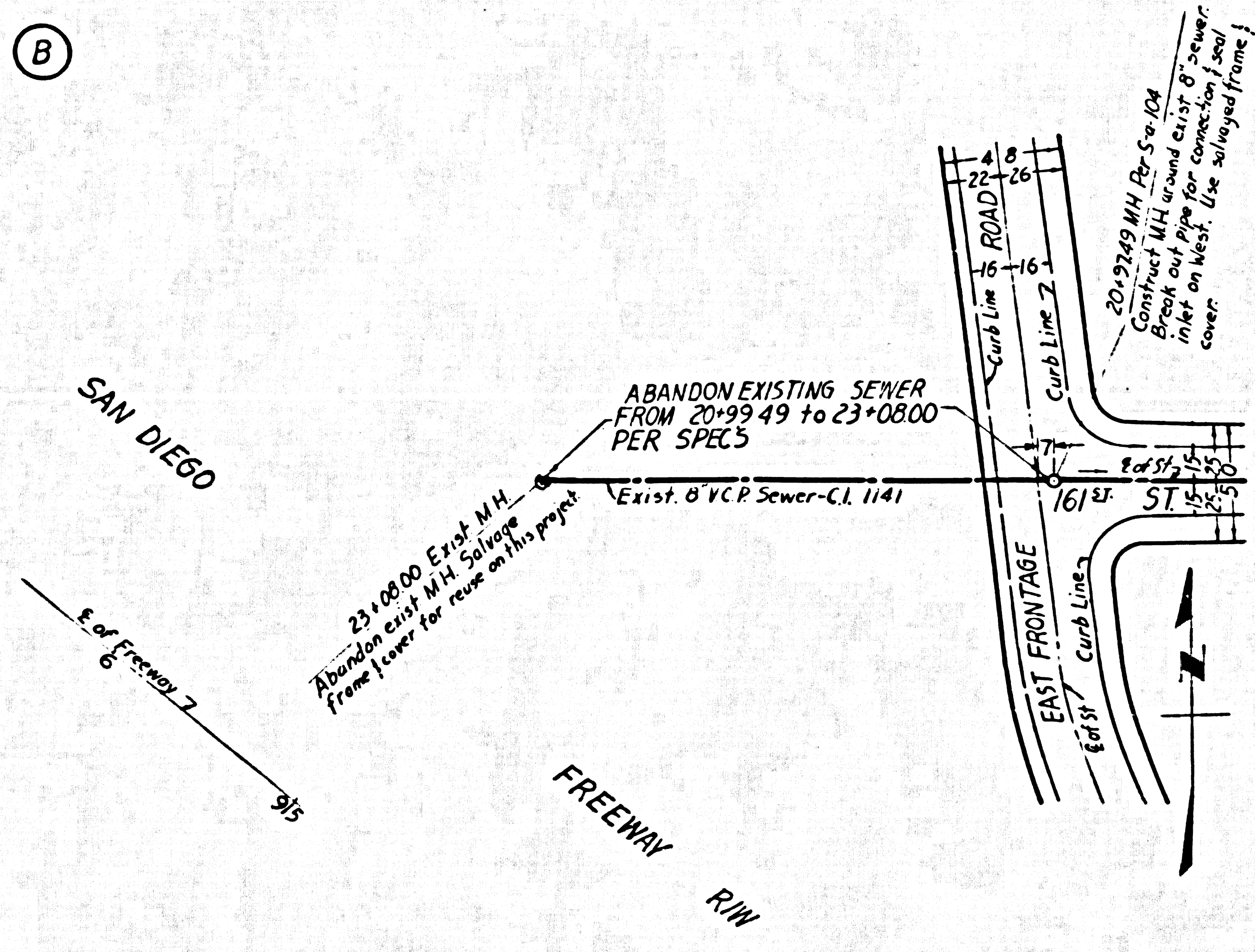
STATE	FEDERAL PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
CALIF			41	180

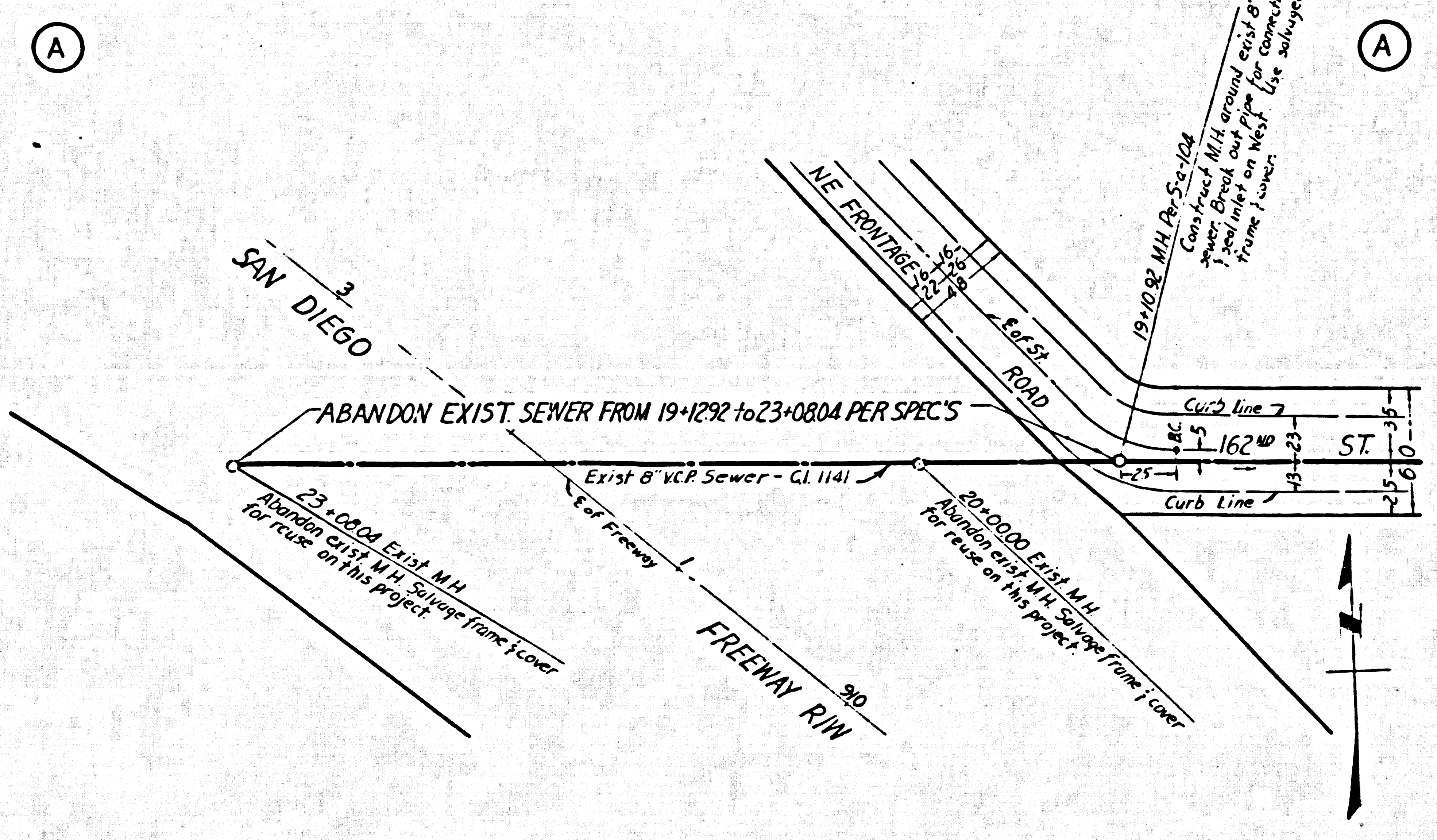
DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VII	LA	158	Lndl.	41	133

George A Hill
DISTRICT ENGINEER
APPROVED

32694

P.C. 5596 S-3 of 14


B
B
SAN DIEGO
FREEWAY R/W
℄ of Freeway 7
6
915
ABANDON EXISTING SEWER FROM 20+99.49 to 23+08.00 PER SPECS
23+08.00 Exist. M.H. Abandon exist. M.H. Salvage frame & cover for reuse on this project
Exist. 8" V.C.P. Sewer-C.I. 1141
20+97.49 MH Per S-a-104 Construct M.H. around exist. 8" sewer. Break out pipe for connection & seal inlet on West. Use salvaged frame & cover.
EAST FRONTAGE ROAD
Curb Line
Curb Line
℄ of St.
161 ST. ST.
4
8
22
26
16
16
7
15
25
50


A
A
SAN DIEGO
3
ABANDON EXIST. SEWER FROM 19+12.92 to 23+08.04 PER SPEC'S
Exist 8" V.C.P. Sewer - C.I. 1141
23+08.04 Exist MH Abandon exist. M.H. Salvage frame & cover for reuse on this project.
℄ of Freeway
1
FREEWAY R/W
910
20+00.00 Exist. M.H. Abandon exist. M.H. Salvage frame & cover for reuse on this project.
NE FRONTAGE ROAD
℄ of St.
19+10.92 M.H. Per S-a-104 Construct M.H. around exist. 8" sewer. Break out pipe for connection & seal inlet on West. Use salvaged frame & cover.
Curb line
Curb Line
162ND ST.
B.C.
5
25
23
13
35
60
25
6
16
22
26
48

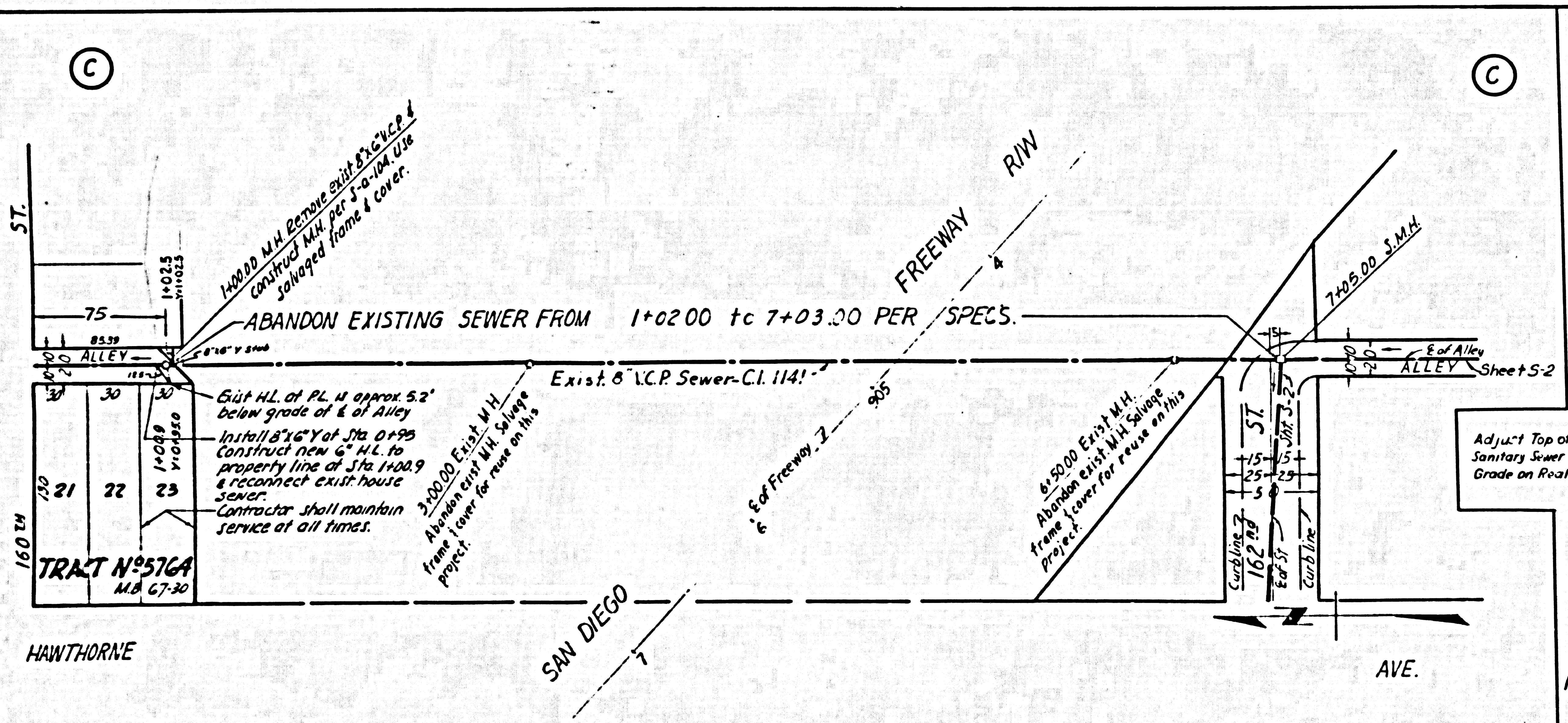
PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-3 W.S.25 JULY, 1960
SCALE 1"=50'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY C. E. Bruington
ASST. SANITATION ENGINEER
APPROVED, C. R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5
BY
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the Construction Division of the County Engineer by telephone MAdison 94747, Ext. 81551 at least 24 hours before starting any work on this sheet.

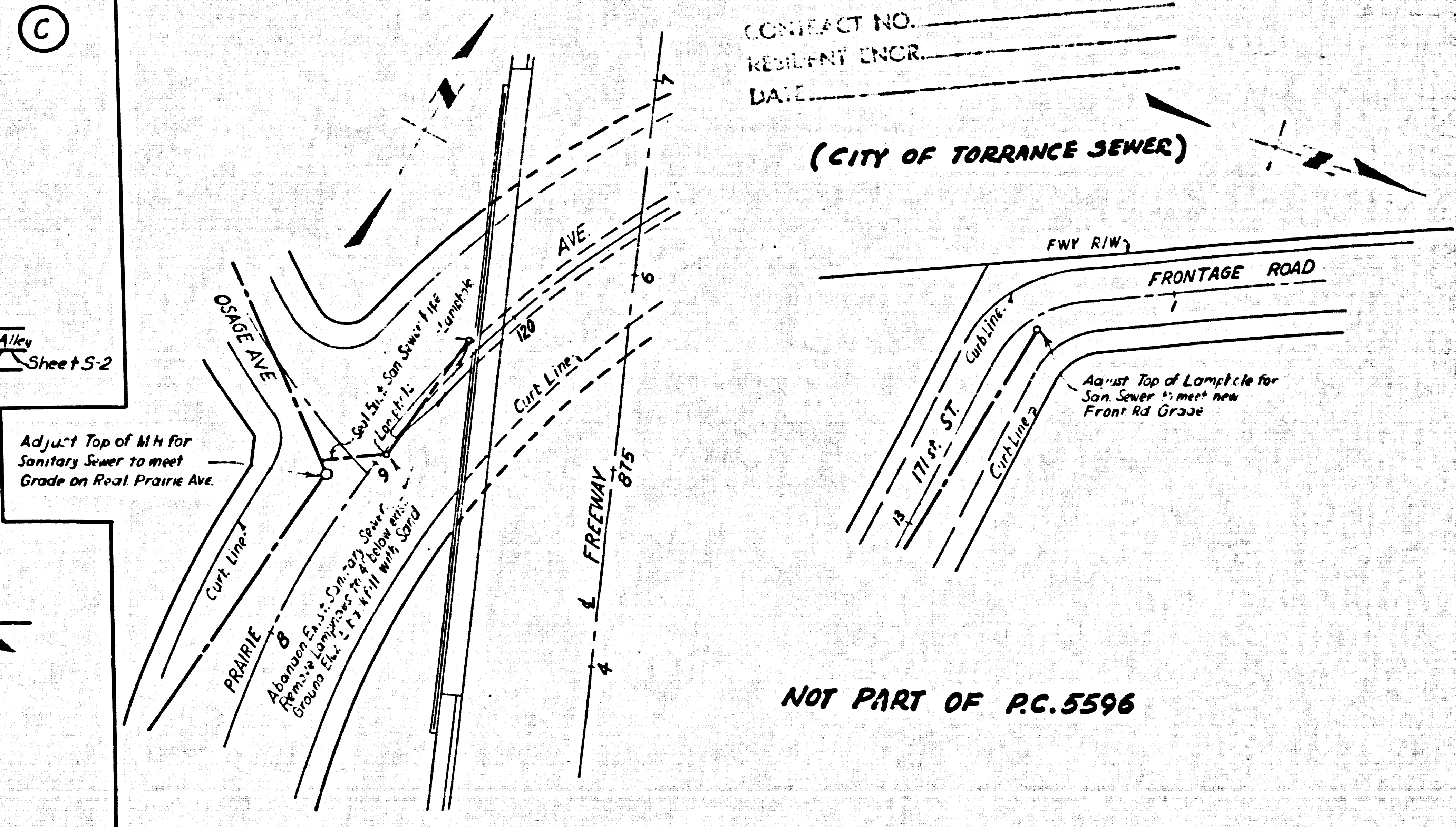
NO CHARGE FOR CONNECTIONS
HK Okubo

DESIGNED BY	H. OKUBO
CHECKED BY	W. Miskell


C
C
ST.
75
1+02.5
Y:1+02.5
85.39
ALLEY
10
20
8"x6" Y stub
1+00.00 M.H. Remove exist. 8"x6" V.C.P. & construct M.H. per S-a-104. Use salvaged frame & cover.
ABANDON EXISTING SEWER FROM 1+02.00 to 7+03.00 PER SPECS.
Exist. 8" V.C.P. Sewer-C.I. 1141
Exist. H.L. at P.L. is approx. 5.2' below grade of ℄ of Alley
Install 8"x6" Y at Sta. 0+95 Construct new 6" H.L. to property line at Sta. 1+00.9 & reconnect exist. house sewer.
Contractor shall maintain service at all times.
1+00.9
Y:0+95.0
30
30
30
130
21
22
23
TRACT Nº 5764
M.B. 67-30
160 TH
HAWTHORNE
3+00.00 Exist. M.H. Abandon exist. M.H. Salvage frame & cover for reuse on this project.
SAN DIEGO
7
℄ of Freeway 7
6
905
FREEWAY R/W
4
6+50.00 Exist. M.H. Abandon exist. M.H. Salvage frame & cover for reuse on this project.
7+05.00 S.M.H.
15
℄ of Alley
ALLEY
10
20
Sheet S-2
ST.
Sht. S-2
15
25
50
Curbline
162nd
℄ of St
Curb line
AVE.

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

(CITY OF TORRANCE SEWER)


Adjust Top of MH for Sanitary Sewer to meet Grade on Real. Prairie Ave.
OSAGE AVE
PRAIRIE
AVE.
Curb Line
Curb Line
Seal Exist. San Sewer Pipe
Lamphole
Lamphole
Abandon Exist. Sanitary Sewer. Remove Lampholes to 4' below exist. Ground. Backfill with Sand
8
9
120
FREEWAY
875
4
6
7
FWY R/W
FRONTAGE ROAD
171 st. ST.
Curb Line
Curb Line
13
Adjust Top of Lamphole for San. Sewer to meet new Front Rd Grade

NOT PART OF P.C.5596

9-60 10-6-60 R E Deffebach 10-6-60

I-405-3(41)134

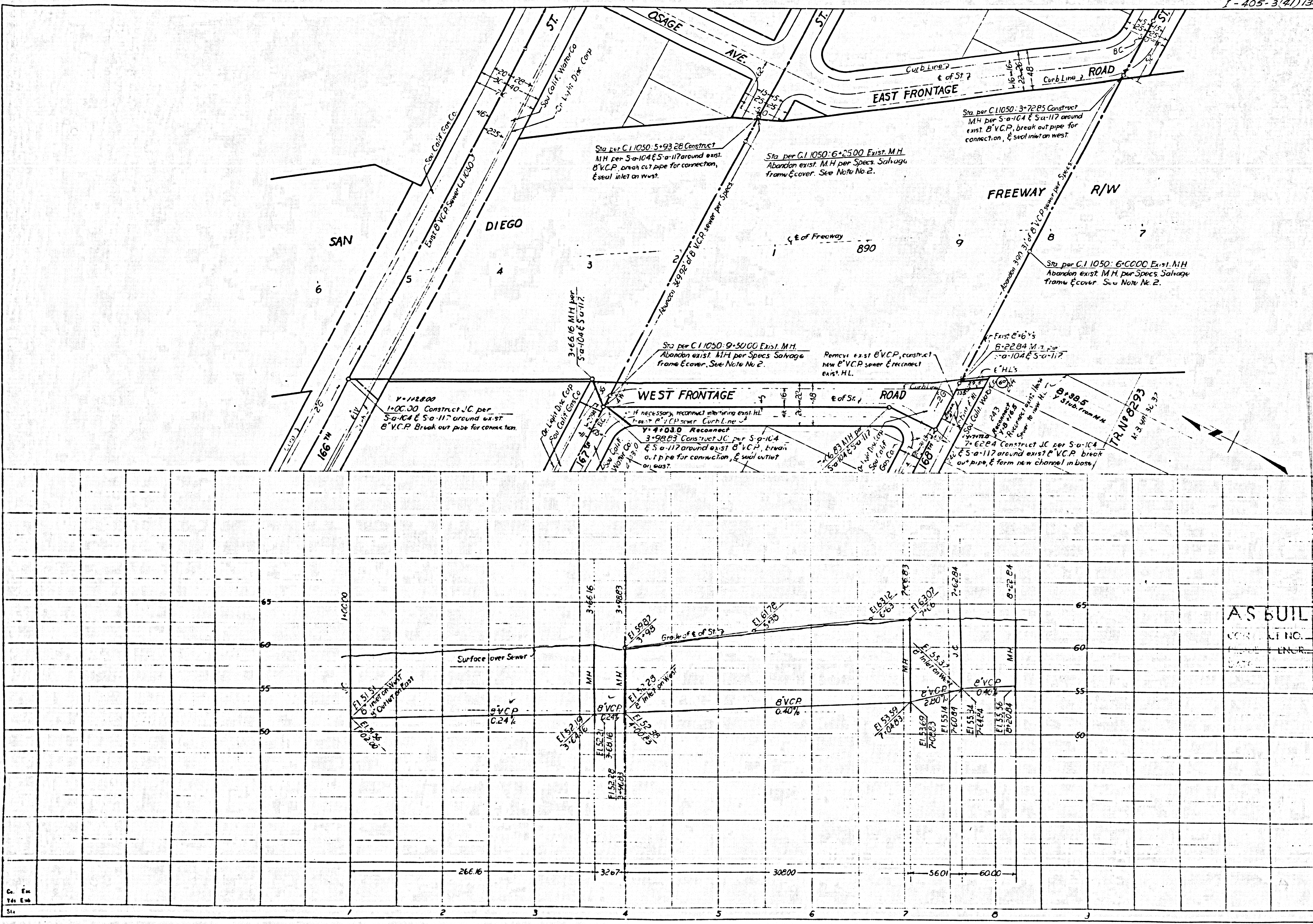
[illegible]	STATE	FEDERAL PROJECT No	SHEET No	TOTAL SHEETS
7	CALIF		42	18

DIST	COUNTY	ROUTE	SEC	SHEET No	TOTAL SHEETS
VII	LA	158	Lndl.	42	133

George A Hill
Dist Eng Dist

32695

Approved


OSAGE
AVE.
ST.
SAN
DIEGO
ST.
Sou Calif Gas Co.
Sou Calif. Water Co
Cr Lyht Dis Corp
Exist 8"V.C.P. Sewer C.I. 1050
20
28
30
40
70
46
22.5
EAST FRONTAGE
ROAD
Curb Line
℄ of St.
Curb Line
BC
16
16
22
26
48
15
15
25
25
50
52
Sta per C.I 1050: 5+93.28 Construct M.H. per S-a-104 & S-a-117 around exist. 8"V.C.P., break out pipe for connection, & seal inlet on west.
Sta. per C.I. 1050: 6+25.00 Exist. M.H. Abandon exist. M.H per Specs. Salvage frame & cover. See Note No. 2.
Sta. per C.I.1050: 3+72.85 Construct M.H per S-a-104 & S-a-117 around exist. 8"V.C.P., break out pipe for connection, & seal inlet on west.
FREEWAY
R/W
℄ of Freeway
890
Abandon 369.92' of 8"V.C.P. sewer per Specs.
Abandon 390.31' of 8"V.C.P. sewer per Specs.
Sta. per C.I 1050: 6+00.00 Exist. M.H. Abandon exist. M.H. per Specs. Salvage frame & cover. See Note No. 2.
6
5
4
3
2
1
9
8
7
3+66.16 M.H. per S-a-104 & S-a-117.
Sta per C.I 1050: 9+50.00 Exist. M.H. Abandon exist. M.H. per Specs. Salvage frame & cover. See Note No 2.
Remove exist 8"V.C.P., construct new 8"V.C.P. sewer & reconnect exist. H.L.
Exist 8"x6" Y's
8+22.84 M.H. per S-a-104 & S-a-117.
6" H.L's
WEST FRONTAGE
ROAD
℄ of St.
Curb Line
Y=1+28.00
1+00.00 Construct J.C. per S-a-104 & S-a-117 around exist. 8"V.C.P. Break out pipe for connection.
If necessary, reconnect interfering exist. H.L. to exist. 8"V.C.P. sewer
Curb Line
Y=4+03.0 Reconnect
3+98.83 Construct J.C. per S-a-104 & S-a-117 around exist. 8"V.C.P., break out pipe for connection, & seal outlet on east.
7+06.83 M.H. per S-a-104 & S-a-117
7+62.84 Construct J.C. per S-a-104 & S-a-117 around exist. 8"V.C.P. break out pipe, & form new channel in base.
Y=7+72.0
Reconnect Y=8+16.5
Reconnect exist. House Sewer to new H.L.
Y 8+38.5 Y Stub. from M.H.
TR. No 8293
M.B. 98, 36, 37
243
244
29.5'
135
60
166th
167th
168th
Or. Light Disc Corp
Sou Calif Gas Co.
Sou Calif. Water Co.
Sou Calif. Water Co
B.C.
Curb
1+00.00
3+66.16
3+98.83
7+06.83
7+62.84
8+22.84
65
60
55
50
J.C.
M.H.
M.H.
M.H.
J.C.
M.H.
Surface over Sewer
Grade of ℄ of St.
El. 59.87 3+98
El. 61.78 5+35
El. 63.12 6+63
El. 63.07 7+06
El. 51.51 6" Inlet on West 8" Outlet on East
El. 51.56 1+02.00
8"V.C.P. 0.24%
El. 52.19 3+64.16
El. 52.21 3+66.16
8"V.C.P. 0.24%
El. 52.28 3+96.83
El. 52.29 8" Inlet on West
El. 52.38 4+00.83
8"V.C.P. 0.40%
El. 53.59 7+04.83
El. 53.69 7+08.83
El. 55.37 8" Inlet on West
8"V.C.P. 2.80%
El. 55.14 7+60.84
El. 55.34 7+64.84
8"V.C.P. 0.40%
El. 55.56 8+20.84
266.16
32.67
308.00
56.01
60.00
Co. Exc.
Yds. Emb.
Sta.
1
2
3
4
5
6
7
8
9
B.M. 88-C-53
169th St. &
N & W 5?

AS BUILT
CONTRACT NO.
[illegible] ENGR.
DATE

9-60 1" [illegible] 10660 RED ffobach 10660

PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT No 5596
SHEET S-4 W.S. 25 SEPT. 1960
SCALES: Horiz.: 1"=50'; Vert.: 1"=5'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED JOHN A. LAMBIE, COUNTY ENGINEER
BY C E Bunny
ASST. SANITATION ENGINEER
APPROVED C. R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT No 5
BY
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the Construction Division of the County Engineer by telephone, MAdison 94747 Ext. 81551 at least 24 hours before starting any work on this sheet.
2. The Contractor shall stockpile salvaged M.H. frames & covers at the site of the work.
3. The Contractor shall maintain sewer service at all times.

NO CHARGE FOR CONNECTIONS
H C Quiley

Designed	RS
Checked	

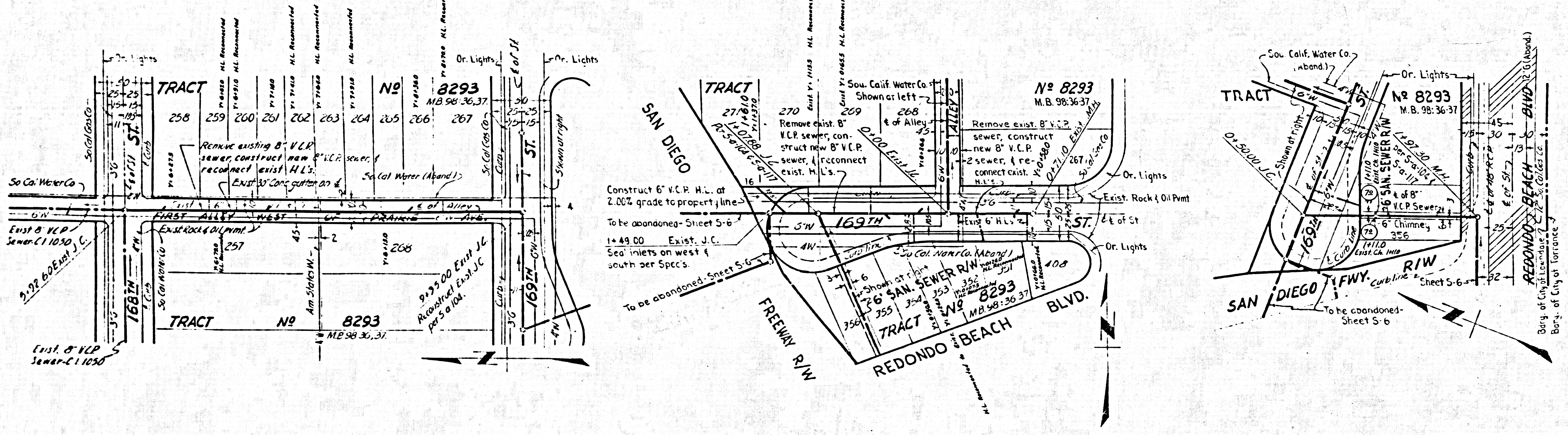
DIST	COUNTY	ROUTE	SEC	SHEET No.	
VII	LA	158	Lndl.	43	13

George A Hill
Dist. Eng. Dist

Approved

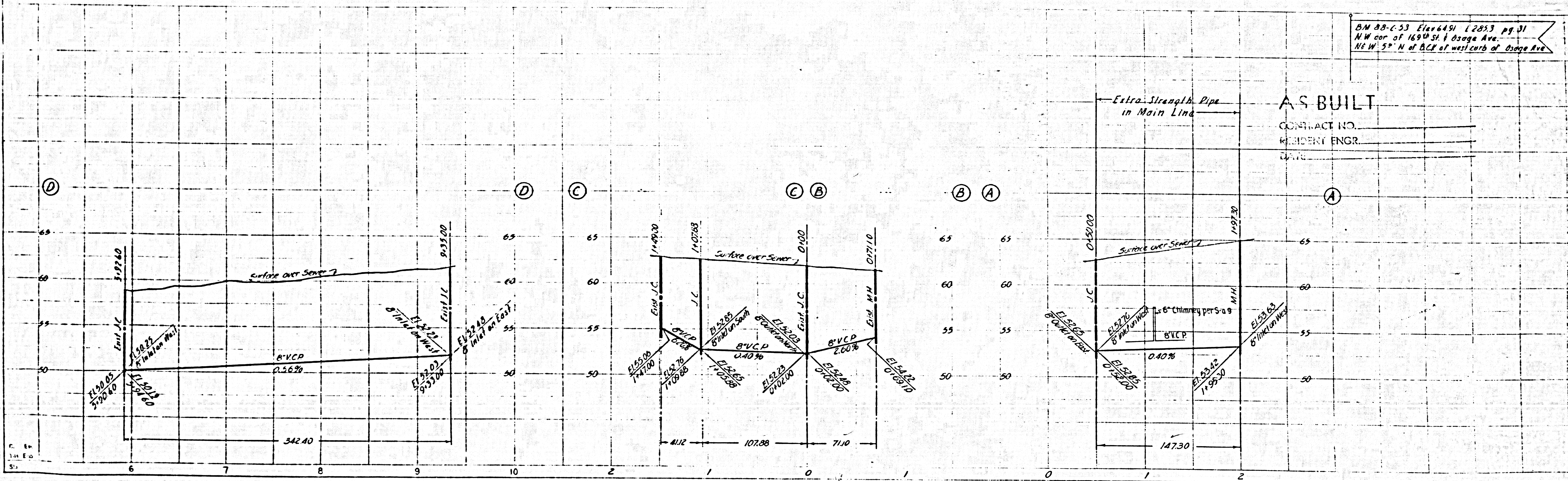
32696

P.C. 2222-2 41 to 414


TRACT
Nº 8293
MB 98:36,37
TRACT Nº 8293 M.B.98:36,37
168TH ST.
169TH ST.
FIRST ALLEY WEST OF PRAIRIE AVE.
So Cal Water Co
So Cal Gas Co
Or. Lights
Remove existing 8" V.C.P. sewer, construct new 8" V.C.P. sewer & reconnect exist. H.L's.
Exist 3' Conc. gutter
Exist 8" VCP Sewer-C.I. 1050
Exist. 8" VCP Sewer-C.I. 1050
5+92.60 Exist J.C.
9+35.00 Exist J.C. Reconstruct Exist J.C. per S-a-104
So. Cal. Water (Aband)
Exist Rock & Oil pvmt.
Am. States W.
SAN DIEGO
FREEWAY R/W
Construct 6" V.C.P. H.L. at 2.00% grade to property lines
To be abandoned - Sheet S-6
1+49.00 Exist. J.C.
Sea' inlets on west & south per Spec's.
Remove exist. 8" V.C.P. sewer, construct new 8" V.C.P. sewer, & reconnect exist. H.L's.
Sou. Calif. Water Co. Shown at left
Exist. Rock & Oil Pvmt
6' SAN. SEWER R/W
REDONDO BEACH BLVD.
So. Cal. Nat. Gas Co. (Aband)
Sou. Calif. Water Co. (Aband)
0+50.00 J.C.
1+97.30 M.H.
6" Chimney
6' SAN. SEWER R/W
SAN DIEGO FWY. R/W
Curb line
To be abandoned - Sheet S-6
REDONDO BEACH BLVD.
Bdry. of City of Lawndale
Bdry. of City of Torrance

NO CHARGE FOR CONNECTIONS

W. Mitchell 9-26-60


D
D
C
C
B
B
A
A
65
60
55
50
Surface over Sewer
Exist J.C.
8" V.C.P.
0.56%
El 50.05 5+20.60
El 50.25 6" Inlet on West
El 50.13 5+92.60
El 52.23 8" Inlet on West
El 52.48 8" Inlet on East
El 52.03 9+35.00
9+35.00
342.40
1+49.00
1+07.88
0+00
0+71.10
Exist J.C.
J.C.
Exist J.C.
Exist MH
8" V.C.P. 0.40%
8" V.C.P. 2.60%
El 55.00 1+49.00
El 52.76 1+09.88
El 52.65 1+07.88
El 52.85 8" Outlet on South
El 52.23 0+02.00
El 52.09 8" Outlet on North
El 52.48 0+00.00
El 54.32 0+69.10
41.12
107.88
71.10
Extra Strength Pipe in Main Line
0+50.00
1+97.30
J.C.
M.H.
6" Chimney per S-a-9
8" V.C.P.
0.40%
El 52.65 8" Outlet on East
El 52.76 8" Inlet on West
El 52.85 0+52.00
El 53.42 1+95.30
El 53.63 8" Inlet on West
147.30
6
7
8
9
10
2
1
0
1
0
1
2

B.M. 88-C-53 Elev 64.91 L 285.3 pg. 31
N.W. cor. of 169th St. & Osage Ave.
N & W 5° N of BCR of west curb of Osage Ave

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-5 W.S. 25 JULY, 1960
SCALES: Horiz.: 1"=50'; Vert.: 1"=5'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER

BY C E Prunty
ASST. SANITATION ENGINEER

APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5

BY
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the Construction Division of the County Engineer by telephone MAdison 94747 Ext. 81551 at least 24 hours before starting any work on this sheet.

2 The Contractor shall stockpile salvaged M.H. frames & covers at the site of the work.

3 The Contractor shall maintain sewer service at all times.

Designed	N Wong
Checked	T. Howard

9-60 10-6-60 REDiffebach 10-6-60

	STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF	I-405-3(41)134	44	18

DIST	COUNTY	ROUTE	SEC	SHEET NO.	TOTAL SHEETS
07	LA	158	Lndl.	44	133

32697

Approved George A Hill Dist Eng Dist

DC 2292 2-2 of 14

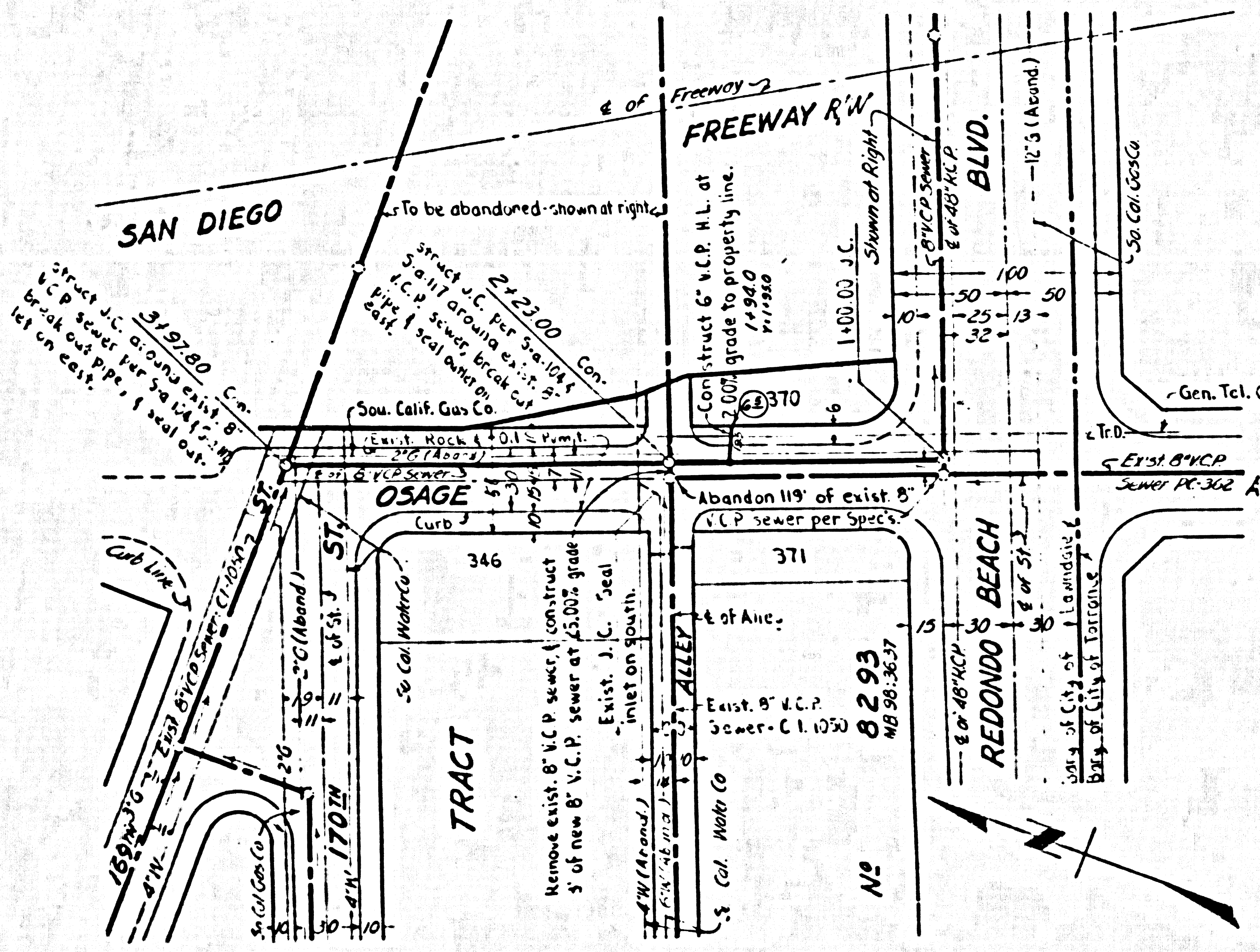
PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-6 WS.25 JULY, 1960
SCALES: Horiz.: 1"=50'; Vert.: 1"=5'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A LAMBIE, COUNTY ENGINEER
BY C. E. [illegible]
ASST SANITATION ENGINEER
APPROVED, C. R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5
BY [illegible]
OFFICE ENGINEER

-NOTES-

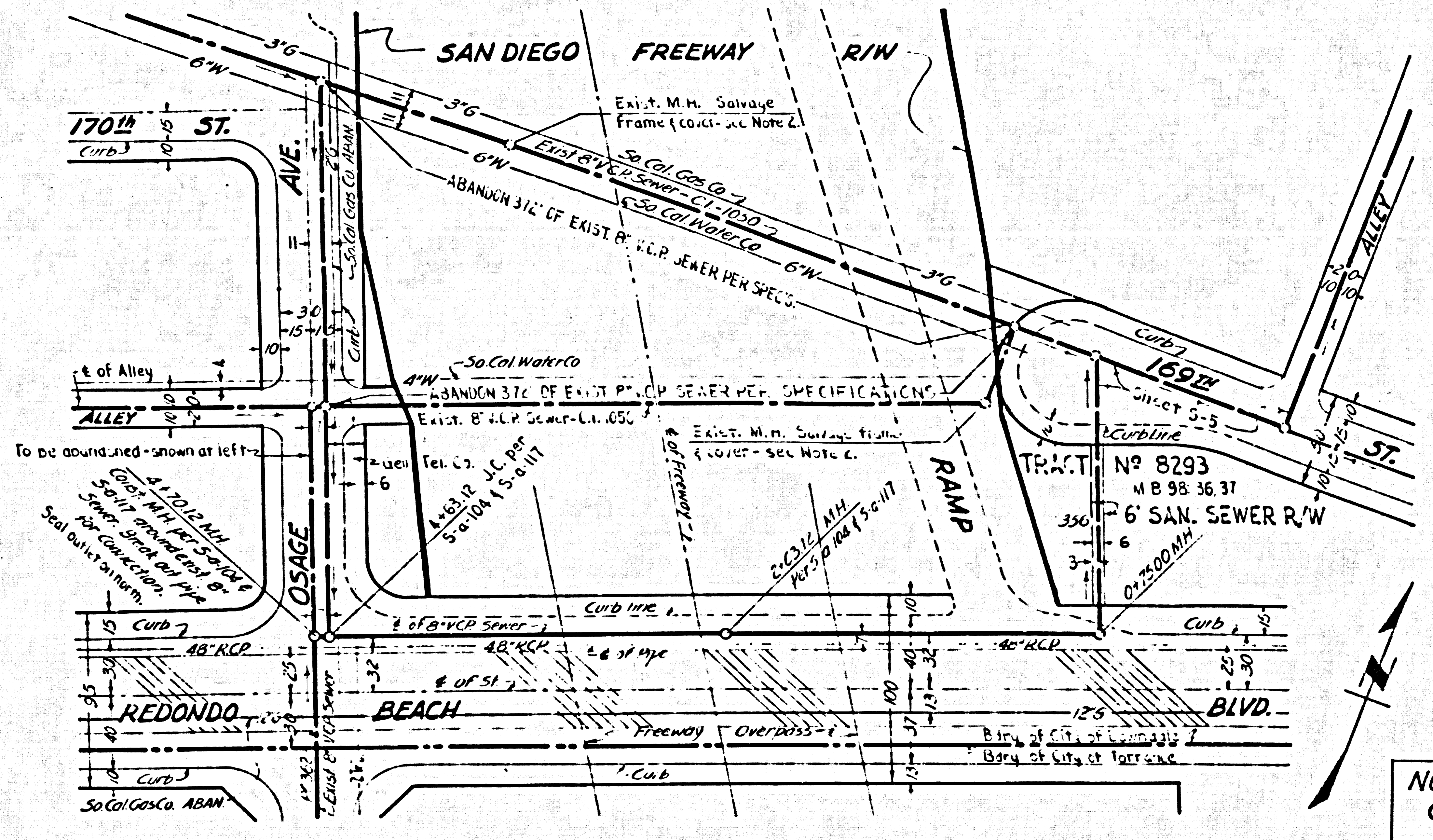
1. The Contractor shall notify the Construction Division of the County Engineer by telephone, MAdison 94747 Ext 81551 at least 24 hours before starting any work on this sheet.
2. The Contractor shall stockpile salvaged M.H. frames & covers at the site of the work.
3. The Contractor shall maintain sewer service at all times.

DESIGNED	N. Wong
CHECKED	Miskell

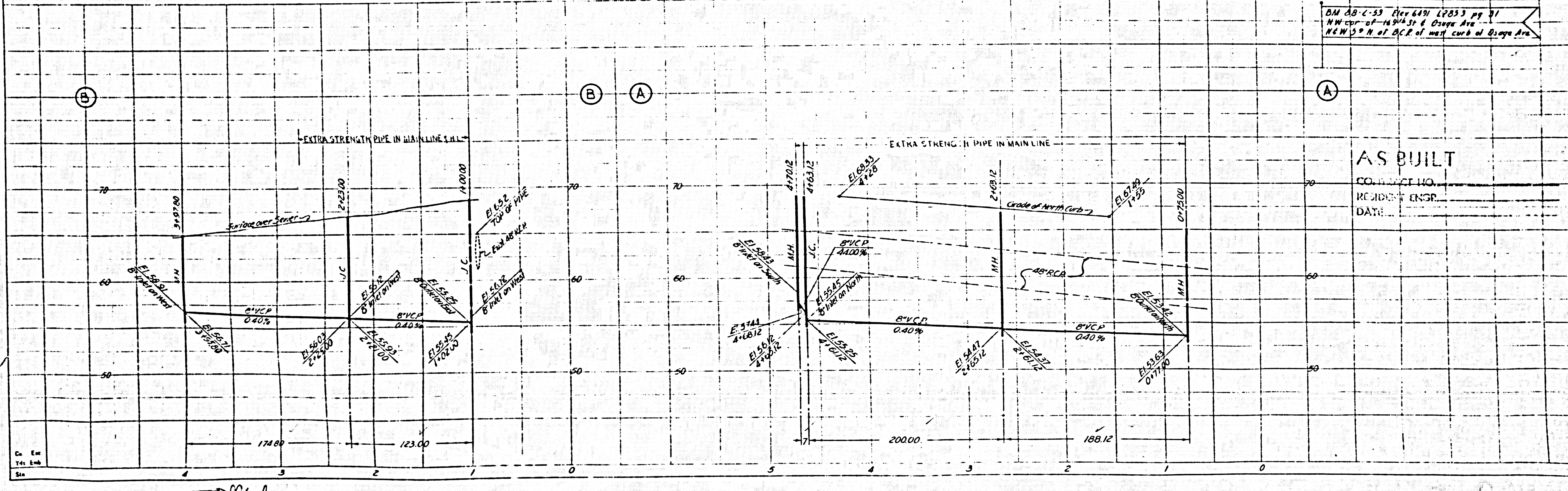
NO CHARGE FOR CONNECTIONS
W. Miskell 9-26-60



SAN DIEGO
FREEWAY R/W
℄ of Freeway
To be abandoned - shown at right
Construct 6" V.C.P. H.L. at 2.00% grade to property line.
1+00.00 J.C.
Shown at Right
8" VCP Sewer E of 48" R.C.P.
BLVD.
12'S (Aband)
So. Cal. Gas Co.
Gen. Tel. Co.
Exist 8" VCP Sewer PC-302
AVE.
OSAGE
Abandon 119' of exist. 8" V.C.P. sewer per Specs.
Sou. Calif. Gas Co.
Exist. Rock & Oil Wtr.
2+23.00 Con. struct J.C. per S-a-104 & S-a-117 around exist. 8" V.C.P. sewer, break out pipe & seal outlet on east.
3+97.80 Con. struct J.C. around exist. 8" V.C.P. sewer per S-a-104 & S-a-117, break out pipe, & seal out-let on east.
Remove exist. 8" V.C.P. sewer & construct 8" of new 8" V.C.P. sewer at 0.40% grade
Exist. J.C. Seal inlet on south.
Exist. 8" V.C.P. Sewer-C.I. 1050
℄ of Alley
ALLEY
TRACT
Nº 8293
MB 98-36-37
346
370
371
REDONDO BEACH
℄ of 48" R.C.P.
Bdry. of City of Lawndale
Bdry. of City of Torrance
So. Col. Water Co.
So. Cal. Gas Co.
170th ST.
169th St.
Curb line



SAN DIEGO FREEWAY R/W
170th ST.
AVE.
OSAGE
Exist. M.H. Salvage Frame & cover - see Note 2.
So. Cal. Gas Co.
Exist 8" V.C.P. Sewer - C.I. 1050
So. Cal. Water Co.
ABANDON 312' OF EXIST. 8" V.C.P. SEWER PER SPECS.
ABANDON 37' OF EXIST. 8" V.C.P. SEWER PER SPECIFICATIONS
Exist. 8" V.C.P. Sewer - C.I. 1050
Exist. M.H. Salvage frame & cover - see Note 2.
℄ of Alley
ALLEY
To be abandoned - shown at left
4+70.12 M.H. Const. M.H. per Std. & Seal all around exist. 8" sewer, break out pipe, seal for connection, seal outlet on north.
4+63.12 J.C. per S-a-104 & S-a-117
2+63.12 M.H. per S-a-104 & S-a-117
Gen. Tel. Co.
RAMP
TRACT Nº 8293
M.B. 98-36-37
6' SAN. SEWER R/W
0+75.00 M.H.
350
169th ST.
Street S-5
Curb line
℄ of 8" VCP Sewer
48" RCP
REDONDO BEACH BLVD.
Freeway Overpass
Bdry. of City of Lawndale
Bdry. of City of Torrance
So. Cal. Gas Co. ABAN
Exist 8" VCP Sewer



BM 88-C-53 Elev 64.91 L7853 pg 31
NW cor of 169th St & Osage Ave
N&W 3' N of BCR of west curb at Osage Ave
B
B
A
A
EXTRA STRENGTH PIPE IN MAIN LINE & H.L.
EXTRA STRENGTH PIPE IN MAIN LINE
3+97.80
2+23.00
1+00.00
Surface over Sewer
El. 62 TOP OF PIPE
Exist 48" RCP
M.H.
J.C.
J.C.
El. 58.91 8" Inlet on West
El. 56.71 3+97.80
8" VCP 0.40%
El. 56.12 8" Inlet on West
El. 56.03 2+23.00
El. 55.93 2+21.00
El. 55.76 8" Outlet on East
8" VCP 0.40%
El. 56.12 8" Inlet on West
El. 55.45 1+02.00
174.80
123.00
4+70.12
4+63.12
2+63.12
0+75.00
El. 68.83 4+28
El. 67.49 1+55
Grade of North Curb
El. 58.43 8" Inlet on South
M.H.
J.C.
8" VCP 44.00%
El. 55.85 8" Inlet on North
48" RCP
M.H.
M.H.
El. 57.43 4+68.12
El. 56.12 4+65.12
El. 55.25 4+61.12
8" VCP 0.40%
El. 54.47 2+65.12
El. 54.37 2+61.12
8" VCP 0.40%
El. 53.62 8" Outlet on North
El. 53.63 0+77.00
200.00
188.12
70
60
50
5
4
3
2
1
0
Sta

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

9-60 R.E. Deffebach 10660 10660

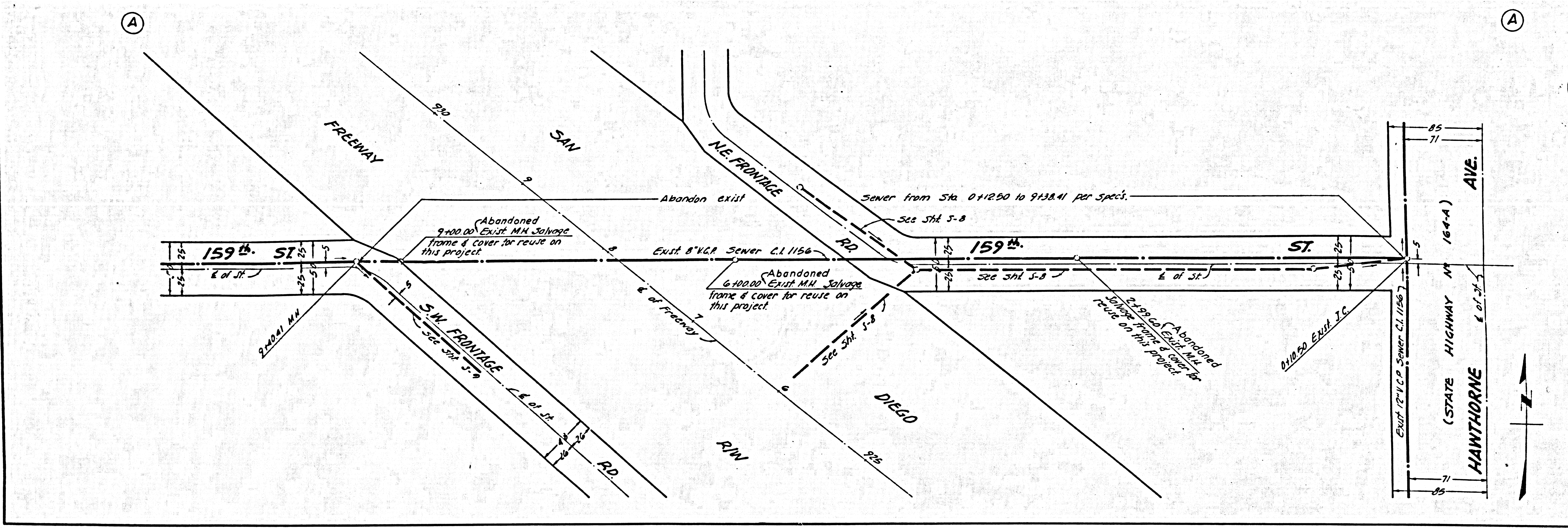
I-405-3(41)134	B.P.R. DIV. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		CALIF.			45	180

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VII	LA	158	LnJl.	45	133

32698

George A. Hill
DISTRICT ENGINEER

APPROVED


A
A
FREEWAY
SAN
DIEGO
R/W
920
9
8
7
6
925
N.E. FRONTAGE RD.
S.W. FRONTAGE RD.
159th ST.
159th ST.
Abandon exist Sewer from Sta. 0+12.50 to 9+38.41 per Specs.
9+00.00 Abandoned Exist. M.H. Salvage frame & cover for reuse on this project.
Exist. 8" V.C.P. Sewer C.I. 1156
6+00.00 Abandoned Exist. M.H. Salvage frame & cover for reuse on this project.
2+99.60 Abandoned Exist. M.H. Salvage frame & cover for reuse on this project.
See Sht. S-8
See Sht. S-8
See Sht. S-8
See Sht. S-9
9+38.41 M.H.
℄ of St.
℄ of St.
℄ of St.
℄ of St.
℄ of Freeway
0+10.50 Exist. J.C.
Exist. 12" V.C.P. Sewer C.I. 1156
(STATE HIGHWAY Nº 164-A)
HAWTHORNE AVE.
85
71
25
5
26
N

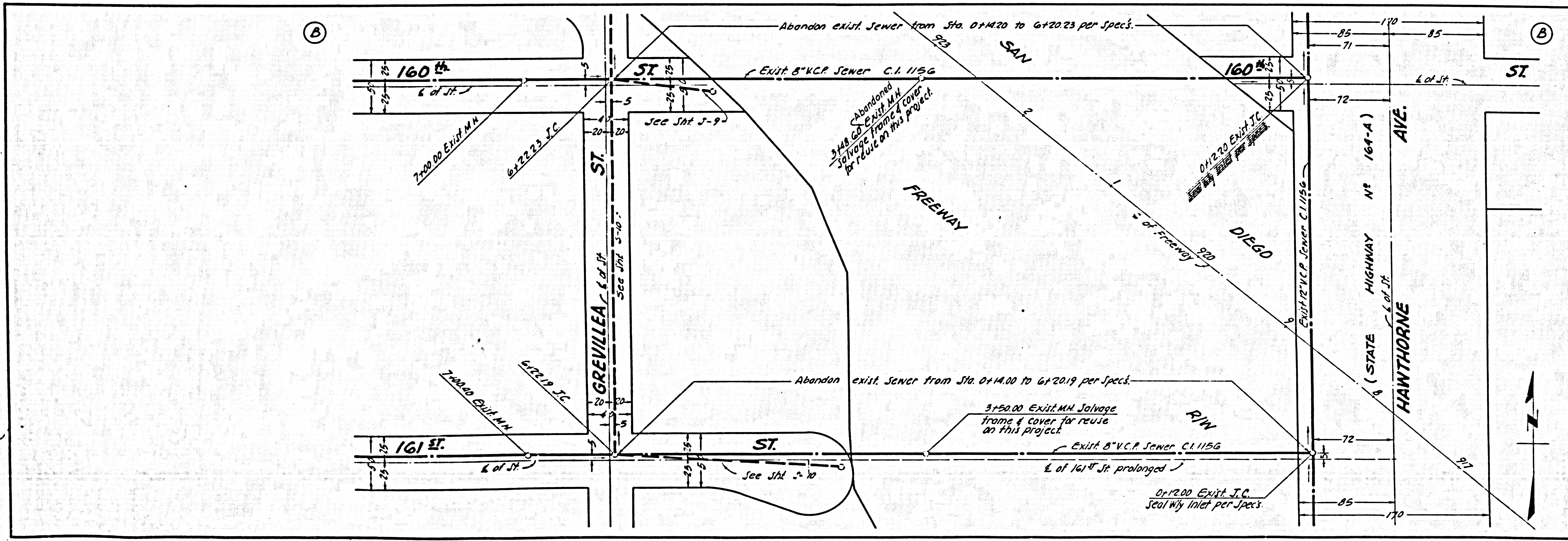
PLAN OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-7 W.S. 25 AUG. 1960
SCALE: 1"=50'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY C. E. Bruns
ASST. SANITATION ENGINEER
APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5
BY G. Southmus
OFFICE ENGINEER

-NOTES-
1. The Contractor shall notify the Construction Division of the County Engineer by telephone MAdison 94747, Ext. 81551 at least 24 hours before starting any work on this sheet.

NO CHARGE FOR CONNECTIONS

ISSUE NO PERMITS

TRACED	ESQUER, G
CHECKED	Mishell


B
B
160th ST.
160th ST.
161st ST.
ST.
GREVILLEA ST.
ST.
FREEWAY
SAN
DIEGO
R/W
923
2
1
920
9
8
917
Abandon exist. Sewer from Sta. 0+14.20 to 6+20.23 per Specs.
Exist. 8" V.C.P. Sewer C.I. 1156
7+00.00 Exist. M.H.
6+22.23 J.C.
See Sht. S-9
See Sht. S-10
3+48.60 Abandoned Exist. M.H. Salvage frame & cover for reuse on this project.
0+12.20 Exist. J.C.
℄ of Freeway
Exist. 12" V.C.P. Sewer C.I. 1156
(STATE HIGHWAY Nº 164-A)
HAWTHORNE AVE.
℄ of St.
Abandon exist. Sewer from Sta. 0+14.00 to 6+20.19 per Specs.
3+50.00 Exist. M.H. Salvage frame & cover for reuse on this project.
Exist. 8" V.C.P. Sewer C.I. 1156
℄ of 161st St. prolonged
0+12.00 Exist. J.C. Seal Wly Inlet per Specs.
7+00.00 Exist. M.H.
6+22.19 J.C.
See Sht. S-10
170
85
71
72
25
20
5
N

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

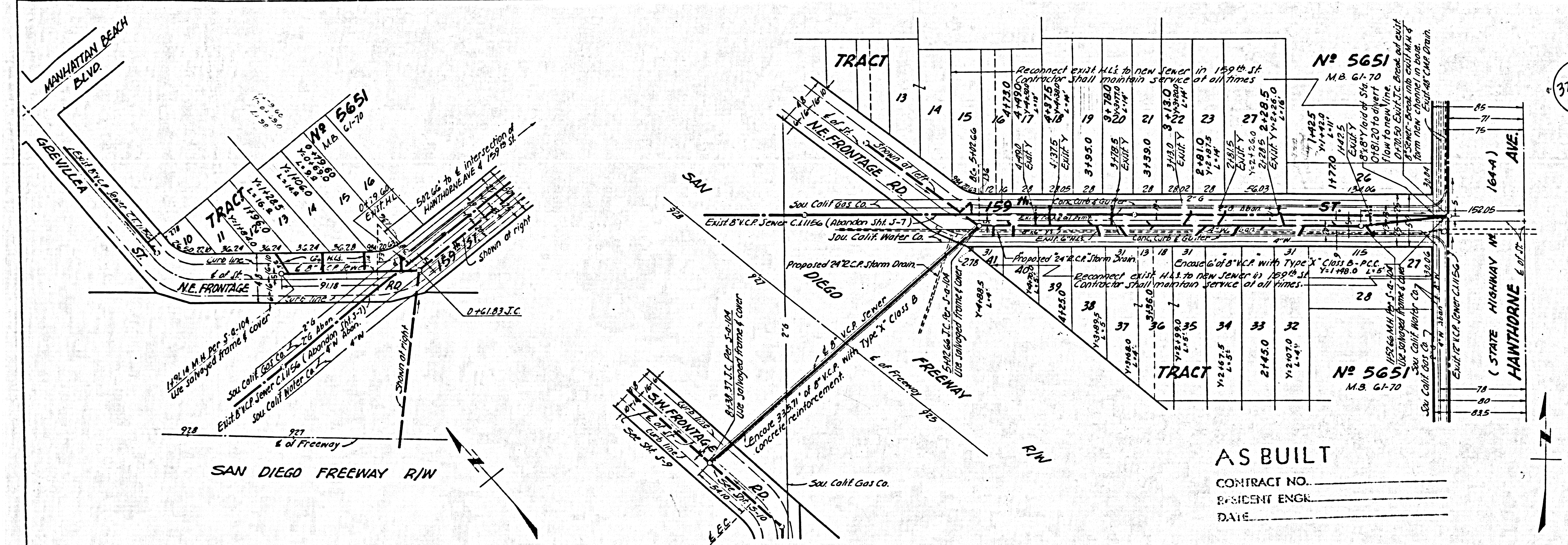
3-60 10-6-60 R.E.D. 10-6-60

I-405-3 41/134 CALIF 46 180

DIST	COUNTY	ROUTE	SEC		
VII	LA	158	Lndi.	46	133

George A Hill
Approved Dist. Eng. Dist.

32699



MANHATTAN BEACH BLVD.
GREVILLEA
TRACT
Nº 5651 M.B. 61-70
N.E. FRONTAGE RD.
159th ST.
Shown at right
0+61.83 J.C.
Sou. Calif. Gas Co.
Exist 8" V.C.P. Sewer C.I.1156 (Abandon Sht. S-7)
Sou. Calif. Water Co.
Shown at left
Proposed 24" R.C.P. Storm Drain
Sou. Calif. Gas Co.
San Diego Freeway
SAN DIEGO FREEWAY R/W
℄ of Freeway
Encase 335.71' of 8" V.C.P. with Type "X" Class B concrete reinforcement.
8" V.C.P. Sewer
S.W. FRONTAGE RD.
Reconnect exist. H.L.'s to new sewer in 159th St. Contractor shall maintain service at all times.
Encase 6' of 8" V.C.P. with Type "X" Class B-P.C.C.
TRACT Nº 5651 M.B. 61-70
HAWTHORNE AVE. (STATE HIGHWAY Nº 164-A)
152.05

AS BUILT

CONTRACT NO. ________

RESIDENT ENGR. ________

DATE ________

PLAN OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-8 W.S. 25 AUG. 1960
SCALE: 1" = 50'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER

BY C E Bruny
ASST. SANITATION ENGINEER

APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5

BY
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the Construction Division of the County Engineer by telephone MAdison 94747, Ext. 81551 at least 24 hours before starting any work on this sheet.

NO CHARGE FOR CONNECTIONS
W. Miskell 9-27-60

DESIGNED	ESQUER, O.
TRACED	ESQUER, O.
CHECKED	Miskell

BM 88-C-53 El. 64.91 L 2853 Pg 31
N.W. Cor. 169th St. & OSAGE AVE.
5' N. of B.C.R. of W. Cb. of OSAGE AVE.
EXTRA STRENGTH PIPE
Compacted Fill
Original Ground Surface
Surface over Sewer
H.L.'s to be constructed with 1/4" rise per ft. to property line.
Grade of North Curb
8" V.C.P.
1.00%
0.40%
Encase
Proposed 24" R.C.P. Storm Drain
Proposed 24" R.C.P.
Exist 48" MP
8" Inlet on North
8" Inlet on South
8" Outlet on East
8" Outlet on North
J.C.
M.H.
129.31
335.71
350.00
82.16
70
60
50
40

10-6-60

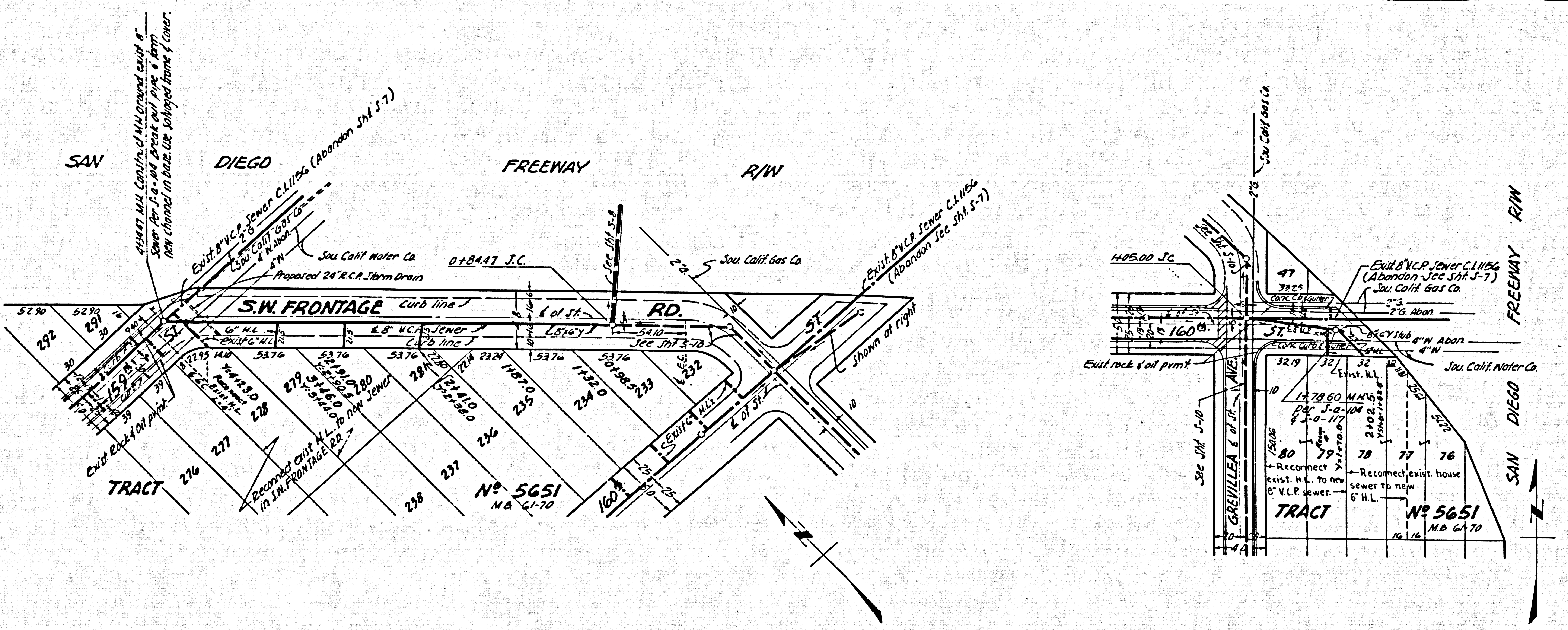
I 405-3(..) 134

DIST	STATE	FEDERAL PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF		47	180

DIST	COUNTY	ROUTE	SEC	SHEET No.	TOTAL SHEETS
VII	LA	158	Lndl.	47	133

George A Hill
Dist. Eng. Dist.
Approved

32700


SAN DIEGO FREEWAY R/W
4+34.47 M.H. Construct M.H. around exist 8" Sewer Per S-a-104 Break out pipe & form new channel in base. Use salvaged frame & cover.
Exist. 8" V.C.P. Sewer C.I.1156 (Abandon Sht S-7)
2"G
Sou. Calif. Gas Co.
4" W. Abon.
4" W.
Sou. Calif. Water Co.
Proposed 24" R.C.P. Storm Drain
0+84.47 J.C.
See Sht. S-8
S.W. FRONTAGE RD.
Curb line
℄ of St.
6" H.L.
Exist 6" H.L.
℄ 8" V.C.P. Sewer
Curb line
℄ 8"x6" Y
54.10
See Sht S-10
52.90
52.90
292
291
30
39
159th ST.
53.76
279
280
28A
278
277
276
235
234
233
232
236
237
238
3+46.0
Y:3+44.0
2+91.0
Y:2+90.5
2+41.0
Y:2+38.0
1+87.0
1+32.0
0+98.5
4+23.0
Reconnect Exist. H.L.
Exist. Rock & Oil pvmt.
Reconnect exist. H.L. to new sewer in S.W. FRONTAGE RD.
TRACT № 5651 M.B. 61-70
160th
Exist 6" H.L.'s
℄ of St.
25
25
10
2"G.
Sou. Calif. Gas Co.
Exist. 8" V.C.P. Sewer C.I.1156 (Abandon See Sht. S-7)
ST.
Shown at right
1405.00 J.C.
Sou. Calif. Gas Co.
2"G.
See Sht. S-10
47
33.25
Conc. Cb & Gutter
Exist. 8" V.C.P. Sewer C.I.1156 (Abandon - See Sht. S-7)
Sou. Calif. Gas Co.
2"G.
2"G. Abon.
8"x6" Y Stub
4" W Abon.
4" W
Sou. Calif. Water Co.
160th ST.
Conc. Curb & Gutter
6" H.L.
Exist. rock & oil pvmt.
32.19
32
32
Exist. H.L.
1+78.60 M.H. per S-a-104 & S-a-117
2+02.5
Y Stub: 1+82.5
Y: 1+70.0
150.06
80
79
78
77
76
Reconnect exist. H.L. to new 8" V.C.P. sewer.
Reconnect exist. house sewer to new 6" H.L.
GREVILLEA ℄ of St. AVE.
See Sht. S-10
TRACT № 5651 M.B. 61-70
FREEWAY R/W
SAN DIEGO
20
30
44
10
16
16

PLAN OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT № 5596
SHEET S-9 W.S. 73 AUG. 1960
SCALE 1"=50'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY C. E. Burns
ASST. SANITATION ENGINEER
APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT No. 5
BY
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the Construction Division of the County Engineer by telephone MAdison 94747, Ext. 81551 at least 24 hours before starting any work on this sheet
2. The Contractor shall maintain sewer service at all times.

NO CHARGE FOR CONNECTIONS
W. Mishell 9-27-60

DESIGNED	ESQUER, G
TRACED	ESQUER, G
CHECKED	Mishell

B.M. 88 C-53 El. 64.91 L 2853 Pg. 31
NW Cor. 169th St. & OSAGE AVE.
5' N. of B.C.R. of W. Cb. of OSAGE AVE.
AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE
70
60
50
40
H.L.'s to be constructed with 1/4" rise per ft. to property line.
4+34.47
M.H.
Grade of South Curb
Surface over sewer
El. 54.90 4+00
Proposed 24" R.C.P. Storm Drain
El. 48.24
8" Inlet on West.
El. 48.07 4+32.47
8" V.C.P.
0.48 %
0+84.47
J.C.
El. 56.01 0+73
El. 46.21
8" Outlet on North
El. 46.41 0+86.47
El. 46.41
8" Inlet on East.
350.00
H.L.'s to be constructed with 1/4" rise per ft. to property line.
Surface over sewer
1+05.00
1+78.60
Exist M.H.
J.C.
M.H.
Exist 8" V.C.P.
0.40 %
C.I. 1156
El. 47.13
8" Outlet on North
El. 47.23
8" Inlet on South
8" V.C.P.
0.40 %
El. 47.49 1+03.00
El. 47.49 1+07.00
El. 47.79 1+76.60
El. 47.89 1+80.60
73.60
Cu. Yds.
Exc. Emb.
Sta.
4
3
2
1
0
0
1
2
3

9-60 10-6-60 R E Diffenbach 10-6-60

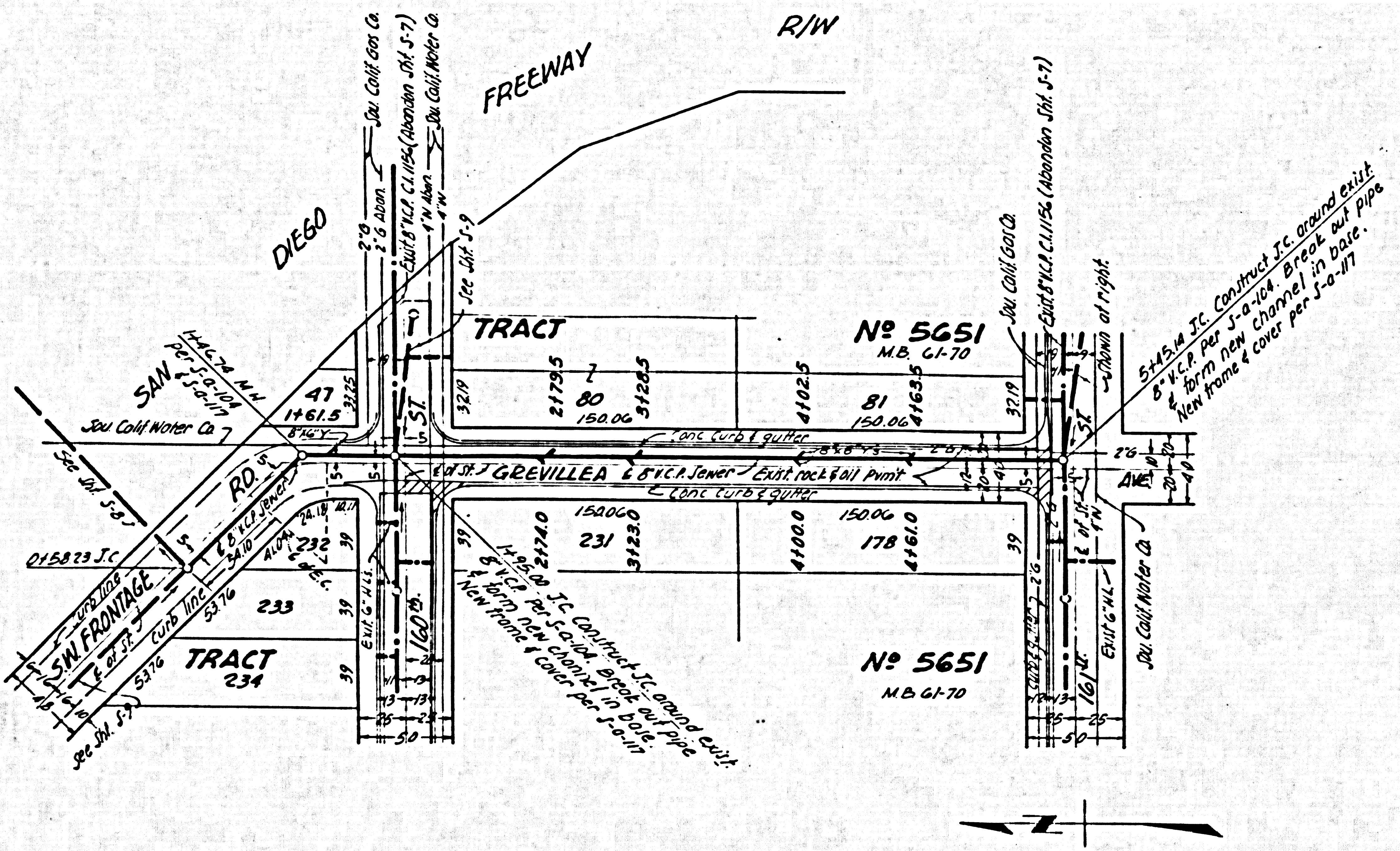
I-405-3(41)134

F.A.S. DIST.	STATE	FEDERAL PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF		48	180

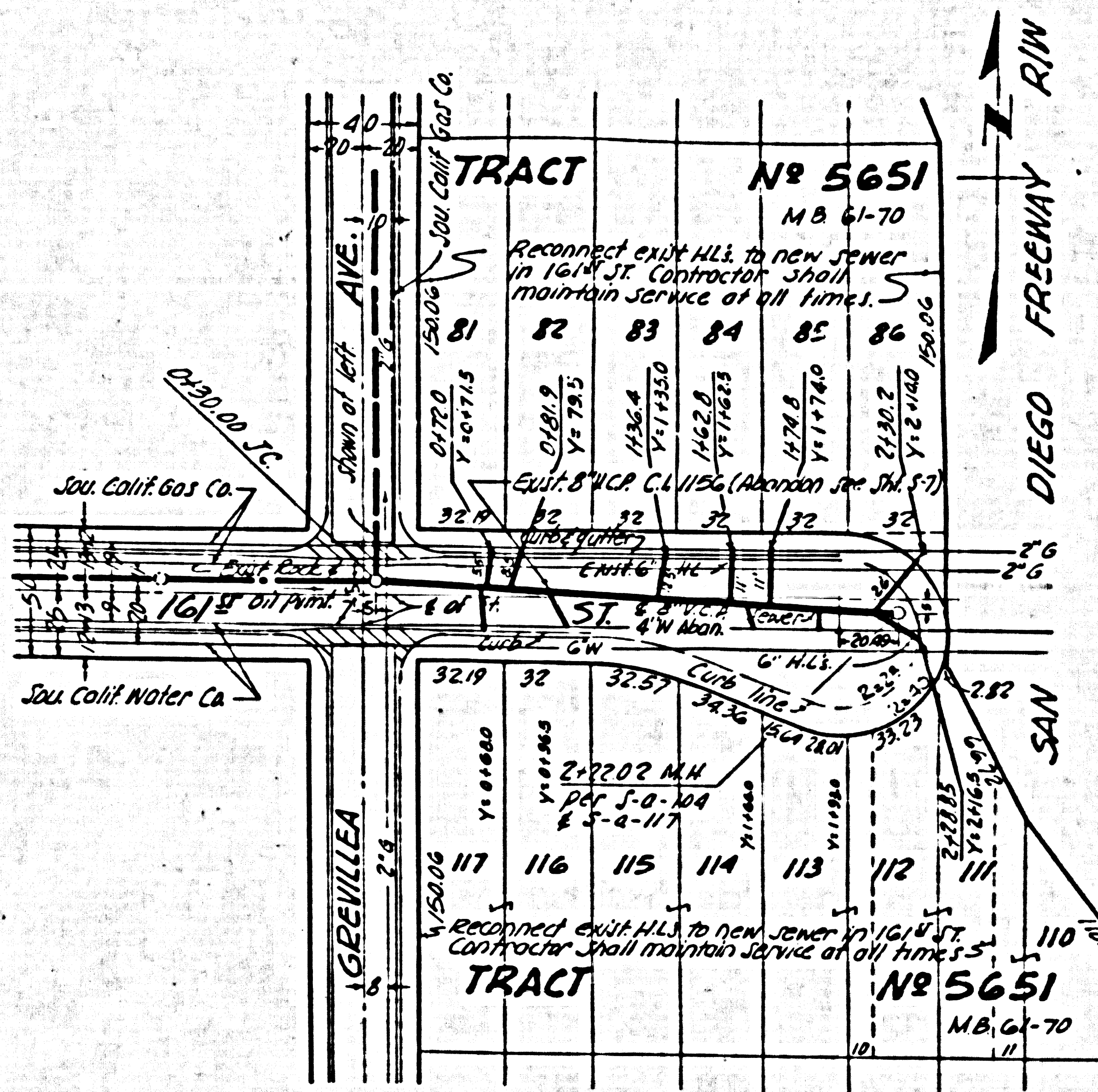
DIST	COUNTY	ROUTE	SEC	SHEET No.	TOTAL SHEETS
VII	LA	158	Lndl.	48	133

George A Hill
Dist. Eng. Dist.
Approved JAN 9 1961

32701



R/W
FREEWAY
SAN DIEGO
Sou. Calif. Gas Co.
Sou. Calif. Water Co.
2'G
2'G Abon.
Exist. 8" V.C.P. C.I. 1156 (Abandon Sht. S-7)
1'W Abon.
4'W
See Sht. S-9
See Sht. S-8
See Sht. S-9
1+46.74 M.H. per S-a-104 & S-a-117
TRACT
No 5651
M.B. 61-70
47
1+61.5
80
81
150.06
231
178
232
233
TRACT 234
8"x6" Y
8"x8" Y's
Conc. Curb & gutter
GREVILLEA
℄ 8" V.C.P. Sewer
Exist. rock & oil Pvmt.
℄ of St.
AVE.
ST.
160th ST.
161st ST.
RD.
SW. FRONTAGE
℄ 8" V.C.P. Sewer
Curb line
0+58.23 J.C.
Exist. 6" H.L.s
Shown at right
1+95.00 J.C. Construct J.C. around exist. 8" V.C.P. per S-a-104. Break out pipe & form new channel in base. New frame & cover per S-a-117
5+45.14 J.C. Construct J.C. around exist. 8" V.C.P. per S-a-104. Break out pipe & form new channel in base. New frame & cover per S-a-117



R/W
FREEWAY
SAN DIEGO
TRACT
No 5651
M.B. 61-70
Sou. Calif. Gas Co.
Sou. Calif. Water Co.
AVE.
Shown at left
GREVILLEA
161st ST.
Exist. rock & oil Pvmt.
0+30.00 J.C.
Reconnect exist. H.L.s. to new sewer in 161st ST. Contractor shall maintain service at all times.
81
82
83
84
85
86
117
116
115
114
113
112
111
110
Exist. 8" V.C.P. C.I. 1156 (Abandon see Sht. S-7)
Curb & gutter
Exist. 6" H.L.
℄ 8" V.C.P. 4'W Aban.
6" H.L.s.
Curb line
2+22.02 M.H. per S-a-104 & S-a-117
2'G

PLAN OF

SANITARY SEWERS

TO BE RECONSTRUCTED UNDER

PRIVATE CONTRACT No 5596

SHEET S-10 W.S. 25 AUG. 1960

SCALE 1"=50'

COUNTY OF LOS ANGELES, CALIFORNIA

APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER

BY C. E. Brunt
ASST. SANITATION ENGINEER

APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT No 5

BY
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the Construction Division of the County Engineer by telephone MAdison 94747, Ext. 81551 at least 24 hours before starting any work on this sheet.

NO CHARGE FOR CONNECTIONS
W. Miskell 9-28-60

DESIGNED	ESQUER, G
TRACED	ESQUER, G
CHECKED	Mishell

70
60
50
40
Ⓑ
Ⓐ
Surface over Sewer
J.C.
M.H.
0+58.23
1+46.74
1+93.00
5+45.14
El. 46.21 8" Outlet on East.
El. 46.41 8" Inlet on North
El. 46.41 0+60.23
El. 46.75 1+44.74
El. 46.95 1+48.74
El. 47.13 1+93.00
El. 47.49 8" Inlet on West 8" Inlet on East
El. 47.23 1+97.00
8" V.C.P. 0.40%
El. 48.61 5+43.14
El. 48.88 8" Inlet on West 8" Inlet on East.
88.51
48.26
350.14
Exist. M.H.
Exist. 8" V.C.P. 0.48%
C.I. 1156
0+30.00
El. 48.88 8" Inlet on West
El. 48.61 8" Outlet on North
El. 48.88 0+32.00
8" V.C.P. 0.40%
El. 49.53 2+20.02
2+22.02
El. 56.94 2+00
El. 56.91 2+40
Grade of North Curb
192.02
Cr. Exc.
Yrs. Emb.
Sta.
0
1
2
3
4
5
6

B.M. 88 C-53 El. 64.91 Δ 285.9 Pg. 31
NW Cor. 169th St. & OSAGE AVE.
5' N. of B.C.R. of N. Cb. of OSAGE AVE.

AS BUILT
CONTRACT NO.
RESIDENT ENGR.
DATE

9-60 10-6-60 10-6-60

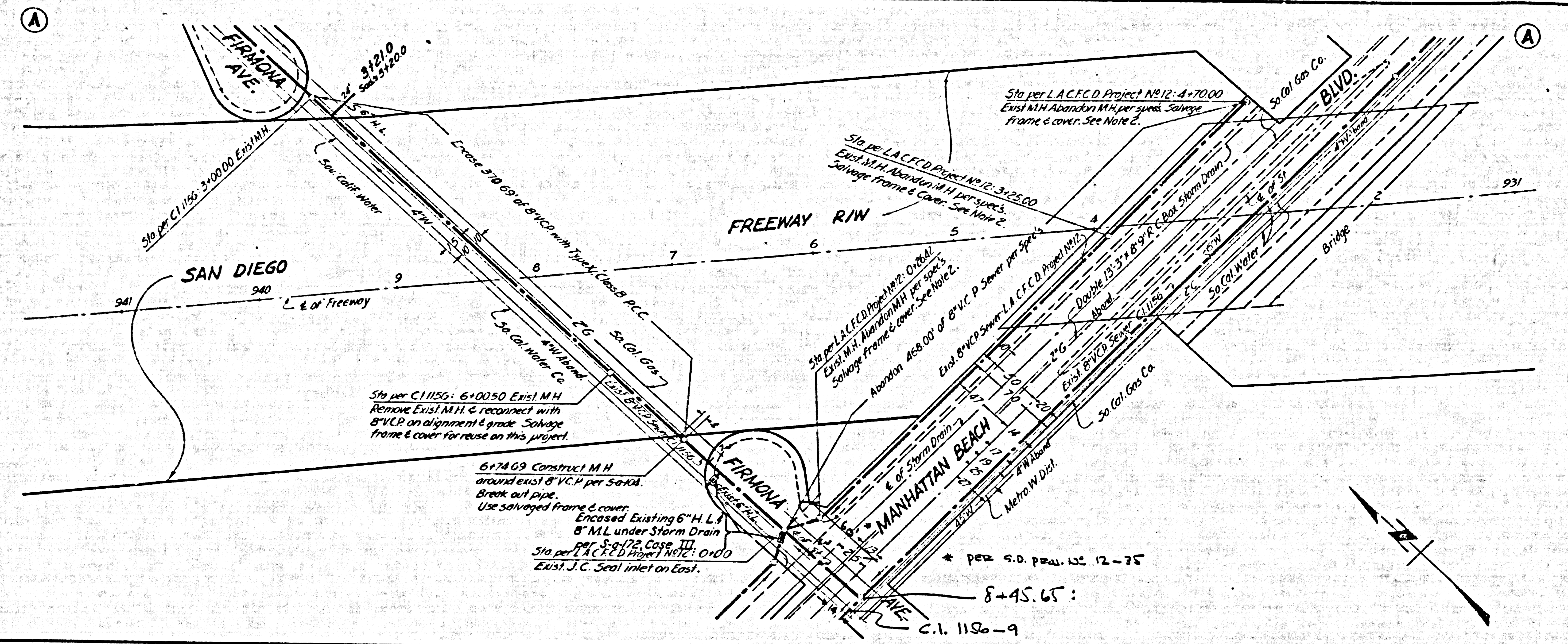
B.P.R. DIV No	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET No	TOTAL SHEETS
	CALIF				

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VII	LA	158	Lnd'l		

George A Hill
DISTRICT ENGINEER

APPROVED

32702


A
FIRMONA AVE.
3+21.0
Sod 3+20.0
24'
6" H.L.
Sta. per C.I. 1156: 3+00.00 Exist. M.H.
Sou. Calif. Water
Excose 370.69' of 8" V.C.P. with Type X, Class B P.C.C.
4"W
15
10
10
SAN DIEGO
941
940
9
8
7
6
5
4
2
931
℄ of Freeway
FREEWAY R/W
2"G
So. Cal. Gas
So. Cal. Water Co.
4"W Aband.
Exist. 8" V.C.P. Sewer C.I. 1156
Sta. per C.I. 1156: 6+00.50 Exist. M.H.
Remove Exist. M.H. & reconnect with 8" V.C.P. on alignment & grade. Salvage frame & cover for reuse on this project.
6+74.69 Construct M.H. around exist. 8" V.C.P. per S-a-104. Break out pipe. Use salvaged frame & cover.
Encased Existing 6" H.L. & 8" M.L. under Storm Drain per S-a-172, Case III
Sta. per L.A.C.F.C.D. Project No. 12: 0+00
Exist. J.C. Seal inlet on East.
FIRMONA
Exist. 6" H.L.
Sta. per L.A.C.F.C.D. Project No. 12: 4+70.00
Exist. M.H. Abandon M.H. per specs. Salvage frame & cover. See Note 2.
Sta. per L.A.C.F.C.D. Project No. 12: 3+25.00
Exist. M.H. Abandon M.H. per specs. Salvage frame & Cover. See Note 2.
Sta. per L.A.C.F.C.D. Project No. 12: 0+26.A2
Exist. M.H. Abandon M.H. per spec's. Salvage frame & cover. See Note 2.
Abandon 468.00' of 8" V.C.P. Sewer per Spec's
Exist. 8" V.C.P. Sewer - L.A.C.F.C.D. Project No. 12
Double 13'3" x 8'9" R.C. Box Storm Drain
Aband.
2"G
Exist. 8" V.C.P. Sewer C.I. 1156
So. Cal. Gas Co.
So. Cal. Water
6"W
℄ of St.
4"W Aband
Bridge
BLVD.
So. Cal. Gas Co.
℄ of Storm Drain
MANHATTAN BEACH
AVE.
47
70
20
14
17
19
25
27
4"W Aband
Metro. W. Dist.
45"W
60
13
* PER S.D. PRW. No. 12-35
8+45.65:
C.I. 1156-9
A

PLAN OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596

SHEETS-11 W.S. 25 OCT., 1960
SCALE: 1" = 50'

COUNTY OF LOS ANGELES, CALIFORNIA

APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY C E Brundy
ASST. SANITATION ENGINEER
APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5
BY
OFFICE ENGINEER

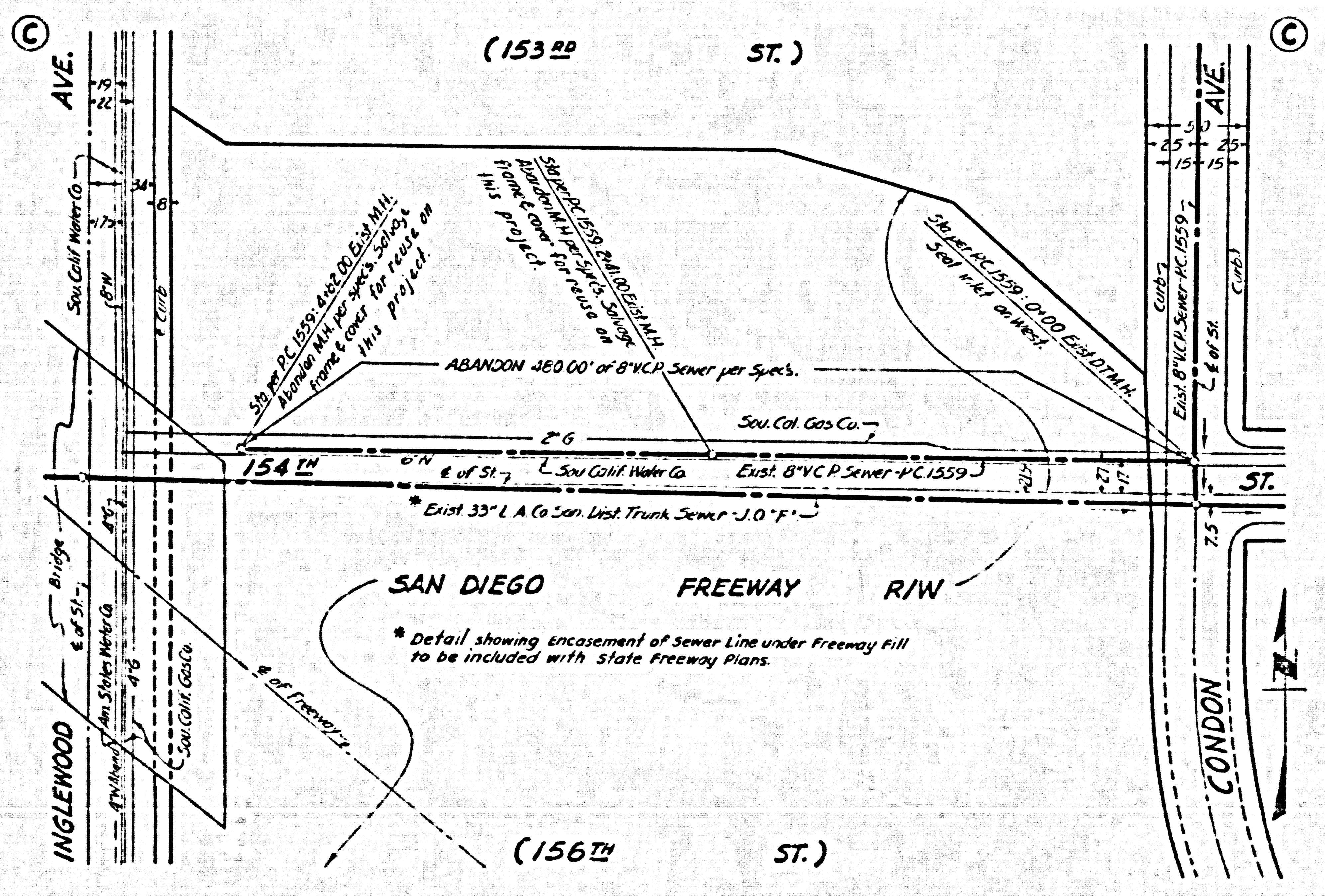
-NOTES-

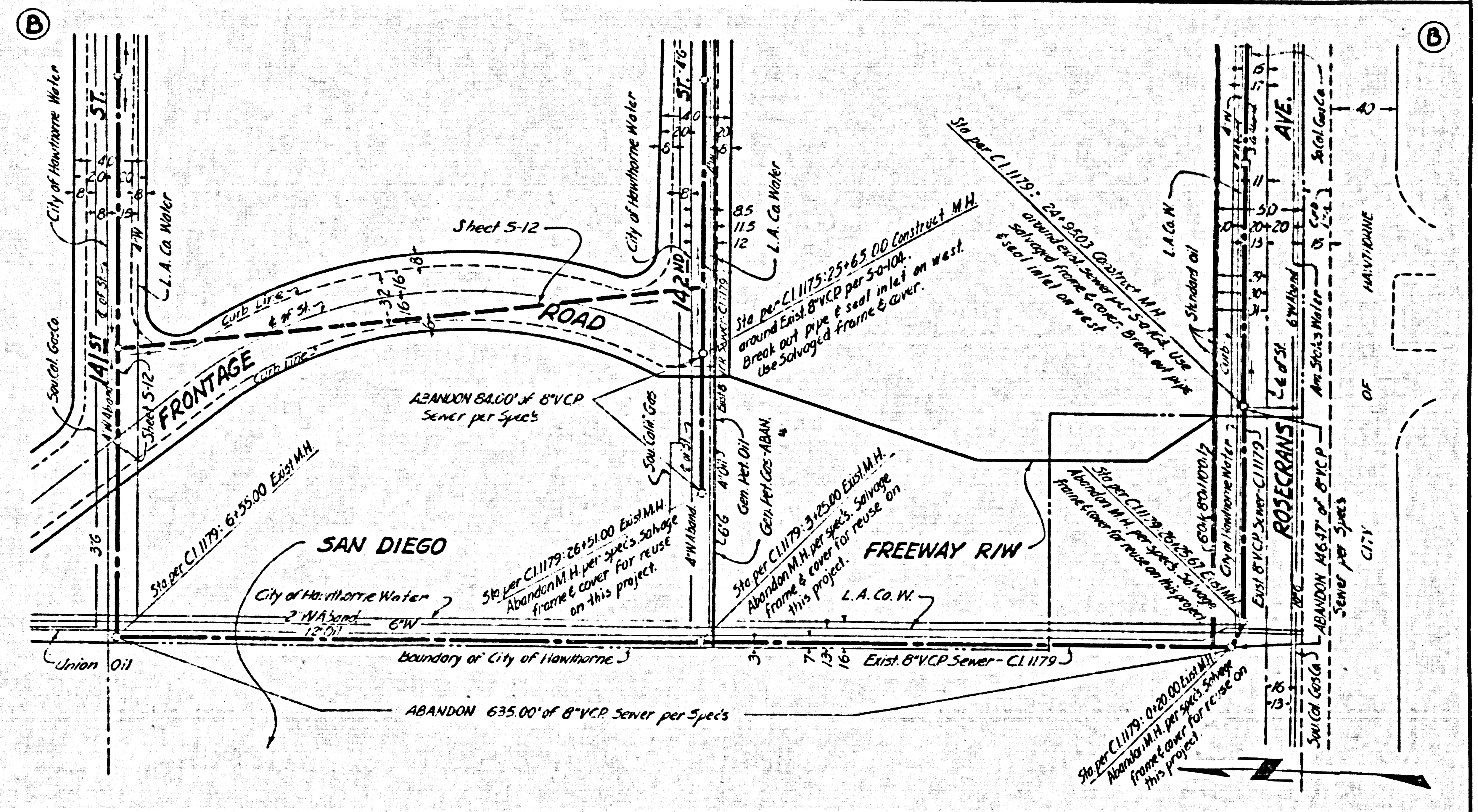
1. The Contractor shall notify the resident engineer at least 48 hours before starting any work on this sheet.

2. The Contractor shall deliver salvaged M.H. frames & covers not designated for reuse on this project to 1129 E. 59th St. Los Angeles (1).

ISSUE NO PERMITS

Designed	N J Wong
Checked	T. Howard


C
(153RD ST.)
AVE.
INGLEWOOD
19
22
34
8
17.5
Sou. Calif. Water Co.
8"W
℄ Curb
Sta. per P.C. 1559: 4+82.00 Exist. M.H. Abandon M.H. per specs. Salvage frame & cover for reuse on this project.
Sta. per P.C. 1559: 2+41.00 Exist. M.H. Abandon M.H. per Specs. Salvage frame & cover for reuse on this project.
Sta. per P.C. 1559: 0+00 Exist. D.T.M.H. Seal inlet on West.
ABANDON 480.00' of 8" V.C.P. Sewer per Spec's.
Sou. Cal. Gas Co.
2"G
6"W
154TH
℄ of St.
Sou. Calif. Water Co.
Exist. 8" V.C.P. Sewer - P.C. 1559
21.5
27
17
ST.
* Exist. 33" L.A. Co. San. Dist. Trunk Sewer - J.O. "F"
Bridge
℄ of St.
Am. States Water Co.
4"G
4"W Aband.
Sou. Calif. Gas Co.
℄ of Freeway
SAN DIEGO FREEWAY R/W
* Detail showing Encasement of Sewer Line under Freeway Fill to be included with State Freeway Plans.
(156TH ST.)
CONDON AVE.
50
25
25
15
15
Curb
Exist. 8" V.C.P. Sewer - P.C. 1559
℄ of St.
Curb
7.5
C


B
City of Hawthorne Water
ST.
141ST
40
20
20
8
8
8
15
7"W
℄ of St.
L.A. Co. Water
Sou. Cal. Gas Co.
4"W Aband.
Sheet S-12
FRONTAGE
Curb Line
℄ of St.
Curb Line
32
16
16
8
ROAD
Sheet S-12
City of Hawthorne Water
142ND ST.
40
20
20
8
6
8.5
11.5
12
L.A. Co. Water
Sta. per C.I. 1175: 25+65.00 Construct M.H. around Exist. 8" V.C.P. per S-a-104. Break out pipe & seal inlet on west. Use Salvaged frame & cover.
ABANDON 84.00' of 8" V.C.P. Sewer per Spec's
Sou. Calif. Gas
℄ of St.
4"W Aband.
4" Oil
6"G
Gen. Pet. Oil
Gen. Pet. Gas - ABAN.
3"G
Sta. per C.I. 1179: 6+55.00 Exist. M.H.
SAN DIEGO
Sta. per C.I. 1179: 26+51.00 Exist. M.H. Abandon M.H. per specs. Salvage frame & cover for reuse on this project.
Sta. per C.I. 1179: 3+25.00 Exist. M.H. Abandon M.H. per spec's. Salvage frame & cover for reuse on this project.
FREEWAY R/W
L.A. Co. W.
City of Hawthorne Water
2" W Aband.
6"W
12" Oil
Union Oil
Boundary of City of Hawthorne
3
7
13
16
Exist. 8" V.C.P. Sewer - C.I. 1179
ABANDON 635.00' of 8" V.C.P. Sewer per Spec's
Sta. per C.I. 1179: 24+95.03 Construct M.H. around exist. sewer per S-a-104. Use salvaged frame & cover. Break out pipe & seal inlet on west.
L.A. Co. W.
Standard oil
Curb
4"W
3"G
11
50
10
20
20
13
6"W Aband.
℄ of St.
Am. States Water
So. Cal. Gas Co.
40
AVE.
ROSECRANS
Sta. per C.I. 1179: 26+23.67 Exist. M.H. Abandon M.H. per spec's. Salvage frame & cover for reuse on this project.
60" & 80" 100" 12
City of Hawthorne Water
Exist. 8" V.C.P. Sewer - C.I. 1179
ABANDON 146.47' of 8" V.C.P. Sewer per Spec's
Sou. Cal. Gas Co.
16
13
Sta. per C.I. 1179: 0+20.00 Exist. M.H. Abandon M.H. per spec's. Salvage frame & cover for reuse on this project.
CITY OF HAWTHORNE
B

145-5

12-12-60 RE Deffebach 12-12-60

FORM WH-23A

7	CALIF			

DATE	REVISION	APPROVED
10/30/61	Shift lower M.H. wly. & Inser horiz. curve in order to avoid relocated water & oil lines	

DIST.	COUNTY	ROUTE	SEC
VII	LA	158	C6

George A. Hill
Dist. Eng. Dist.
Approved

32703

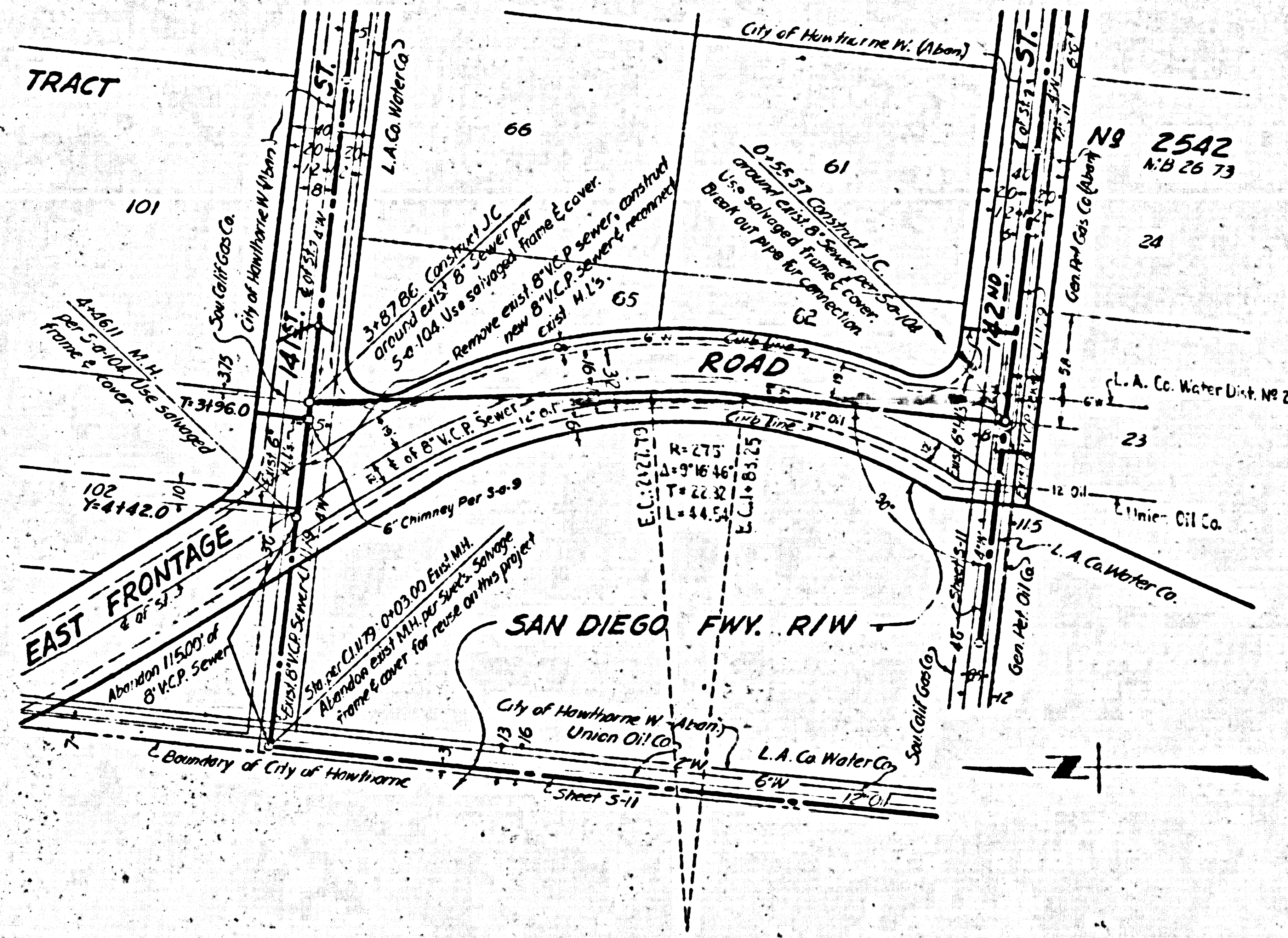
PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-12 W.S. 25 OCT. 1960
SCALES: Horiz.: 1"=50'; Vert.: 1"=5'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY ____ ASST. SANITATION ENGINEER
APPROVED, C. R. COMPTON, CHIEF ENGINEER COUNTY SANITATION DISTRICT Nº 5
BY ____ OFFICE ENGINEER

-NOTES-

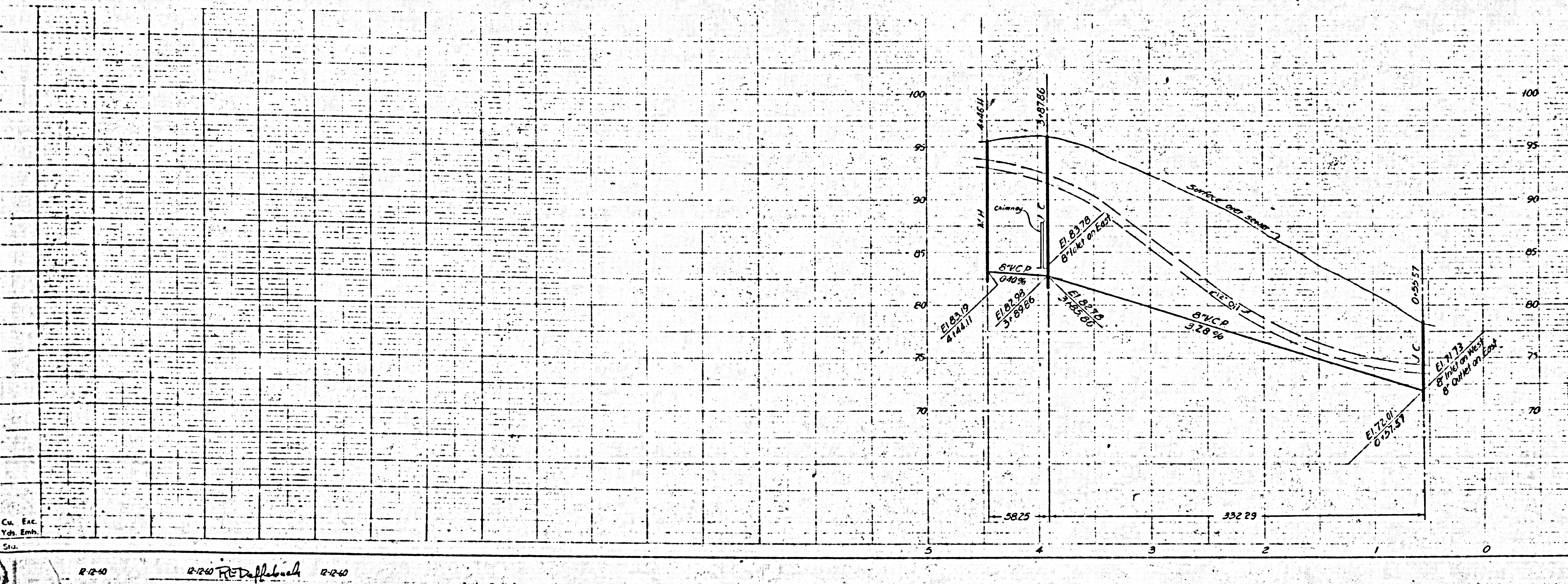
1. The Contractor shall notify the resident engineer at least 48 hours before starting work on this sheet.
2. The Contractor shall maintain sewer service at all times during construction.

NO CHARGE FOR CONNECTIONS

Designed	N J Wong
Checked	R Sievert


TRACT
101
102
Y=4+42.0
66
65
61
62
Nº 2542
M.B. 26 73
24
23
141ST. ST.
142ND ST.
EAST FRONTAGE
℄ of St. 3
ROAD
SAN DIEGO FWY. R/W
L.A. Co. Water Co.
City of Hawthorne W. (Abon.)
Sou. Calif. Gas Co.
4+46.11 M.H. per S-a-104. Use salvaged frame & cover.
T=3+96.0
3+87.86 Construct J.C. around exist. 8" sewer per S-a-104. Use salvaged frame & cover.
Remove exist. 8" V.C.P. sewer, construct new 8" V.C.P. sewer & reconnect exist. H.L.'s.
0+55.57 Construct J.C. around exist. 8" sewer per S-a-104. Use salvaged frame & cover. Break out pipe for connection.
℄ of 8" V.C.P. Sewer
6" Chimney Per S-a-9
Exist. 6" H.L.'s
Exist. 8" V.C.P. Sewer
Abandon 115.00' of 8" V.C.P. Sewer
Sta. per C.I. 1179: 0+03.00 Exist. M.H. Abandon exist. M.H. per Spec's. Salvage frame & cover for reuse on this project
℄ Boundary of City of Hawthorne
City of Hawthorne W. (Abon.)
Union Oil Co.
L.A. Co. Water Co.
℄ Sheet S-11
R=275'
Δ=9°16'46"
T=22.32
L=44.54
E.C.: 2+27.79
E.C.: 1+83.25
Curb line
12" Oil
L. A. Co. Water Dist. Nº 22
Union Oil Co.
Gen. Pet. Oil Co.
Gen. Pet. Gas Co. (Abon.)
L. A. Co. Water Co.
N

B.M. 100-C-53 El. 76.32 L 2853 P. 37
Anza Ave. & Rosecrans Ave., Mon. on projected ℄ Anza Ave 55'± S ℄ Rosecrans Ave.


100
95
90
85
80
75
70
4+46.11
M.H.
3+87.86
J.C.
Chimney
8" V.C.P.
0.40%
El. 83.19
4+44.11
El. 82.98
3+89.86
El. 83.78
8" Inlet on East
El. 82.78
3+85.86
8" V.C.P.
3.28%
Surface over sewer
12" Oil
0+55.57
J.C.
El. 71.73
8" Inlet on West
8" Outlet on East
El. 72.01
0+57.57
58.25
332.29
5
4
3
2
1
0
Cu. Yds.
Exc.
Emb.
Sta.

12-12-60 12-12-60 R.E. Duffelbach 12-12-60

B.P.R. DIV. NO.	STATE	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
7	CALIF				

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	158	C-4		

32704

George A Hill
Dist. Eng. Dist.
Approved

PLAN & PROFILE OF
SANITARY SEWERS
TO BE RECONSTRUCTED UNDER
PRIVATE CONTRACT Nº 5596
SHEET S-13 W.S. 25 OCTOBER, 1960
SCALES: Horiz.: 1"=50'; Vert.: 1"=5'
COUNTY OF LOS ANGELES, CALIFORNIA
APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER

BY C. E. [illegible]
ASST. SANITATION ENGINEER
APPROVED, C.R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICT Nº 5
BY [illegible]
OFFICE ENGINEER

-NOTES-

1. The Contractor shall notify the resident engineer at least 48 hours before starting any work on this sheet.
2. The Contractor shall deliver salvaged M.H. frames & covers to the County Sewer Maintenance Yard, 1129 E. 59th St., Los Angeles.
3. The Contractor shall maintain sewer service at all times during construction.
4. The Contractor shall notify Mr. Carl Busch of the County Sanitation Districts by telephone, NEvada 63097, at least 48 hours before starting any work on this sheet.

NO CHARGE FOR CONNECTIONS
W. Miskeil 12-2-60

Designed	R Sievert
Checked	Miskeil

B.M. 95-RdoB-53 El. 62.01 L2853 P.35
N.W. Cor. of Inglewood Ave. & A.T.&S.F.R.R.
NEW 30 ± N & 17.5 ± W of c/l Ints of Ave & RR

LAWNDALE
BLK. 75
7
8
9
10
ACRES
M.B. 18-128
EAST FRONTAGE ROAD
Curb Line
℄ of St.
16
22
24
46
19+13.0
18+47.0
M.H. 18+97.30
19+15.0
ST.
EX. 50. HAWTHORNE - WARFIELD AVE. TR. SEC. 3
Sta. per C.I. 1156: 21+68.00 Exist. M.H. Remove exist. M.H. & reconnect with 18" E.S.V.C.P. on alignment & grade. Salvage frame & cover. See note 2.
SAN DIEGO
FREEWAY R/W
9
8
7
6
945
4 ℄ of Freeway
3
2
1
19"
19"
Class "A" (3,000 P.S.I.) Concrete Pipe Encasement. Pour encasement against undisturbed earth. Backfill trench per Method "B".
DIA.
18"
8"
8" Min.
Exist. 18" E.S.V.C.P.
DETAIL
PIPE ENCASEMENT
Scale 1" = 1'-0"
Encase 495.00' of 18" V.C.P. per detail shown at left. Backfill trench per Method "B".
Abandon 271.00' of 8" V.C.P. sewer per Specs.
Exist. 8" V.C.P. Sewer - C.I. 1156
1+00.00 Exist. M.H. Break into exist. M.H. & form new channel in base.
WEST FRONTAGE ROAD
℄ of St.
℄ of 8" V.C.P. sewer
Curb Line
Exist. H.L.
Exist. Y's
4.22
13
11.02
6" H.L.
BLK. 74
9
8
7
LAWNDALE
156th
Curb
1
12
13
14
15
16
1+23.71 T.M.H. per S-a-104, S-a-137, S-a-138. Use salvaged frame & cover.
2+59.5
Y=2+57.5
BLK. 77
3+73.5
Y=3+72.0
4+50.41 M.H. per S-a-104. Use salvaged frame & cover.
Reconnect exist. H.L. to new 8" sewer. Y=4+61.0
4
5+02.01 Exist. M.H. Break into exist. M.H. & form new channel in base. Seal outlet on North.
Exist. Y's
5
BLK. 78
2" G. 13' E of ℄ of St. Sou. Calif. Gas Co.
4" W. 15' E of ℄ of St. Sou. Calif. Water Co.
CONDON AVE.
ACRES
M.B. 18-128
Construct house laterals with 1/4" rise per ft. to property line
1+00.00
1+23.71
4+50.41
5+02.01
60
55
50
45
40
Surface over Sewer
Exist. M.H.
T.M.H.
M.H.
Exist. M.H.
El. 43.87 18" Outlet on East
El. 43.91 18" Inlet on West
El. 44.66 1+02.00
8" V.C.P. 6.60%
El. 45.96 1+25.71
El. 45.96 1+21.71
8" V.C.P. 0.40%
El. 47.25 4+48.41
El. 47.45 4+52.41
El. 47.64 5+00.01
8" V.C.P. 0.40%
El. 47.84 8" Inlet on South
23.71
326.70
51.60
1
2
3
4
5
Cu. Exc.
Yds. Emb.
Sta.

12-12-60 12-12-60 R.E.D. [illegible] 12-12-60

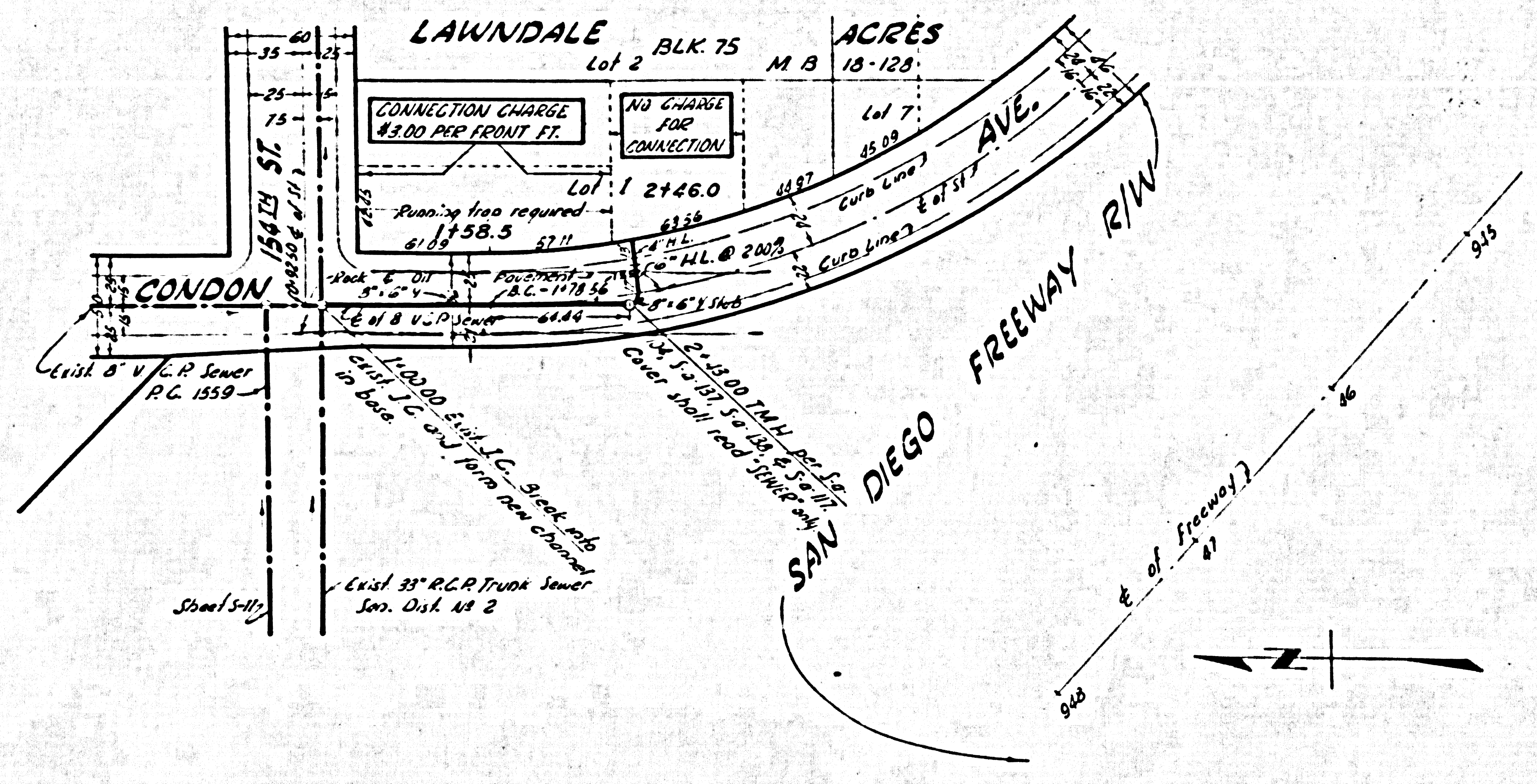
1-405-3(44)135

B.P.R. Div. No.	STATE	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
7	CALIF.			59	219

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	158	Lndl.	59	151

George A Hill
Dist. Eng. Dist.
Approved W. L. Warren

32705.


LAWNDALE
BLK. 75
ACRES
Lot 2
M B
18-128
Lot 7
Lot 1
2+46.0
CONNECTION CHARGE $3.00 PER FRONT FT.
NO CHARGE FOR CONNECTION
Running trap required
1+58.5
154TH ST.
CONDON
AVE.
SAN DIEGO FREEWAY R/W
Curb Line
℄ of St.
Rock & Oil 5"-6"
Pavement B.C. - 1+78.56
4" H.L.
6" H.L. @ 2.00%
8"-6" Y Stub
℄ of 8" V.C.P. Sewer
64.44
Exist. 8" V.C.P. Sewer P.C. 1559
1+00.00 Exist. J.C. Break into exist. J.C. and form new channel in base.
2+43.00 T.M.H. per S.O. 134, S.O. 137, S.O. 138, & S.O. 117. Cover shall read "SEWER" only.
Exist. 33" R.C.P. Trunk Sewer San. Dist. No 2
Sheet S-11
℄ of Freeway
948
915
N

PLAN & PROFILE
SANITARY SEWERS
TO BE CONSTRUCTED UNDER
PRIVATE CONTRACT No 5596
SHEET S-14 W.S. 25 FEB., 1961
SCALES: Horiz. 1"=50', Vert. 1"=5'
CITY OF LAWNDALE, CALIFORNIA
APPROVED, JOHN A LAMBIE, CITY ENGINEER
BY C. E. Bransby
ASST. SANITATION ENGINEER
APPROVED, C. R. COMPTON, CHIEF ENGINEER
COUNTY SANITATION DISTRICTS No 2 & 5
DESIGN ENGINEER

-NOTES-

1. The Contractor shall notify the Resident Engineer at least 48 hours before starting any work on this sheet.

BEFORE BREAKING INTO ANY EXISTING STRUCTURE AND BEFORE FINAL ACCEPTANCE OF THIS WORK, COUNTY SANITATION DISTRICT (DU 4 1281) SHALL BE NOTIFIED IN ORDER THAT REQUIRED INSPECTION CAN BE MADE.

NO CONNECTIONS FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS WITHOUT WRITTEN PERMISSION FROM THE CHIEF ENGINEER AND GENERAL MANAGER OF THE COUNTY SANITATION DISTRICTS.

CONNECTION CHARGES AS INDICATED
W. Miskell 2-10-61

Designed	Hondo
Checked	Miskell

B.M. 94-G-53 El. 57.44 L 2853 Pg. 34 Manhattan Beach Blvd. & Firmona Ave. N. & W. 353' W. & 515' S. of ℄ intersection
1+00.00
2+43.00
El. 55.36 1+26
El. 54.72 4+36
Grade of East Curb
Surface Over Sewer
Exist. J.C.
T.M.H.
El. 46.57 8" Inlet on North
El. 47.92 33" Inlet on West 33" Outlet on East
8" V.C.P.
0.40%
El. 46.57 1+02.00
El. 47.13 2+41.00
El. 47.13 2+43.00
143.00
55
50
45
40
Co. Exc.
Yds. Emb.
Sta.
1
2
3
4
5

G.D. TURNER 2-21-61 2-21-61 R.E. Deffebach 2-21-61