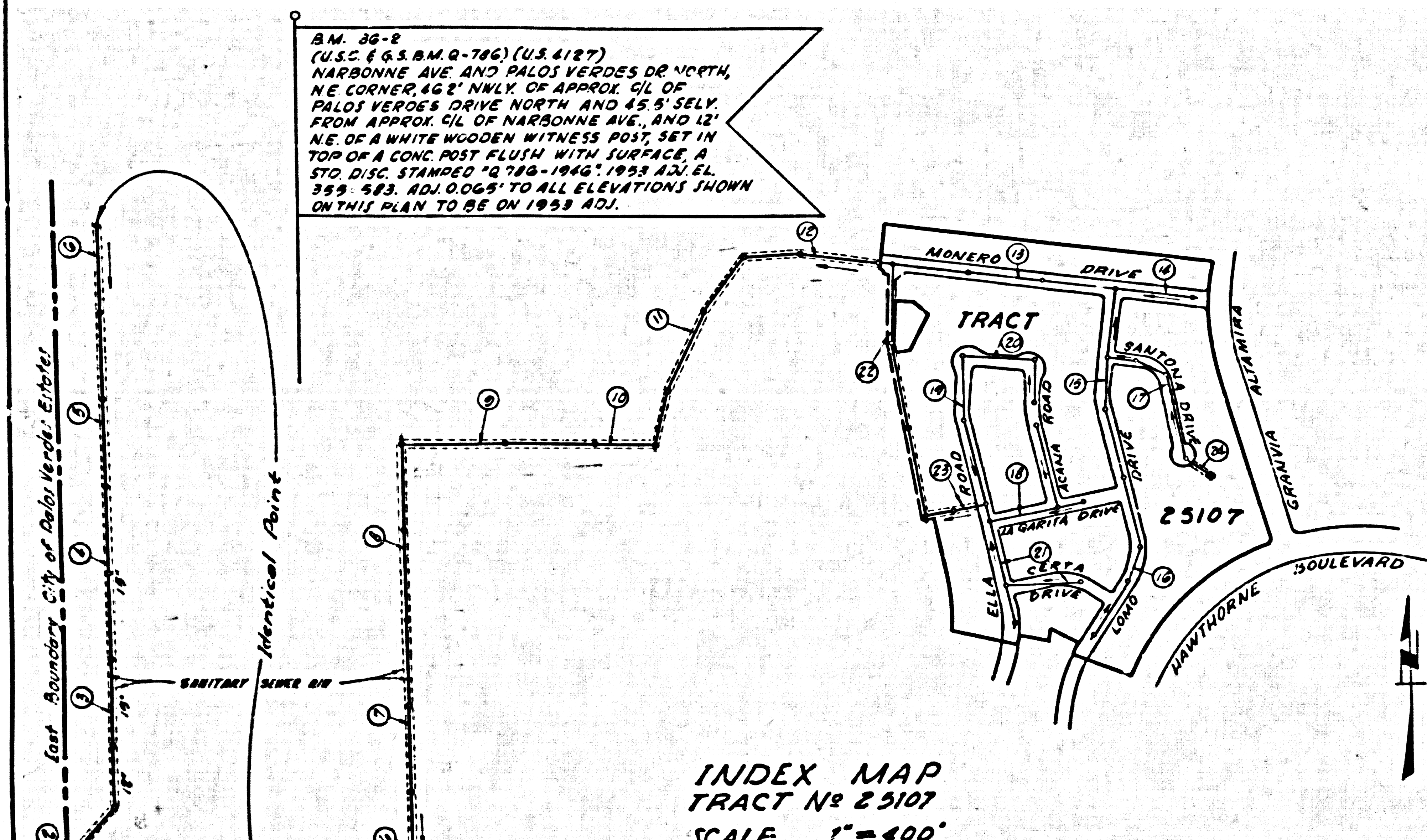

MONERO DRIVE
TRACT
25107
SANTOLINA DRIVE
ALTAMIRA
GRANVIA
HAWTHORNE BOULEVARD
ELLA ROAD
LOMO DRIVE
CERTA DRIVE
LA GARITA DRIVE
East Boundary City of Palos Verdes Estates
Identical Point
SANITARY SEWER 8"
Ex. 10" Trunk Sewer San. Dist. No 5
11
12
13
14
15
16
17
18
19
20
21
22
23
24

B.M. 3G-2
(U.S.C. & G.S. B.M. Q-786) (U.S. 4127)
NARBONNE AVE. AND PALOS VERDES DR. NORTH, N.E. CORNER, 46.2' NWLY. OF APPROX. C/L OF PALOS VERDES DRIVE NORTH AND 45.5' SELY. FROM APPROX. C/L OF NARBONNE AVE., AND 12' N.E. OF A WHITE WOODEN WITNESS POST, SET IN TOP OF A CONC. POST FLUSH WITH SURFACE, A STD. DISC. STAMPED "Q 786-1946". 1953 ADJ. EL. 355.583. ADJ. 0.065' TO ALL ELEVATIONS SHOWN ON THIS PLAN TO BE ON 1953 ADJ.

INDEX MAP
TRACT Nº 25107
SCALE 1" = 400'
P.C. 5441

NOTE: Approval is hereby given contingent upon a field investigation of the completed sewer and all grading operations relating thereto by the County Engineer or his representative.

NO CHARGE FOR CONNECTIONS
Arthur B. Reedy

Revised Page 9, 10, 11, 12, lowered Finished Surface over Sewer.
Approved: Edward J. Smith 8-5-60
Office of County Engineer
CE 7267

DOUBLE SCALE

LOMITA BLDG. DIST. NO. 7.1

NOTES:

1. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
2. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
3. THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND Y BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ANY CHANGE IN LOCATION SHALL BE REQUESTED IN WRITING BY THE OWNER OR HIS REPRESENTATIVE.
4. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
5. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
6. USE STANDARD MANHOLE FRAMES AND COVERS, S-e-117, EXCEPT AS NOTED.
7. USE STANDARD STRENGTH PIPE EXCEPT AS NOTED.
8. USE CEMENT MORTAR OR "WEDGE-LOCK" OR "SPEED-SEAL" FOR ALL V.C.P. JOINTS PER SPEC'S., SECS. 36 & 40.
9. RESURFACE ALL TRENCH WITHIN PAVED AREA TO MEET L.A. COUNTY ROAD DEPT. OR CALIF. STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
10. ENCASE FOUR FEET OF SEWER AT POINTS OF INTERFERENCE WITH POLES, CASE III, S-e-172.
11. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
12. ALL STRUCTURES SHALL BE BRICK SEWER STRUCTURES, S-e-104, EXCEPT AS NOTED.
13. FOR ALLOWABLE LEAKAGE TEST USE FORMULA NO. 1, SPEC'S., SEC. 54.
14. MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION & STORM DRAIN DIVISION BY TELEPHONE, MADISON 9-4747, EXT. 362, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.

16(a) NO CONSTRUCTION WILL BE PERMITTED IN FILLED AREAS UNLESS ACCEPTABLE CERTIFICATION IS SUBMITTED TO THE CONSTRUCTION DIVISION OF THE COUNTY ENGINEERS DEPARTMENT THAT COMPACTION IS GREATER THAN 80%.
(b) IF COMPACTION IS LESS THAN 90% THE SEWER MUST BE CRADLED & SPECIAL M.H. BASES CONST. AS SHOWN ON PLANS
(c) IF COMPACTION IS GREATER THAN 90% CRADLING AND SPECIAL M.H. BASES ARE NOT REQUIRED. HOWEVER, JOINT COMPOUND MUST BE SUBSTITUTE FOR CEMENT MORTAR FOR ALL JOINTS IN FILLED AREAS.

17 STANDARD SPECIFICATIONS DATED JAN. 1-1960 APPLY IN THE CONSTRUCTION OF THIS PROJECT.

ENGINEERING SERVICE CORPORATION
1127 W. WASHINGTON BLVD.
LOS ANGELES 15, CALIF. RI. 9-7281

REVISIONS		
		TRACED BY J.A., C.F., M.K.
		DESG'D BY D.H.
		CK'D BY
		SUBMITTED
SUB STRUCTURES OK'D		

W. O. NO.	DWG. NO.	DATE	SCALE	L. B.	F. B.
6681-143 & 6681-149		Jan. 1960	As noted	948 & 949	

PROFILE ALIGNMENT AND GRADE OF P.C. 5441
SANITARY SEWERS PAGE 1
TO BE CONSTRUCTED IN J.N. 0352.86

TRACT Nº 25107

PRIVATE CONTRACT NO. 5441

W.S. 27
12 SHEETS; 24 PAGES
SCALE: VERT. 1" = 8' HORIZ. 1" = 40' January, 1960
PREPARED IN THE OFFICES OF
ENGINEERING SERVICE CORPORATION

30366

By: E.F. Koenig
REG. C. E. NO. 3692

FOR LEGEND SEE PLAN NO. S-A-64

NOTE:

GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.

ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.

THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.

WORK SHALL BE CONSTRUCTED ACCORDING TO SPECIFICATIONS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.

BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L. A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 8, AND PAY A FEE TO THE COUNTY ENGINEER, ROOM 324 PAN AMERICAN BUILDING, 253 SO. BROADWAY SUFFICIENT TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.

APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.

IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET.

COUNTY OF LOS ANGELES, CALIFORNIA

APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER
BY O.E. Brumly
ASST. SANITATION ENGINEER

APPROVED, C.R. COMPTON, CHIEF ENGINEER
CO. SAN. DIST. NO. 11
BY G. Posthumus
OFFICE ENGINEER

CHECKED BY S.K. Vida 5-25-60
OFFICE OF COUNTY ENGINEER, REG. C. E. NO. 9406

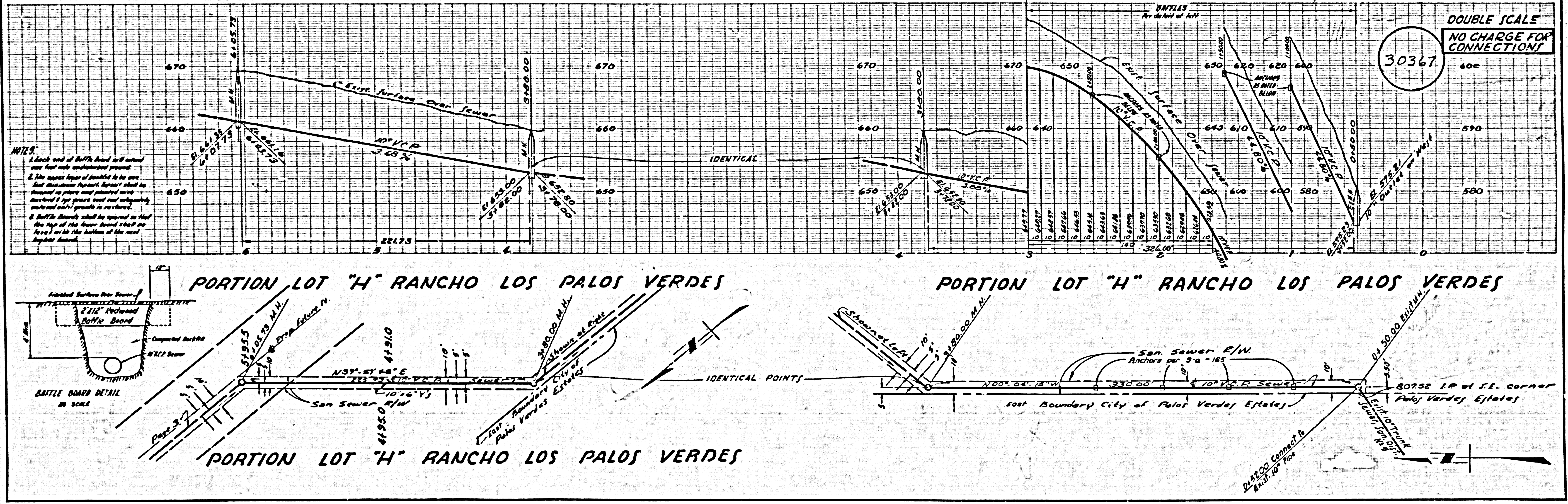
SUBMITTED BY Jack C. Lansing
PALOS VERDES-CENTINELA VALLEY REGIONAL ENGINEER

P.C. 5441 PAGE 2

DOUBLE SCALE

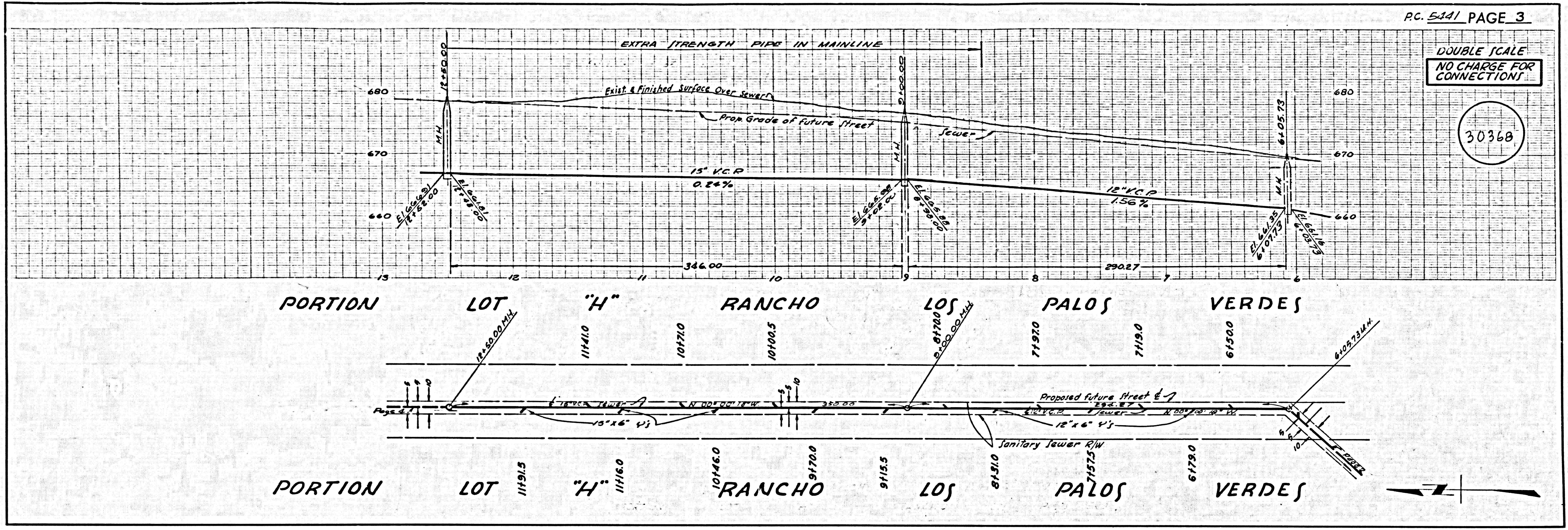
NO CHARGE FOR CONNECTIONS

30367


670
660
650
640
630
620
610
600
590
580
M.H.
Exist. Surface Over Sewer
10" V.C.P. 3.68%
IDENTICAL
10" V.C.P. 3.00%
BAFFLES For detail at left
Exist. Surface Over Sewer
46.80% 10" V.C.P.
10" Outlet on West
221.73
326.00
6
5
4
3
2
1
0
PORTION LOT "H" RANCHO LOS PALOS VERDES
San. Sewer R/W
N 39°51'48" E
Sewer
East Boundary City of Palos Verdes Estates
Page 3
Prop. Future M.H.
IDENTICAL POINTS
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES
Shown at left
San. Sewer R/W
Anchors per S-a-165
N 00°04'15" W
330.00
10" V.C.P. Sewer
East Boundary City of Palos Verdes Estates
I.P. at S.E. corner Palos Verdes Estates
Exist. 10" Trunk Sewer
Connect to Exist. 10" Pipe
Finished Surface Over Sewer
2"x12" Redwood Baffle Board
Compacted Backfill
8" V.C.P. Sewer
BAFFLE BOARD DETAIL
No Scale

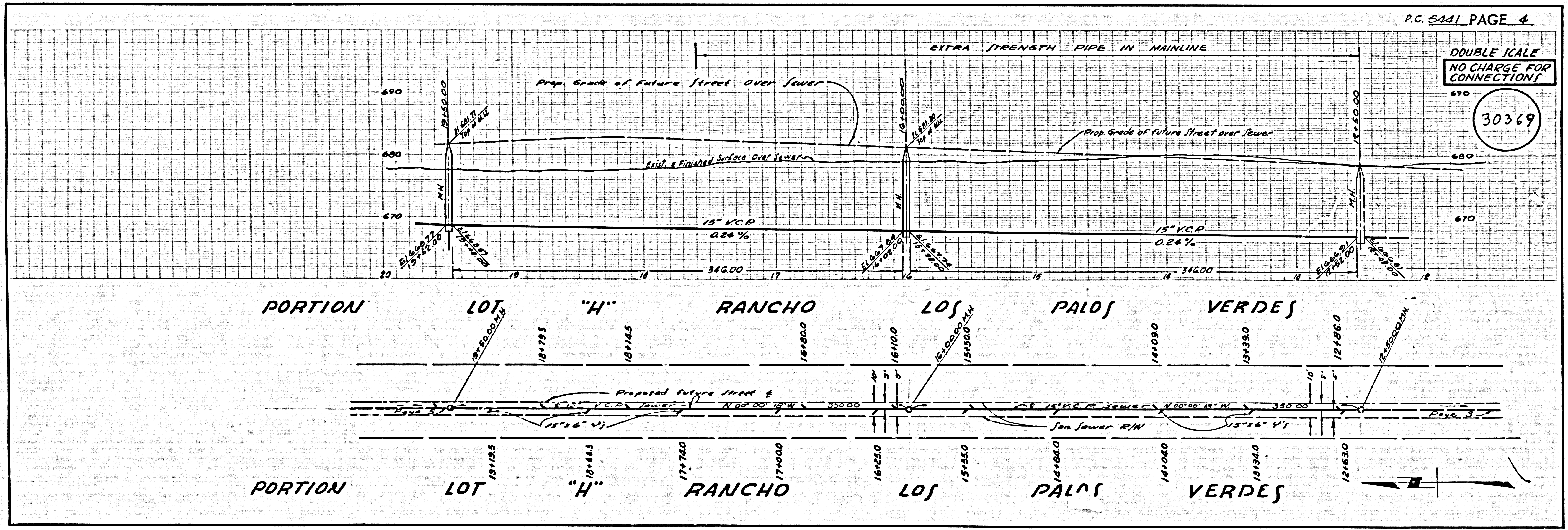
NOTES:
1. Each end of Baffle board will extend one foot into undisturbed ground.
2. The upper layer of backfill to be one foot minimum depth. Topsoil shall be tamped in place and planted with mustard & rye grass seed and adequately watered until growth is restored.
3. Baffle Boards shall be spaced so that the top of the lower board shall be level with the bottom of the next higher board.

P.C. 5441 PAGE 3



DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30368
EXTRA STRENGTH PIPE IN MAINLINE
12+50.00
9+00.00
6+05.73
680
670
660
Exist. & Finished Surface Over Sewers
Prop. Grade of Future Street
Sewer
M.H.
15" V.C.P.
0.24%
12" V.C.P.
1.56%
El. 666.91 12+52.00
El. 661.81 12+48.00
El. 665.98 9+02.00
El. 665.88 8+98.00
El. 661.35 6+07.73
El. 661.16 6+03.73
346.00
290.27
13
12
11
10
9
8
7
6
PORTION LOT "H" RANCHO LOS PALOS VERDES
12+50.00 M.H.
11+41.0
10+71.0
10+00.5
8+70.0
9+00.00 M.H.
7+97.0
7+19.0
6+50.0
6+05.73 M.H.
Page 4
5
5
10
15" V.C.P. Sewer
N 00° 00' 18" W.
350.00
15" x 6" Y's
Proposed future Street ℄
294.27
12" V.C.P. Sewer
N 00° 00' 18" W.
12" x 6" Y's
Sanitary Sewer R/W
Page 2
11+91.5
11+16.0
10+46.0
9+70.0
9+15.5
8+31.0
7+57.5
6+79.0
PORTION LOT "H" RANCHO LOS PALOS VERDES

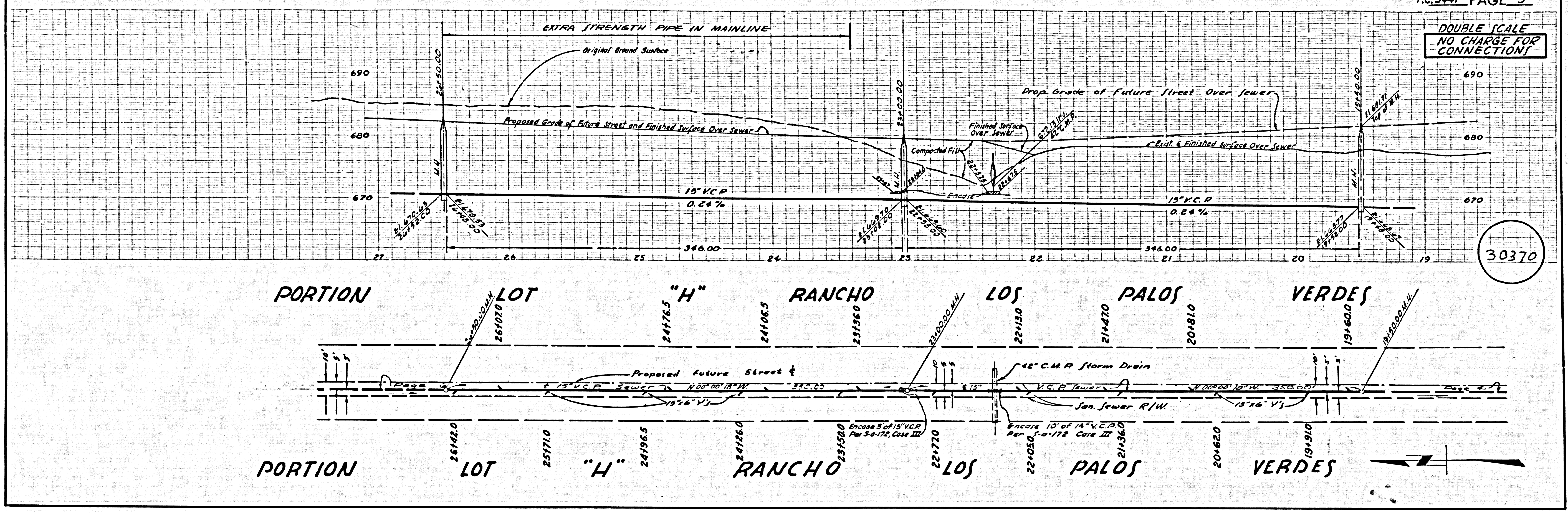
P.C. 5441 PAGE 4



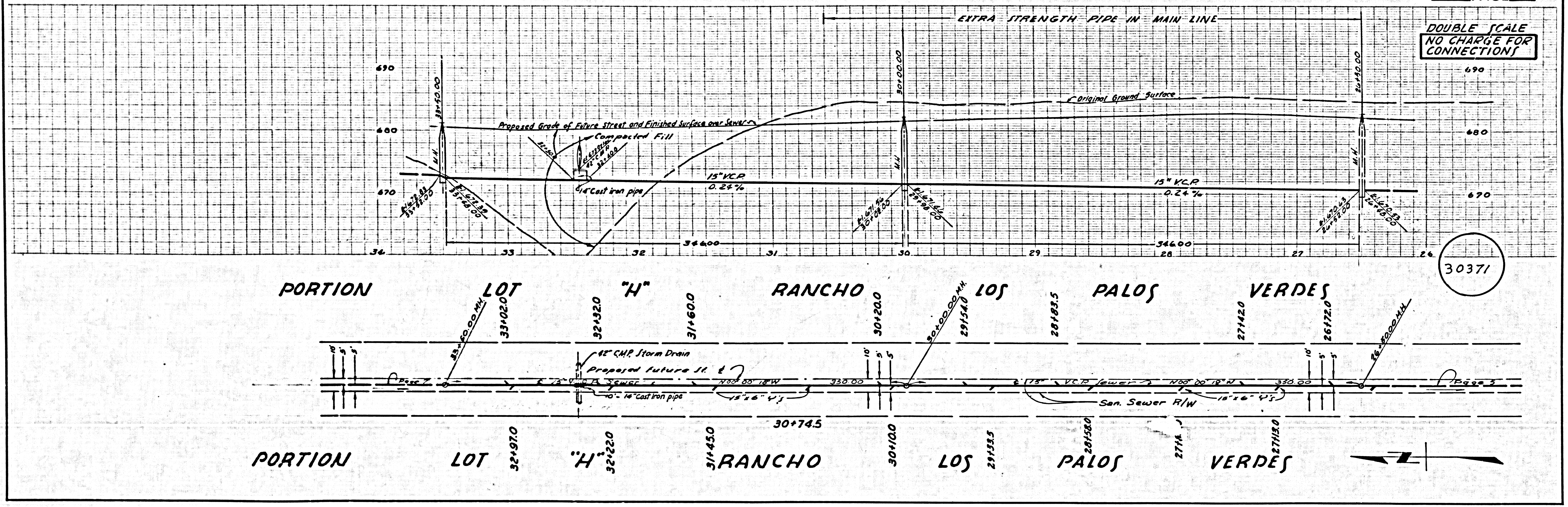
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30369
EXTRA STRENGTH PIPE IN MAINLINE
Prop. Grade of Future Street Over Sewer
Prop. Grade of future Street over Sewer
Exist. & Finished Surface Over Sewer
19+50.00
16+00.00
12+50.00
El. 681.71 Top of M.H.
El. 681.20 Top of M.H.
690
680
670
M.H.
15" V.C.P.
0.24%
15" V.C.P.
0.24%
El. 666.77 19+52.00
El. 666.67 19+48.00
El. 667.84 16+02.00
El. 667.74 15+98.00
El. 666.91 12+52.00
El. 666.81 12+48.00
346.00
346.00
20
19
18
17
16
15
14
13
12
PORTION LOT "H" RANCHO LOS PALOS VERDES
19+50.00 M.H.
18+79.5
18+14.5
16+80.0
16+10.0
16+00.00 M.H.
15+50.0
14+09.0
13+39.0
12+86.0
12+50.00 M.H.
Page 3
Proposed future Street ℄
12" V.C.P. Sewer
N 00° 00' 18" W.
350.00
15" x 6" Y's
10'
5'
5'
15" V.C.P. Sewer
N 00° 00' 18" W.
350.00
San. Sewer R/W
15" x 6" Y's
Page 3
19+19.5
18+44.5
17+74.0
17+00.0
16+25.0
15+35.0
14+84.0
14+04.0
13+34.0
12+63.0
PORTION LOT "H" RANCHO LOS PALOS VERDES

E. & S. 100 CO. CAL. BLUE PRINT SHEET NO. 2

P.C. 5441 PAGE 5


EXTRA STRENGTH PIPE IN MAINLINE
Original Ground Surface
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
690
680
670
24+50.00
M.H.
El. 670.63 24+52.00
El. 670.53 24+48.00
Proposed Grade of Future Street and Finished Surface Over Sewer
15" V.C.P.
0.24 %
346.00
23+00.00
M.H.
El. 669.70 23+02.00
El. 669.60 22+98.00
Compacted Fill
Finished Surface Over Sewer
672.13 I.E. 42" C.M.P.
22+57.5
22+47.5
Encase
Prop. Grade of Future Street Over Sewer
Exist. & Finished Surface Over Sewer
19+50.00
El. 681.71 Top of M.H.
M.H.
El. 668.77 19+52.00
El. 668.67 19+48.00
27
26
25
24
23
22
21
20
19
30370
PORTION LOT "H" RANCHO LOS PALOS VERDES
24+50.00 M.H.
26+07.0
24+76.5
24+06.5
23+36.0
23+00.00 M.H.
22+13.0
21+47.0
20+81.0
19+60.0
19+50.00 M.H.
10'
5'
5'
Page 6
Proposed Future Street ℄
15" V.C.P. Sewer
N 00° 00' 18" W.
350.00
15"x6" Y's
Encase 3' of 15" V.C.P. Per S-e-172, Case III
℄ 15"
42" C.M.P. Storm Drain
V.C.P. Sewer
San. Sewer R/W.
Encase 10' of 15" V.C.P. Per S-e-172 Case III
N 00° 00' 18" W.
350.00'
15"x6" Y's
Page 4
26+42.0
25+71.0
24+96.5
24+26.0
23+50.0
22+77.0
22+05.0
21+36.0
20+62.0
19+91.0
PORTION LOT "H" RANCHO LOS PALOS VERDES
N

P.C. 5441 PAGE 6


EXTRA STRENGTH PIPE IN MAIN LINE
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
690
680
670
33+50.00
M.H.
El. 672.83 33+52.00
El. 672.39 33+48.00
Proposed Grade of Future Street and Finished Surface over Sewer
Compacted Fill
32+50
El. 673.97 I.E. 42" C.M.P. 32+40.0
14" Cast iron pipe
15" V.C.P.
0.24 %
34600
30+00.00
M.H.
El. 671.56 30+02.00
El. 671.46 29+98.00
Original Ground Surface
15" V.C.P.
0.24 %
346.00
26+50.00
M.H.
El. 670.63 26+52.00
El. 670.53 26+48.00
34
33
32
31
30
29
28
27
26
30371
PORTION LOT "H" RANCHO LOS PALOS VERDES
33+60.00 M.H.
33+02.0
32+32.0
31+60.0
30+20.0
30+00.00 M.H.
29+54.0
28+83.5
27+42.0
26+72.0
26+50.00 M.H.
10'
5'
5'
Page 7
42" C.M.P. Storm Drain
Proposed Future St. ℄
15" V.C.P. Sewer
10' - 14" Cast Iron pipe
N 00° 00' 18" W
330.00
15"x6" Y's
℄ 15" V.C.P. Sewer
San. Sewer R/W
N 00° 00' 18" W
350.00
15"x6" Y's
Page 5
30+74.5
32+97.0
32+22.0
31+45.0
30+10.0
29+33.5
28+58.0
27+18.0
PORTION LOT "H" RANCHO LOS PALOS VERDES
N

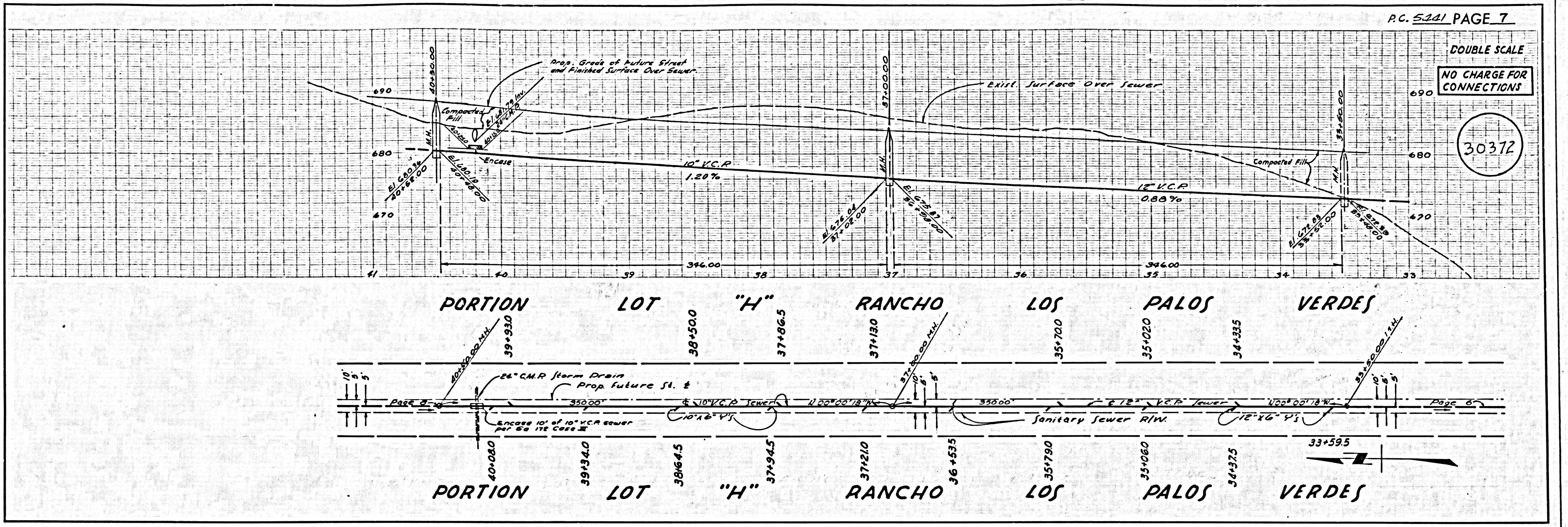
No Cradle.

P.C. 5441 PAGE 7

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30372

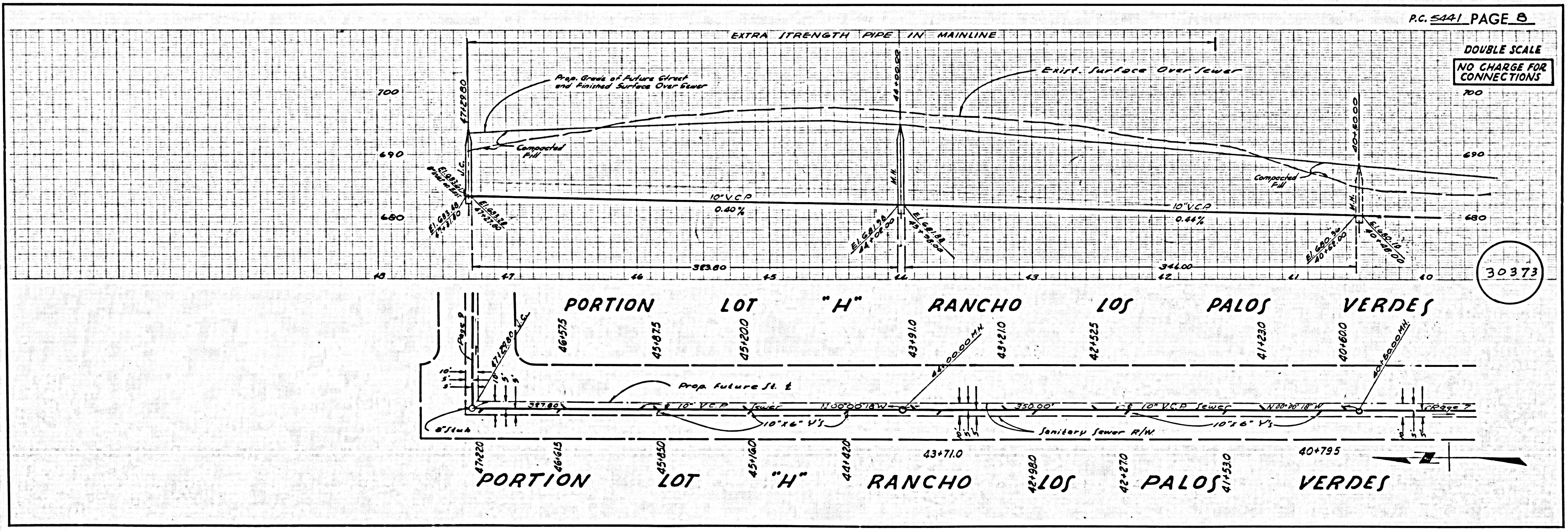

Prop. Grade of Future Street and Finished Surface Over Sewer
Exist. Surface Over Sewer
Compacted Fill
Encase
10" V.C.P. 1.20%
12" V.C.P. 0.88%
M.H.
40+50.00
37+00.00
33+50.00
El. 680.36 40+62.00
El. 680.10 40+48.00
El. 675.84 37+02.00
El. 675.87 36+98.00
El. 672.83 33+52.00
El. 672.58 33+48.00
346.00
346.00
690
680
670
41
40
39
38
37
36
35
34
33
PORTION LOT "H" RANCHO LOS PALOS VERDES
39+93.0
38+50.0
37+86.5
37+13.0
37+00.00 M.H.
35+70.0
35+02.0
34+33.5
33+50.00 M.H.
40+50.00 M.H.
24" C.M.P. Storm Drain
Prop. Future St. ℄
Encase 10' of 10" V.C.P. sewer per Sa 112 Case III
℄ 10" V.C.P. Sewer
N 00°00'18"W
350.00'
350.00'
℄ 12" V.C.P. Sewer
10"x6" Y's
12"x6" Y's
Sanitary Sewer R/W.
Page 8
Page 6
10'
5'
5'
40+08.0
39+34.0
38+64.5
37+94.5
37+21.0
36+53.5
35+79.0
35+06.0
34+37.5
33+59.5
PORTION LOT "H" RANCHO LOS PALOS VERDES

P.C. 5441 PAGE 8

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

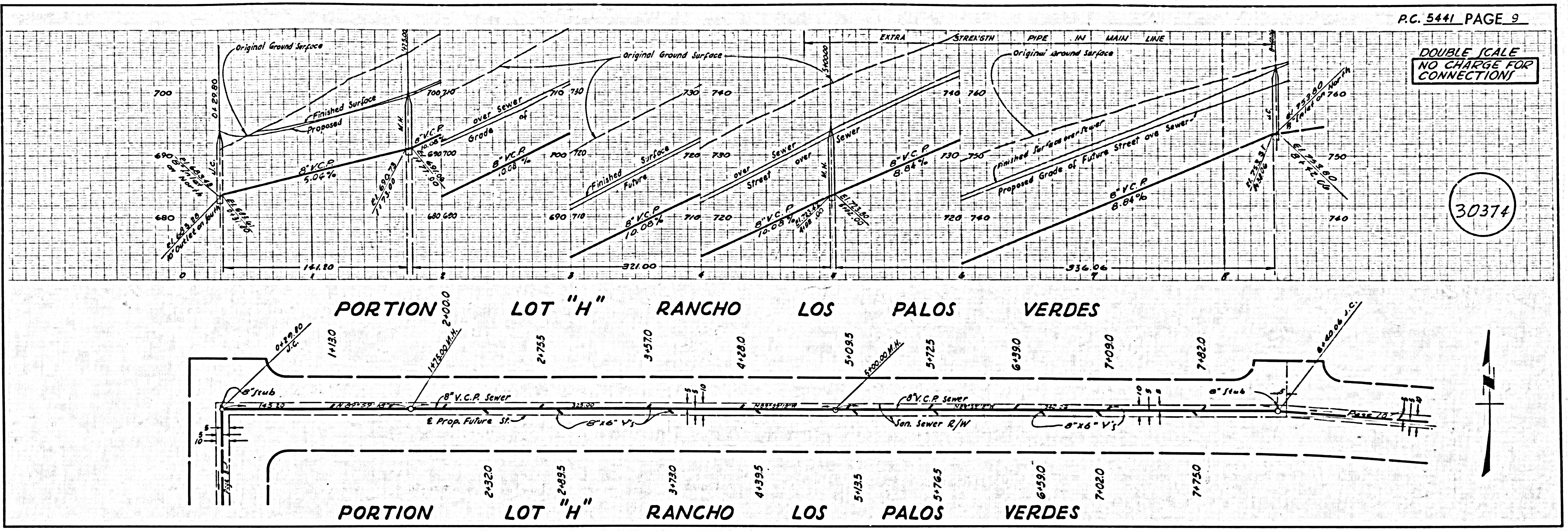
30373


EXTRA STRENGTH PIPE IN MAINLINE
Prop. Grade of Future Street and Finished Surface Over Sewer
Exist. Surface Over Sewer
Compacted Fill
Compacted Fill
10" V.C.P. 0.40%
10" V.C.P. 0.44%
J.C.
M.H.
M.H.
47+29.80
44+00.00
40+50.00
El. 683.46 47+31.80
El. 683.20 47+27.80
El. 680.96 44+02.00
El. 681.88 43+98.00
El. 680.36 40+52.00
El. 680.10 40+48.00
383.80
346.00
700
690
680
48
47
46
45
44
43
42
41
40
PORTION LOT "H" RANCHO LOS PALOS VERDES
Page 9
47+29.80 J.C.
46+57.5
45+87.5
45+20.0
43+91.0
44+00.00 M.H.
43+21.0
42+52.5
41+23.0
40+60.0
40+50.00 M.H.
Prop. Future St. ℄
℄ 10" V.C.P. Sewer
N 00°00'18"W
383.80'
350.00'
10"x6" Y's
Sanitary Sewer R/W.
6" Stub
Page 7
10'
5'
5'
47+22.0
46+61.5
45+65.0
45+16.0
44+42.0
43+71.0
42+98.0
42+27.0
41+53.0
40+79.5
PORTION LOT "H" RANCHO LOS PALOS VERDES

P.C. 5441 PAGE 9

DOUBLE SCALE
NO CHARGE FOR
CONNECTIONS

30374

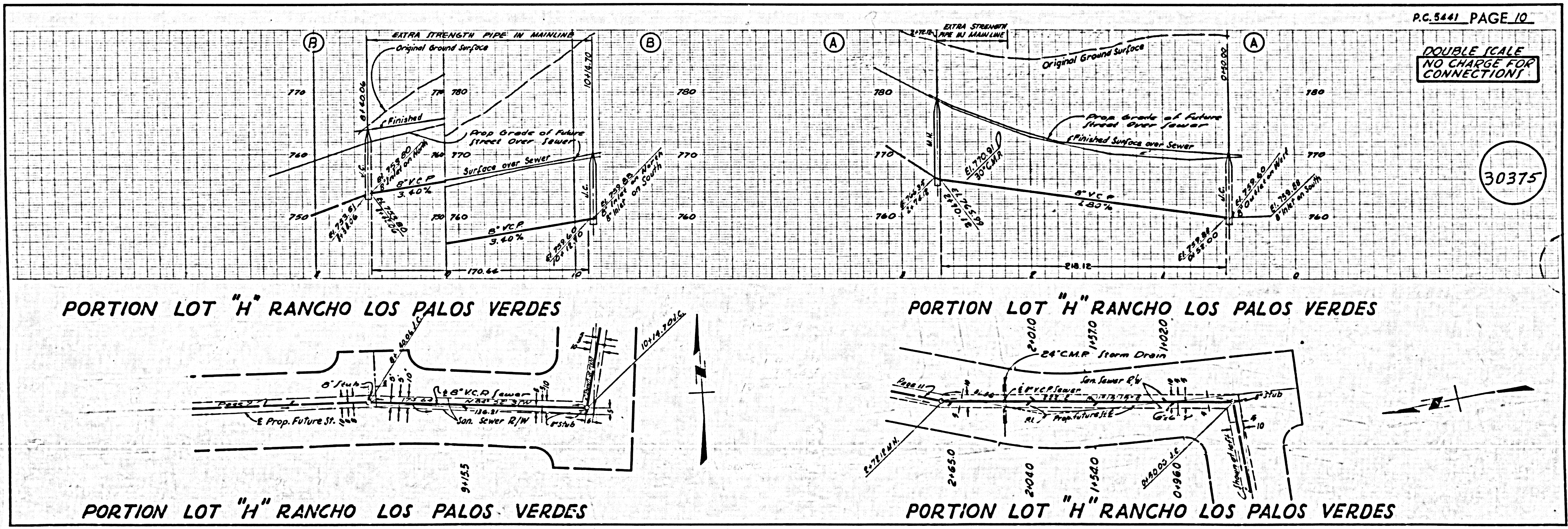


EXTRA STRENGTH PIPE IN MAIN LINE
Original Ground Surface
Finished Surface
Proposed
Grade of Street over Sewer
Finished Surface
Future Street over Sewer
Finished Surface over Sewer
Proposed Grade of Future Street ove Sewer
8" V.C.P. 5.04%
8" V.C.P. 10.08%
8" V.C.P. 10.08%
8" V.C.P. 8.84%
8" V.C.P. 8.84%
M.H.
J.C.
141.20
321.00
336.06
700
690
680
710
720
730
740
750
760
PORTION LOT "H" RANCHO LOS PALOS VERDES
8" Stub
8" V.C.P. Sewer
℄ Prop. Future St.
8"x6" Y's
Son. Sewer R/W
8"x6" Y's
8" Stub
Page 10
PORTION LOT "H" RANCHO LOS PALOS VERDES

P.C. 5441 PAGE 10

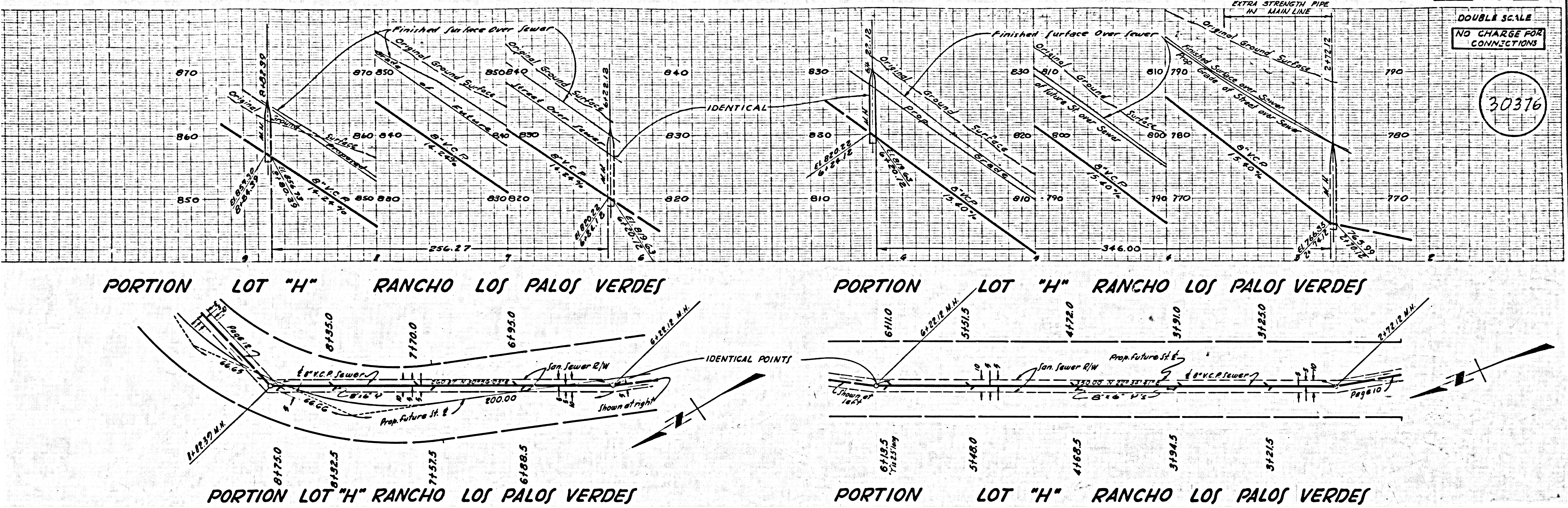
DOUBLE SCALE
NO CHARGE FOR
CONNECTIONS

30375

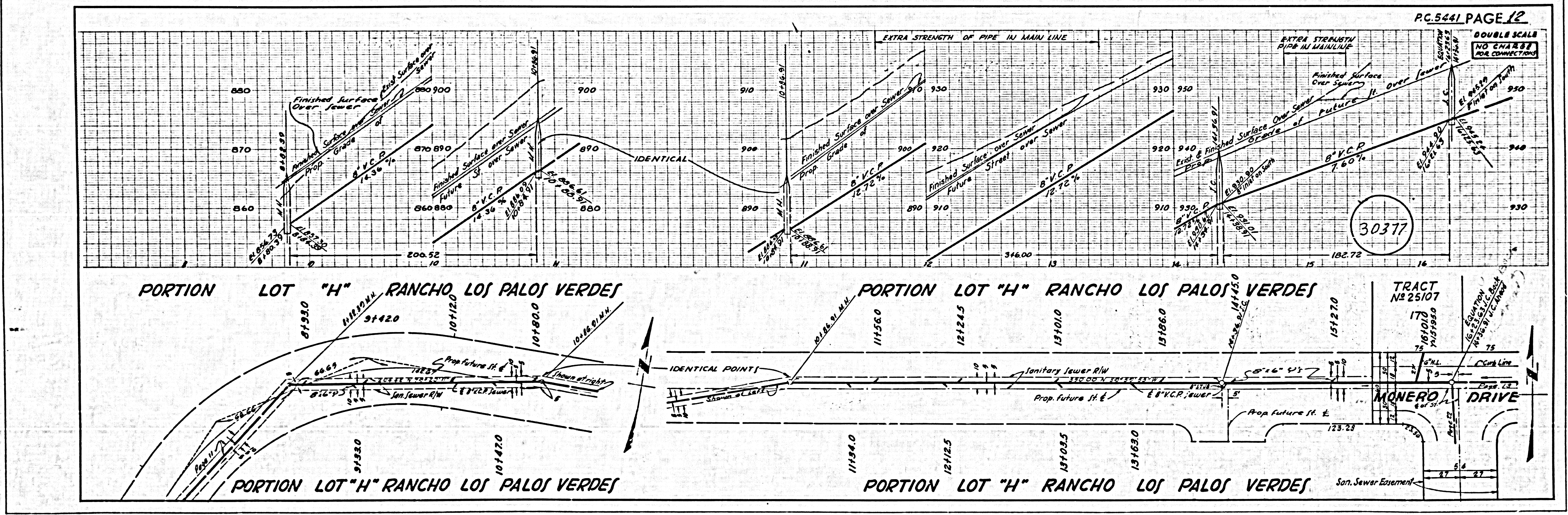


Ⓑ
EXTRA STRENGTH PIPE IN MAINLINE
Original Ground Surface
Finished
Prop Grade of Future Street Over Sewer
Surface over Sewer
8" V.C.P. 3.40%
8" V.C.P. 3.40%
170.66
J.C.
Ⓐ
EXTRA STRENGTH PIPE IN MAINLINE
Original Ground Surface
Prop Grade of Future Street Over Sewer
Finished Surface over Sewer
8" V.C.P. 4.80%
El. 770.91 30" C.M.P.
218.12
M.H.
J.C.
750
760
770
780
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES
8" Stub
8" V.C.P. Sewer
℄ Prop. Future St.
Son. Sewer R/W
8" Stub
Page 9
24" C.M.P. Storm Drain
Page 11
8" V.C.P. Sewer
Son. Sewer R/W
Prop. Future St.
8" Stub
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES

P.C.5441 PAGE 11


EXTRA STRENGTH PIPE IN MAIN LINE
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30376
Finished Surface Over Sewer
Original Ground Surface
Original Ground Surface
Grade of Future Street Over Sewer
IDENTICAL
Prop. Grade
8" V.C.P.
14.26%
16.24%
15.60%
15.40%
Finished Surface over Sewer
Prop. Grade of Street over Sewer
256.27
346.00
870
860
850
840
830
820
810
800
790
780
770
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES
IDENTICAL POINTS
San. Sewer R/W
Prop. Future St. ℄
℄ 8" V.C.P. Sewer
Shown at right
Shown at left
Page 10
Page 12
200.00
8+35.0
7+70.0
6+95.0
6+22.12 M.H.
8+89.30 M.H.
8+75.0
8+32.5
7+57.5
6+88.5
6+11.0
5+51.5
4+72.0
3+91.0
3+23.0
2+72.12 M.H.
6+19.5
5+48.0
4+68.5
3+94.5
3+21.5
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES

P.C.5441 PAGE 12

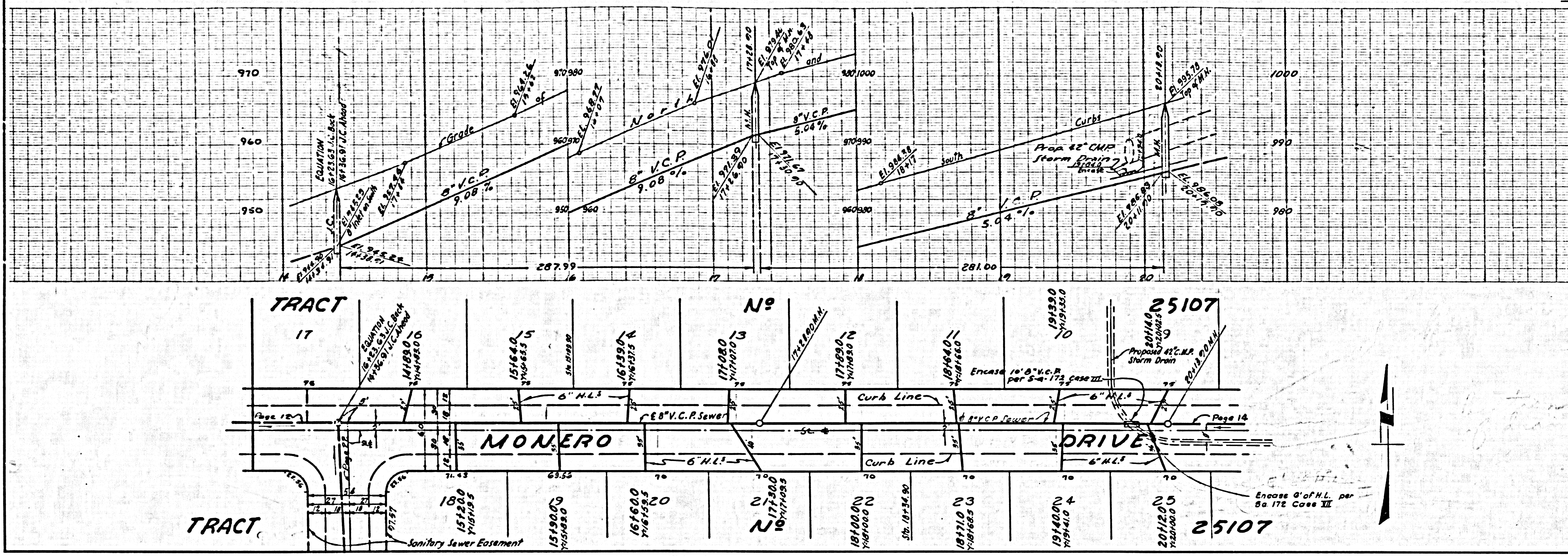

EXTRA STRENGTH OF PIPE IN MAIN LINE
EXTRA STRENGTH PIPE IN MAINLINE
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30377
Finished Surface Over Sewer
Exist. Surface over Sewer
Finished Surface over Sewer
Prop. Grade of
Future St. over Sewer
IDENTICAL
Finished Surface over Sewer
Future Street over Sewer
Exist. & Finished Surface Over Sewer
Grade of Future St. over Sewer
EQUATION
L.C.
El. 965.29 Finlet on South
8" V.C.P.
14.36%
12.72%
7.60%
200.52
346.00
182.72
880
870
860
900
890
910
930
920
950
940
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES
TRACT № 25107
IDENTICAL POINTS
Shown at right
Shown at left
Prop. future St. ℄
San. Sewer R/W
Sanitary Sewer R/W
℄ 8" V.C.P. Sewer
Prop. future St. ℄
Page 11
Page 13
MONERO DRIVE
Curb Line
San. Sewer Easement
8+93.0
8+89.30 M.H.
9+42.0
10+12.0
10+80.0
10+86.91 M.H.
9+33.0
10+42.0
10+86.91 M.H.
11+56.0
12+24.5
13+01.0
13+86.0
14+45.0
15+27.0
11+34.0
12+12.5
13+03.5
13+63.0
123.28
PORTION LOT "H" RANCHO LOS PALOS VERDES
PORTION LOT "H" RANCHO LOS PALOS VERDES

P.C. 5441 PAGE 13

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30378

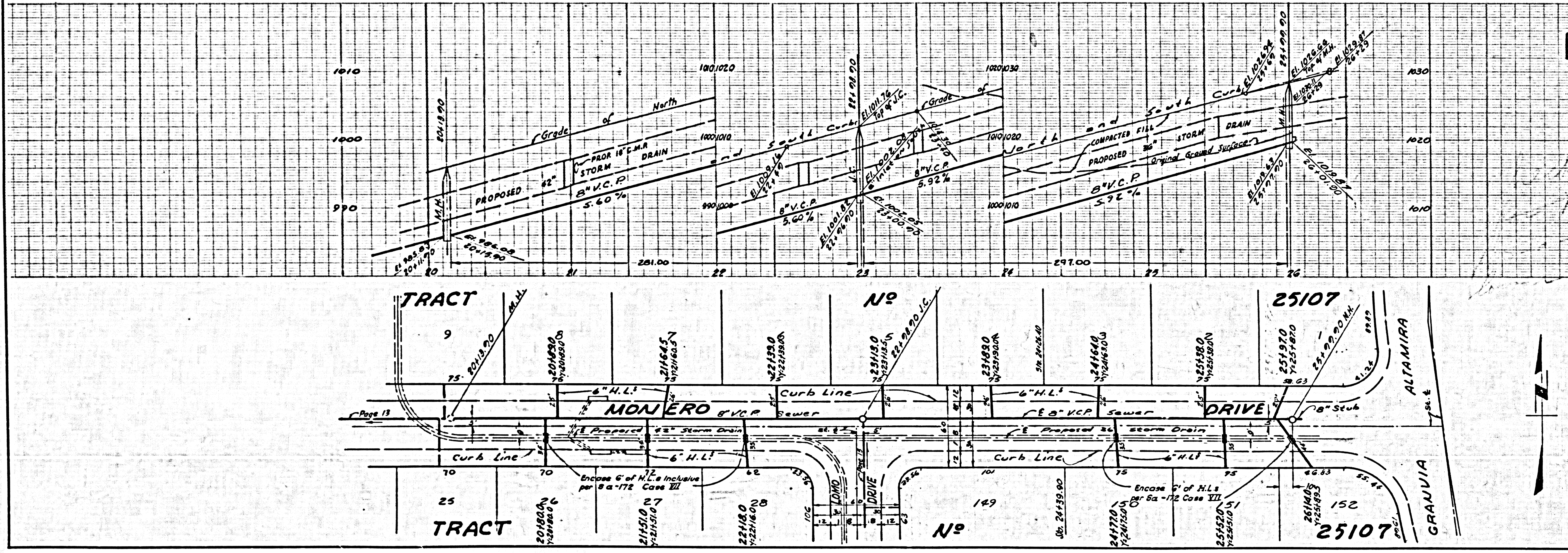

Grade of North
8" V.C.P. 9.08 %
8" V.C.P. 9.08 %
8" V.C.P. 5.06 %
South Curbs
Prop. 42" CMP Storm Drain
8" V.C.P. 5.04 %
M.H.
EQUATION
287.99
281.00
TRACT No 25107
MONERO DRIVE
Curb Line
6" H.L.s
E 8" V.C.P. Sewer
Encase 10' 8" V.C.P. per S-a-172 Case III
Proposed 42" C.M.P. Storm Drain
Encase 6' of H.L. per Sa 172 Case III
Sanitary Sewer Easement
Page 12
Page 14
17
15
14
13
12
11
10
9
18
20
21
22
23
24
25

P.C. 5441 PAGE 14

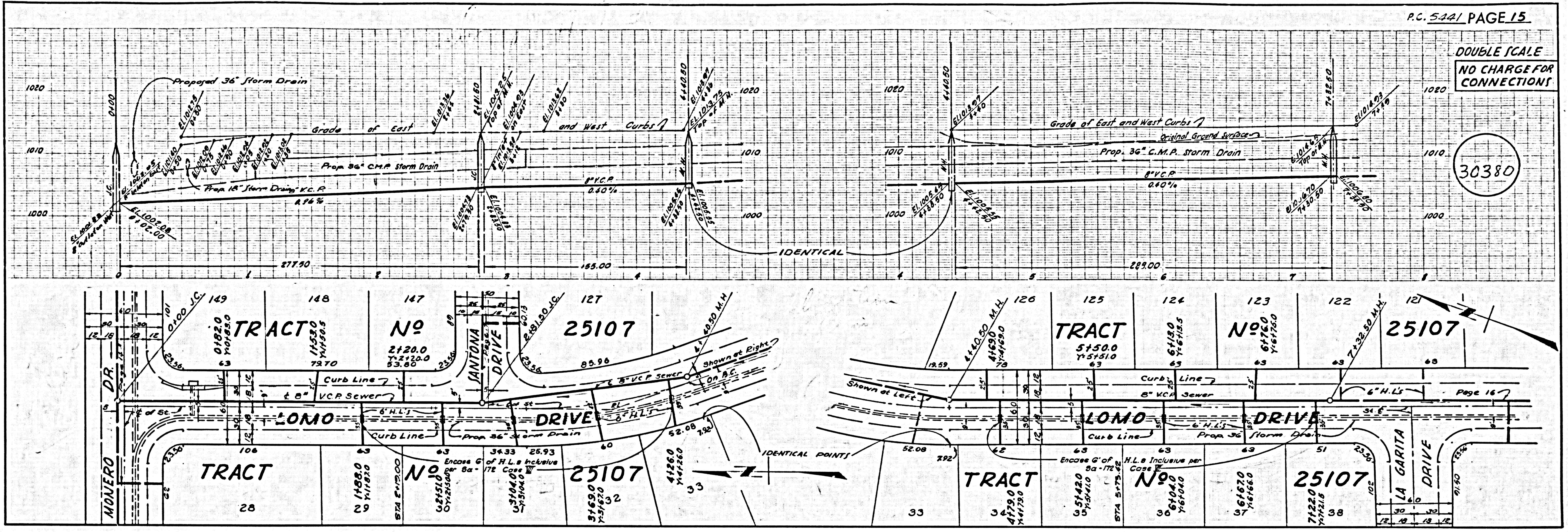
DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

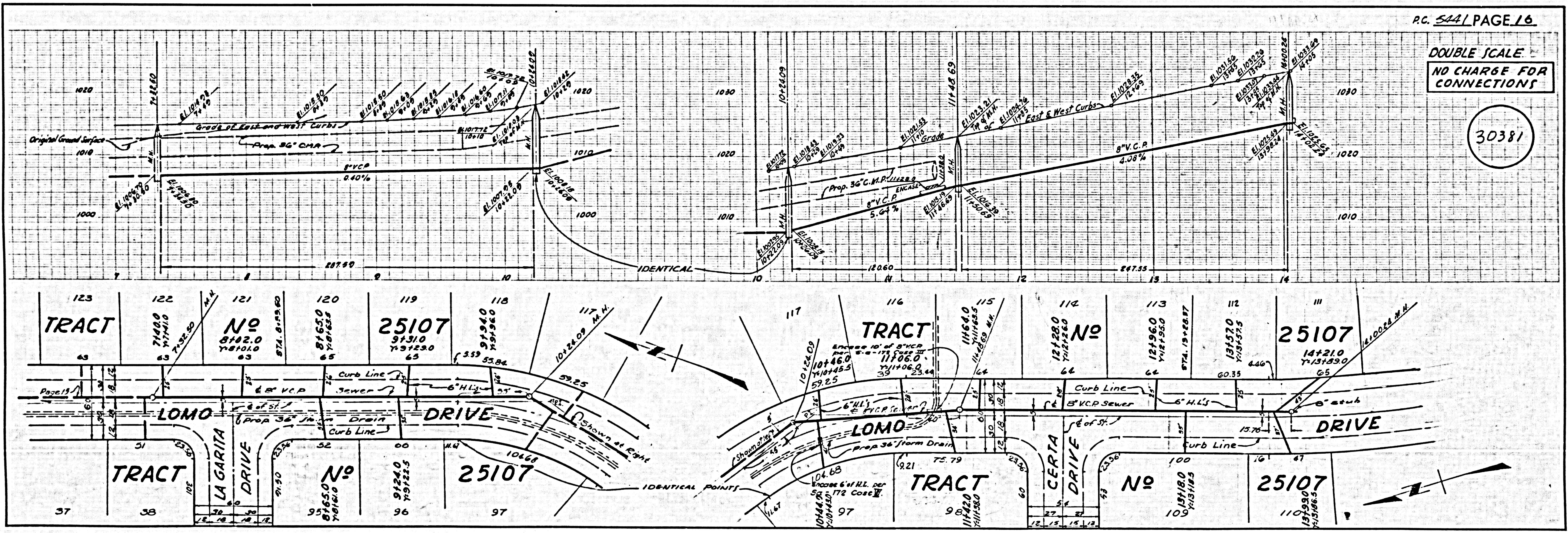
30379


Grade of North and South Curbs
PROPOSED 42" STORM DRAIN
PROP. 18" C.M.P. STORM DRAIN
8" V.C.P. 5.60 %
8" V.C.P. 5.60 %
8" V.C.P. 5.92 %
COMPACTED FILL
PROPOSED 36" STORM DRAIN
Original Ground Surface
8" V.C.P. 5.92 %
M.H.
281.00
297.00
TRACT No 25107
MONERO DRIVE
8" V.C.P. Sewer
Curb Line
6" H.L.s
Proposed 42" Storm Drain
Encase 6' of H.L.s inclusive per Sa-172 Case VII
Encase 6' of H.L.s per Sa-172 Case VII
8" Stub
ALTAMIRA
GRANVIA
LOMO DRIVE
Page 13
9
25
26
27
28
149
150
151
152

P.C. 5441 PAGE 15


DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30380
1020
1010
1000
Proposed 36" Storm Drain
Grade of East and West Curbs
Prop. 36" C.M.P. Storm Drain
Prop. 18" Storm Drain V.C.P.
8" V.C.P.
0.40%
0.96%
J.C.
M.H.
El. 1002.08 0+02.00
El. 1001.88 8" Outlet on West
El. 1012.75 0+30
El. 1013.36 2+44
El. 1013.25 Top of M.H.
El. 1004.03 on East
El. 1013.62 3+80
El. 1018.97 4+36
El. 1013.75 Top of M.H.
El. 1004.73 2+79.50
El. 1005.65 4+38.50
Original Ground Surface
El. 1013.07 4+40
El. 1014.03 7+49
El. 1014.65 Top of M.H.
El. 1005.45 4+38.50
El. 1005.55 4+42.50
El. 1006.70 7+30.50
El. 1006.80 7+34.50
IDENTICAL
277.50
155.00
289.00
0
1
2
3
4
5
6
7
8
0+00
2+81.50
4+40.50
7+32.50
TRACT No 25107
LOMO DRIVE
MONERO DR.
SANTONA DRIVE
LA GARITA DRIVE
0+00 J.C.
2+81.50 J.C.
4+40.50 M.H.
7+32.50 M.H.
Curb Line
8" V.C.P. Sewer
6" H.L.'s
Prop. 36" Storm Drain
Encase 6' of H.L.s Inclusive per 8a-172 Case VI
Shown at Right
Shown at Left
On B.C.
IDENTICAL POINTS
Page 16
149
148
147
127
126
125
124
123
122
121
106
28
29
33
34
35
36
37
38
63
60
52.08
85.96
23.56
Z

P.C. 5441 PAGE 16


DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30381
1030
1020
1010
1000
Original Ground Surface
Grade of East and West Curbs
Prop. 36" CMP
8" V.C.P.
0.40%
Prop. 36" C.M.P.
ENCASE
5.64%
4.08%
Grade
East & West Curbs
Top of M.H.
M.H.
El. 1023.21 Top of M.H.
El. 1015.19 11+46.69
El. 1016.39 11+50.69
El. 1025.49 13+98.24
El. 1025.65 14+02.24
El. 1033.69 14+05
El. 1002.95 10+22.09
El. 1003.15 10+26.09
IDENTICAL
287.50
120.60
247.55
7
8
9
10
11
12
13
14
7+32.50
10+24.09
11+48.69
14+00.24
TRACT No 25107
LOMO DRIVE
LA GARITA DRIVE
CERTA DRIVE
Page 15
Curb Line
8" V.C.P. Sewer
6" H.L.'s
Prop. 36" Storm Drain
Shown at Right
Shown at Left
IDENTICAL POINTS
Encase 10' of 8" V.C.P.
Encase 6' of H.L. per 8a-172 Case VI
6" stub
123
122
121
120
119
118
117
116
115
114
113
112
111
37
38
95
96
97
98
100
109
110
Z

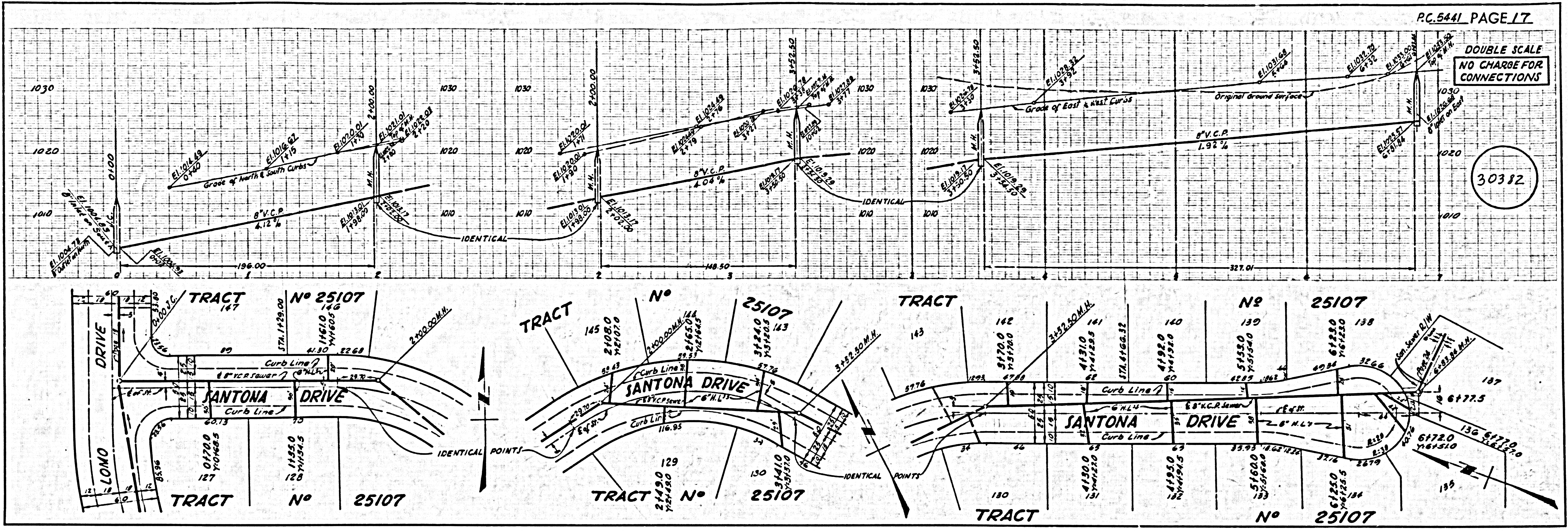
B. & S. 800 CO. CAL.

P.C.5441 PAGE 17

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30382



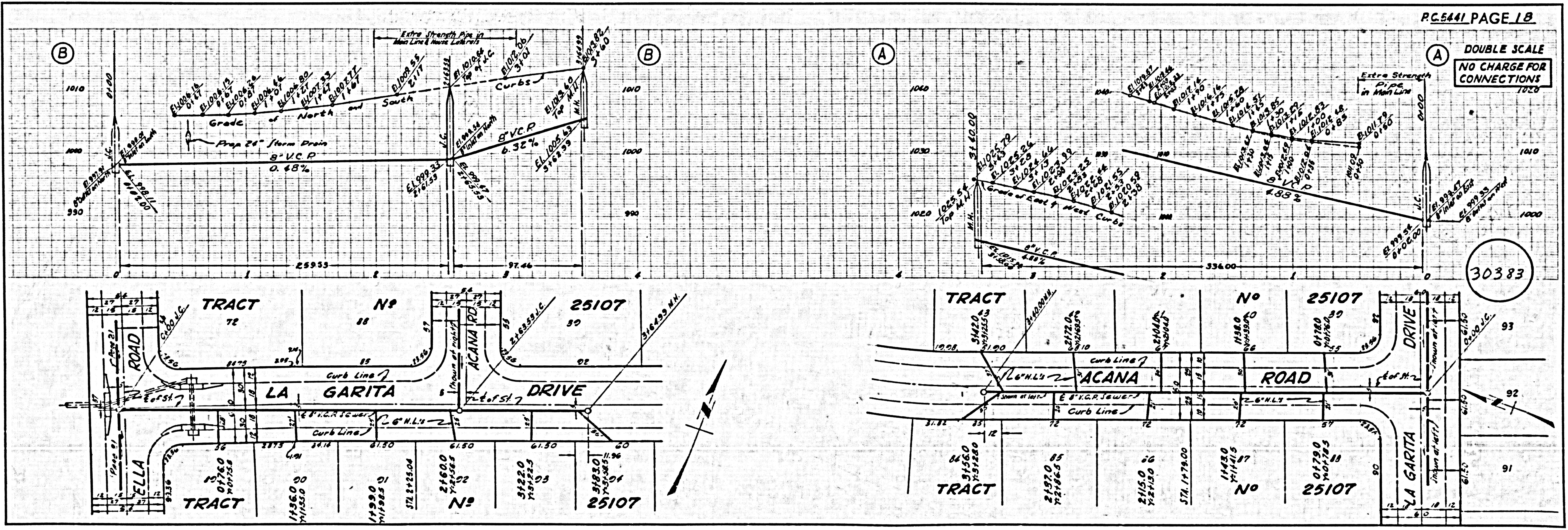
1030
1020
1010
Grade of North & South Curbs
8" V.C.P.
6.12%
8" V.C.P.
4.04%
8" V.C.P.
1.92%
Grade of East & West Curbs
Original Ground Surface
IDENTICAL
M.H.
196.00
148.50
327.01
TRACT No 25107
SANTONA DRIVE
LONO DRIVE
Curb Line
8" V.C.P. Sewer
6" H.L.'s
℄ of St.
IDENTICAL POINTS
2+00.00 M.H.
3+52.50 M.H.
6+77.5
6+72.0

P.C.5441 PAGE 18

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30383



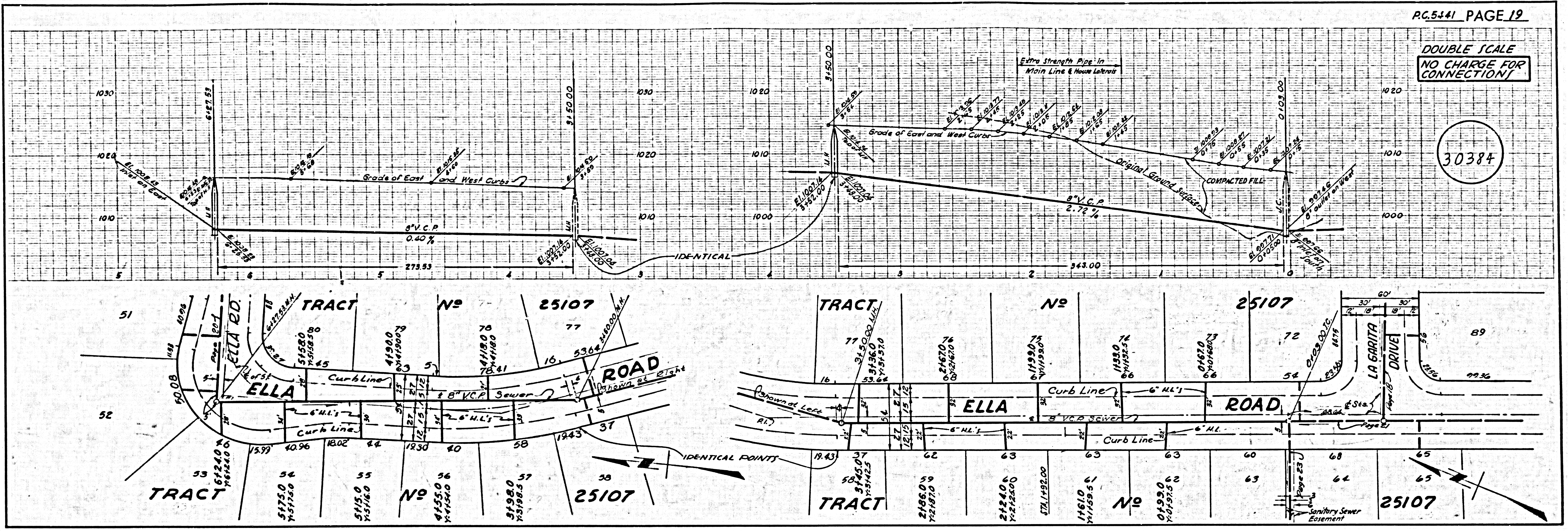
Ⓑ
Ⓐ
1010
1000
990
1040
1030
1020
Extra Strength Pipe in Main Line & House Laterals
Grade of North and South Curbs
Prop. 24" Storm Drain
8" V.C.P.
0.48%
8" V.C.P.
6.32%
Grade of East & West Curbs
8" V.C.P.
4.85%
Extra Strength Pipe in Main Line
J.C.
M.H.
259.33
97.46
334.00
TRACT No 25107
LA GARITA DRIVE
ELLA ROAD
ACANA ROAD
Curb Line
8" V.C.P. Sewer
6" H.L.'s
℄ of St.

P.C. 5441 PAGE 19

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30384

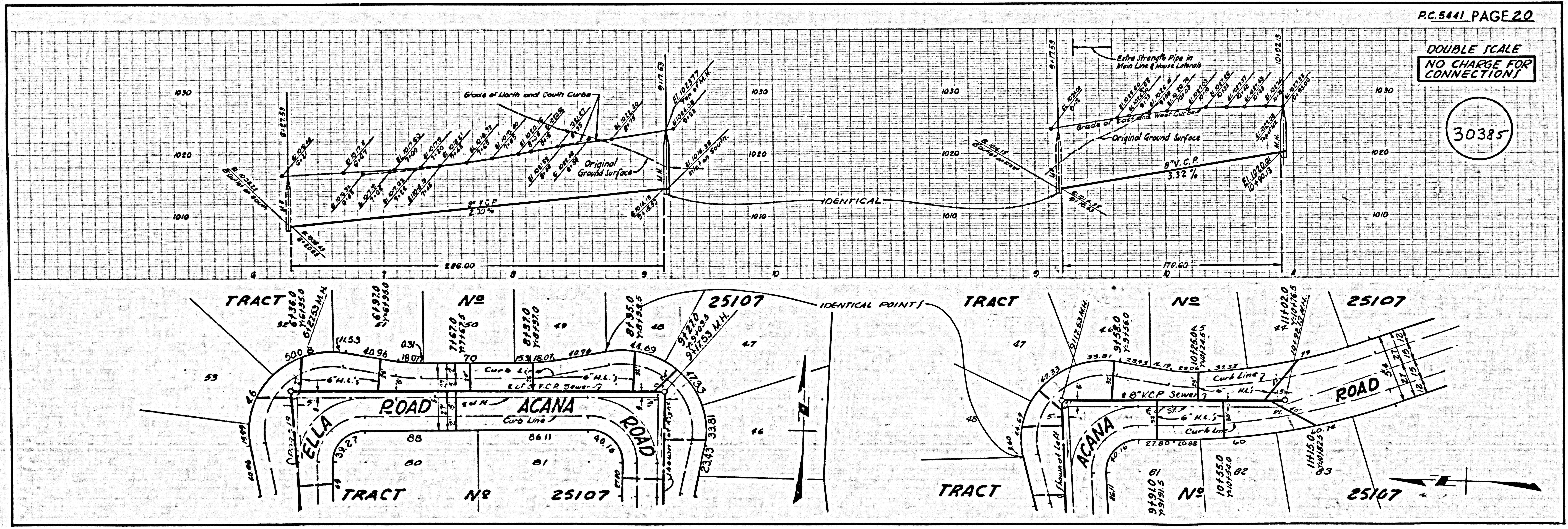

Extra Strength Pipe in Main Line & House Laterals
Grade of East and West Curbs
8" V.C.P.
0.40%
273.53
IDENTICAL
8" V.C.P.
2.72%
Original Ground Surface
COMPACTED FILL
363.00
TRACT Nº 25107
ELLA RD.
ELLA ROAD
Curb Line
6" H.L.'s
8" V.C.P. Sewer
IDENTICAL POINTS
LA GARITA DRIVE
Sanitary Sewer Easement
TRACT Nº 25107

P.C. 5441 PAGE 20

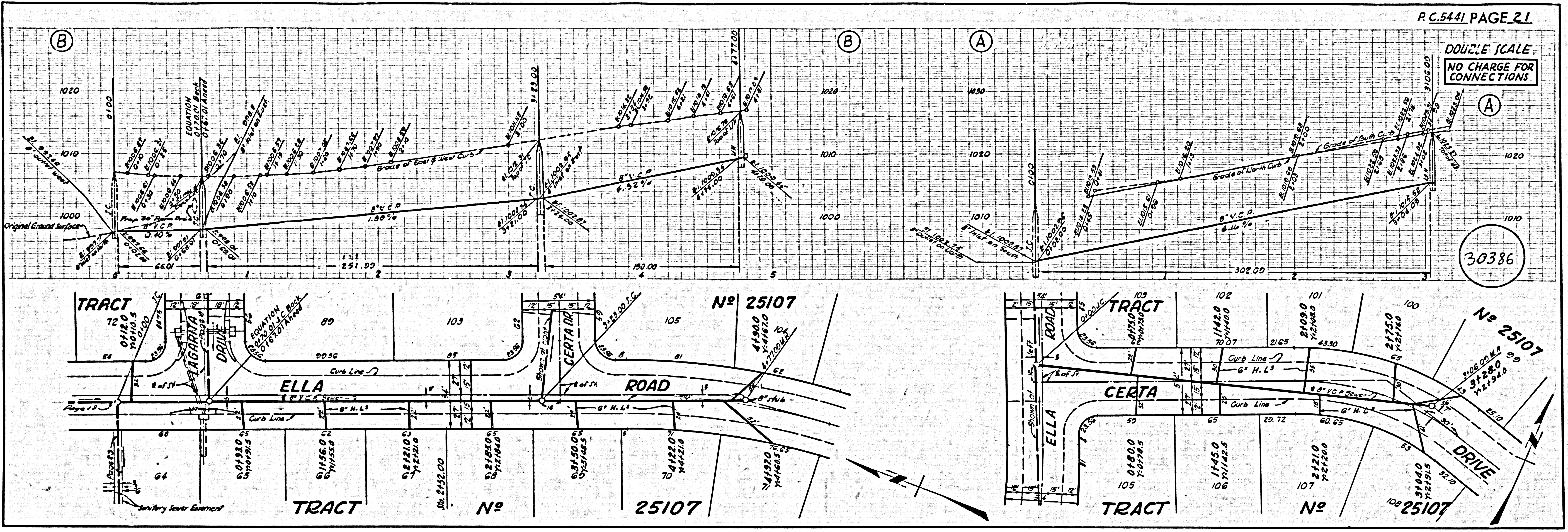
DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30385

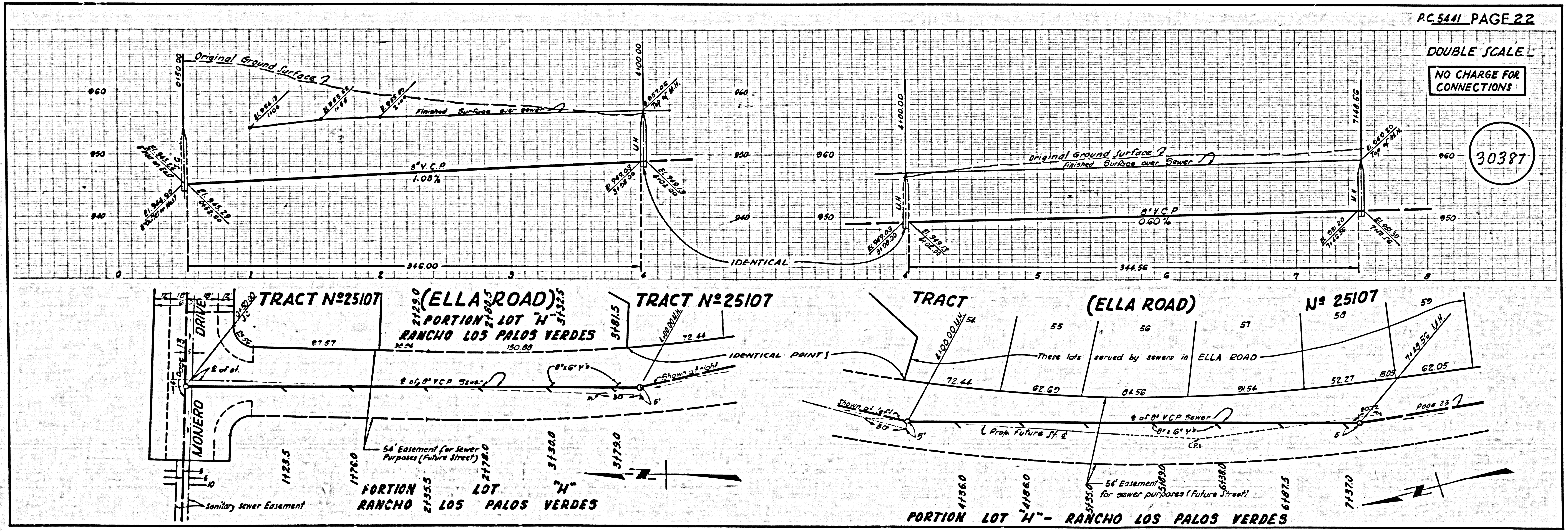

Grade of North and South Curbs
Original Ground Surface
8" V.C.P.
2.70%
286.00
IDENTICAL
Extra Strength Pipe in Main Line & House Laterals
Grade of East and West Curbs
Original Ground Surface
8" V.C.P.
3.32%
170.60
TRACT Nº 25107
IDENTICAL POINTS
ELLA ROAD
ACANA ROAD
Curb Line
6" H.L.'s
8" V.C.P. Sewer
TRACT Nº 25107
ACANA
ROAD

P.C. 5441 PAGE 21



DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30386
Ⓐ
Ⓑ
Original Ground Surface
Grade of East & West Curb
Grade of North Curb
Grade of South Curb
EQUATION
8" V.C.P. 1.88%
8" V.C.P. 6.52%
8" V.C.P. 0.40%
8" V.C.P. 6.16%
Prop. 36" Storm Drain
251.99
150.00
302.00
66.01
TRACT
Nº 25107
TRACT Nº 25107
ELLA ROAD
LAGARITA DRIVE
CERTA DRIVE
ELLA ROAD
Curb Line
6" H.L's
8" V.C.P. Sewer
Sanitary Sewer Easement
Page 23

P.C. 5441 PAGE 22



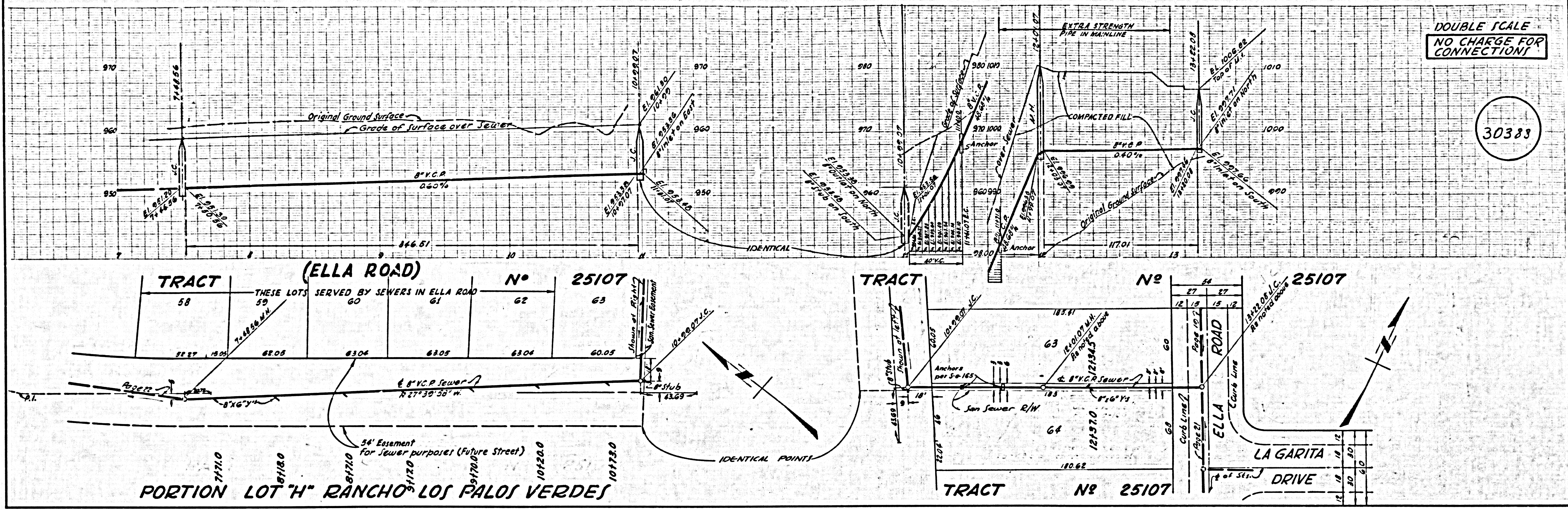
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
30387
Original Ground Surface
Finished Surface over Sewer
8" V.C.P. 1.08%
8" V.C.P. 0.60%
346.00
344.56
IDENTICAL
TRACT Nº 25107
(ELLA ROAD)
PORTION LOT "H"
RANCHO LOS PALOS VERDES
TRACT Nº 25107
IDENTICAL POINTS
MONERO DRIVE
℄ of 8" V.C.P. Sewer
8"x6" Y's
54' Easement for Sewer Purposes (Future Street)
Sanitary Sewer Easement
PORTION LOT "H" RANCHO LOS PALOS VERDES
TRACT (ELLA ROAD) Nº 25107
These lots served by sewers in ELLA ROAD
Prop. Future St. ℄
54' Easement for sewer purposes (Future Street)
PORTION LOT "H" - RANCHO LOS PALOS VERDES
Page 23

P.C. 5441 PAGE 23

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30383

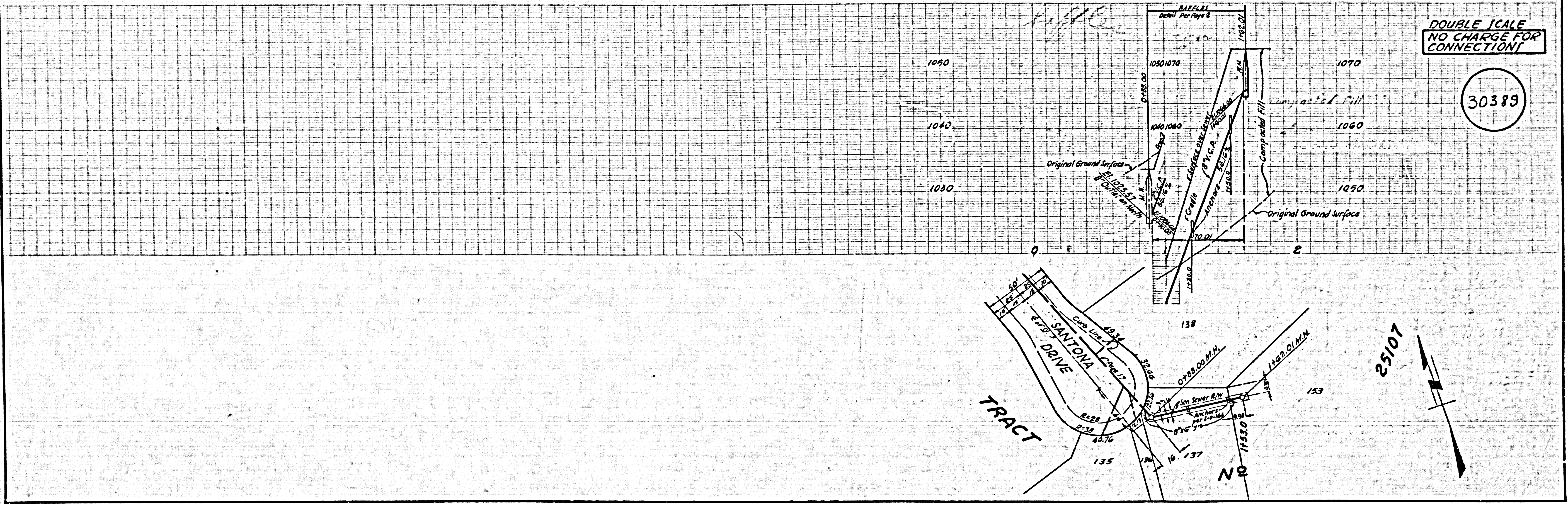

Original Ground Surface
Grade of Surface over Sewer
8" V.C.P.
0.60%
J.C.
846.51
IDENTICAL
EXTRA STRENGTH PIPE IN MAINLINE
COMPACTED FILL
8" V.C.P.
0.40%
Original Ground Surface
Anchor
40' V.C.
98.00
117.01
(ELLA ROAD)
TRACT
Nº
25107
THESE LOTS SERVED BY SEWERS IN ELLA ROAD
58
59
60
61
62
63
7+48.56 M.H.
10+99.07 J.C.
℄ 8" V.C.P. Sewer
N 27°39'58" W.
8"x6" Y's
Shown at Right
San. Sewer Easement
8" Stub
54' Easement for Sewer purposes (Future Street)
IDENTICAL POINTS
PORTION LOT "H" RANCHO LOS PALOS VERDES
TRACT
Nº
25107
Shown at left
Anchors per S-a-165
San Sewer R/W
12+01.07 M.H. As noted above
13+22.08 J.C. As noted above
℄ 8" V.C.P. Sewer
8"x6" Y's
63
64
183.41
180.62
Curb Line
Page 21
Page 19
ELLA ROAD
LA GARITA DRIVE
℄ of Sts.
TRACT
Nº
25107

P.C. 5441 PAGE 24

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

30389


1050
1040
1030
1070
1060
1050
Original Ground Surface
Compacted Fill
Cradle
Anchors
70.01
0
2
Original Ground Surface
SANTONA DRIVE
℄ of St.
Curb Line
Page 17
R=28
R=38
49.34
32.66
40.76
0+88.00 M.H.
1+62.01 M.H.
San. Sewer R/W
Anchors per S-a-165
8"x6" Y's
1+53.0
138
135
136
137
153
TRACT
Nº
25107