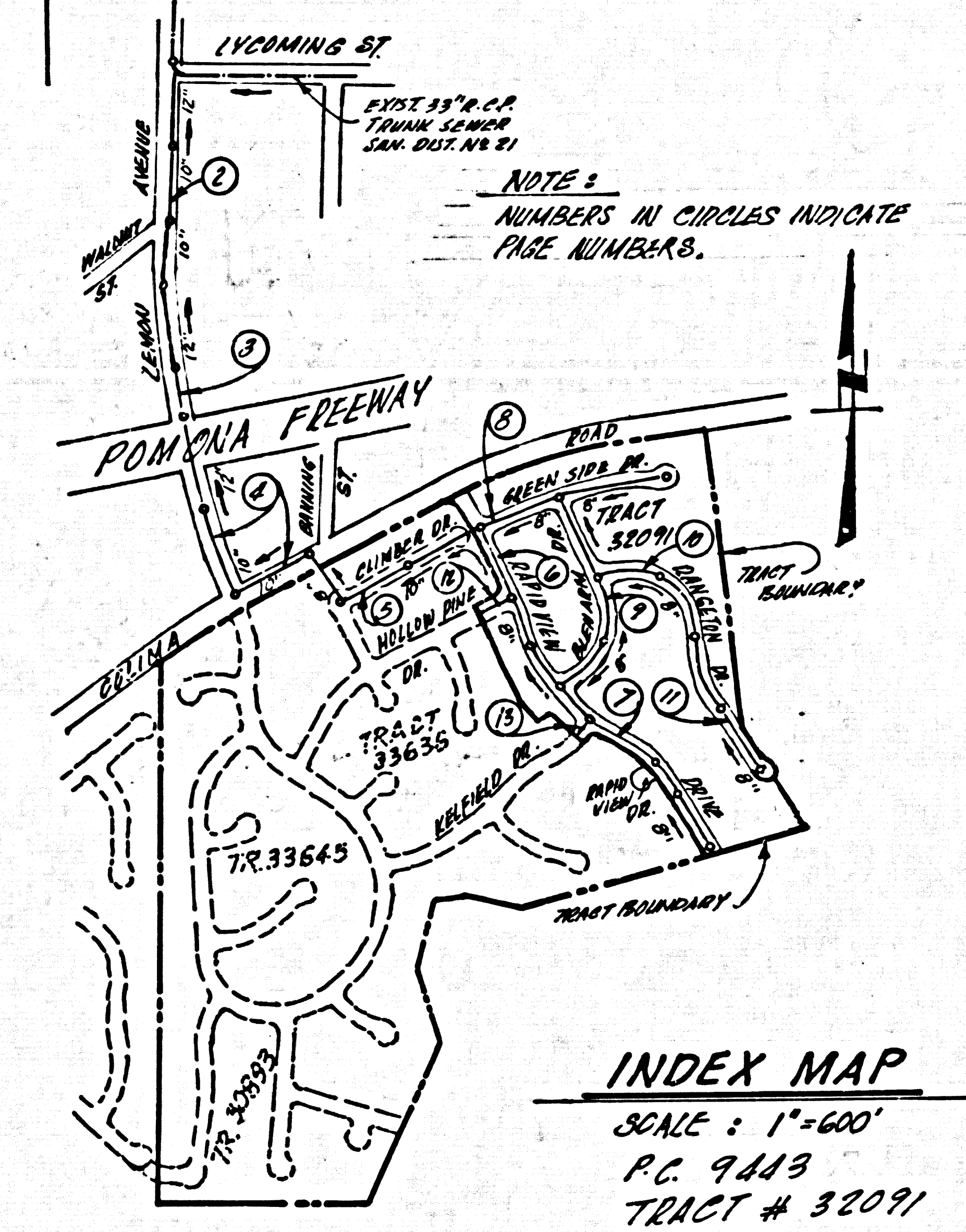
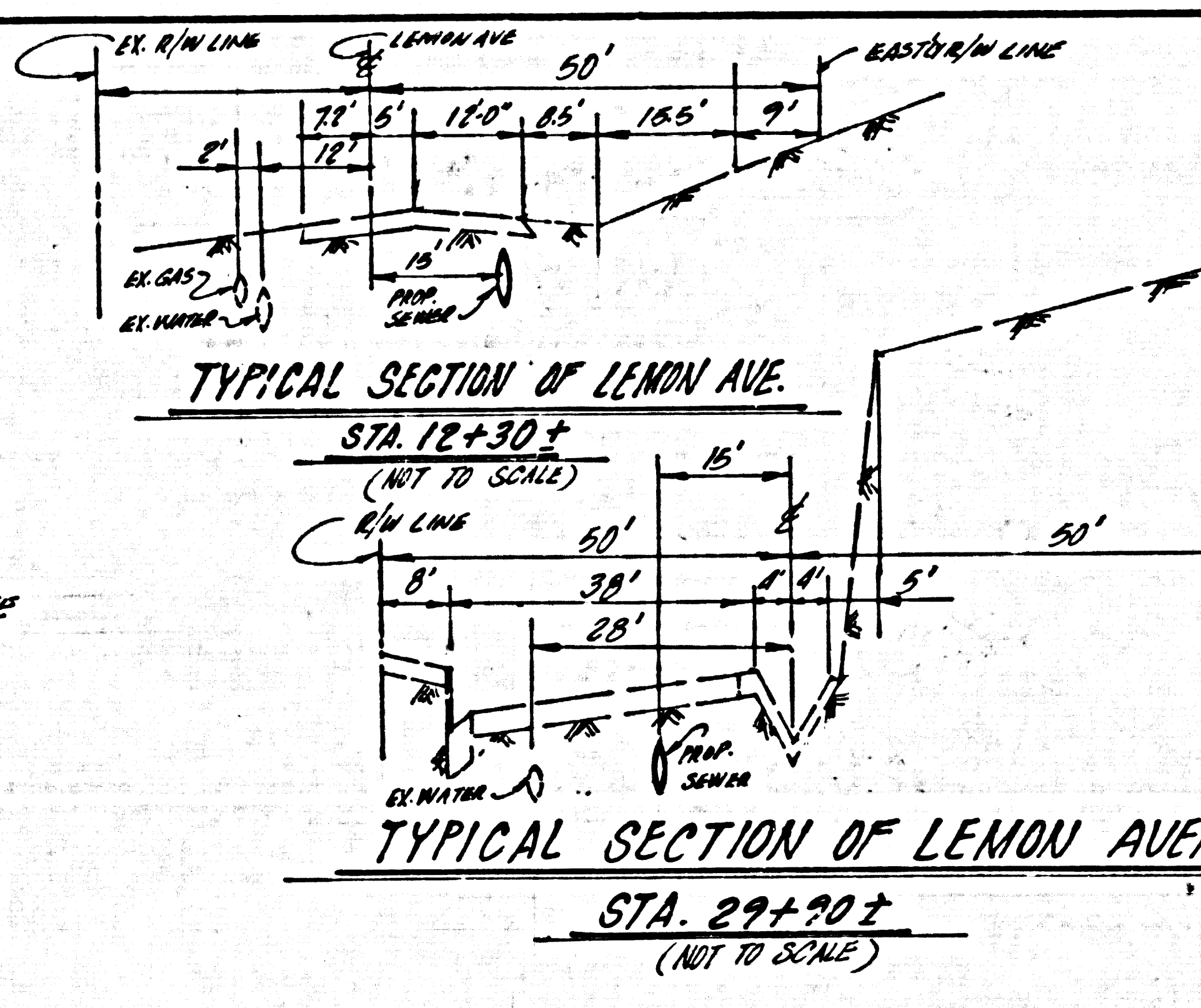
B.M. CG 3865 ELEV. 568.791
L+LS TAG № 3054 IN C.B. 1FT. W
FUTURE BCR, 42' N & 54' E ℄ INT.
COLIMA ROAD & ARKLEY
OTTERBEIN QUAD. 1975


LYCOMING ST.
EXIST. 33" R.C.P. TRUNK SEWER SAN. DIST. № 21
LEMON AVENUE
WALNUT DR.
POMONA FREEWAY
COLIMA
TRACT 32091
TRACT 33636
TR. 33645
TR. 30693
TRACT BOUNDARY

NOTE: NUMBERS IN CIRCLES INDICATE PAGE NUMBERS.

INDEX MAP
SCALE: 1"=600'
P.C. 9443
TRACT # 32091


EX. R/W LINE
LEMON AVE
EAST R/W LINE
50'
EX. GAS
EX. WATER
PROP. SEWER
R/W LINE
50'
38'
28'
EX. WATER
PROP. SEWER

TYPICAL SECTION OF LEMON AVE.
STA. 12+30±
(NOT TO SCALE)

TYPICAL SECTION OF LEMON AVENUE
STA. 29+90±
(NOT TO SCALE)

CONSTRUCTION NOTES: (CONT'D.)

16. BACKFILL OF THE SEWER WITHIN THE LIMITS OF THE STATE HIGHWAY R/W LINES EXTENDED SHOULD BE S.E. 20 MATERIAL, WHICH SHALL BE COMPACTED TO A MIN. RELATIVE DENSITY OF 95% MIN.
17. A COPY OF THE STATE D.I.S. EXC. PERMIT SHALL BE PRESENTED TO CALTRANS INSPECTOR BEFORE EXCAVATIONS ARE STARTED.
18. TRAFFIC CONTROL SHALL BE SUBJECTED TO THE L.A. COUNTY ROAD DEPARTMENT'S REQUIREMENTS.
19. ALL EXCAVATION MUST BE EITHER BACKFILLED OR STEEL PLATED DURING NON-WORKING HRS.
20. THE EXIST. A.C. DRAINAGE DITCH SHALL BE MAINTAINED DURING CONST. OF THE SEWER.

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTE WATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION.

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE 962-8605, SO THAT REQUIRED INSPECTION CAN BE MADE.

DOUBLE SCALE

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. 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.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. 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.
7. 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. 1, AND PAY A FEE TO THE COUNTY ENGINEER, 801 E. BONITA AVE. SAN DIMAS REGIONAL OFFICE, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. 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, LOS ANGELES, CALIFORNIA.
9. 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.
10. REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.
11. PRIOR TO ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT BY THE COUNTRY ENGINEER, THE CONTRACTOR SHALL OBTAIN A PERMIT TO EXCAVATE FROM THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1976 EDITION AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEPTEMBER 24, 1976 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE DESIGN DIVISION BY TELEPHONE, (213) 974-7283, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-36, EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D", "F", OR "G" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
14. FULL COMPLIANCE WITH SECTION 306-1.3.5 OF THE SPECIAL PROVISIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED, REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
15. SPECIAL BACKFILL IN DESIGNATED AREAS.
    (A). BACKFILL TRENCH AND REPLACE OTHER EARTH REMOVED SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS PARCEL MAP BY THE BUILDING AND SAFETY DIVISION.
    (B). ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. STANDARD METHOD OF TESTING D698-57 T AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE DESIGN DIVISION.

PROFILE, ALIGNMENT AND GRADE OF
SANITARY SEWERS
CONSTRUCTED IN
TRACT NO. 32091
PRIVATE CONTRACT NO. 9443

PAGE 1

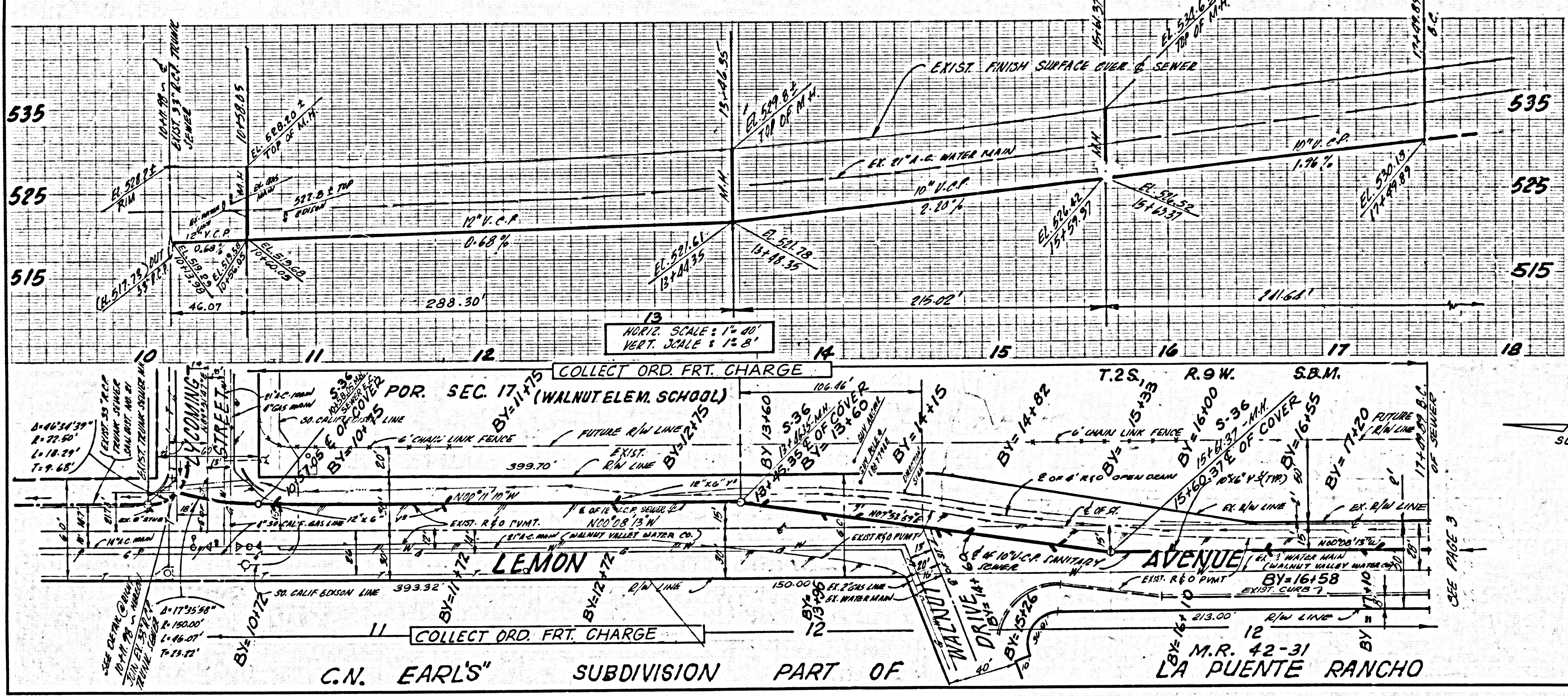
W.S. 39-B3
7 SHEETS; 13 PAGES
47017
SCALE: VERT. 1"—8' HORIZ. 1"—40'
NOVEMBER, 1977
PREPARED IN THE OFFICES OF
TOUPS CORPORATION
1010 N. MAIN ST. SANTA ANA, CALIF 91711, (714) 835-4447
BY: James W. Stinney
REG. C. E. No. 13207

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
ALLOWABLE TRENCH WIDTHS	S-33
LOCKING MANHOLE FRAME AND COVER	S-35
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-36

COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE COUNTY ENGINEER
JOHN D. PARKHURST, CHIEF ENGINEER
CO. SAN DIST. NO. 21
APPROVED B. F. Norling
SAN DIMAS REGIONAL ENGINEER
APPROVED Frank R. Davis 4/4/78
OFFICE ENGINEER
CHECKED Thomas E. Haywood 21 Mar 78 (DATE)
REG. C.E. NO. 19156
LA PUENTE BLDG. DIST. 20
J. N. 3050-02

P.C. 9443 PAGE 2


535
525
515
EXIST. FINISH SURFACE OVER ℄ SEWER
EX. 21" A-C WATER MAIN
12" V.C.P.
0.68%
10" V.C.P.
2.20%
10" V.C.P.
1.76%
EL. 529.83 TOP OF M.H.
EL. 534.64 TOP OF M.H.
M.H.
288.30'
215.02'
211.68'
46.07
13
14
15
16
17
18
10
11
12
LYCOMING STREET
POR. SEC. 17 (WALNUT ELEM. SCHOOL)
T.2S. R.9W. S.B.M.
FUTURE R/W LINE
EXIST. R/W LINE
6' CHAIN LINK FENCE
EXIST. R&O PVMT.
6" A.C. MAIN (WALNUT VALLEY WATER CO.)
SO. CALIF. EDISON LINE
8" OF 10" V.C.P. SANITARY SEWER
EX. 21" WATER MAIN (WALNUT VALLEY WATER CO.)
EXIST. CURB
R/W LINE
LEMON
AVENUE
WALNUT DRIVE
399.70'
393.32'
150.00'
213.00'
SEE PAGE 3
SEE DETAIL @ RIGHT
C.N. EARL'S" SUBDIVISION PART OF LA PUENTE RANCHO
M.R. 42-31

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

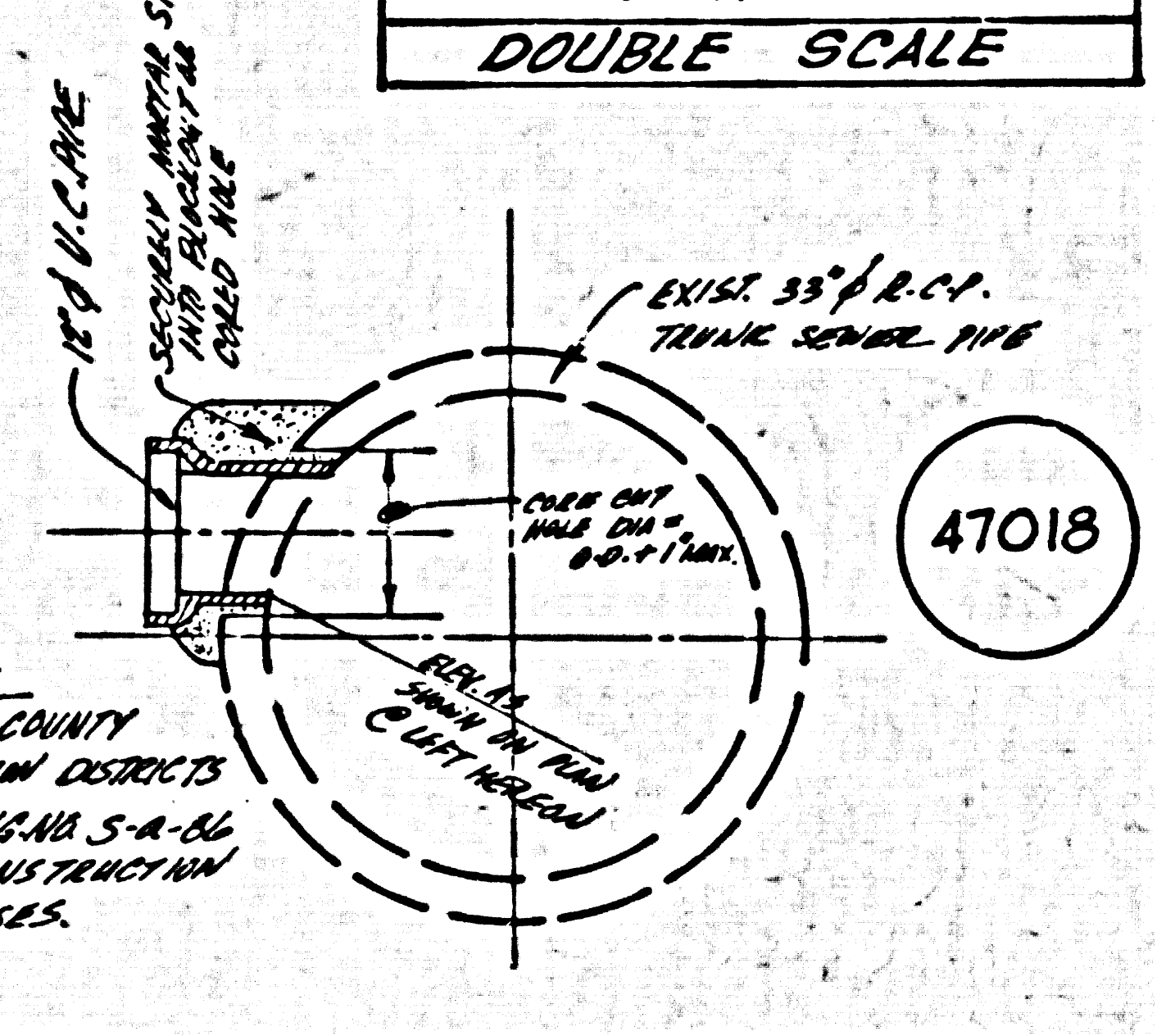
COLLECT ORD. FRT. CHARGE

COLLECT ORD. FRT. CHARGE

SCALE: 1"=40'

COLLECT CHARGES AS INDICATED
DOUBLE SCALE

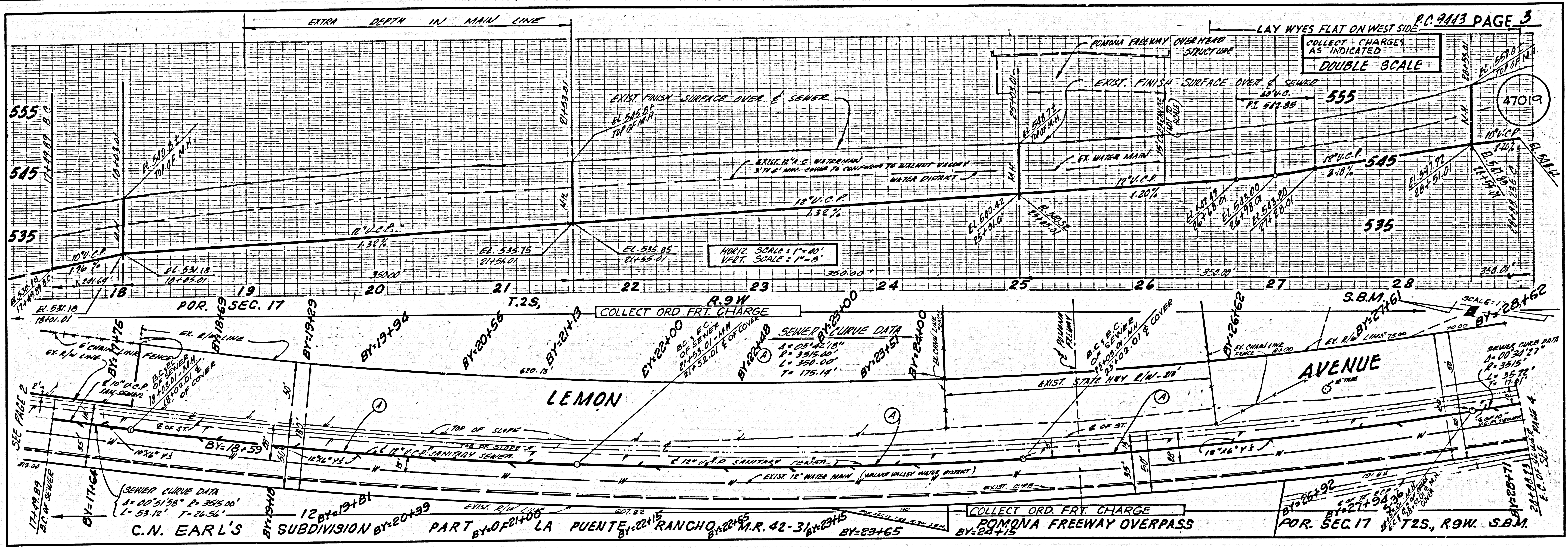
47018

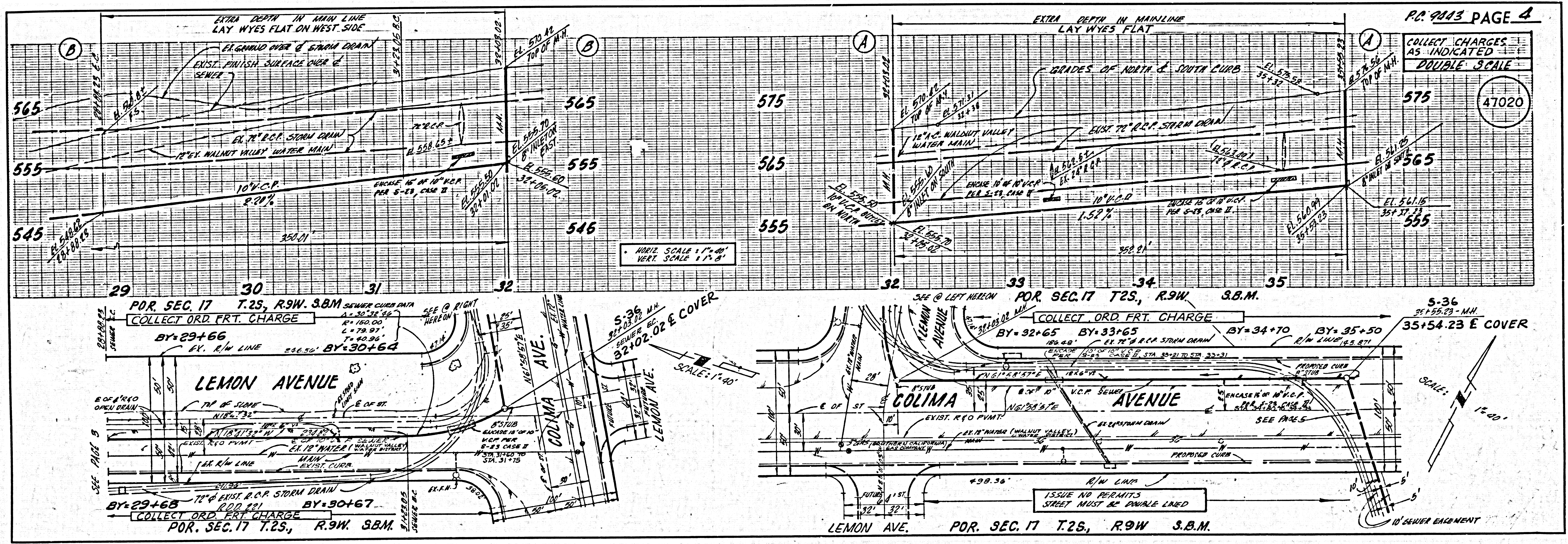

12" ⌀ V.C. PIPE
SECURELY MORTAR STUB INTO BLOCKOUT AS CORED HOLE
EXIST. 33" ⌀ R.C.P. TRUNK SEWER PIPE
CORE CUT HOLE DIA. = O.D. + 1" MAX.
ELEV. AS SHOWN ON PLAN @ LEFT HEREON

NOTE: REFER COUNTY SANITATION DISTRICTS STD. DWG. NO. S-A-86 FOR CONSTRUCTION PURPOSES.

DETAIL OF 12" V.C.P. CONNECTION TO EXIST. 33" DIA. R.C.P. TRUNK SEWER
(NOT TO SCALE)

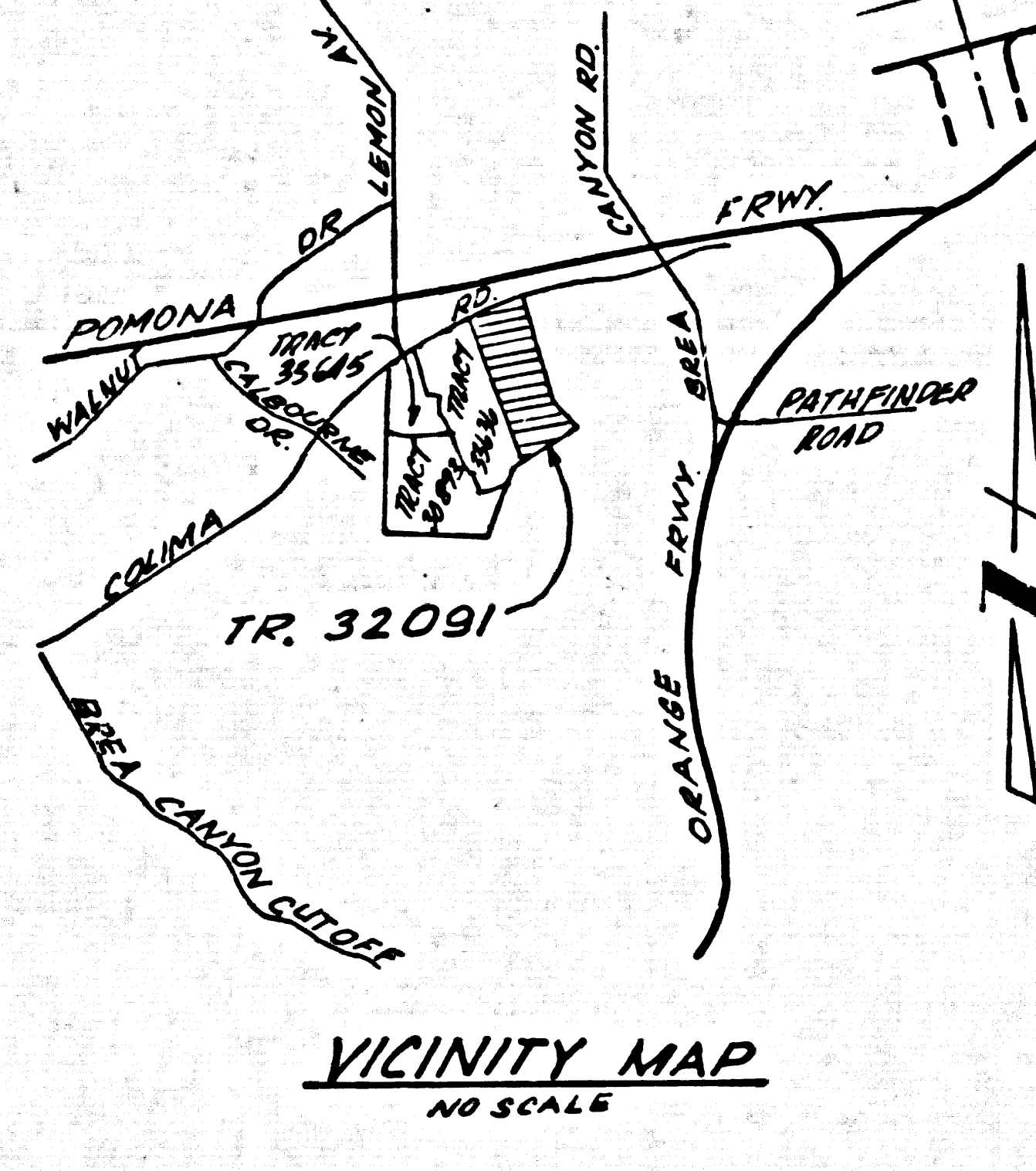
L.A. COUNTY SEWER SHEET NO. 1 SOUTHERN CALIFORNIA BLUEPRINT CO. 7-73


P.C. 9443 PAGE 3
LAY WYES FLAT ON WEST SIDE
EXTRA DEPTH IN MAIN LINE
COLLECT CHARGES AS INDICATED
DOUBLE SCALE
47019
POMONA FREEWAY OVERHEAD STRUCTURE
EXIST. FINISH SURFACE OVER ℄ SEWER
EXIST. 12" A.C. WATERMAIN 3' TO 6' MIN. COVER TO CONFORM TO WALNUT VALLEY WATER DISTRICT
EX. WATER MAIN
12" V.C.P.
10" V.C.P.
1.32%
1.76%
1.20%
2.18%
2.20%
P.I. 563.85
EL. 531.18 18+05.01
EL. 535.75 21+54.01
EL. 535.85 21+55.01
EL. 540.42 25+01.01
EL. 547.72 28+51.01
EL. 547.89 28+55.01
EL. 557.01 TOP OF M.H.
EL. 548.62
HORIZ. SCALE 1" = 40'
VERT. SCALE 1" = 8'
350.00'
555
545
535
18
19
20
21
22
23
24
25
26
27
28
POR. SEC. 17 T.2S. R.9W.
COLLECT ORD. FRT. CHARGE
S.B.M.
LEMON AVENUE
SEWER CURVE DATA Δ = 05°42'18" R = 3515.00' L = 350.00' T = 175.14'
SEWER CURVE DATA Δ = 00°51'38" R = 3515.00' L = 53.12' T = 26.56'
SEWER CURVE DATA Δ = 00°32'27" R = 3515' L = 33.72' T = 17.01'
BY = 17+64
BY = 17+76
BY = 18+59
BY = 18+69
BY = 19+16
BY = 19+29
BY = 19+81
BY = 19+94
BY = 20+39
BY = 20+56
BY = 21+13
BY = 22+15
BY = 22+48
BY = 22+65
BY = 23+15
BY = 23+51
BY = 23+65
BY = 24+00
BY = 24+15
BY = 26+62
BY = 26+92
BY = 27+61
BY = 27+94
BY = 28+62
BY = 28+71
EX. R/W LINE
EX. CHAIN LINK FENCE
EXIST. STATE HWY R/W - 210'
℄ 12" V.C.P. SANITARY SEWER
EXIST. 12" WATER MAIN (WALNUT VALLEY WATER DISTRICT)
TOP OF SLOPE
℄ OF ST.
10"x6" Y's
12"x6" Y's
EXIST. R/W LINE
SEE PAGE 2
SEE PAGE 4
C.N. EARL'S SUBDIVISION PART OF LA PUENTE RANCHO M.R. 42-31
POMONA FREEWAY OVERPASS
POR. SEC. 17 T2S., R9W. S.B.M.
SCALE: 1" = 40'

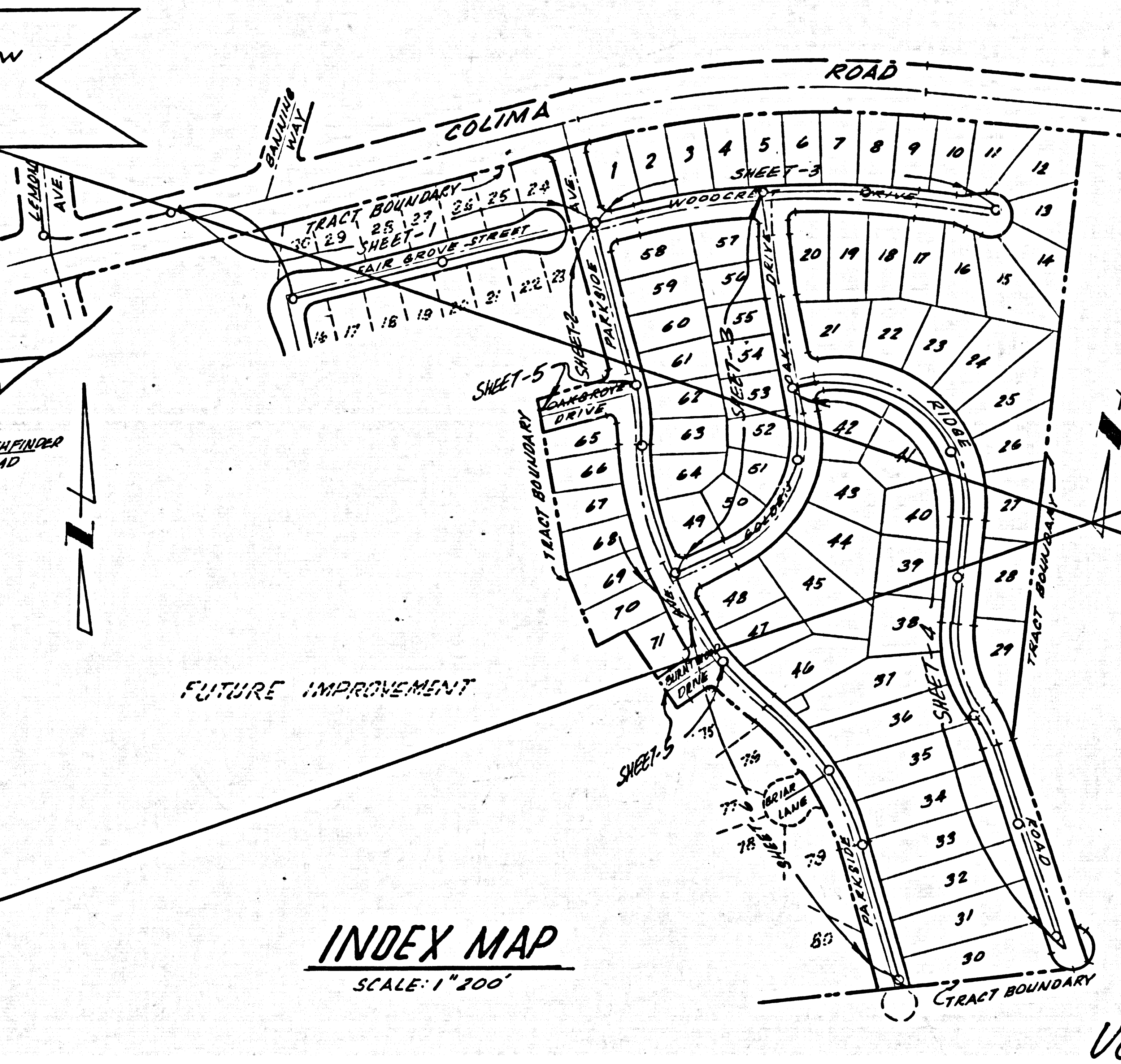

P.C. 9443 PAGE 4
EXTRA DEPTH IN MAIN LINE
LAY WYES FLAT ON WEST SIDE
EXTRA DEPTH IN MAINLINE
LAY WYES FLAT
COLLECT CHARGES AS INDICATED
DOUBLE SCALE
47020
EX. GROUND OVER ℄ STORM DRAIN
EXIST. FINISH SURFACE OVER ℄ SEWER
EX. 72" R.C.P. STORM DRAIN
12" EX. WALNUT VALLEY WATER MAIN
10" V.C.P.
2.20%
1.52%
EL. 570.42 TOP OF M.H.
EL. 555.70 8" INLET ON EAST
EL. 555.60 32+05.02
EL. 548.63 28+88.85
ENCASE 16' OF 10" V.C.P. PER S-23, CASE II
GRADES OF NORTH & SOUTH CURB
12" A.C. WALNUT VALLEY WATER MAIN
EXIST. 72" R.C.P. STORM DRAIN
EL. 561.25 8" INLET ON EAST
EL. 561.15 35+57.23
EL. 560.99 35+53.23
HORIZ. SCALE 1" = 40'
VERT. SCALE 1" = 8'
350.01'
352.21'
565
555
545
575
29
30
31
32
33
34
35
POR. SEC. 17 T.2S., R.9W. S.B.M.
COLLECT ORD. FRT. CHARGE
SEWER CURVE DATA Δ = 30°32'36" R = 150.00' L = 79.97' T = 40.96'
BY = 29+66
BY = 30+64
BY = 29+68
BY = 30+67
LEMON AVENUE
COLIMA AVE.
LEMON AVE.
72"φ EXIST. R.C.P. STORM DRAIN R.D.D. 221
S-36 32+02.02 M.H. SEWER EC 32+02.02 ℄ COVER
SCALE: 1" = 40'
SEE PAGE 3
SEE @ RIGHT HEREON
SEE @ LEFT HEREON
COLLECT ORD. FRT. CHARGE
BY = 32+65
BY = 33+65
BY = 34+70
BY = 35+50
S-36 35+53.23 - M.H. 35+54.23 ℄ COVER
COLIMA AVENUE
8" V.C.P. SEWER
N 61°58'57" E
EXIST. R&O PVMT.
EX. 12" WATER (WALNUT VALLEY WATER COMPANY) MAIN
PROPOSED CURB
SEE PAGE 5
R/W LINE
ISSUE NO PERMITS STREET MUST BE DOUBLE LINED
10' SEWER EASEMENT
LEMON AVE.
POR. SEC. 17 T.2S., R9W S.B.M.
SCALE: 1" = 40'

L.A. COUNTY SEWER SHEET NO. 2 SOUTHERN CALIFORNIA BLUEPRINT CO. 1-77

B.M. 86 3865 ELEV. 568.663
L+L S TAG NO. 3054 IN C.B. 1FT. W
FUTURE BCR, 42'N & 54'E ℄ INT.
COLIMA AVE. & ARKLEY DR.
OTTERBEIN QUAD. 1970


POMONA
FRWY
LEMON AV
CANYON RD
WALNUT
TRACT 33645
PATHFINDER ROAD
BREA
FRWY
ORANGE
COLIMA
TR. 32091
BREA CANYON CUTOFF

VICINITY MAP
NO SCALE


COLIMA ROAD
BANNING WAY
LEMON AVE
TRACT BOUNDARY
SHEET-1
SAIR GROVE STREET
WOODCREST
SHEET-3
DRIVE
SHEET-2
SHEET-4
SHEET-5
RIDGE
TRACT BOUNDARY
FUTURE IMPROVEMENT
ROAD

INDEX MAP
SCALE: 1"=200'

VOID

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. 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.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. 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.
7. 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............., AND PAY A FEE TO THE COUNTY ENGINEER,.................................. REGIONAL OFFICE, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. 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, LOS ANGELES, CALIFORNIA.
9. 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.
10. REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1970 EDITION WITH ________ SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED ________________ AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-4747, EXT. 81551, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-36, EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D", "F", OR "G" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-2.3.7 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
14. FULL COMPLIANCE WITH SECTION 306-1.9.3 OF THE SPECIAL PROVISIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED, REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.

PAGE 1

PROFILE, ALIGNMENT AND GRADE OF
SANITARY SEWERS
TO BE CONSTRUCTED IN
TRACT NO. 32091
PRIVATE CONTRACT NO.

W.S.
5 SHEETS; 10 PAGES
SCALE: VERT. 1"—4' HORIZ. 1"—40' , 197
PREPARED IN THE OFFICES OF
TOUPS CORPORATION
1010 N. MAIN, SANTA ANA; CALIF. 92711.
BY: Hal L. Anderson
REG. C. E. No. 26821

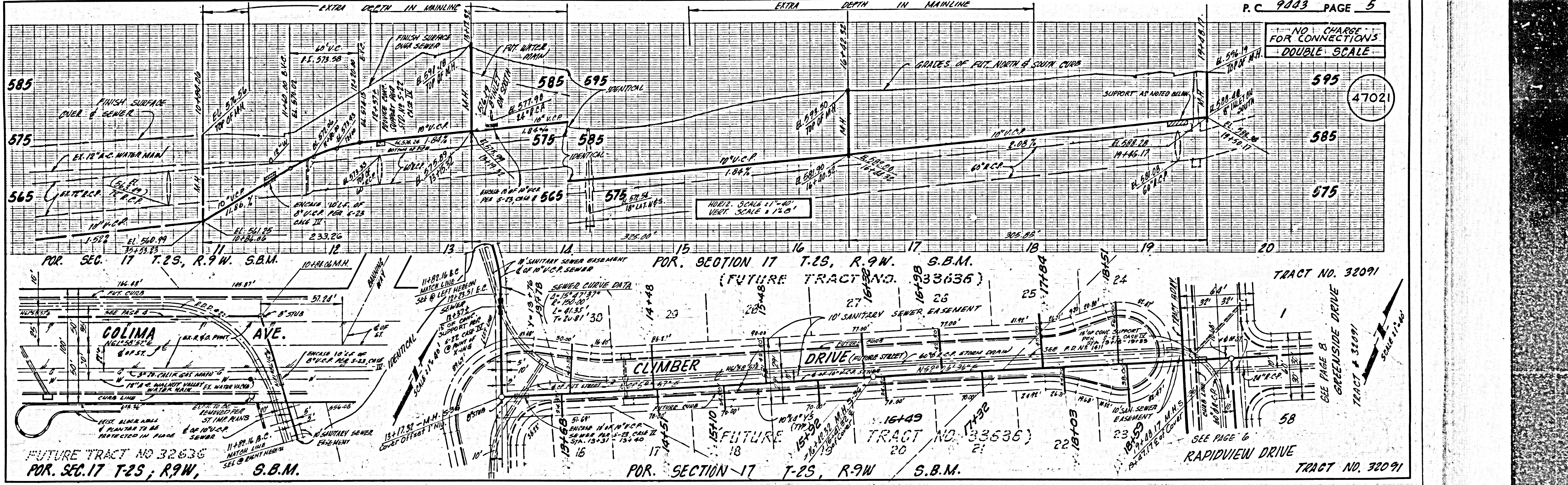
THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
ALLOWABLE TRENCH WIDTHS	S-33
LOCKING MANHOLE FRAME AND COVER	S-35
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-36

COUNTY OF LOS ANGELES, CALIFORNIA
HARVEY T. BRANDT, COUNTY ENGINEER
JOHN D. PARKHURST, CHIEF ENGINEER
CO. SAN DIST. NO.________
APPROVED________________ REGIONAL ENGINEER (DATE)
APPROVED________________ OFFICE ENGINEER
CHECKED________________ (DATE)
REG. C.E. NO.________
________BLDG. DIST.________
J. N. 137-510-2

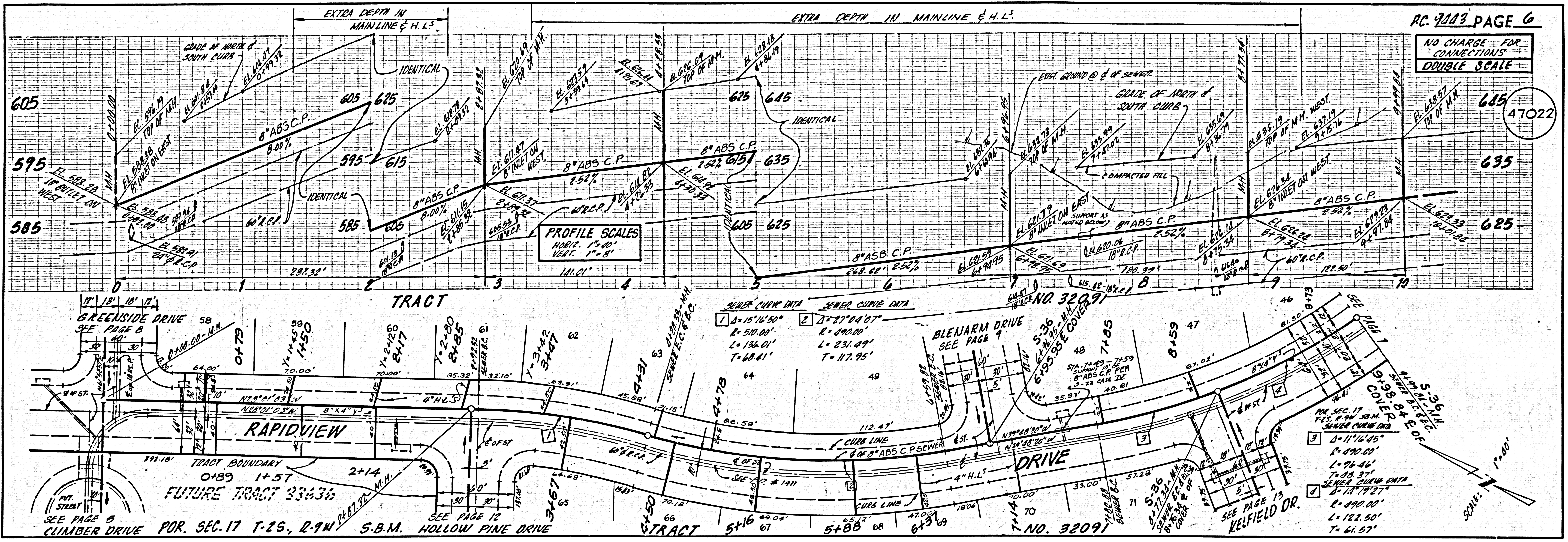
P. C 9043 PAGE 5

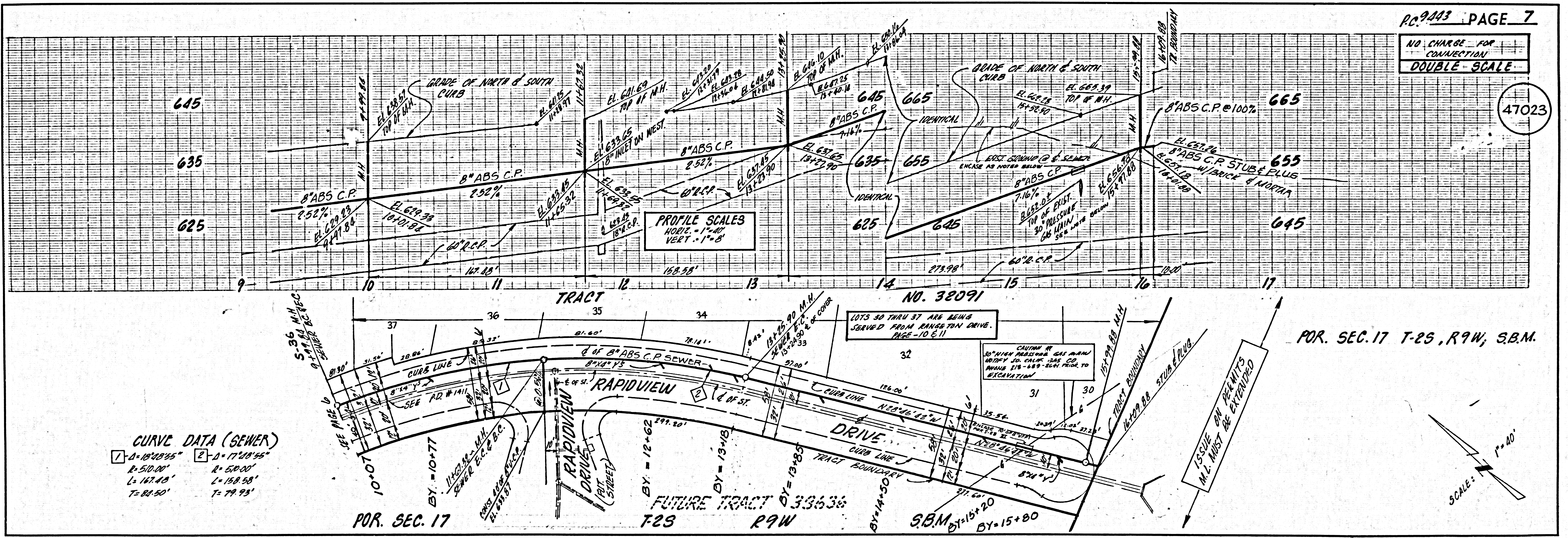
NO CHARGE FOR CONNECTIONS
DOUBLE SCALE


EXTRA DEPTH IN MAINLINE
EXTRA DEPTH IN MAINLINE
47021
585
575
565
595
585
575
FINISH SURFACE OVER & SEWER
EX. 12" A.C. WATER MAIN
10" V.C.P.
11.86%
1.52%
EL. 560.99
EL. 561.25
233.26
FINISH SURFACE OVER SEWER
FUT. WATER MAIN
10" V.C.P.
1.84%
IDENTICAL
GRADES OF FUT. NORTH & SOUTH CURB
SUPPORT AS NOTED BELOW
60" R.C.P.
2.08%
HORIZ. SCALE 1"=40'
VERT. SCALE 1"=8'
325.00'
305.85'
11
12
13
14
15
16
17
18
19
20
POR. SEC. 17 T.2S, R.9W. S.B.M.
POR. SECTION 17 T.2S, R.9W. S.B.M.
(FUTURE TRACT NO. 33636)
TRACT NO. 32091
COLIMA AVE.
BANNING WAY
SEWER CURVE DATA
10' SANITARY SEWER EASEMENT
CLYMBER DRIVE (FUTURE STREET)
60" R.C.P. STORM DRAIN
FUTURE TRACT NO. 33636
SEE PAGE 8
GREENSIDE DRIVE
SEE PAGE 6
RAPIDVIEW DRIVE
FUTURE TRACT NO. 32636
POR. SEC. 17 T-2S; R.9W, S.B.M.
POR. SECTION 17 T-2S, R.9W S.B.M.
TRACT NO. 32091

L.A. COUNTY SEWER SHEET NO. 1 SOUTHERN CALIFORNIA BLUEPRINT CO. 6-71

(P.C. 9512)


P.C. 9443 PAGE 6
NO CHARGE FOR CONNECTIONS
DOUBLE SCALE
47022
EXTRA DEPTH IN MAINLINE & H.L.S
EXTRA DEPTH IN MAINLINE & H.L.S
GRADE OF NORTH & SOUTH CURB
IDENTICAL
8"ABS C.P.
8.00%
2.52%
8"ASB C.P.
268.62'
60"R.C.P.
6"INLET ON EAST
8"INLET ON WEST
10" OUTLET ON WEST
EXIST. GROUND @ ℄ OF SEWER
COMPACTED FILL
SUPPORT AS NOTED BELOW
EL. 638.57 TOP OF M.H.
9+99.88
M.H.
PROFILE SCALES
HORIZ. - 1"=40'
VERT. - 1"=8'
605
595
585
625
615
645
635
TRACT
NO. 32091
SEWER CURVE DATA
1 Δ=15°16'50" R=510.00' L=136.01' T=68.41'
SEWER CURVE DATA
2 Δ=27°04'07" R=490.00' L=231.49' T=117.95'
GREENSIDE DRIVE SEE PAGE 8
BLENARM DRIVE SEE PAGE 9
RAPIDVIEW
DRIVE
4" H.L.S
8"x4" Y
℄ OF 8"ABS C.P. SEWER
CURB LINE
TRACT BOUNDARY
FUTURE TRACT 33636
SEE PAGE 5 CLIMBER DRIVE
POR. SEC. 17 T-2S., R-9W. S.B.M.
SEE PAGE 12 HOLLOW PINE DRIVE
SEE PAGE 13 KELFIELD DR.
S-36 M.H.
3 Δ=11°16'45" R=490.00' L=96.46' T=48.37'
SEWER CURVE DATA
4 Δ=14°19'27" R=490.00' L=122.50' T=61.57'
SEE PAGE 7
SCALE: 1"=40'


P.C. 9443 PAGE 7
NO CHARGE FOR CONNECTION
DOUBLE SCALE
47023
GRADE OF NORTH & SOUTH CURB
IDENTICAL
8"ABS C.P.
2.52%
7.16%
8"ABS C.P. @ 1.00%
8"ABS C.P. STUB & PLUG W/BRICK & MORTAR
EXIST. GROUND @ ℄ SEWER
ENCASE AS NOTED BELOW
TOP OF EXIST. 30" PRESSURE GAS MAIN
60"R.C.P.
18" INLET ON WEST
EL. 661.69 TOP OF M.H.
PROFILE SCALES
HORIZ. - 1"=40'
VERT. - 1"=8'
645
635
625
665
655
TRACT
NO. 32091
LOTS 30 THRU 37 ARE BEING SERVED FROM RANGETON DRIVE. PAGE-10 & 11
CAUTION !! 30" HIGH PRESSURE GAS MAIN NOTIFY SO. CALIF. GAS CO. PHONE 213-689-2641 PRIOR TO EXCAVATION
ENCASE 10' OF 8" V.C.P. PER S-23 II
CURVE DATA (SEWER)
1 Δ=18°48'55" R=510.00' L=167.43' T=84.50'
2 Δ=17°28'35" R=510.00' L=158.58' T=79.93'
RAPIDVIEW
DRIVE
RAPIDVIEW DRIVE (PVT. STREET)
℄ OF 8"ABS C.P. SEWER
CURB LINE
TRACT BOUNDARY
N28°46'42"W
FUTURE TRACT 33636
POR. SEC. 17 T-2S R9W S.B.M.
POR. SEC. 17 T-2S, R9W, S.B.M.
ISSUE BN PERMITS M.L. MUST BE EXTENDED
15+99.88 M.H.
16+09.88 STUB & PLUG
SCALE: 1"=40'

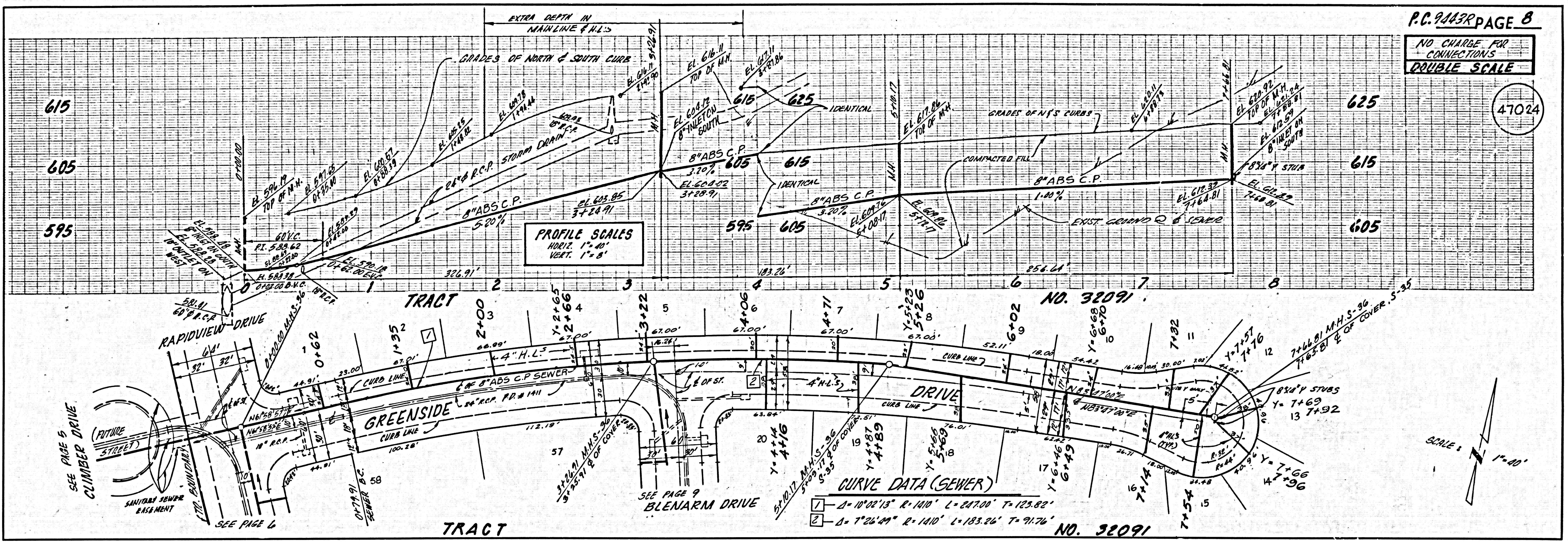
L.A. COUNTY SEWER SHEET NO. 2 SOUTHERN CALIFORNIA BLUEPRINT CO. 1-77

P.C. 9443R PAGE 8

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

47024


EXTRA DEPTH IN MAINLINE & H.L.S
GRADES OF NORTH & SOUTH CURB
GRADES OF N & S CURBS
IDENTICAL
COMPACTED FILL
EXIST. GROUND @ ℄ SEWER
24" R.C.P. STORM DRAIN
8" ABS C.P.
5.20%
3.20%
1.00%
M.H.
EL. 596.17 TOP OF M.H.
EL. 616.11 TOP OF M.H.
EL. 617.86 TOP OF M.H.
EL. 620.92 TOP OF M.H.
EL. 605.85 3+28.91
EL. 608.02 3+28.91
EL. 609.76 5+08.17
EL. 612.32 7+64.81
8" INLET ON SOUTH
8" x 6" Y STUB
60' V.C.
P.I. 583.62
EL. 583.38
EL. 590.18
PROFILE SCALES
HORIZ. 1" = 40'
VERT. 1" = 8'
615
605
595
625
326.91'
183.26'
256.64'
0 1 2 3 4 5 6 7 8
TRACT
NO. 32091
RAPIDVIEW DRIVE
GREENSIDE
DRIVE
CURB LINE
4" H.L.S.
℄ OF 8" ABS C.P. SEWER
24" R.C.P. P.D. # 1411
(FUTURE STREET)
SEE PAGE 5 CLIMBER DRIVE
SANITARY SEWER EASEMENT
TRACT BOUNDARY
SEE PAGE 6
SEE PAGE 9 BLENARM DRIVE
N83°47'02"E
7+64.81 M.H. S-36
7+63.81 ℄ OF COVER S-35
5+10.17 M.H. S-36
5+09.17 ℄ OF COVER S-35
3+26.91 M.H. S-36
3+25.91 ℄ OF COVER
8" x 6" Y STUBS
SCALE: 1" = 40'
57 58 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3
0+62 1+35 2+03 2+66 3+22 4+06 4+71 5+26 6+02 6+70 7+32 7+76 7+92 7+96 7+54 7+14 6+49 5+69 4+89 4+16

CURVE DATA (SEWER)

1 — Δ = 10°02'13" R = 1410' L = 247.00' T = 123.82'

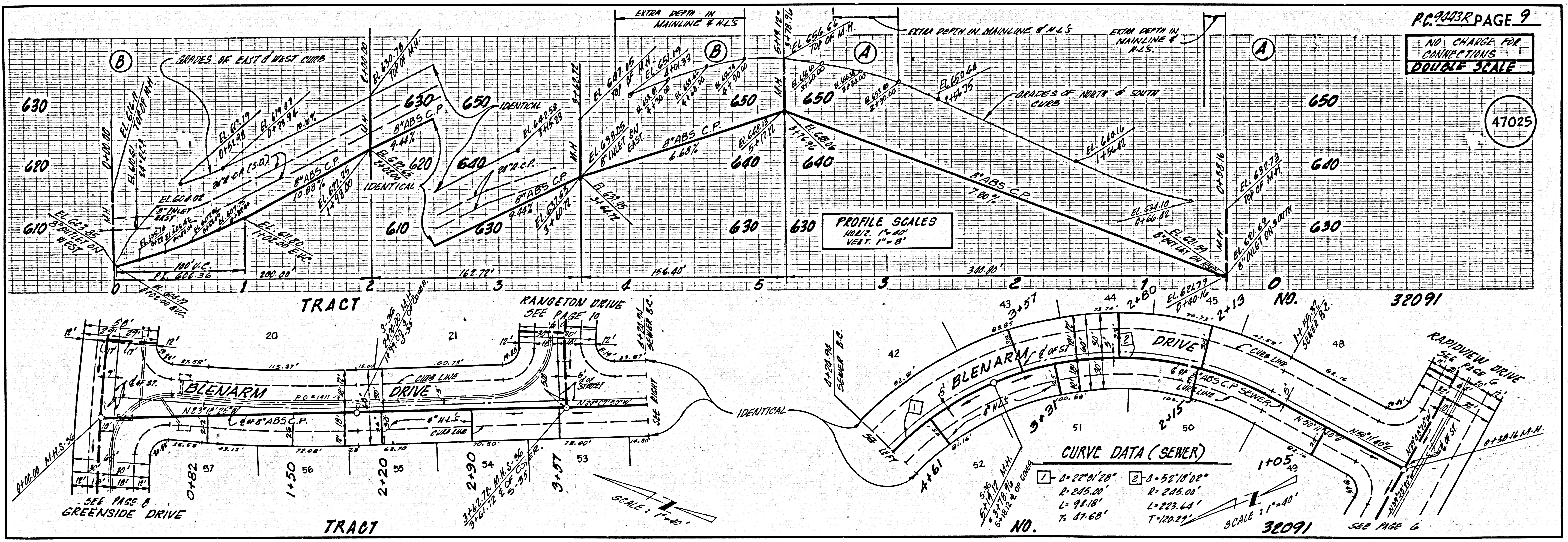
2 — Δ = 7°26'49" R = 1410' L = 183.26' T = 91.76'

P.C. 9443R PAGE 9

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

47025


EXTRA DEPTH IN MAINLINE & H.L.S
EXTRA DEPTH IN MAINLINE & H.L.S.
GRADES OF EAST & WEST CURB
GRADES OF NORTH & SOUTH CURB
IDENTICAL
A
B
8" ABS C.P.
10.83%
9.46%
9.44%
6.63%
7.80%
EL. 656.66 TOP OF M.H.
EL. 630.78 TOP OF M.H.
EL. 607.95 TOP OF M.H.
EL. 632.73 TOP OF M.H.
EL. 623.85 8" OUTLET ON WEST
EL. 638.05 8" INLET ON EAST
EL. 621.59 8" INLET ON SOUTH
100' V.C.
P.I. 606.36
PROFILE SCALES
HORIZ. 1" = 40'
VERT. 1" = 8'
630 620 610 650 640
200.00'
162.72'
156.40'
300.80'
0 1 2 3 4 5 3 2 1 0
TRACT
NO. 32091
BLENARM
DRIVE
CURB LINE
4" H.L.S.
N83°47'02"E
RANGETON DRIVE SEE PAGE 10
SEE RIGHT
SEE LEFT
SEWER B.C.
RAPIDVIEW DRIVE SEE PAGE 6
SEE PAGE 8 GREENSIDE DRIVE
SEE PAGE 6
0+00.00 M.H. S-36
0+38.16 M.H.
3+62.72 M.H. S-36
3+61.72 ℄ OF COVER S-35
5+19.12 M.H.
5+18.12 ℄ OF COVER
SCALE: 1" = 40'
57 56 55 54 53 20 21 42 43 44 45 48 49 50 51 52
0+82 1+50 2+20 2+90 3+57 3+31 4+61 3+57 2+80 2+13 2+15 1+05

CURVE DATA (SEWER)

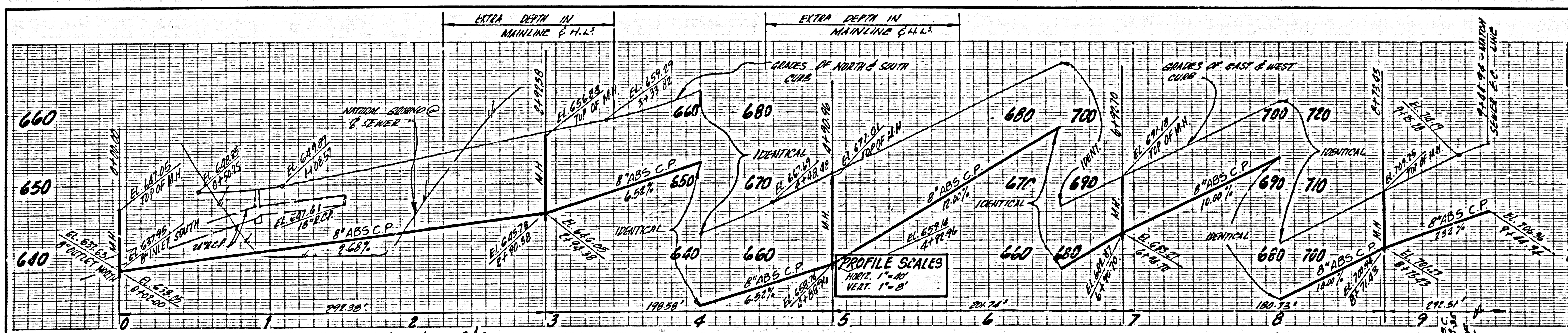
1 — Δ = 22°01'28" R = 245.00' L = 94.18' T = 47.68'

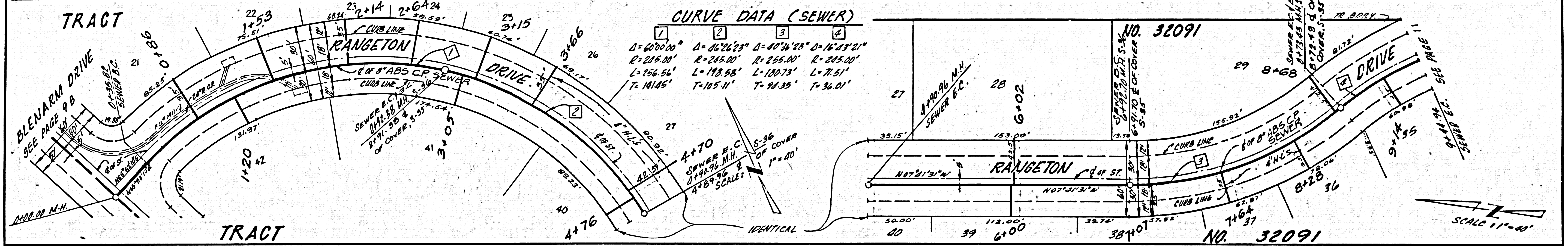
2 — Δ = 52°18'02" R = 245.00' L = 223.64' T = 120.29'

P.C. 9443 PAGE 10

NO CHARGE FOR CONNECTIONS
DOUBLE SCALE

47026


EXTRA DEPTH IN MAINLINE & H.L.S
EXTRA DEPTH IN MAINLINE & H.L.S
GRADES OF NORTH & SOUTH CURB
GRADES OF EAST & WEST CURB
NATURAL GROUND @ ℄ SEWER
8" ABS C.P. 2.68%
8" ABS C.P. 6.52%
8" ABS C.P. 12.00%
8" ABS C.P. 10.00%
8" ABS C.P. 18.00%
8" ABS C.P. 2.52%
IDENTICAL
M.H.
PROFILE SCALES
HORIZ. 1" = 40'
VERT. 1" = 8'
640
650
660
670
680
690
700
710
720
292.38'
198.58'
201.74'
180.73'
292.51'
0
1
2
3
4
5
6
7
8
9


TRACT
BLENARM DRIVE
SEE PAGE 9 B
RANGETON
DRIVE
℄ OF 8" ABS C.P. SEWER
CURB LINE
6" H.L.S
0+86
1+20
1+53
2+14
2+64
3+05
3+15
3+66
4+70
4+76
SEWER E.C. 4+89.96 M.H. S-36 ℄ OF COVER
SCALE: 1" = 40'
IDENTICAL
NO. 32091
6+00
6+02
7+64
8+28
8+68
9+14
9+35
SEE PAGE 11
TO BDRY.
SCALE 1" = 40'

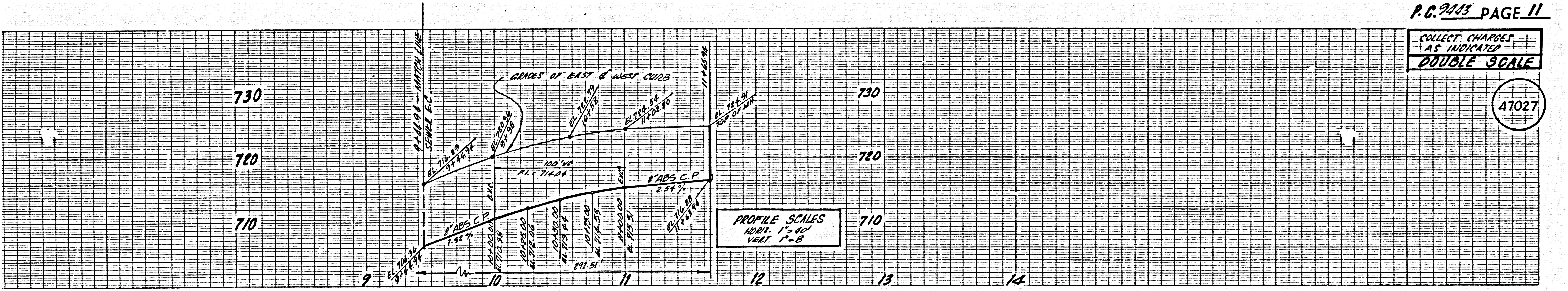
CURVE DATA (SEWER)

1	2	3	4
Δ = 60°00'00"	Δ = 46°26'23"	Δ = 40°36'28"	Δ = 16°43'21"
R = 245.00'	R = 245.00'	R = 255.00'	R = 245.00'
L = 256.56'	L = 198.58'	L = 180.73'	L = 71.51'
T = 141.45'	T = 105.11'	T = 94.35'	T = 36.01'

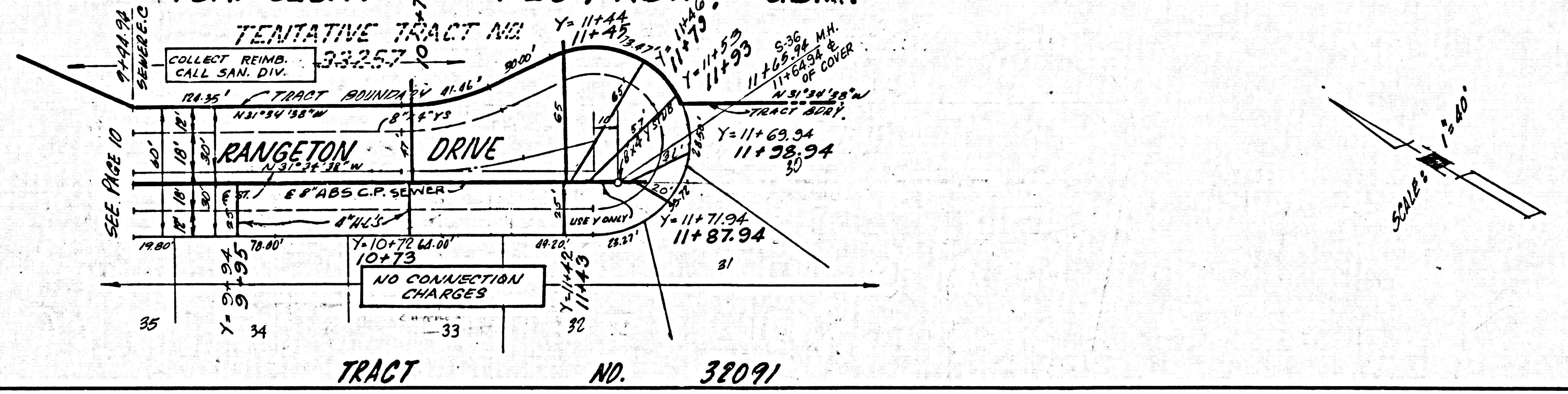
P.C. 9443 PAGE 11

COLLECT CHARGES AS INDICATED
DOUBLE SCALE

47027


9+41.96 - MATCH LINE SEWER E.C.
GRADES OF EAST & WEST CURB
8" ABS C.P. 7.92%
8" ABS C.P. 2.59%
P.I. = 716.06
100' V.C.
292.51'
PROFILE SCALES
HORIZ. 1" = 40'
VERT. 1" = 8'
710
720
730
9
10
11
12
13
14

POR. SEC. 17 T-2S, R9W, S.B.M.


TENTATIVE TRACT NO. 33257
COLLECT REIMB. CALL SAN. DIV.
TRACT BOUNDARY
RANGETON DRIVE
℄ 8" ABS C.P. SEWER
6" H.L.S
SEE PAGE 10
9+41.96 SEWER E.C.
NO CONNECTION CHARGES
11+65.94 M.H. S-36 ℄ OF COVER
SCALE: 1" = 40'
TRACT NO. 32091

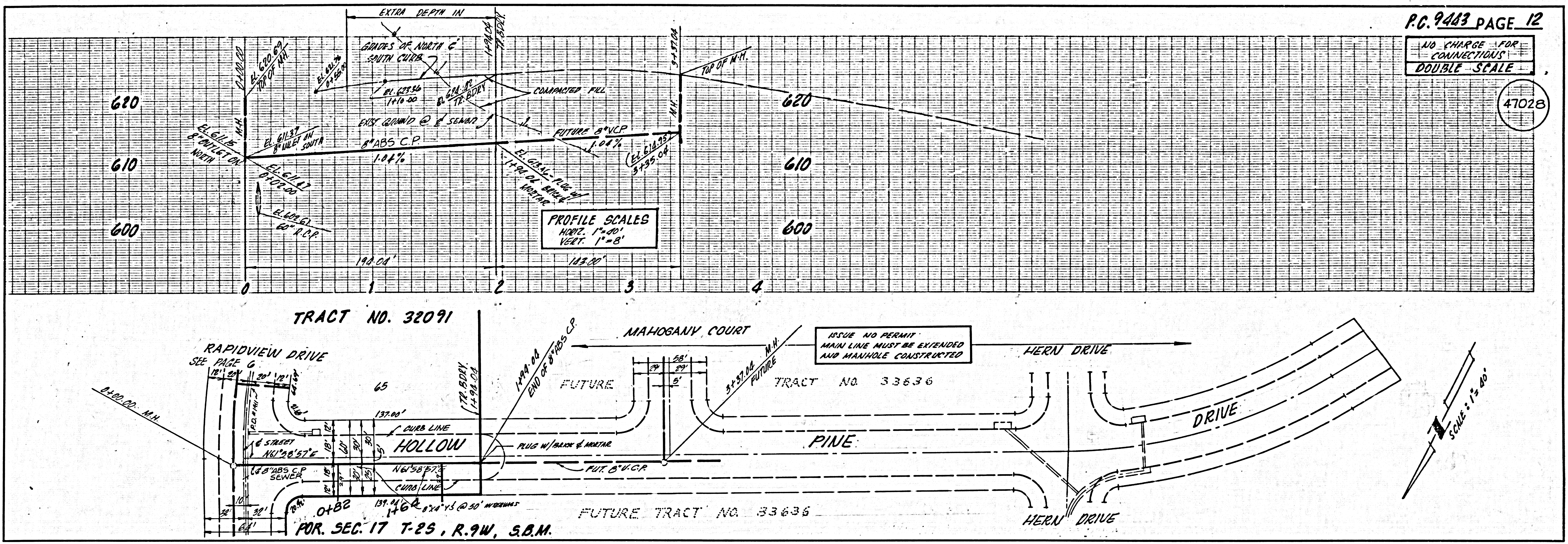
L.A. COUNTY SEWER SHEET NO. 2 SOUTHERN CALIFORNIA BLUEPRINT CO. 1-77

P.C. 9443 PAGE 12

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

47028

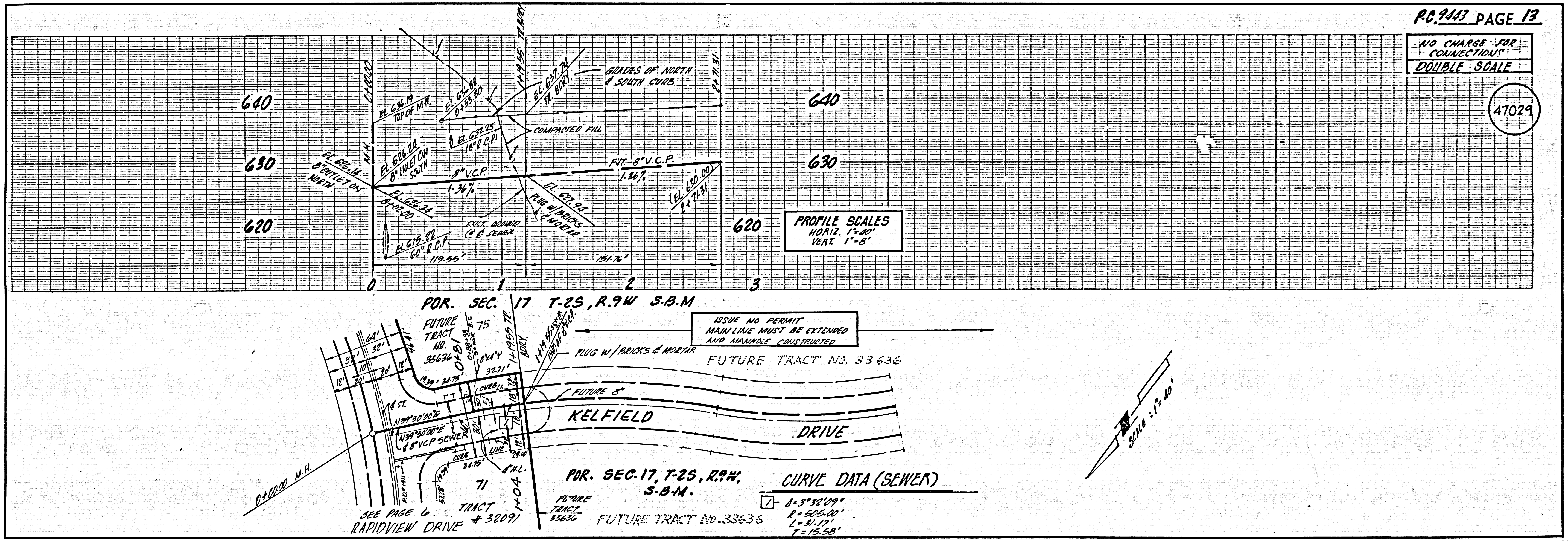

EXTRA DEPTH IN
GRADES OF NORTH & SOUTH CURB
0+00.00
EL. 620.69 TOP OF MH.
EL. 621.76 0+55.00
EL. 623.36 1+10.00
EL. 624.82 TR. BDRY
1+94.04
TR. BDRY
COMPACTED FILL
EXST. GROUND @ ℄ SEWER
M.H.
EL. 611.15 8" OUTLET ON NORTH
EL. 611.37 8" INLET ON SOUTH
8" ABS C.P.
1.04%
EL. 611.47 0+02.00
EL. 602.61 60" R.C.P.
FUTURE 8" VCP
1.04%
EL. 613.46 – PLUG W/ BRICK & MORTAR
1+94.04
3+37.04
TOP OF M.H.
M.H.
EL. 614.95
3+35.04
PROFILE SCALES
HORIZ. 1"=40'
VERT. 1"=8'
194.04'
143.00'
620
610
600
0
1
2
3
4
TRACT NO. 32091
RAPIDVIEW DRIVE
SEE PAGE 6
0+00.00 M.H.
65
P.D. #1411
℄ STREET
N61°58'57"E
℄ 8" ABS C.P. SEWER
137.00'
CURB LINE
HOLLOW
N61°58'57"E
CURB LINE
139.04'
0+82
1+62
8"x4" Y'S @ 50' INTERVALS
TR. BDRY.
1+94.04
1+94.04
END OF 8" ABS C.P.
PLUG W/ BRICK & MORTAR
FUT. 8" V.C.P.
MAHOGANY COURT
FUTURE
3+37.04 M.H. FUTURE
TRACT NO. 33636
PINE
ISSUE NO PERMIT
MAIN LINE MUST BE EXTENDED
AND MANHOLE CONSTRUCTED
HERN DRIVE
DRIVE
HERN DRIVE
FUTURE TRACT NO. 33636
POR. SEC. 17 T-2S, R.9W, S.B.M.
SCALE: 1"=40'
58'
29'
29'
5'
12'
20'
20'
12'
32'
32'
64'
10'
18'
18'
60'
30'
30'
30'
30'
12'
12'

P.C. 9443 PAGE 13

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

47029


0+00.00
TR. BDRY.
1+19.55
2+71.31
GRADES OF NORTH & SOUTH CURB
EL. 636.19 TOP OF M.H.
EL. 636.88 0+53.30
EL. 637.74 TR. BDRY.
EL. 632.25 18" R.C.P.
COMPACTED FILL
M.H.
EL. 626.14 8" OUTLET ON NORTH
EL. 626.24 8" INLET ON SOUTH
8" V.C.P.
1.36%
EL. 626.34 0+02.00
FUT. 8" V.C.P.
1.36%
EL. 627.98
PLUG W/ BRICKS & MORTAR
EXST. GROUND @ ℄ SEWER
EL. 630.00
2+71.31
EL. 615.22 60" R.C.P.
119.55'
151.76'
PROFILE SCALES
HORIZ. 1"=40'
VERT. 1"=8'
640
630
620
0
1
2
3
POR. SEC. 17 T-2S, R.9W S.B.M
FUTURE TRACT NO. 33636
75
0+81
0+88.38 B.C. SEWER
8"x4" Y
1+19.55 TR. BDRY.
1+19.55 SEWER END OF 8" V.C.P.
PLUG W/ BRICKS & MORTAR
ISSUE NO PERMIT
MAIN LINE MUST BE EXTENDED
AND MANHOLE CONSTRUCTED
FUTURE TRACT NO. 33636
FUTURE 8"
KELFIELD
DRIVE
℄ ST.
N39°30'00"E
N39°30'00"E
℄ 8" VCP SEWER
CURB
CURB LINE
LINE
℄ M.L.
0+00.00 M.H.
P.D. #1411
71
1+04
SEE PAGE 6
RAPIDVIEW DRIVE
TRACT #32091
FUTURE TRACT 33636
POR. SEC. 17, T-2S, R.9W, S.B.M.
FUTURE TRACT NO. 33636
SCALE: 1"=40'
96.41'
32.71'
34.75'
34.75'
19.39'
19.39'
57.28'
18.72'
29.00'
64'
32'
32'
10'
12'
20'
20'
12'
30'
30'
5'
18'
18'
12'

CURVE DATA (SEWER)

1 Δ=3°32'09"
R=505.00'
L=31.17'
T=15.58'

L.A. COUNTY SEWER SHEET NO. 2 SOUTHERN CALIFORNIA BLUEPRINT CO. 1-77