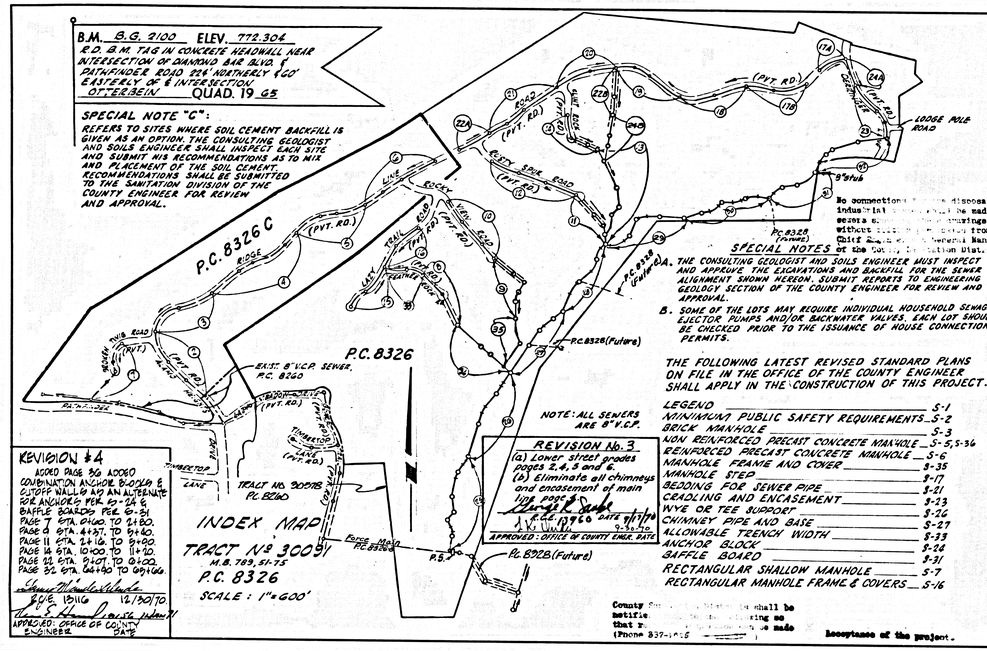
B.M. B.G. 2100 ELEV. 772.304
R.D. B.M. TAG IN CONCRETE HEADWALL NEAR INTERSECTION OF DIAMOND BAR BLVD. & PATHFINDER ROAD 226' NORTHERLY & 60' EASTERLY OF ℄ INTERSECTION.
OTTERBEIN QUAD. 19 G5

SPECIAL NOTE "C":
REFERS TO SITES WHERE SOIL CEMENT BACKFILL IS GIVEN AS AN OPTION. THE CONSULTING GEOLOGIST AND SOILS ENGINEER SHALL INSPECT EACH SITE AND SUBMIT HIS RECOMMENDATIONS AS TO MIX AND PLACEMENT OF THE SOIL CEMENT. RECOMMENDATIONS SHALL BE SUBMITTED TO THE SANITATION DIVISION OF THE COUNTY ENGINEER FOR REVIEW AND APPROVAL.



No connections for disposal of industrial wastes may be made to sewers or drainage structures without prior permission from the Chief Engineer and General Manager of the County Sanitation Districts.

SPECIAL NOTES
A. THE CONSULTING GEOLOGIST AND SOILS ENGINEER MUST INSPECT AND APPROVE THE EXCAVATIONS AND BACKFILL FOR THE SEWER ALIGNMENT SHOWN HEREON. SUBMIT REPORTS TO ENGINEERING GEOLOGIST SECTION OF THE COUNTY ENGINEER FOR REVIEW AND APPROVAL.
B. SOME OF THE LOTS MAY REQUIRE INDIVIDUAL HOUSEHOLD SEWAGE EJECTOR PUMPS AND/OR BACKWATER VALVES. EACH LOT SHOULD BE CHECKED PRIOR TO THE ISSUANCE OF HOUSE CONNECTION PERMITS.

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
NON REINFORCED PRECAST CONCRETE MANHOLE	S-5; S-5, S-36
REINFORCED PRECAST CONCRETE MANHOLE	S-6
MANHOLE FRAME AND COVER	S-35
MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
CHIMNEY PIPE AND BASE	S-27
ALLOWABLE TRENCH WIDTH	S-33
ANCHOR BLOCKS	S-24
BAFFLE BOARD	S-31
RECTANGULAR SHALLOW MANHOLE	S-7
RECTANGULAR MANHOLE FRAME & COVERS	S-16

NOTE: ALL SEWERS ARE 8" V.C.P.

REVISION No. 3
(a) Lower street grades pages 2, 4, 5 and 6.
(b) Eliminate all chimneys and encasement of main on page 6.
[illegible] 11-7-75
APPROVED: OFFICE OF COUNTY ENGR. DATE

REVISION #4
ADDED PAGE 8G ADDED COMBINATION ANCHOR BLOCKS & CUTOFF WALLS AND AN ALTERNATE SIZE ANGLES FOR 45°-24" ℄ BAFFLE BOARDS PER S-31
PAGE 7 STA. 01+00 TO 2+80.
PAGE 8 STA. 4+37 TO 9+40.
PAGE 11 STA. 2+10 TO 5+20
PAGE 14 STA. 10+00 TO 11+10.
PAGE 15 STA. 2+07 TO 0+20.
PAGE 16 STA. 0+90 TO 0+46
[illegible] 12/30/70
APPROVED: OFFICE OF COUNTY ENGINEER DATE

DOUBLE SCALE
SAN DIMAS BLDG. DIST. NO. 10

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 PRIVATE ENGINEER 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. 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.
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. 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.
7. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST MANHOLES PER S-5, S-36 OR S-6 EXCEPT AS NOTED.
8. "Y" OR "T" BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
9. MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
10. USE EXTRA STRENGTH PIPE ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
11. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "O", "F" OR "G" PER STD. SPEC'S. SECTION 208-2.
12. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE. CASE II
13. 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, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER. CASE II
14. HOUSE LATERALS TO BE CONSTRUCTED WITH PIPE TERMINATING 6 FEET INSIDE THE STREET R/W LINE.
15. PAVEMENT REPAIR SHALL BE PLACED AS SHOWN ON THE "TYPICAL CROSS SECTION OF THE EDGE OF PAVEMENT" IN ACCORDANCE WITH PERMIT.
16. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-2.3.7. OF THE STD. SPECIFICATIONS.
17. REFER TO SECTION 7-10.4.1 OF THE STD. SPECIFICATIONS REGARDING SAFETY ORDERS.
18. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A FLEXIBLE SEWER JOINT, TYPE "C" OR "D" (WITH BUSHINGS IF NECESSARY) PER STD. SPEC'S., SECTION 208-2.
19. SPECIAL BACKFILL IN DESIGNATED AREAS:
(a) BACKFILL TRENCH & REPLACE OTHER EARTH REMOVED SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS TRACT BY THE BUILDING AND SAFETY DIVISION.
(b) ALL BACKFILLING EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. STANDARD METHOD OF TEST D698-57T AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION.

COLLECT CHARGES AS INDICATED
DO NOT ISSUE HOUSE CONNECTION PERMITS UNTIL P.C. 8260 HAS BEEN ACCEPTED

NOTICE TO CONTRACTOR
The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans. The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.
[signature] 1970
REG. C.E. NO.

PROFILE ALIGNMENT AND GRADE OF P.C. 8326
SANITARY SEWERS PAGE 1
CONSTRUCTED IN
TRACT Nº 30091
M.B. Nº 789, 51-75
PRIVATE CONTRACT NO. 8326 & 8326-C
W.S. 39 B-4
19 SHEETS, 36 PAGES
SCALE: VERT. 1"= 8' HORIZ. 1"=40' MAY, 1969
PREPARED IN THE OFFICES OF
E.L. PEARSON AND ASSOCIATES
By [signature] REG. C.E. NO. 13960
42574

FOR LEGEND SEE PLAN NO. S-1

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. VERTICAL DATUM OF 1929.
WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1970 EDITION AND COUNTY ENGINEER'S SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED APRIL 7, 1970 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF CO. ENG. REPSNTV. WORK CAN BE STARTED BY CONTACTING THE COUNTY ENGINEER'S INSPECTOR FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. [illegible] AND PAY A FEE TO THE COUNTY ENGINEER, ROOM 330, COUNTY ENGINEERING BUILDING, 108 WEST SECOND STREET OR 201 E. BONITA AVE., SAN DIMAS — REGIONAL OFFICE, 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, LOS ANGELES, CALIFORNIA.

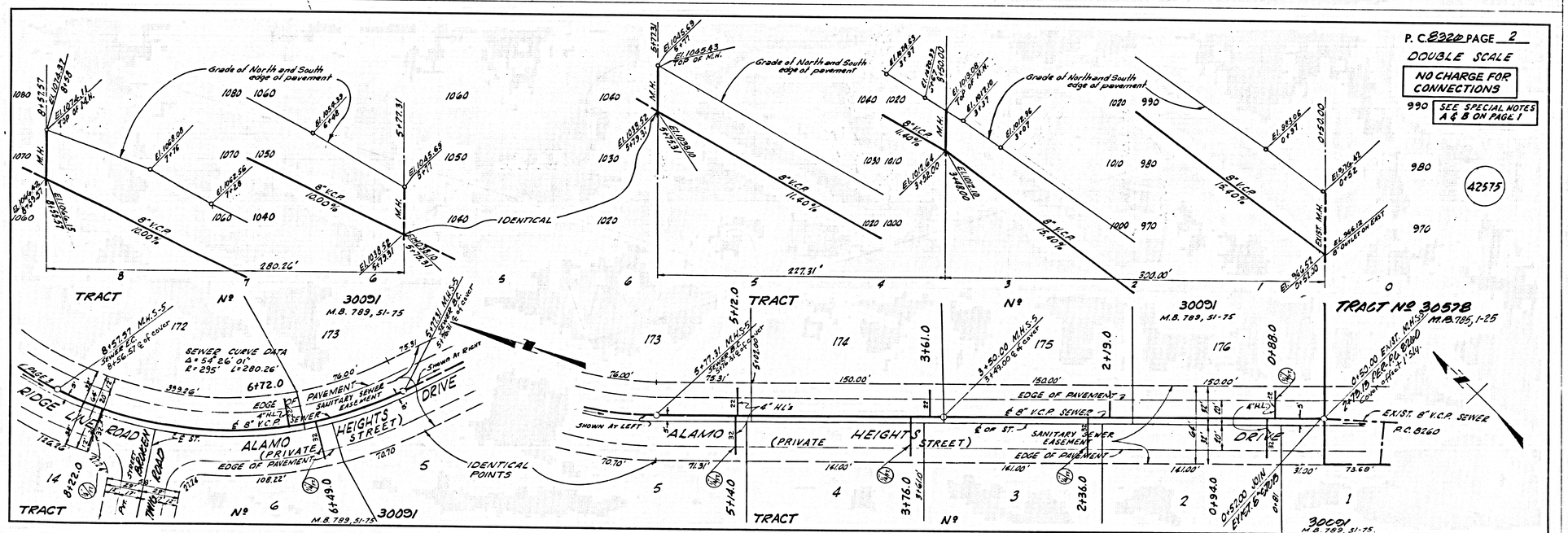
COUNTY OF LOS ANGELES, CALIFORNIA
JOHN A. LAMBIE, COUNTY ENGINEER J. D. PARKHURST, CHIEF ENGINEER
APPROVED BY [signature] SAN DIMAS REGIONAL ENGINEER
CO. SAN. DIST. NO. [illegible]
APPROVED BY [signature] OFFICE ENGINEER
CHECKED BY Ralph Schaefer 6/1/70 REG. C.E. No. 19906

REVISION No. 2: Page 22B, Sta. 5+09.43 to Sta. 10+12.13 & Page 24B from Sta. 4+51.43 to Sta. 5+05.43, rev. to C.I.P. w/gravel bedding & rev. grades. Ralph Schaefer 6/1/70
APPROVED: OFFICE OF COUNTY ENGINEER

REVISION No. 1 (Date)
(1) Ridge Line Road, Page 17B - Page 22A, Sewer Sewer and Surface grades.
(2) Page 25 - Portion of Main Line Realigned to conform to alignment of Fire Station Access
APPROVED: [illegible]

P.C. 8326 PAGES 8 THRU 35
P.C. 8326-B PUMP STA. & FORCE MAIN
P.C. 8326-C PAGES 1 THRU 7

P.C. 8326 PAGE 2
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES A & B ON PAGE 1
42575



L.A. COUNTY SEWER SHEET NO. 1

P.C. 2321 PAGE 3

SEE SPECIAL NOTE B ON PAGE 1 — DOUBLE SCALE — NO CHARGE FOR CONNECTIONS

EXTRA DEPTH IN MAIN LINE & H.L.'S

EL 1102.16 RIM 15.00 — EL 1101.88 TOP OF M.H. — 15+91.66

EL 1097.35 16+18.1 — EL 1094.64 14.35 — EL 1093.44 16+1.1 — EL 1091.32 13.53 — Grade of North & South EDGE OF PAVEMENT

EL 1091.62 15+39.66 — EL 1091.22 15+39.66 — 8" V.C.P. 4.20% — EL 1088.46 14.00 — 17+00.00 — EL 1088.46 14.00

EL 1077.24 16+00.00 — EL 1077.24 111+38.66 — 337.66' — 15 14 13 12

IDENTICAL

EL 1088.68 13.00 — EL 1085.62 11.46 — 17+22.00 — 1+56.41 TOP OF M.H. — Grade of East & West EDGE OF PAVEMENT

EL 1077.36 16+28.00 — EL 1077.11 111+38.00 — 8" V.C.P. 3.16% — 342.43' — 12 11 10 9

EL 1072.36 9+28 — EL 1072.31 9+28 — EL 1072.26 8+28 — EL 1072.21 8+28 — EL 1072.45 8+58 — 8+57.57

TRACT No 30091 M.B. 789, 51-75

42576

169 — 5+37.64 M.H. 5.5 @ 6' Cover — 15+86.66 ℄ Cover — 14+80 — 53.11' — 85.10' — 100.00' — 50.00' — Page 4 — 168

170 — 13+00.44 SEWER ℄ — 13+19.10 — 13+19.92 — SANITARY SEWER EASEMENT — 84.18' — EDGE OF PAVEMENT — 158.61' — 4" H.L.'s — 8" V.C.P. SEWER — ℄ ST. — SHOWN AT RIGHT

171 — 12+40.0 — 11+00.00 M.H. 5.5 @ 1+39.00 ℄ Cover

RIDGE (PRIVATE STREET) LINE ROAD — EDGE OF PAVEMENT — 154.00' — 36.00' — 91.06' — 139.69' — 19+21.0 — 19+21.0 — 32.73' — SEWER CURVE DATA Δ = 20° 43' 49" R = 355' L = 128.49 — 19+60.0 — 17 — 16 — IDENTICAL POINTS

TRACT 19 18 No 30091 M.B. 789, 51-75

171 — 11+00.00 M.H. 5.5 @ 11+99.00 ℄ Cover — SHOWN AT LEFT — 158.61' — 60.00' — 134.00' — 36.00' — 112.38' — 11+66.49 SEWER ℄ — 17 — 16

172 — 8+57.57 M.H. 5.5 @ 8+58 ℄ Cover — SEWER CURVE DATA Δ = 60° R = 295' L = 308.92' — 399.16' — EDGE OF PAVEMENT — 154.46' — SANITARY SEWER EASEMENT — 10+20 — 8+21.11 — 15 — 14

TRACT 16 15 No 30091 M.B. 789, 51-75

P.C. 2321 PAGE 4

SEE SPECIAL NOTE B ON PAGE 1 — DOUBLE SCALE — NO CHARGE FOR CONNECTIONS

EXTRA DEPTH IN MAIN LINE & H.L.'S — 23+80.94 — 25+50.23 — 18+84.85 — 20+30.94

EL 1147.27 TOP OF M.H. 25+50.23 — EL 1148.04 23+50 — EL 1147.03 TOP OF M.H. 23+80.94 — EL 1145.82 22+25 — EL 1145.96 21+45 — EL 1145.78 21+80 — EL 1145.60 20+75 — EL 1145.30 20+13 — EL 1145.00 19+45 — EL 1144.80 TOP OF M.H. 18+84.85 — EL 1144.60 18+25 — EL 1144.19 TOP OF M.H. — EL 1143.19 16+35 — GRADE OF EAST & WEST EDGE OF PAVEMENT

EL 1140.00 25+22.23 — EL 1139.23 24+44.23 — 8" V.C.P. 0.40% — EL 1139.25 23+79.29 — EL 1139.25 23+79.29 — 169.29' — EL 1139.77 20+73.24 — EL 1139.52 20+73.24 — 350.00' — 0.40% — EL 1139.77 20+73.24 — 146.09' — EL 1139.62 18+27.15 — 8" V.C.P. 13.16% — 347.19' — EL 1091.51 15+27.34 — 26 25 24 23 22 21 20 19 18 17 16 15

EL 1130.55 16+58 — EXTRA DEPTH IN MAIN LINE & H.L.'s — GRADE OF EAST & WEST EDGE OF PAVEMENT — EL 1130.15 15+98 — 15+37.66 — EL 1129.75 17+18 — EL 1129.37 17+62 — EL 1128.95 17+18 — EL 1128.55 15+98

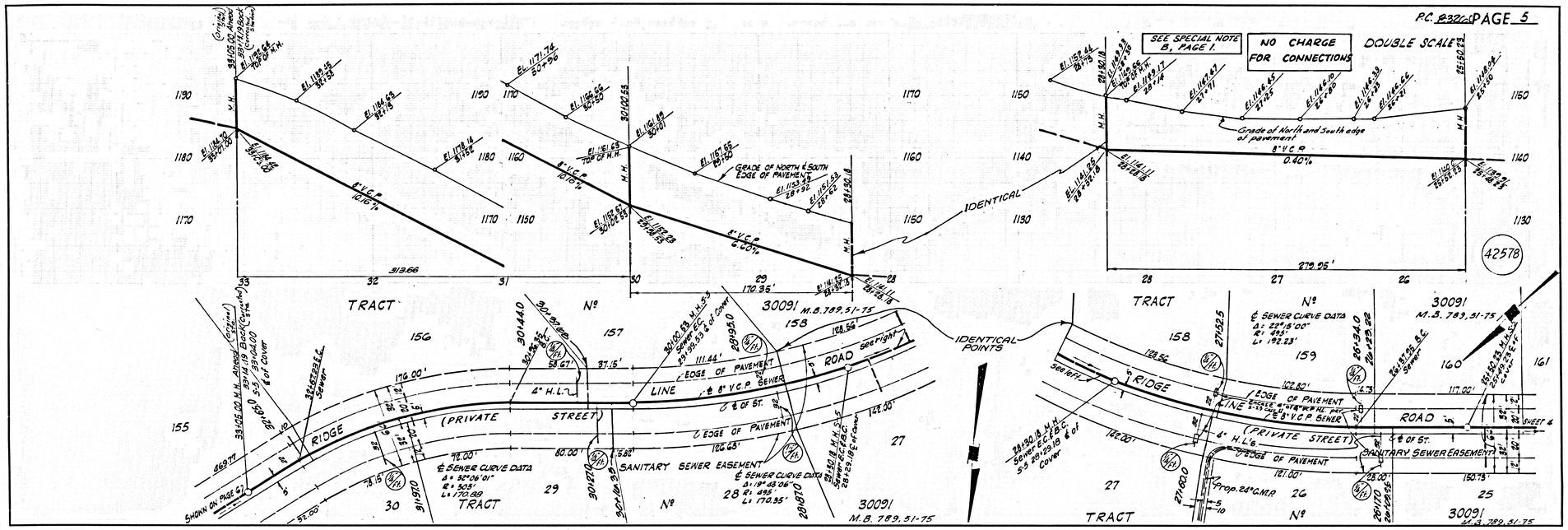
TRACT No 30091 M.B. 789, 51-75

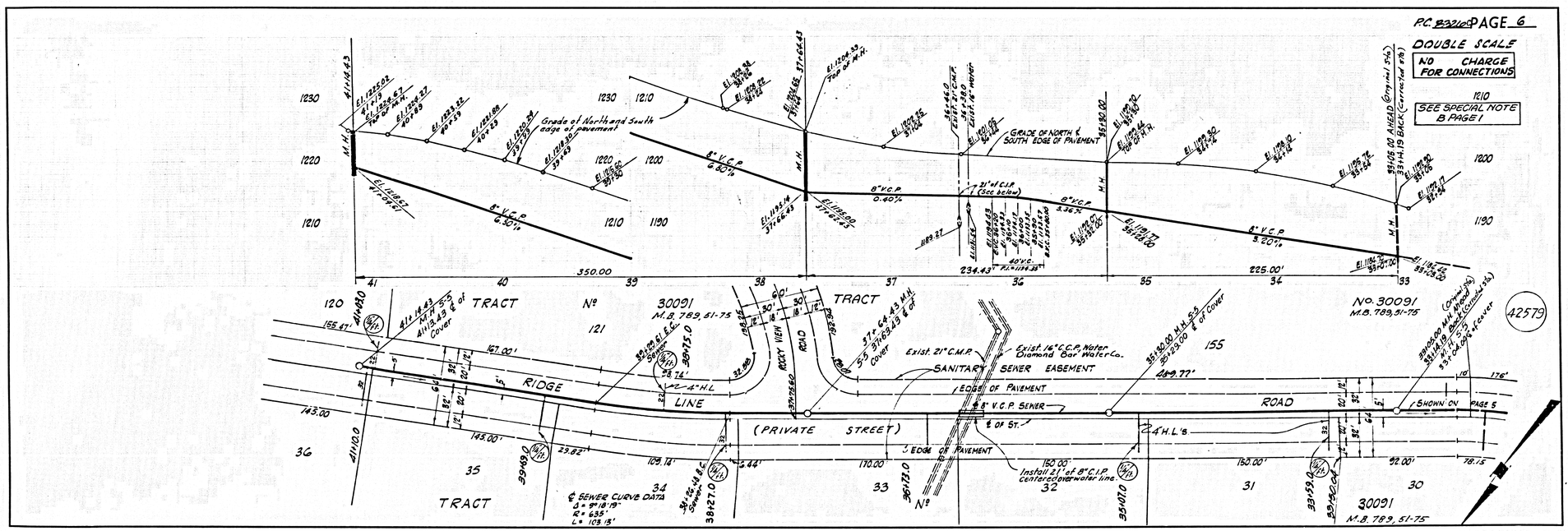
42577

160 — 25+50.0 — 117.00' — Page 5 — ℄ ST. — RIDGE — EDGE OF PAVEMENT — 150.73' — 24+68.0 — 24+59.12 — 53 @ 25+50.23 MH ℄ of Cover — 53 @ 23+79.29 MH ℄ of Cover — 23+80.94 M.H. 5.5 @ 23+79.29 ℄ of Cover — 24" V.C.P. SEWER ℄ — 161 — 23+95.0 — 64.00' — 51.29' — 162 — 22+85.0 — 83.76' — 163 — 22+00.0 — 53.83' — 64.00' — 22+13.0 — 94.29' — SEWER CURVE DATA Δ = 23° 28' 47" R = 305' L = 124.99' — 164 — 119.00' — 20+58.0 — 20+58.94 M.H. 5.5 @ 20+23.94 ℄ of Cover — 165 — 91.34' — 8" V.C.P. SEWER — 75.00' — 70.74' — 19+74.0 — SEWER CURVE DATA Δ = 18° 46' R = 245' L = 146.03 — 19+44.25 W.P.M.E.S. — 166 — 18+84.85 M.H. 5.5 @ 18+60.85 ℄ of Cover — 77.19' — 18+70 — 68.00' — 63.50' — 18+28.0 — 167 — 17+00.0 — SANITARY SEWER EASEMENT — 120.00' — 4" H.L.'s — 8" V.C.P. SEWER — ℄ ST. — 168 — 15+80.0 — 8" M.H. 6' Cover — 15+51.11 — 139.69' — 169 — 30.00' — PAGE 3 — 42577 — 26 25 24 23 22 21 20 19 18

TRACT No 30091 M.B. 789, 51-75

L.A. COUNTY SEWER SHEET NO. 2





L.A. COUNTY SEWER SHEET NO. 2

P.C. 8326C PAGE 7

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

SEE SPECIAL NOTE B PAGE 1

42580

TRACT Nº 30091 M.B. 789, 51-75

IDENTICAL

IDENTICAL POINTS

EXIST. 10" V.C.P. SEWER, P.C. 8260

FUTURE STREET

P.C. 8326 PAGE 8

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

SEE SPECIAL NOTES A & B PAGE 1

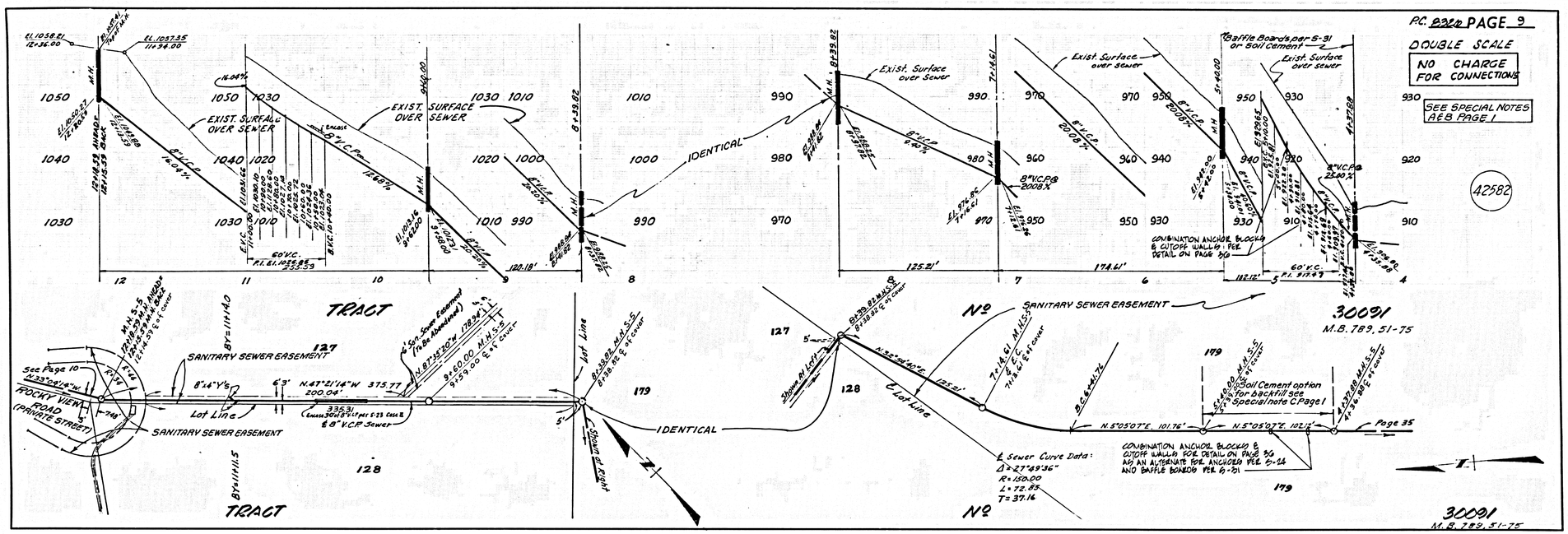
42581

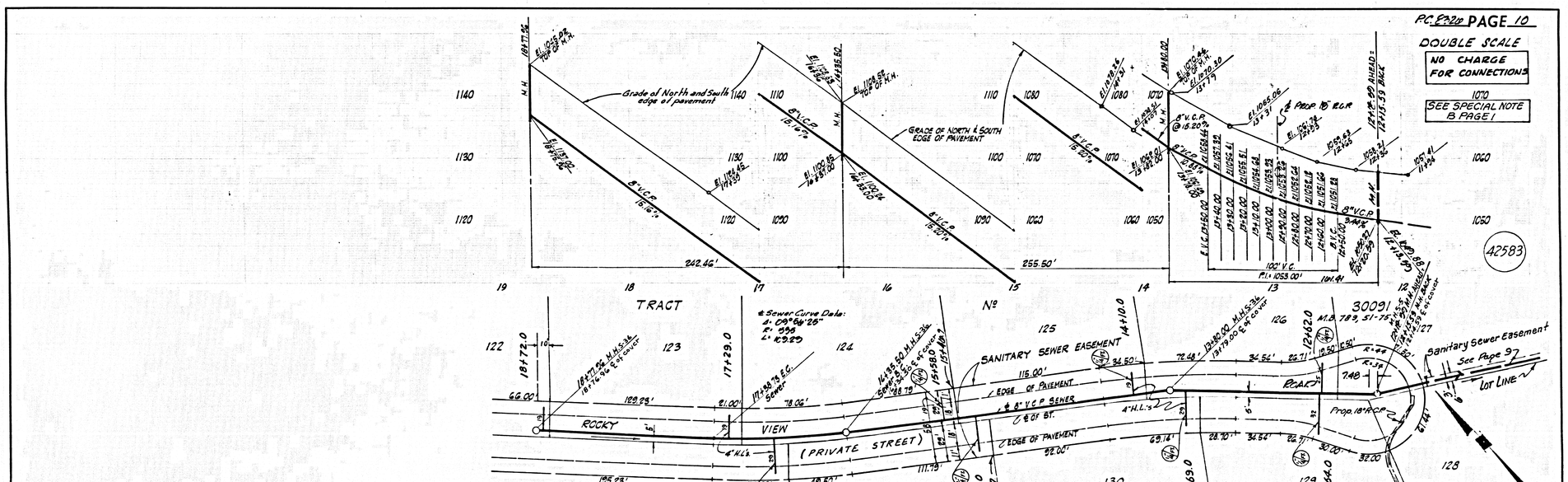
TRACT Nº 30091 M.B. 789, 51-75

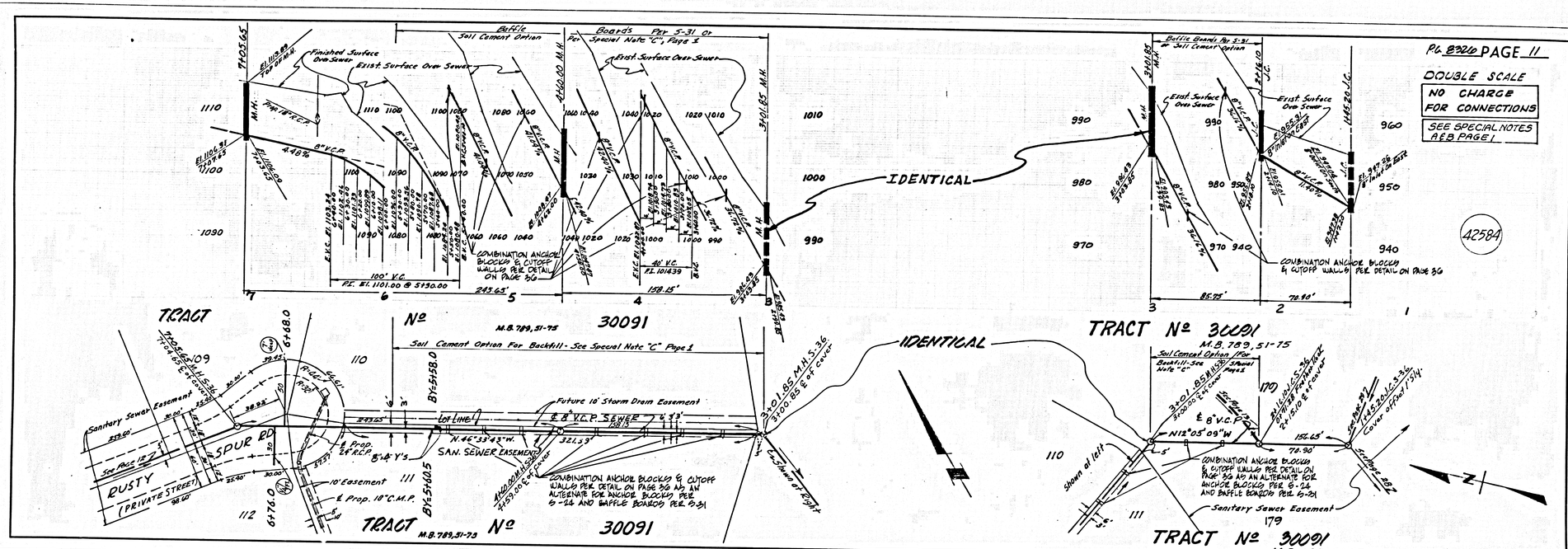
IDENTICAL

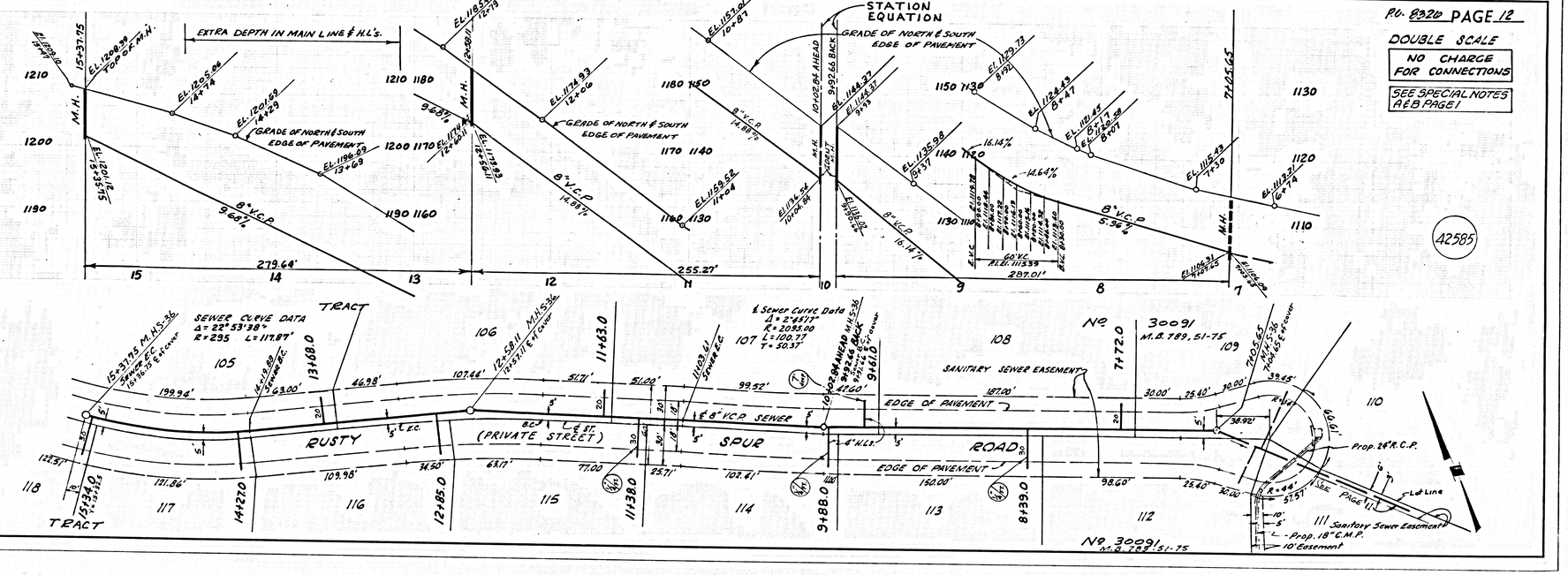
IDENTICAL POINTS

L.A. COUNTY SEWER SHEET NO. 2


P.C. B320 PAGE 9
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES A&B PAGE 1
42582
TRACT
IDENTICAL
Nº
30091
M.B. 789, 51-75
SANITARY SEWER EASEMENT
ROCKY VIEW ROAD (PRIVATE STREET)
Lot Line
Shown at Right
See Page 10
Page 35
Exist. Surface over Sewer
Baffle Boards per S-91 or Soil Cement
COMBINATION ANCHOR BLOCKS & CUTOFF WALLS PER DETAIL ON PAGE 3/0
60' V.C.
8" V.C.P.
Sewer Curve Data:
Δ = 27°49'36"
R = 150.00
L = 72.85
T = 37.16


P.C. B320 PAGE 10
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTE B PAGE 1
42583
TRACT
Nº
30091
M.B. 789, 51-75
Grade of North and South edge of pavement
GRADE OF NORTH & SOUTH EDGE OF PAVEMENT
ROCKY VIEW (PRIVATE STREET)
ROAD
SANITARY SEWER EASEMENT
Lot Line
Sanitary Sewer Easement See Page 97
Prop. 18" RCP
Prop. 18" C.M.P.
Sewer Curve Data:
Δ = 09°54'26"
R = 595
L = 102.90
8" V.C.P.
8" V.C.P. SEWER
4" H.L.S.


TRACT Nº 30091
M.B. 789, 51-75
IDENTICAL
Soil Cement Option For Backfill - See Special Note "C" Page 1
Finished Surface Over Sewer
Exist. Surface Over Sewer
COMBINATION ANCHOR BLOCKS & CUTOFF WALLS PER DETAIL ON PAGE 36
SEE SPECIAL NOTES A&B PAGE 1
RUSTY SPUR RD (PRIVATE STREET)
SAN. SEWER EASEMENT
Future 10' Storm Drain Easement
Sanitary Sewer Easement
Lot Line
10' Easement
Prop. 18" C.M.P.
Prop. 24" R.C.P.
8" V.C.P. SEWER
N 46°33'43" W.
N12°05'09"W
Shown at left
PG. 8320 PAGE 11
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
42584


STATION EQUATION
GRADE OF NORTH & SOUTH EDGE OF PAVEMENT
EXTRA DEPTH IN MAIN LINE & H.L.'s.
8" V.C.P.
SEWER CURVE DATA
Δ = 22°53'38"
R = 295 L = 117.87'
& Sewer Curve Data
Δ = 2°45'17"
R = 2095.00
L = 100.77
T = 50.37
SANITARY SEWER EASEMENT
EDGE OF PAVEMENT
RUSTY (PRIVATE STREET) SPUR ROAD
Prop. 28' R.C.P.
Lot Line
Sanitary Sewer Easement
Prop. 18" C.M.P.
10' Easement
SEE PAGE 1
TRACT
Nº 30091
M.B. 789, 51-75
PG. 8320 PAGE 12
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES A&B PAGE 1
42585

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

SEE SPECIAL NOTES A & B ON PAGE 1

42586

TRACT No 30091 M.B. 789, 51-75

IDENTICAL

TRACT No 30091 M.B. 789, 51-75

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

SEE SPECIAL NOTES A & B ON PAGE 1

42587

TRACT No 30091 M.B. 789, 51-75

IDENTICAL POINTS

TRACT No 30091 M.B. 789, 51-75

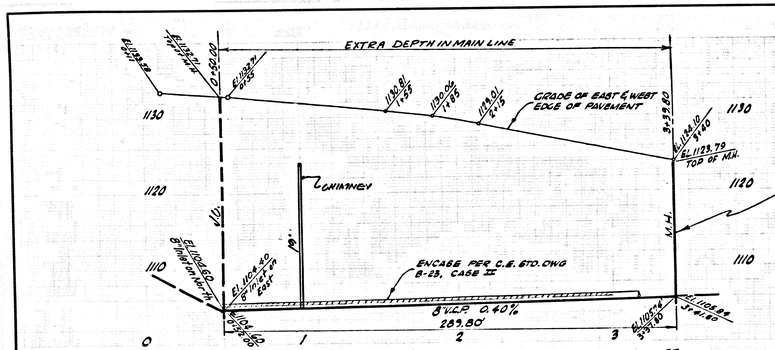
P.C. 8926 PAGE 15

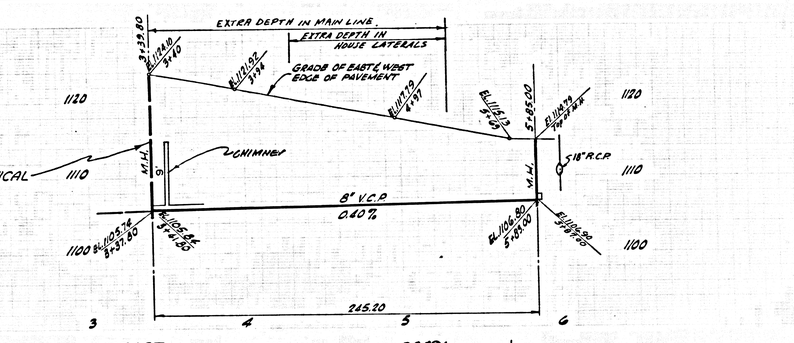
DOUBLE SCALE

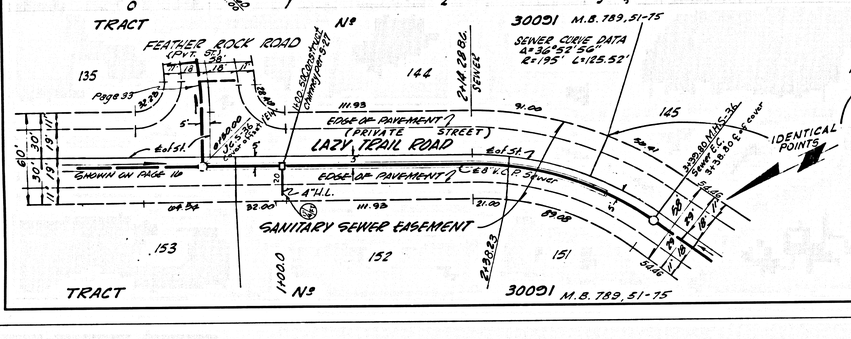
NO CHARGE FOR CONNECTIONS

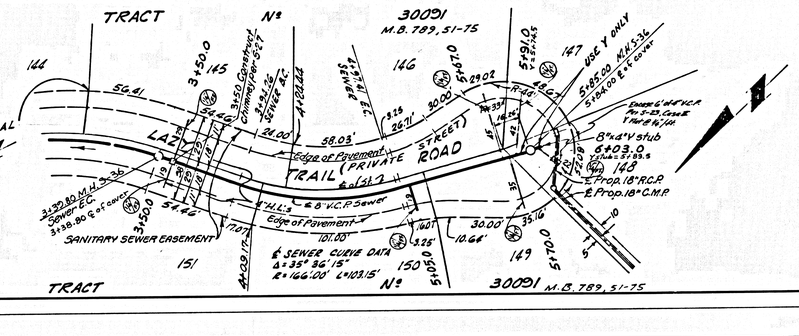
SEE SPECIAL NOTES A & B ON PAGE 1

42588









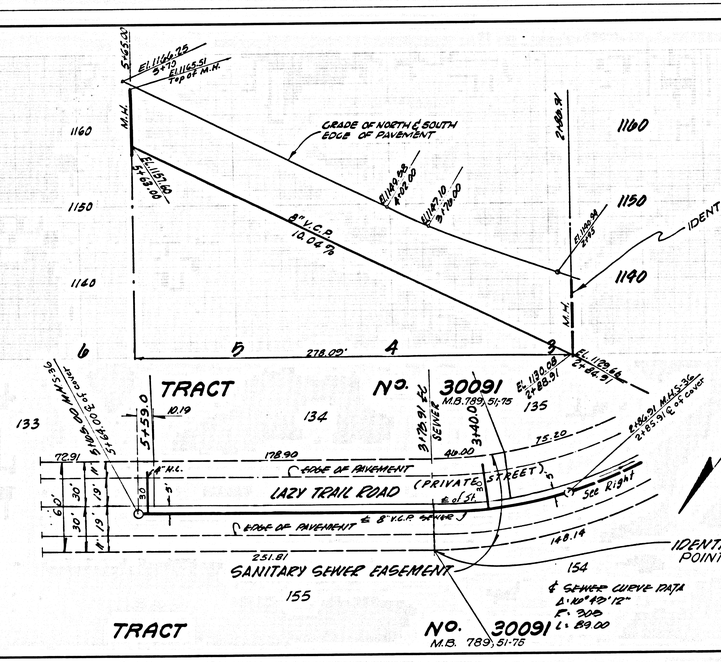
P.C. 8926 PAGE 16

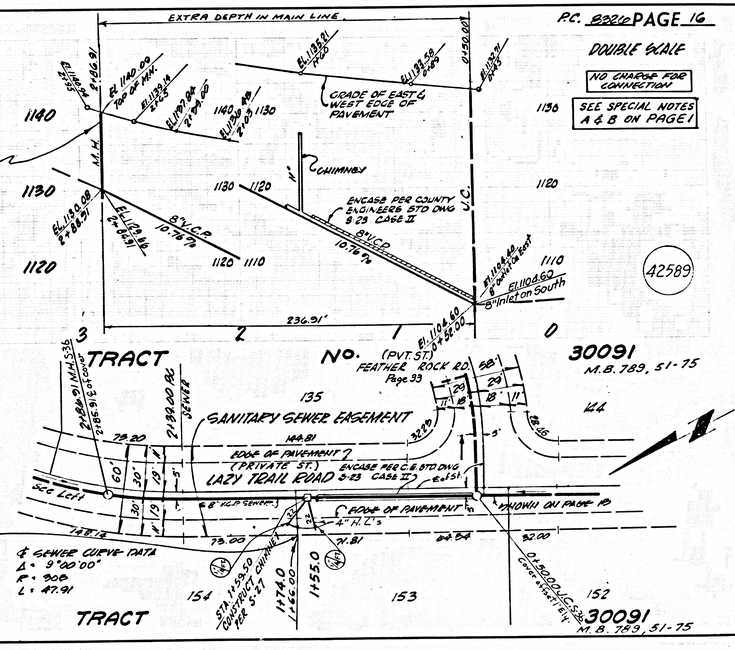
DOUBLE SCALE

NO CHARGE FOR CONNECTION

SEE SPECIAL NOTES A & B ON PAGE 1

42589





SEE SPECIAL NOTES A & B PAGE 1 | NO CHARGE FOR CONNECTIONS | DOUBLE SCALE

GRADE OF NORTH & SOUTH EDGE OF PAVEMENT

8" V.C.P. 6.6%

8" V.C.P. 10.32%

8" V.C.P. 13.80%

8" V.C.P. 0.40%

146.09' | 145.05' | 350.00' | 284.29'

42590

TRACT 59 | TRACT 82 | TRACT 83 | TRACT 77 | TRACT 65

Nº 30091 M.B. 789, 51-75

RIDGE LINE ROAD (PRIVATE STREET)

SANITARY SEWER EASEMENT

SEWER CURVE DATA
Δ = 23° 49' 32"
R = 295'
L = 122.67'

℄ SEWER CURVE DATA
Δ = 33° 23' 52"
R = 305'
L = 177.78'

SEWER CURVE DATA
Δ = 37° 41' 36"
R = 295'
L = 194.16'

DERRINGER LANE

Served by Sewer Page 24

Edge of Pavement

℄ of St.

4" H.L.

8" V.C.P. SEWER

Grade of North & South Edge of Pavement

EXTRA DEPTH IN HOUSE LATERALS

EXTRA DEPTH IN MAIN LINE

EXTRA DEPTH IN MAIN LINE & M.H.

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

SEE SPECIAL NOTES A & B, PAGE 1

GRADE OF NORTH & SOUTH EDGE OF PAVEMENT

CHIMNEY

ENCASE

IDENTICAL

8" V.C.P. 0.40%

18" R.C.P.

42591

TRACT 55 | TRACT 88 | TRACT 87 | TRACT 56 | TRACT 85 | TRACT 84 | TRACT 83 | TRACT 82

Nº 30091 M.B. 789, 51-75

SEWER CURVE DATA
Δ = 56° 48' 34"
R = 355'
L = 351.99'

RIDGE LINE ROAD (PRIVATE STREET)

SANITARY SEWER EASEMENT

Edge of Pavement

℄ of St.

4" H.L.

8" V.C.P. SEWER

Prop. 18" C.M.P.

Prop. 18" R.C.P.

Encase 190' of 8" V.C.P. Per S-23 Case II.

See Page 19

See Page 17B

L.A. COUNTY SEWER SHEET NO. 2

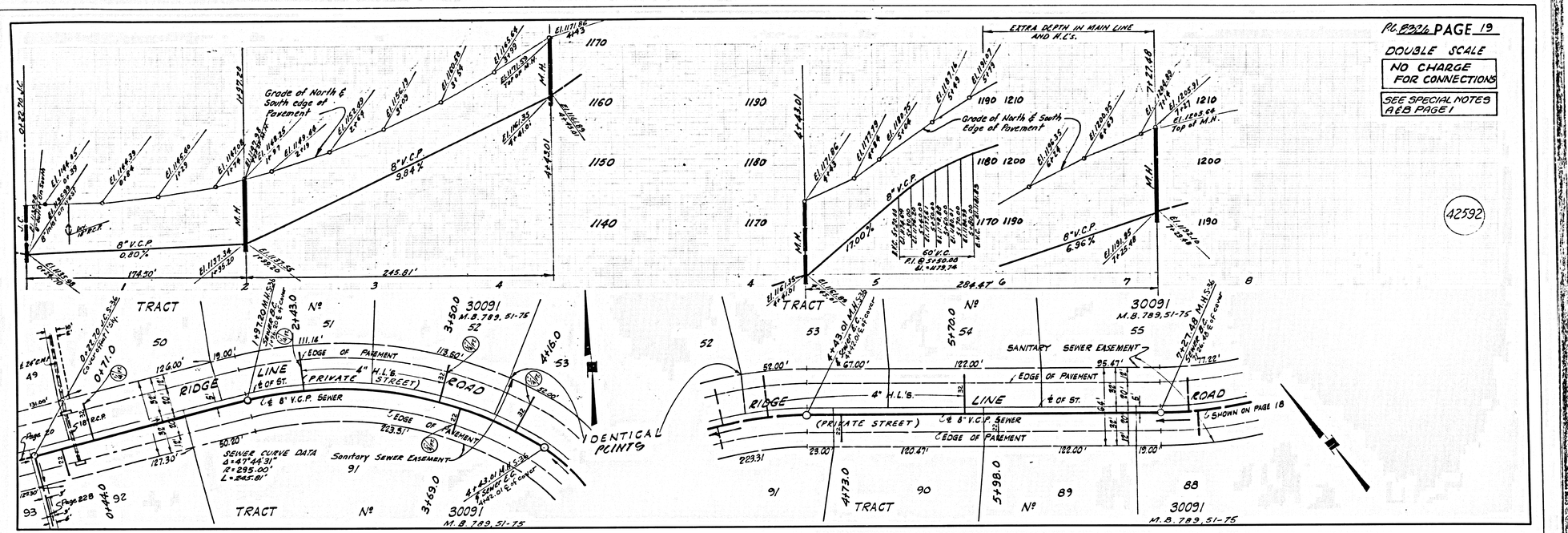
Pl. 2326 PAGE 19

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

SEE SPECIAL NOTES A&B PAGE 1

42592



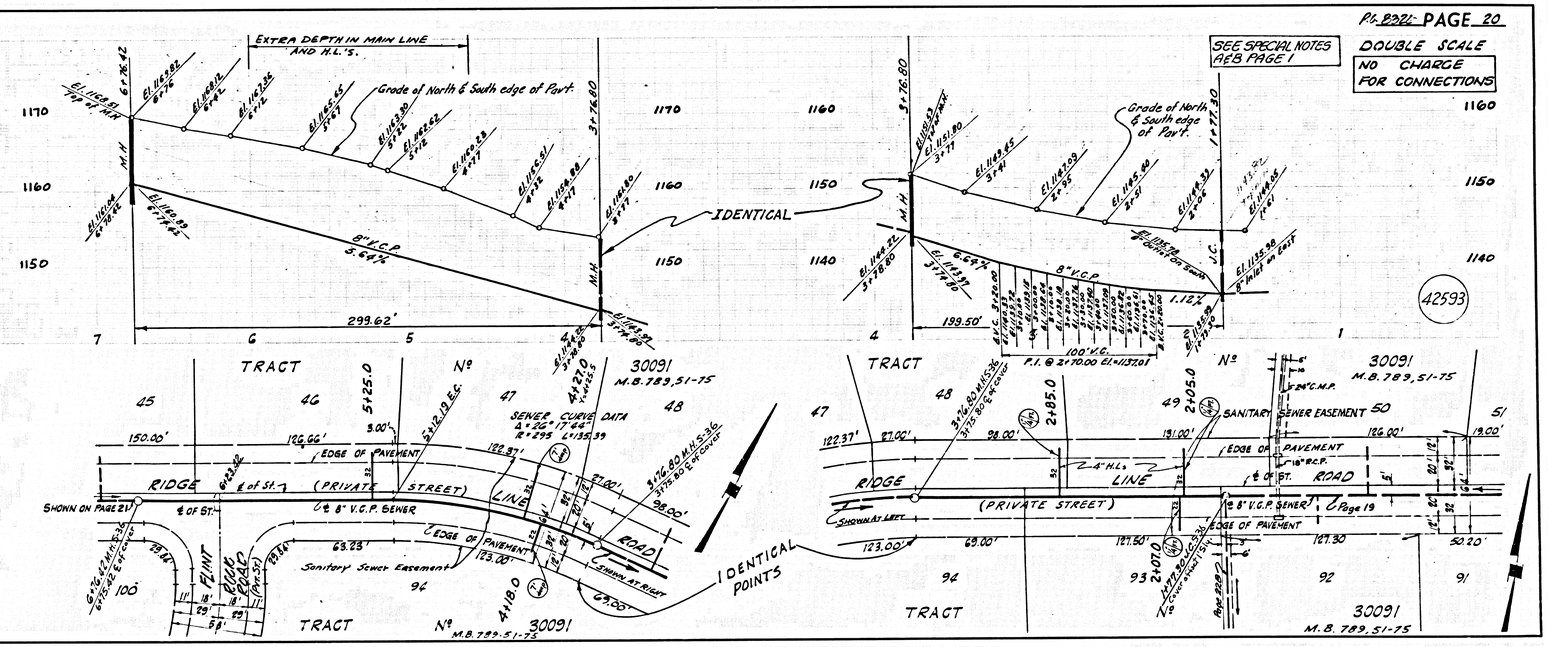
Pl. 2326 PAGE 20

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

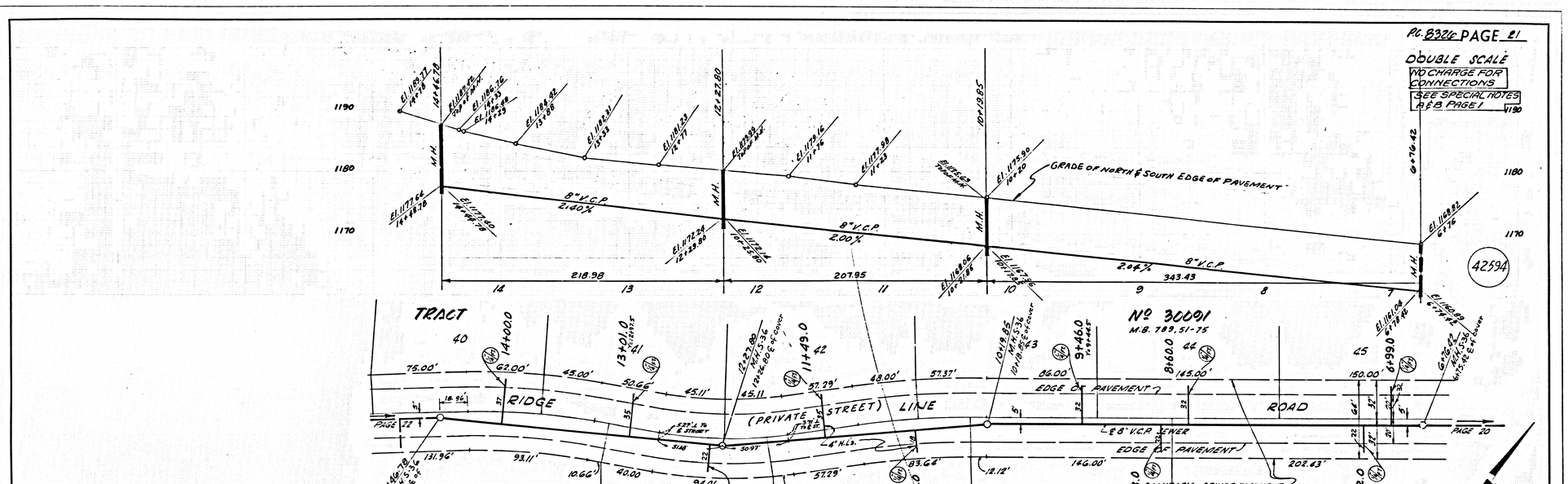
SEE SPECIAL NOTES A&B PAGE 1

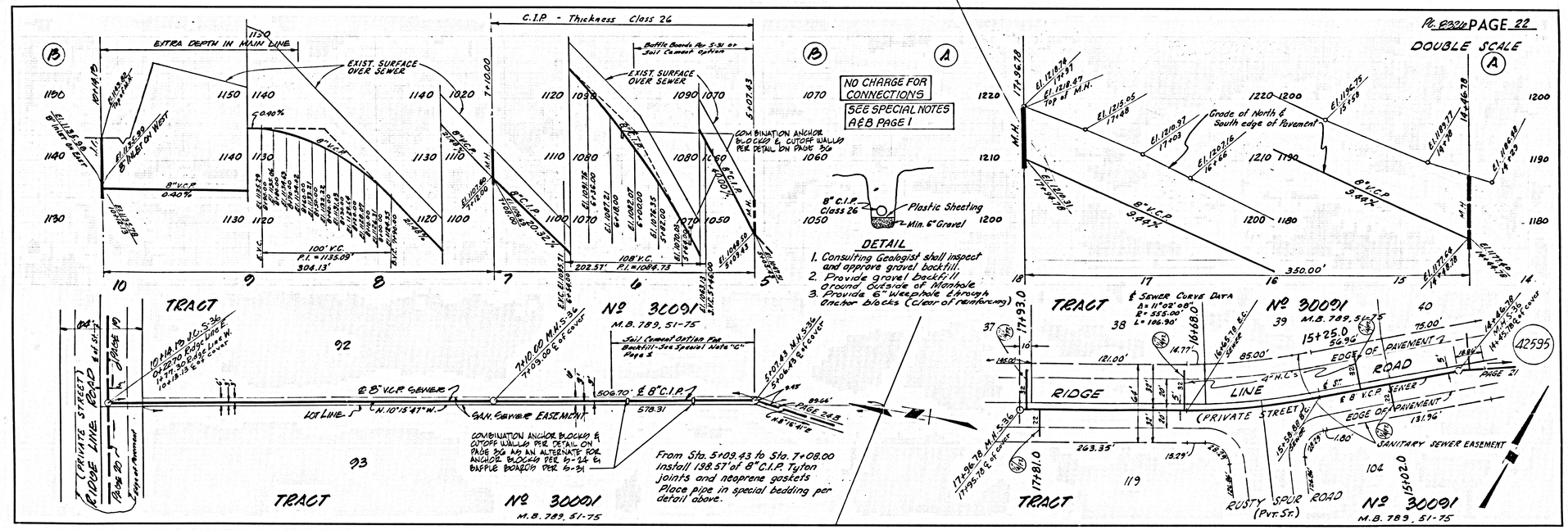
42593



L.A. COUNTY SEWER SHEET NO. 2

111





L.A. COUNTY SEWER SHEET NO. 2

DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES A & B ON PAGE 1.

EXTRA DEPTH IN MAIN LINE AND H.L.'S.

GRADE OF EAST & WEST EDGE OF PAVEMENT

IDENTICAL

IDENTICAL POINTS

335.80'

150.00

154.09

42596

TRACT No 30091 M.B. 789, 51-75

DERRINGER (PRIVATE STREET) LANE

EDGE OF PAVEMENT

SANITARY SEWER EASEMENT

SEWER CURVE DATA Δ = 24°39'50" R = 295' L = 126.99

SEWER CURVE DATA Δ = 28°10'48" R = 305' L = 150'

SEWER CURVE DATA Δ = 28°56'47" R = 305' L = 154.09'

This lot served from Page 32

LODGE POLE ROAD (PVT.)

SEE PAGE 32

DOUBLE SCALE
(A) NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES A & B ON PAGE 1.

EXTRA DEPTH IN MAIN LINE AND H.L.'S.

289.67

42597

Sanitary Sewer Easement

From Sta. 4+51.43 to Sta. 5+05.43 Install 54' of 8" C.I.P. with Tyton joints and neoprene gaskets. Place pipe in special bedding per detail on page 22.B. Special Bedding from Sta 4+55.43 to Sta. 5+05.43

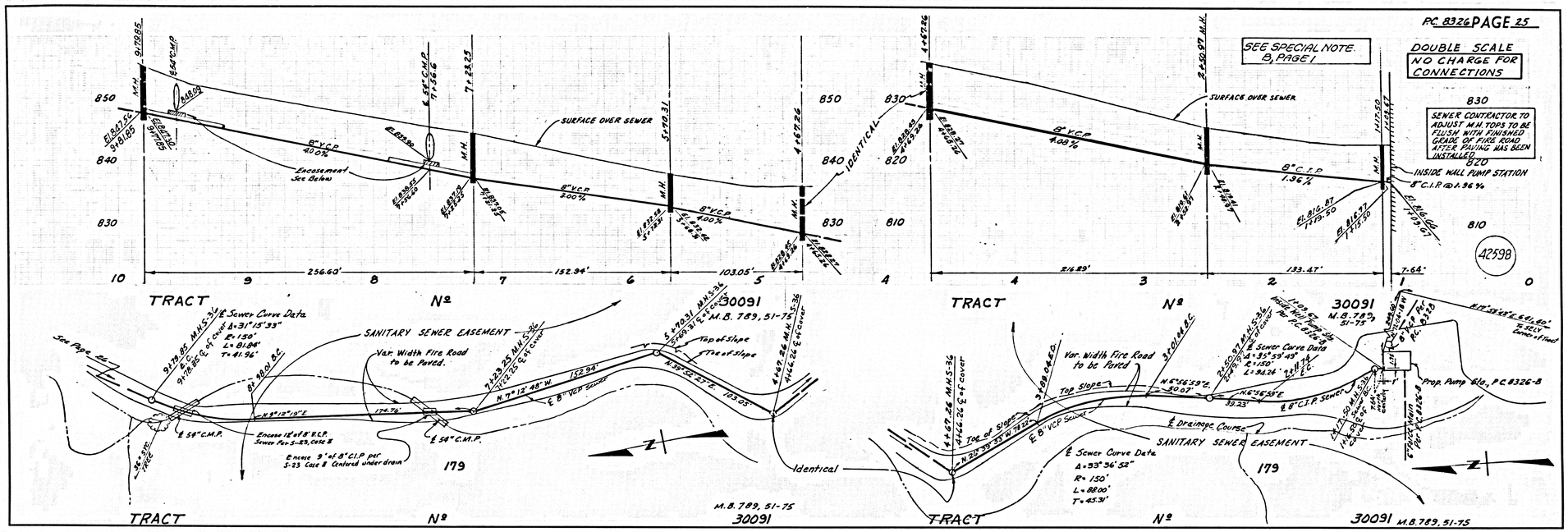
SEWER CURVE DATA Δ = 7°48'54" R = 150 L = 20.46, T = 10.24

RIDGE LINE ROAD

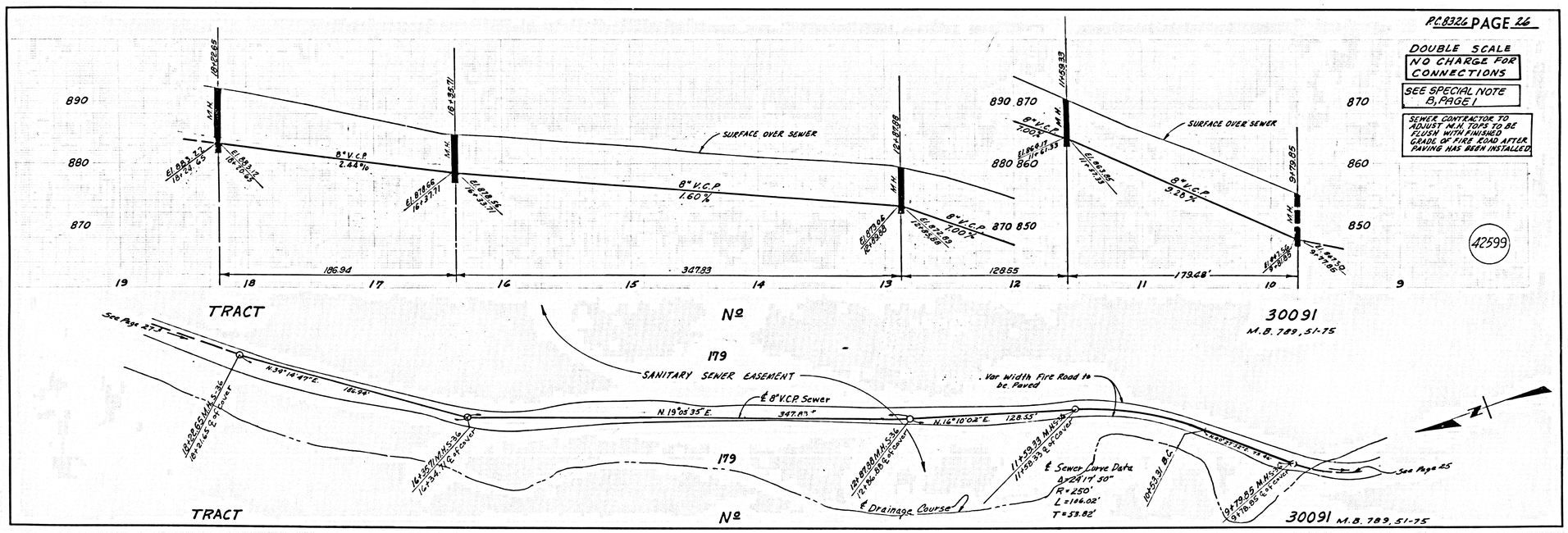
PAGE 22.B

PAGE 13

P.C. 8326 PAGE 25



P.C. 8326 PAGE 26

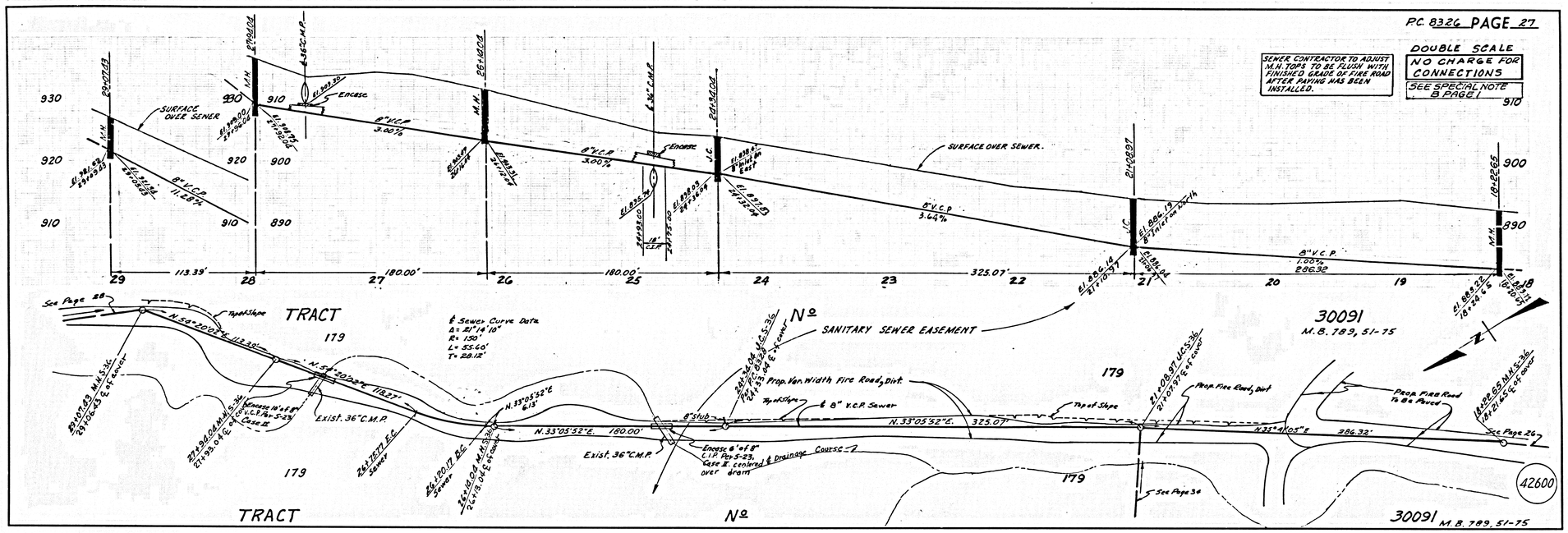


L.A. COUNTY SEWER SHEET NO. 2

P.C. 8326 PAGE 27

DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTE B PAGE 1

SEWER CONTRACTOR TO ADJUST M.H. TOPS TO BE FLUSH WITH FINISHED GRADE OF FIRE ROAD AFTER PAVING HAS BEEN INSTALLED.

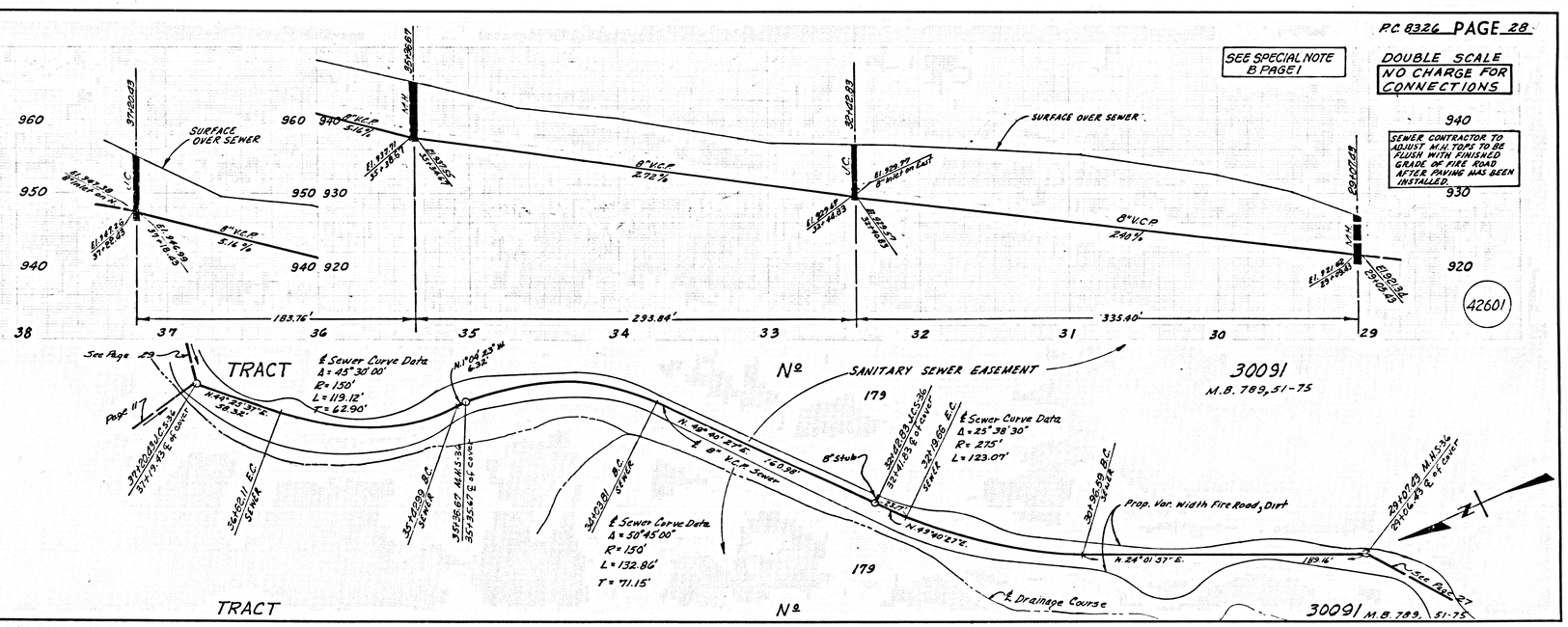


P.C. 8326 PAGE 28

SEE SPECIAL NOTE B PAGE 1

DOUBLE SCALE
NO CHARGE FOR CONNECTIONS

SEWER CONTRACTOR TO ADJUST M.H. TOPS TO BE FLUSH WITH FINISHED GRADE OF FIRE ROAD AFTER PAVING HAS BEEN INSTALLED.



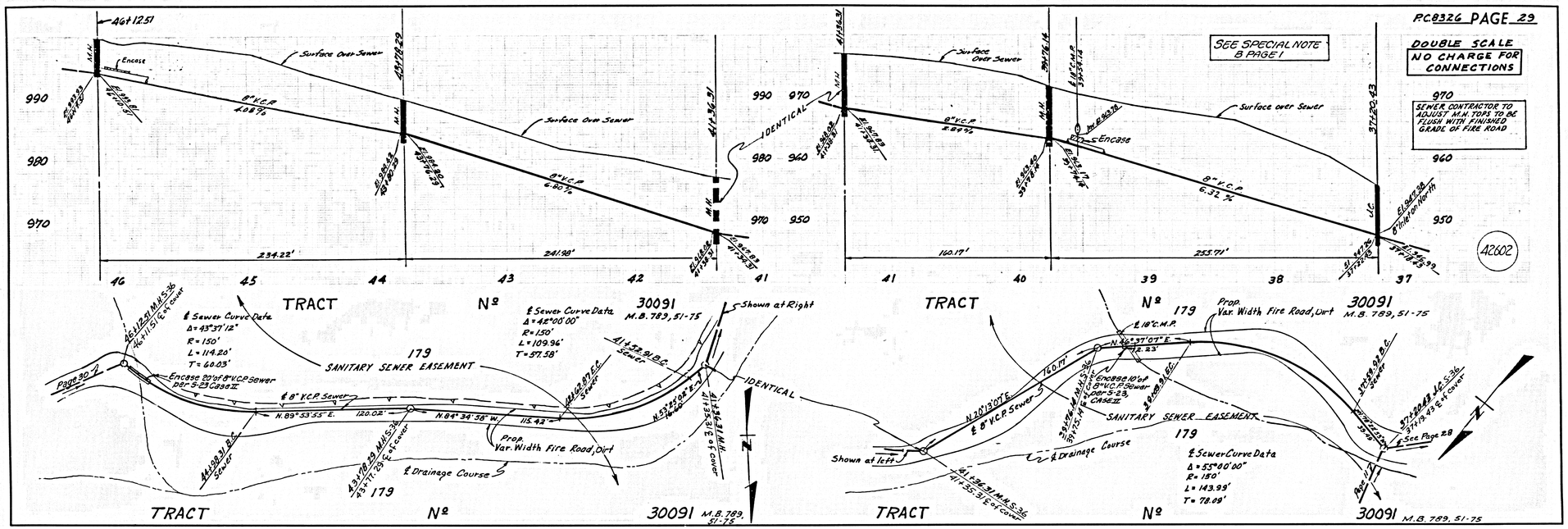
P.C.8326 PAGE 29

DOUBLE SCALE
NO CHARGE FOR CONNECTIONS

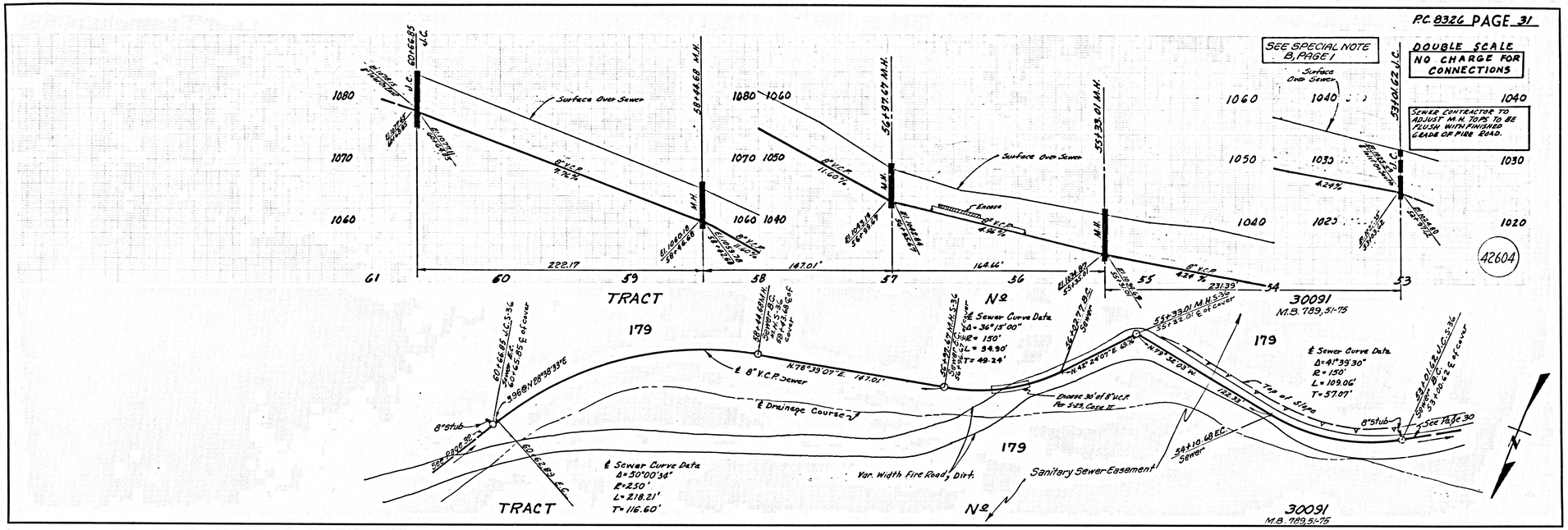
SEE SPECIAL NOTE B PAGE 1

SEWER CONTRACTOR TO ADJUST M.H. TOPS TO BE FLUSH WITH FINISHED GRADE OF FIRE ROAD

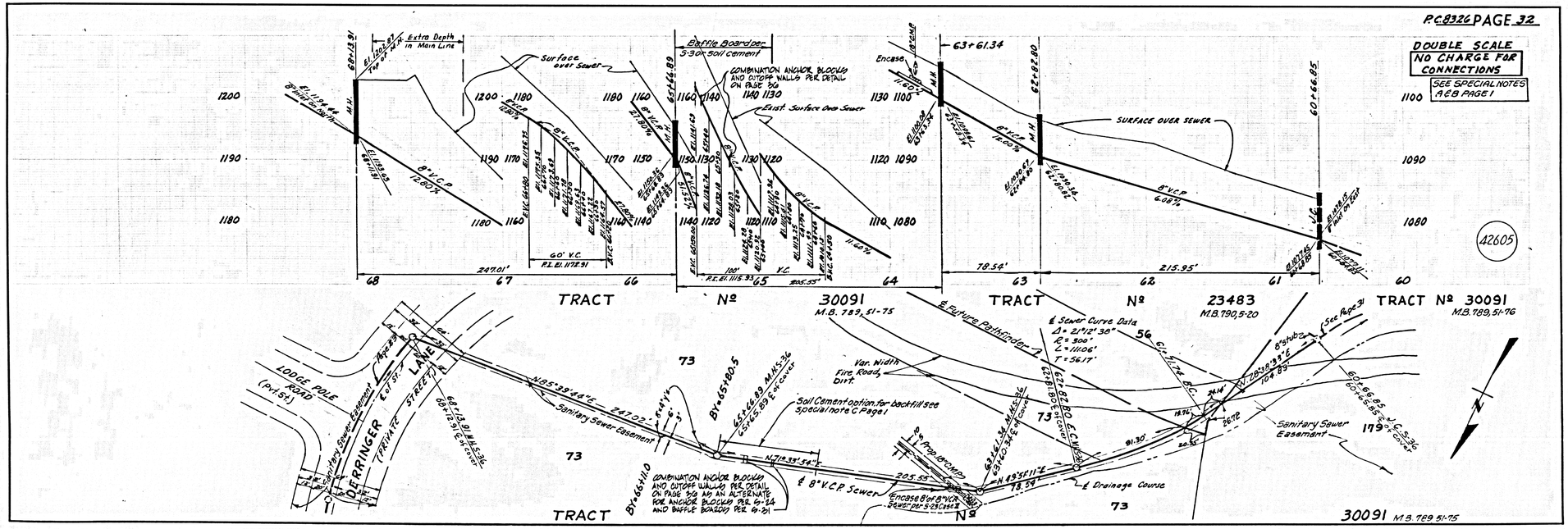
42602


TRACT
Nº
30091
M.B. 789, 51-75
179
SANITARY SEWER EASEMENT
IDENTICAL
Shown at Right
Shown at left
Prop. Var. Width Fire Road, Dirt
℄ Drainage Course
℄ Sewer Curve Data
Δ = 43°37'12"
R = 150'
L = 114.20'
T = 60.03'
Δ = 42°06'00"
R = 150'
L = 109.96'
T = 57.58'
Δ = 55°00'00"
R = 150'
L = 143.99'
T = 78.09'
℄ 8" V.C.P. Sewer
℄ 8" V.C.P Sewer
Encase 20'of 8"V.C.P Sewer per S-23 Case II
℄ 18" C.M.P.
Encase 10'of 18"C.M.P. Sewer per S-23, Case II
Surface Over Sewer
Surface over Sewer
8" V.C.P 6.90%
8" V.C.P 6.32%
8" V.C.P 4.08%
N. 89° 33' 55" E. 120.02'
N. 84° 34' 58" W. 115.43'
N. 20° 13' 07" E. 160.17'
N. 45° 37' 07" E. 42.23'
Page 30
See Page 28
234.22'
241.98'
160.19'
255.71'
42 M.H.
43 M.H.
39 M.H.
40 M.H.
41 M.H.
Rim Elev. 1012.63
Rim Elev. 1006.14
Rim Elev. 1006.43
Rim Elev. 1006.91
Rim Elev. 1006.39

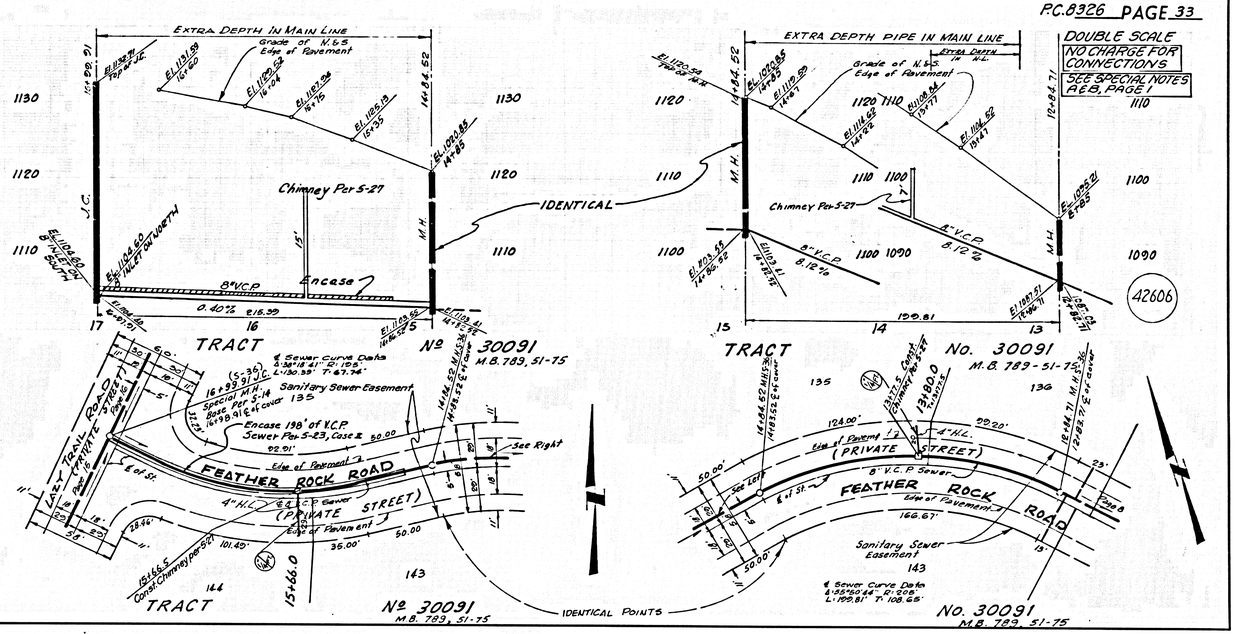
P.C. 8326 PAGE 31



P.C. 8326 PAGE 32

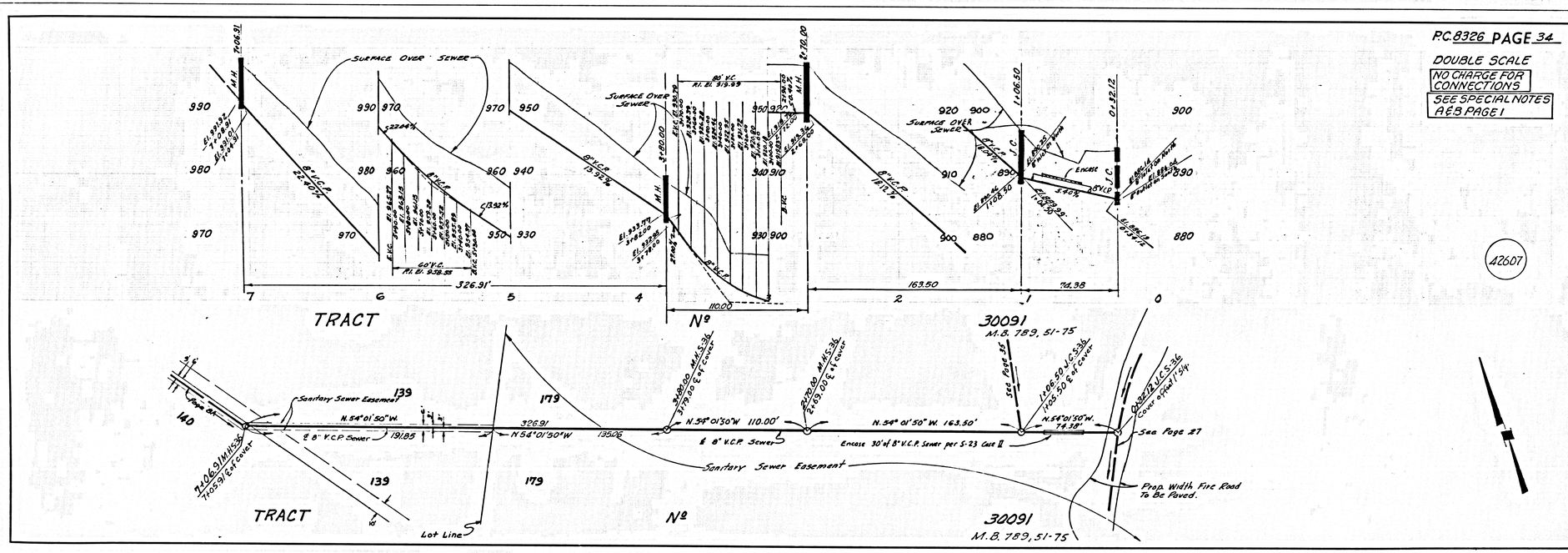


P.C.8326 PAGE 33



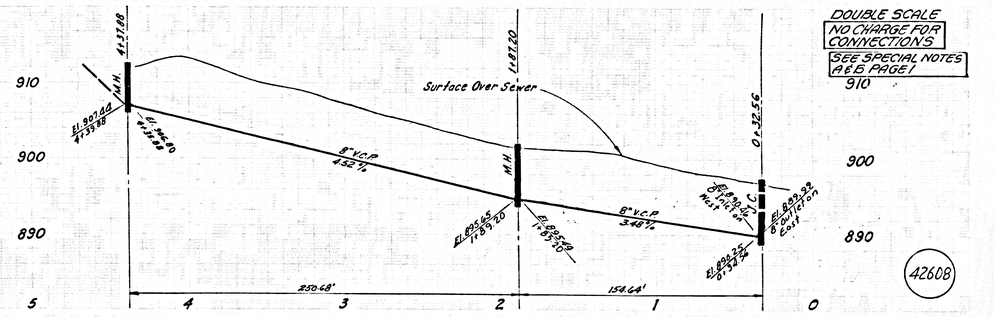
P.C.8326 PAGE 34

DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES A&B PAGE 1



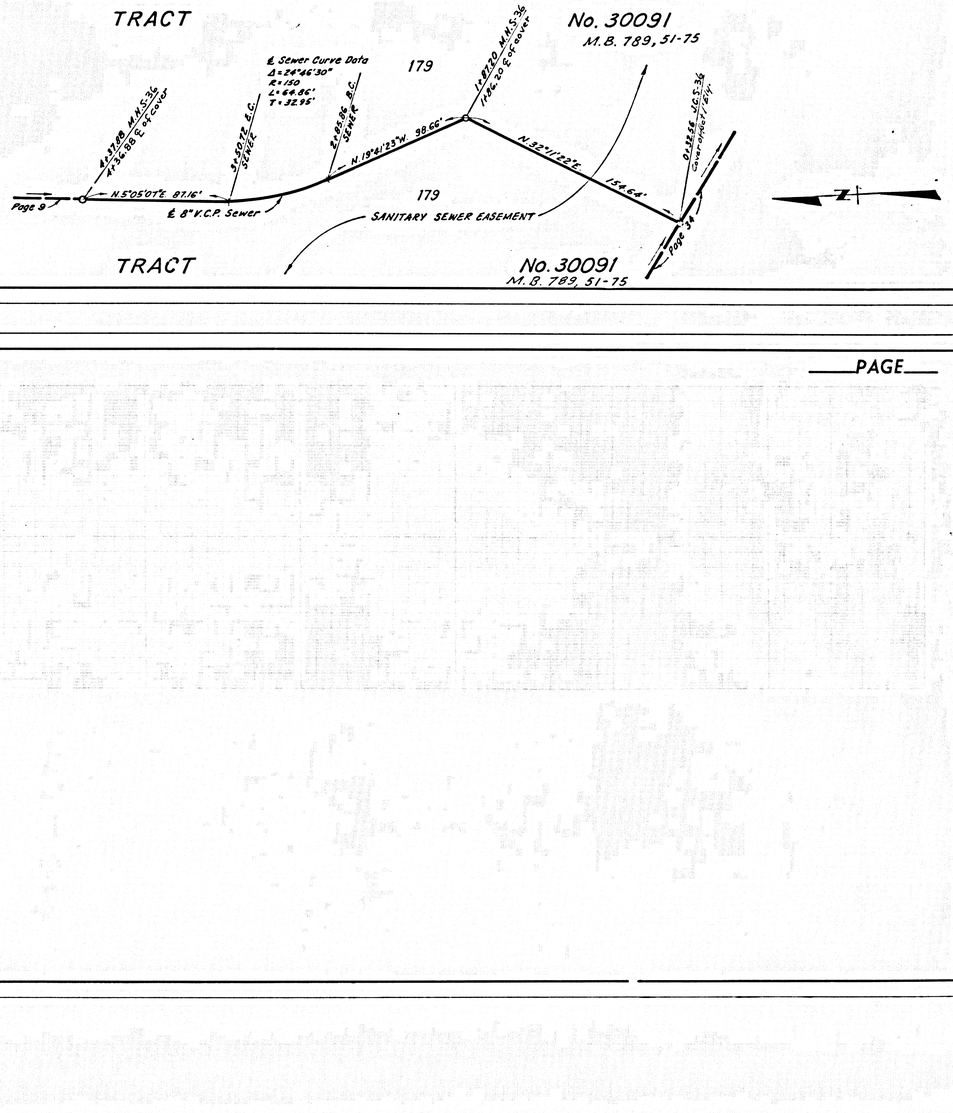
PC.8326 PAGE 35

DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
SEE SPECIAL NOTES P.E.B. PAGE 1



42608

TRACT No. 30091
M.B. 789, 51-75


℄ Sewer Curve Data
Δ=24°46'30"
R=150
L=64.86'
T=32.95'
179
N.5°05'01"E. 87.16'
℄ 8" V.C.P. Sewer
N.19°41'23"W. 98.66'
N.32°11'29"E. 154.64'
179
SANITARY SEWER EASEMENT
Page 9
Page 34

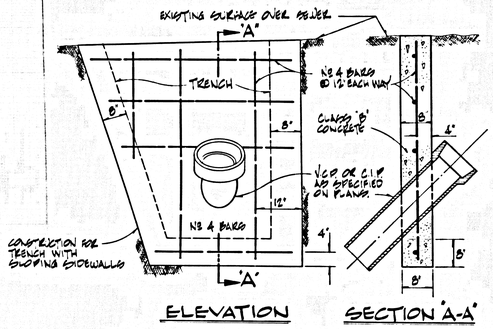
TRACT No. 30091
M.B. 789, 51-75

PAGE

P.C. 8326 PAGE 36

COMBINED ANCHOR BLOCK AND CUT OFF WALL

TO BE USED WHEN SEWER GRADE IS GREATER THAN 30%, OR WHEN DESIGNATED ON THE PLAN



ELEVATION SECTION 'A-A'

NOTES:

1. TO BE USED AS AN ALTERNATE FOR ANCHOR BLOCKS PER S-24 AND BAFFLE BOARDS PER S-31
2. ANY METHOD OF FORMING MAY BE USED PROVIDED THE MINIMUM DIMENSIONS ARE MET.
3. ALL DIMENSIONS SHOWN ARE MINIMUM.
4. TOP OF CUTOFF WALL CAN BE 0' MAXIMUM BELOW FINISH SURFACE OVER SEWER.

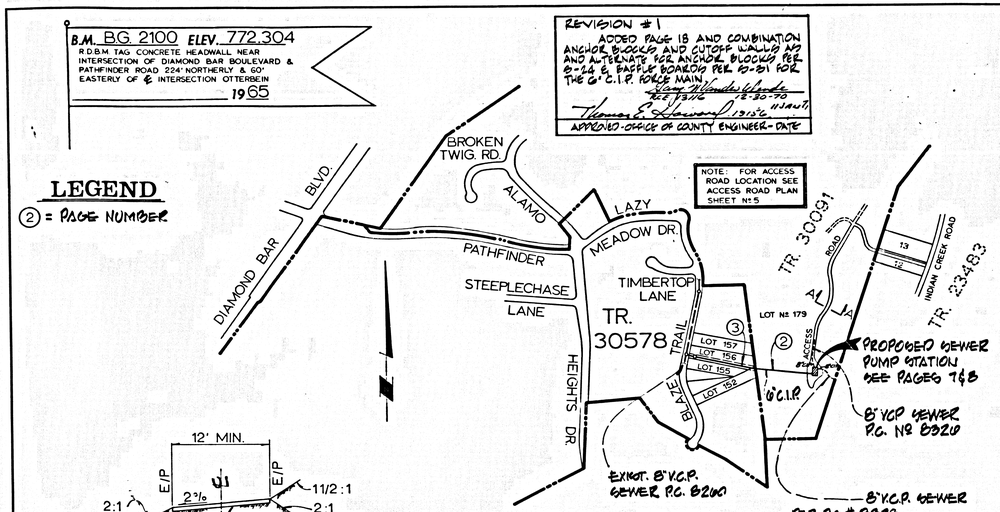
42609

PAGE

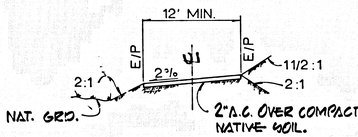
B.M. BG 2100 ELEV. 772.304
R.D.B.M. TAG CONCRETE HEADWALL NEAR INTERSECTION OF DIAMOND BAR BOULEVARD & PATHFINDER ROAD 224' NORTHERLY & 60' EASTERLY OF ℄ INTERSECTION OTTERSEIN 1965

REVISION #1
ADDED PAGE 18 AND COMBINATION ANCHOR BLOCKS AND CUTOFF WALLS AND ALTERNATE FOR ANCHOR BLOCKS PER S-7.6 & BAFFLE BOARDS PER S-7.21 FOR THE 6" C.I.P. FORCE MAIN
Gary Wendle Brady 12-30-70
Thomas E. Stevens 12-31-70
APPROVED-OFFICE OF COUNTY ENGINEER-DATE

LEGEND
② = PAGE NUMBER



NOTE: FOR ACCESS ROAD LOCATION SEE ACCESS ROAD PLAN SHEET Nº 5



SECTION A-A
NO SCALE

KEY MAP
P.C. 8326B
SCALE 1"=600'

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.

DOUBLE SCALE
SAN DIMAS BLDG. DIST. NO. 10

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 PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THOSE 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.
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. 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.
7. ALL STRUCTURES SHALL BE BRICK MANHOLES PER COUNTY ENG. STD. S-3
8. "Y" OR "T" BRANCHES MAY BE USED FOR CONNECTIONS TO MAIN LINE SEWERS EXCEPT AS NOTED
9. SEWERS TO BE TESTED BY AIR PRESSURE METHOD FOR LEAKAGE PER SEC. 306-2.3.7.C OF STD. SPECS. (COUNTY SEWER)
10. USE EXTRA STRENGTH PIPE. ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
11. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D", "F" OR "G" PER STD. SPECS. SEC. 208-2
12. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
13. 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, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
14. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
15. REFER TO SEC. 7-10.4.1 OF THE STD. SPECS. REGARDING SAFETY ORDERS.
16. 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 TRACT 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 TEST D698-57T AS MODIFIED ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION
17. RESURFACE BLAZE TRAIL WITH 4" A.C. OVER NAT. SOIL COMPACTED
18. THE CONSULTANT SOILS ENGINEER AND SOIL ENGINEER MUST INSPECT AND APPROVE THE EXCAVATION & BACKFILL FOR THE PUMP STATION AND THE FORCE MAIN AND SUBMIT REPORT TO THE SOILS SECTION OF THE COUNTY ENGINEER FOR REVIEW AND APPROVAL.

County Sanitation Districts shall be notified prior to the following so that required inspection can be made (Phone 837-1025 or ~~564-3097~~)
Acceptance of the project.

ISSUE NO HOUSE CONNECTION PERMITS

NOTICE TO CONTRACTOR
The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans.
The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.
J. M. Dodds R.C.E. 14814

PROFILE ALIGNMENT AND GRADE OF
SANITARY SEWERS
CONSTRUCTED IN
TRACT NO. 30091
PRIVATE CONTRACT NO. 8326B
W.S.
18 SHEETS, 19 PAGES
SCALE: VERT. 1"=8' (EXCEPT AS NOTED) HORIZ. 1"=40' SEPT. 1970

P.C. 8326B
PAGE 1

43043

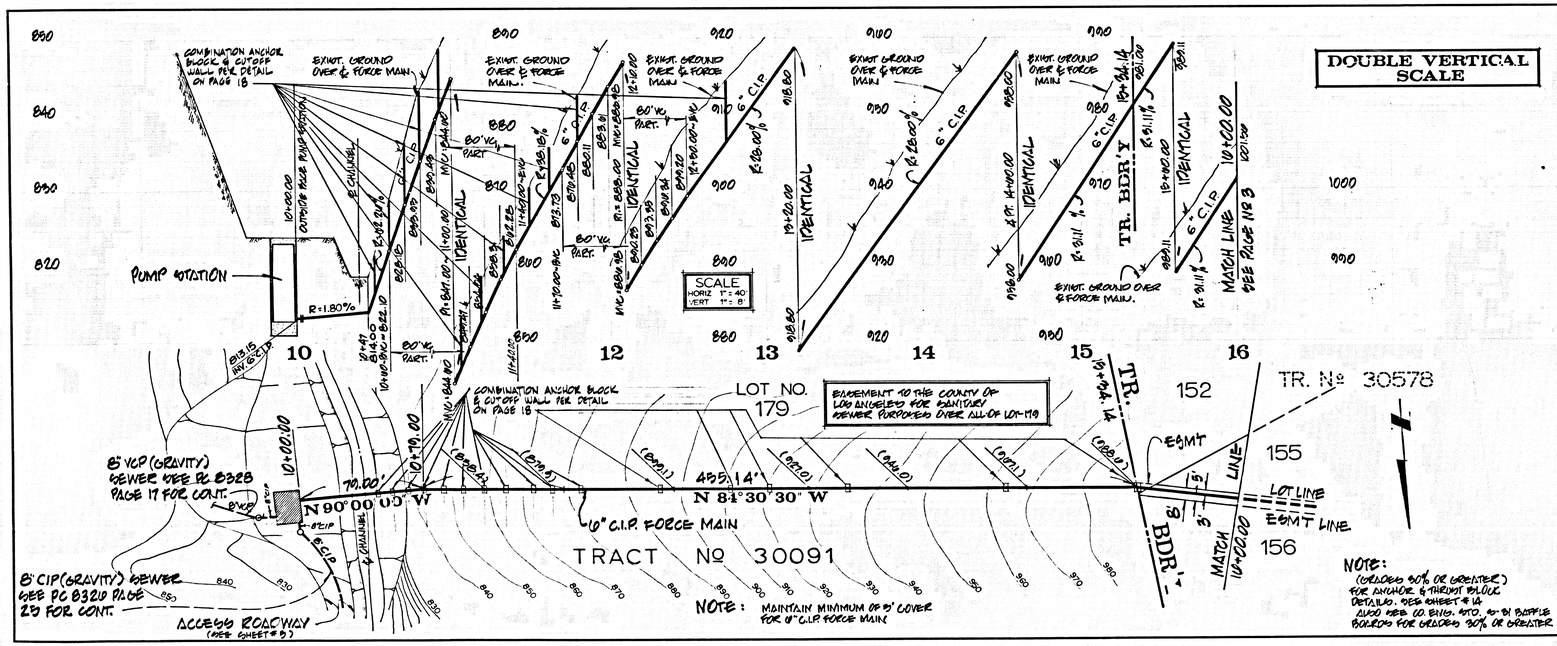
PREPARED IN THE OFFICES OF
E. L. PEARSON & ASSOC.
3955 BIRCH STREET
NEWPORT BEACH, CALIF. (714) 540-8803
By J. M. Dodds
REG. C. E. NO. 14814

FOR LEGEND SEE PLAN NO. S-1

NOTE:
GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OR 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 AND PROSECUTED ACCORDING TO GRD SPWC FOR PUBLIC WORKS CONST. 1970 EDITION
CO. ENGR. SPECIAL PROVISIONS FOR CONST. OF SANITARY SEWERS, DATED APRIL 1, 1970; & THE RULES AND REGS. IN THE PRESENCE OF CO. INSP.
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, ROOM 330, COUNTY ENGINEERING BUILDING, 108 WEST SECOND STREET OR 201 E. BOATON AVE., SUITE 204, LA PUENTE ..... REGIONAL OFFICE, 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, LOS ANGELES, CALIFORNIA.

COUNTY OF LOS ANGELES, CALIFORNIA
JOHN A. LAMBIE, COUNTY ENGINEER J. D. PARKHURST, CHIEF ENGINEER
CO. SAN. DIST. NO. 21
APPROVED BY Dalton 9-22-70 ASSISTANT SANITATION ENGINEER
APPROVED BY OFFICE ENGINEER
CHECKED BY 9-21-70 REG. C.E. NO. 10743
REVIEWED BY SEWER MAINTENANCE SUPERINTENDENT

P.C. 8326B PAGE 2



NOTE:
(UNLESS 90% OR GREATER) FOR ANCHOR & THRUST BLOCK DETAILS, SEE SHEET # 18 ALSO SEE CO. ENG. STD. S-7.21 BAFFLE BOARDS FOR GRADES 30% OR GREATER

NOTE:
AS AN ALTERNATE FOR ANCHOR BLOCKS & BAFFLE BOARD USE COMBINATION ANCHOR BLOCKS & CUTOFF WALLS PER DETAIL ON PAGE 18

PAGE INDEX

PAGE	
1	TITLE SHEET
2,3	FORCE MAIN PLAN & PROFILE
4	PLOT PLAN & GRADING PLAN
5	ACCESS ROAD PLAN
6	MATERIAL SCHEDULE & NOTES
7	PUMP STATION PLANS LOWER LEVEL & UPPER LEVEL SECT. WET WELL.
8	PUMP STATION SECTION
9	STRUCTURAL SECTION
10	CONTROL BUILDING LAYOUT
11	CONTROL BUILDING DETAILS
12	STAIRWAY, SUMP & PIPE SUPPORT DETAILS
13	VENTILATION SYSTEM & WET WELL PIT DOOR DETAILS
14	FORCE MAIN DETAILS
15	FENCE & GATE DETAILS
16	ELECTRICAL LAYOUT
17	TYPICAL MOTOR DETAILS
18	COMBINATION ANCHOR BLOCKS

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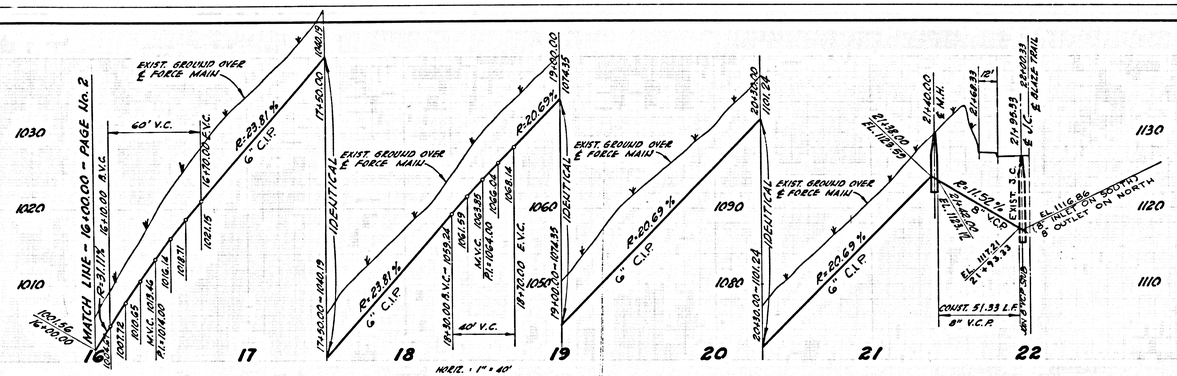
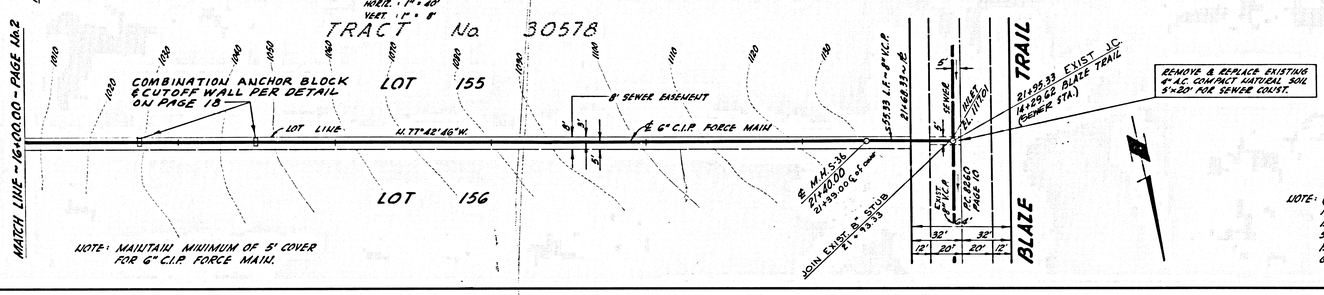
P.C. 83268 PAGE 3

DOUBLE VERTICAL SCALE

43045





NOTE: AS AN ALTERNATE FOR ANCHOR BLOCKS & BAFFLE BOARDS USE COMBINATION ANCHOR BLOCKS & CUTOFF WALLS PER DETAIL ON PAGE 18

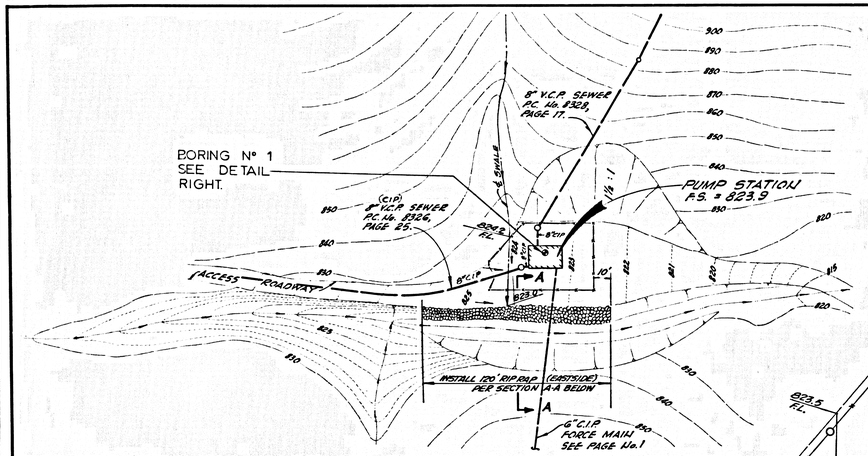
NOTE: MAINTAIN MINIMUM OF 5' COVER FOR 6" C.I.P. FORCE MAIN.

NOTE: (GRADE 30% OR GREATER) FOR ANCHOR & THRUST BLOCK DETAILS SEE SHEET No. 14. ALSO SEE CO. ENG. STD. S-31 BAFFLE BOARDS FOR GRADES 30% OR GREATER.

PAGE

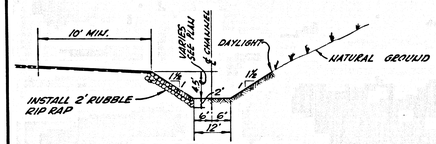
4

L.A. COUNTY SEWER SHEET NO. 2



GRADING PLAN

SCALE : 1" = 40'



SECTION A-A

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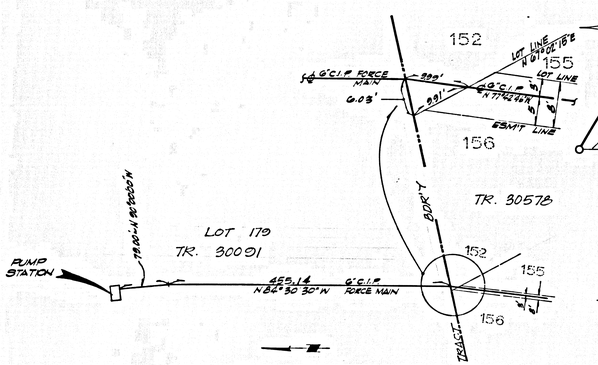
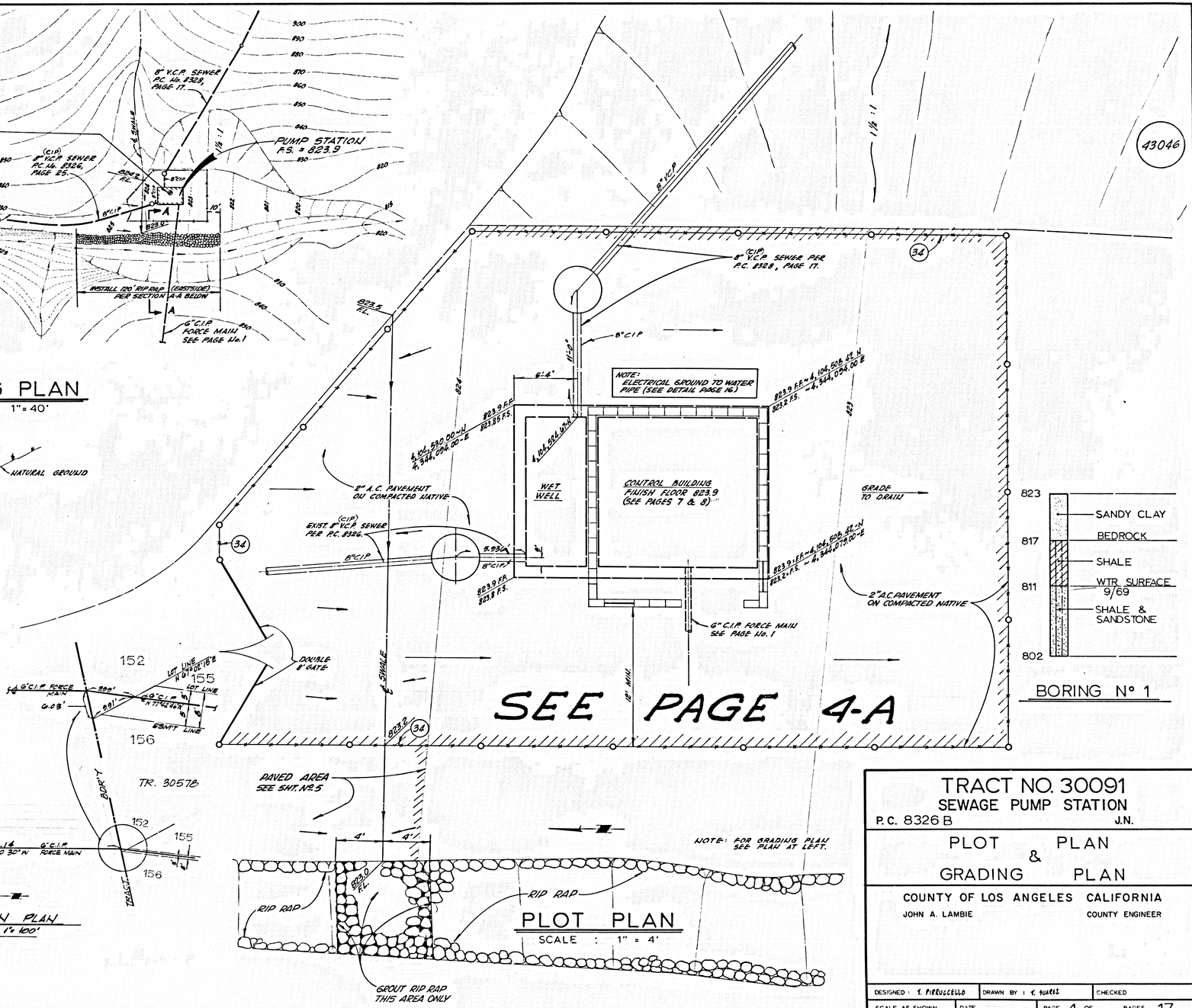


LOCATION PLAN

SCALE 1" = 100'



PLOT PLAN

SCALE : 1" = 4'

SEE PAGE 4-A

BORING Nº 1

TRACT NO. 30091

SEWAGE PUMP STATION

P.C. 8326 B J.N.

PLOT PLAN & GRADING PLAN

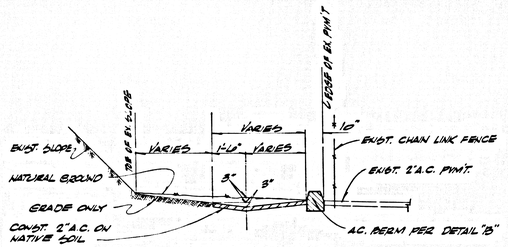
COUNTY OF LOS ANGELES CALIFORNIA

JOHN A. LAMBIE COUNTY ENGINEER

DESIGNED : T. PIRUCCELLO	DRAWN BY : T. NUNEZ	CHECKED	
SCALE AS SHOWN	DATE	PAGE 4 OF	PAGES 17

43046

43047



SECTION A-A
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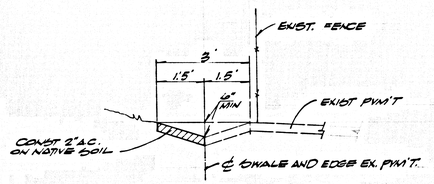
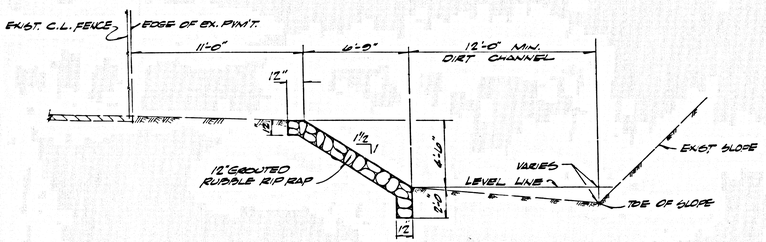
DETAIL "B"
A.C. BERM
NO SCALE



SECTION C-C
NO SCALE

RIP RAP NOTES

1. ROCK FOR GROUTED RIP-RAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3-INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18-INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A GROUT BED OF AT LEAST 2-INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2-INCHES.
3. SURFACE ROCKS SHALL BE EMBEDDED FROM 1/2 TO 2/3 THEIR MAXIMUM DIMENSION.



SECTION B-B
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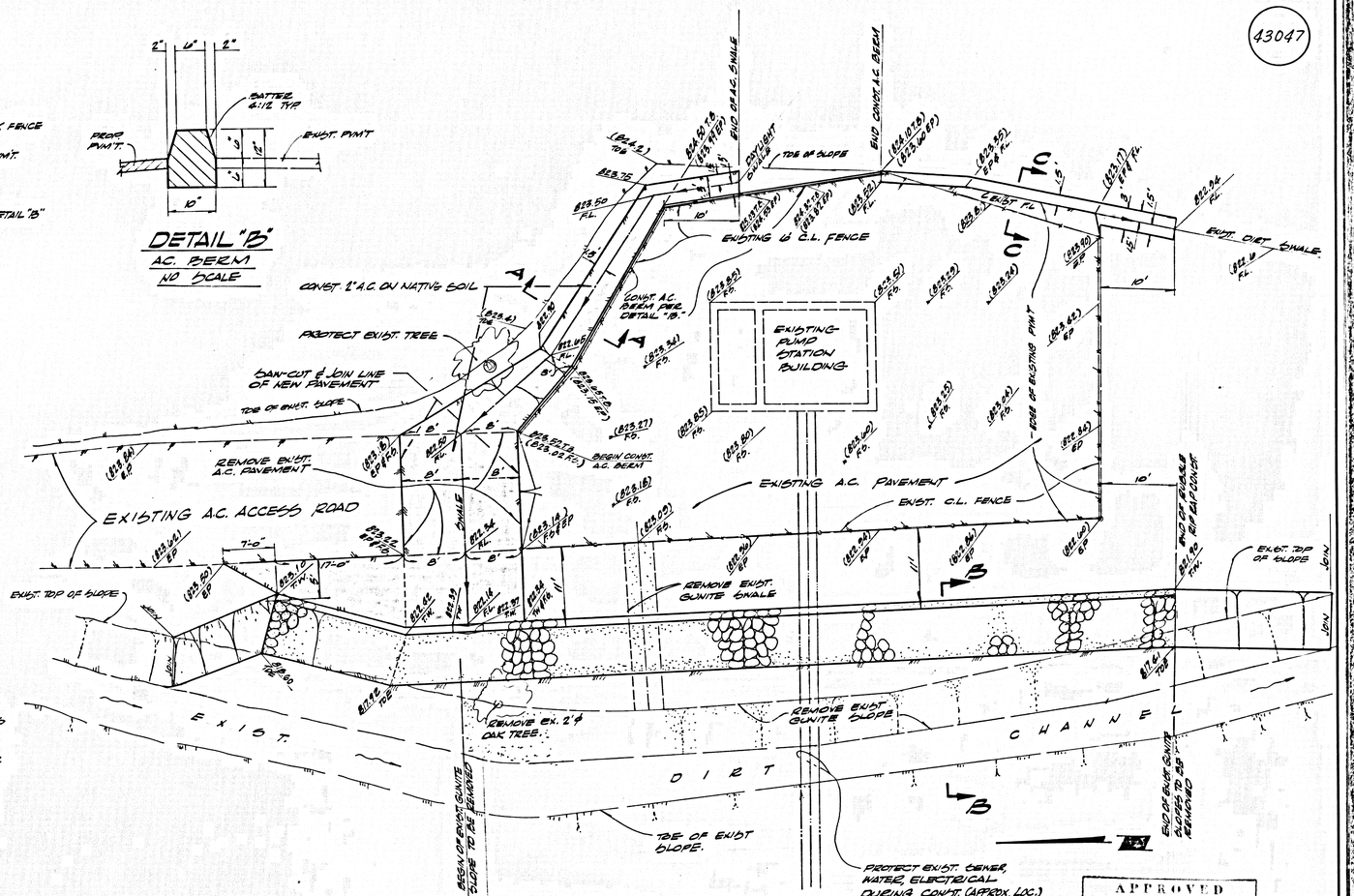


PLOT PLAN
SCALE 1" = 8'

LEGEND

SYMBOL	DESCRIPTION
	CONST. 2" A.C. P/M'T ON NATIVE SOIL
	6" A.C. BERM
F.S.	FINISH SURFACE
E.P.	EDGE OF PAVEMENT
A.C.	ASPHALT CONCRETE
C.L.	CHAIN LINK FENCE
F.L.	FLOW LINE
T.B.	TOP OF BERM
(823.60)	EXISTING ELEVATION
823.60	PROPOSED ELEVATION
T.S.	TOP OF SLOPE
T.W.	TOP OF RUBBLE RIP RAP SLOPE WALL

APPROVED
[signature] 2/28/72

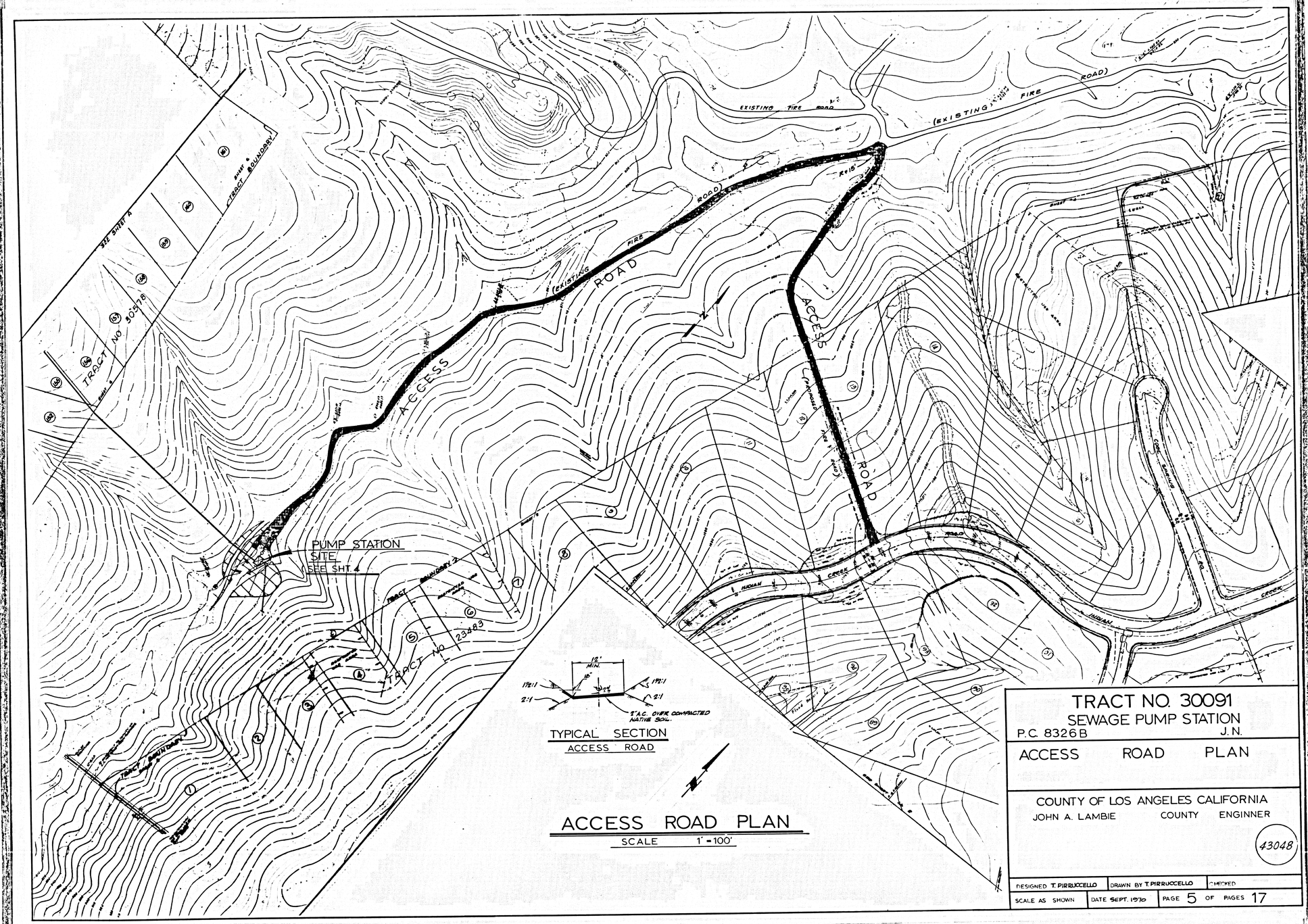
TRACT Nº 30091
SEWAGE PUMP STATION

RC. 8326 B JN 6997

PLOT & GRADING PLAN

COUNTY OF LOS ANGELES, CALIF
HARVEY T. BRANDT COUNTY ENGINEER

DESIGNED G.B.	DRAWN BY A.P.	CHECKED
SCALE AS SHOWN	DATE FEB 22/72	PAGE 4A OF 17 PAGES



TYPICAL SECTION
ACCESS ROAD

ACCESS ROAD PLAN

SCALE 1" = 100'

TRACT NO. 30091

SEWAGE PUMP STATION

P.C. 8326B J.N.

ACCESS ROAD PLAN

COUNTY OF LOS ANGELES CALIFORNIA

JOHN A. LAMBIE COUNTY ENGINNER

43048

DESIGNED T. PIRRUCCELLO	DRAWN BY T. PIRRUCCELLO	CHECKED	
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 5 OF PAGES 17	

PLUMBING MATERIAL SCHEDULE & QUANTITIES

NO	DESCRIPTION OF ITEM	AMOUNT	UNIT
1	WEMCO TORQUE FLOW PUMP MODEL EV 4-11B.W 4"Ø SUCTION & 6" DISCHARGE 163 TDH @ 832 GPM	4	EA.
2	U.S. ELECTRICAL MOTORS, VERTICAL SOLID SHAFT MOTOR, 50 HP @ 1750 RPM 460 V, 3Ø, WITH SITTLE D MOUNTING BASE.	4	EA.
3	ESSO: QUINCY F-325 TWO STAGE AIR COOLED RECIPROCATING COMPRESSOR UNIT MOUNTED ON A 20"x63" 80 GAL. HORIZONTAL AIR TANK ASME NP AFTER COOLER, N.C. GROVE & MOISTURE SEPARATOR NO. 5078, V-BELT GUARD, STARTING & RUNNING UNLOADER	1	EA
4	AIR CHAMBER 8"Ø 150# C.I.P. W/125# RATING FLANGES WALL SUPPORTS, AS SHOWN.	1	EA
5	SUMP PUMP, PEDESTAL W/8" DRAIN CAST MODEL VB1.5 COMPLETE W/ 440 V 3Ø 1½ H.P. @ 1750 R.P.M. TEFC MOTOR & DIVING BELL MOUNTING ASSY.	1	ED
6	8" FLG. PLUG VALVE FIG. #1832 BALL CENTRIC HOMESTEAD	1	EA
7	4" SMITH BLAIR COUPLING ADAPTOR NO. 912-11-480.	4	EA
8	4" CHECK VALVE, RENSSELAER NO. 340 W/ OUTSIDE SPRING	2	EA
9	6" C.I. SPOOL ~ 12" LONG. FLGD BOTH ENDS	1	EA.
10	4" C.I. SPOOL ~ FLANGED AND P.E.	4	EA
11	4" 90° C.I.	2	EA
12	6"x6"x4" RED TEE	2	EA
13	6" C.I. SPOOL ~ 2-3 1/2"	1	EA
14	6" C.I. SPOOL ~ 2-11 1/4"	1	EA
15	4" C.I. SPOOL (9" LONG)	1	EA
16	4" C.I. SPOOL ~ (18 1/16 LONG) FLANGED AND P.E.	1	EA
17	4" C.I. 45° ELBOW	1	EA
18	6"x6"x2" FLG'D RED. TEE	1	EA
19	8" FLANGED PLUG VALVE NO. #1822 BALL CENTRIC HOMESTEAD	5	EA
20	6" SMITH BLAIR COUPLING ADAPTOR NO. 912-6-480	2	EA
21	3'-6"x3'-0" BOLTED STEEL DOOR HATCH, TYPE "J" WITH LOCKING DEVICE	1	EA
22	6"x6"x6" TEE.	1	EA
23	200 WATT LIGHT FIXTURE (DOUBLE HINGE TYPE) VC. FORM 200	9	EA
24	LIFTING INSERT, RICHMOND SCREW ANCHOR CO. TYPE, LCB, 3/4"	2	EA
25	BEECO BACKFLOW PREVENTER MODEL NO. 12 FOR 3/4" SERVICE	1	EA
26	BUFFALO BARN VENT SET MODEL D, 585 C.F.M., COMPLETE W/ 110V, 1-Ø 1/6 H.P. @ 1725 R.P.M. MOTOR W/ VENT. & PARKING ALUM. WHEEL.	1	EA
27	7" Ø 12 GA. GALV. STEEL AIR DUCT FOR VENTILATION SYSTEM.	1	EA
28	10" C.I.P. SPOOL (1'-11") ~ FLANGED AND P.E.	1	EA
29	STEPS FOR WET WELL, 3/4" Ø GALV. STEEL, ALHAMBER NO. A-3312 (5 MINIMUM)	8	EA
30	3/4" POLY VINYL CHLORIDE PIPE	6	L.F.
31	RICHMOND LCB 3/4" LIFTING INSERT & RICHMOND LEB 3/4" LIFTING EYE	2	EA.
32	0-300 PSI, 2½" MARSHAL TOWN FIG. 23 PRESSURE GAUGE 1/8" TOP LINE & PROVIDE NIPPLES, 90° ELBOWS & STOP COCKS FOR EASY REMOVAL, COMPLETE.	5	EA
33	4" C.I.P. SPOOL (9 7/8")	2	EA.
34	6' LL FENCE (PER DETAIL & PAGE #15)	230	L.F.
35	STAIRS	1	EA.
36	6" x 4" ECCENTRIC (BOTTOM FLAT) REDUCER	1	EA.
37	10" C.I.P. (10: 13/16")	1	EA.
38	2½" Ø PIPE SUPPORT W/ FLANGES	1	EA.
39	4" C.I.P. SPOOL (2-4"-0.0° ELL W/ PIPE)	1	EA.
40	8" C.I. 90° (ROUND BASE ELL)	1	EA.
41	6-MM BLOCKS	12	EA.
42	1½" Ø STEEL PIPE & FITTINGS (SUMP DISCH.)	1	EA
43	3/4" Ø STEEL PIPE & FITTINGS (FROM PUMP 1A & 2A)	1	EA.
44	6" CLAMP PER DETAIL SHT NO. 8	3	EA.
45	HEAT EXCHANGER (ON AIR COMPRESSOR)	1	EA
46	3/4" HOSE W/ 4"x4" DOOR SUPPORT	1	EA
47	1/2" WATER DISCHARGE LINE FROM HT. EXCH. & AIR COOLER	1	EA
48	1/2" STEEL AIR INJECTION LINE	1	EA.
49	1/2" STEEL AIR LINE TO AIR CHAMBER	1	EA.
50	RAILING & BAR GRATING TYPE A-A, RECTANGULAR DESIGN 35 3/4" x 96 3/16" W/ 3/4"x1/8" BARS & OF GALV. STEEL.	1	EA.
51	1 1/2" Ø PIPE RAILING TO BE GALV. AFTER FABRICATION PER A.S.T.M. A-123 RAILING TO BE REMOVABLE W/ REMOVABLE CHAIN.	1	EA.
52	6" C.I.P. VENT W/ HEAT COVER PER SHT #13	1	EA.
53	FLEXIBLE DRIVE SHAFT-WATSON SPLICER TYPE WY-A 27 WITH 3/8" x 0.083 TUBING LENGTH OF SHAFT 81 1/8"	2	EA.
54	FLEXIBLE DRIVE SHAFT-WATSON SPLICER TYPE W-V-B-37 70 3/8"	2	EA.
55	SAFETY GUARD (SEE SHT. NO. 17)	4	EA.
56			
57	2" AIR CHAMBER LINE, 2" GATE VALVE & FITTING	21	L.F.
58	ILG ROOF VENTILATOR - MODEL "CRF-A-122 - 2000 CFM - 1/8 H.P. - 110V - 1Ø - 60~	1	EA.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. THE PUMPING EQUIPMENT MANUFACTURERS REPRESENTATIVE SHALL SUPERVISE THE INSTALLATION, STARTING AND TESTING OF THE EQUIPMENT.
3. ALL CONSTRUCTION JOINTS TO BE WATERPROOF. THERE SHALL BE NO TRACE OF WATER LEAKS INTO PUMP STATION UPON COMPLETION OF THE PROJECT.
4. ALL WORK AND MATERIALS TO BE GUARANTEED FOR NOT LESS THAN ONE (1) YEAR.
5. CONCRETE SHALL BE PORTLAND CEMENT CONCRETE AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. AT 28 DAYS.
6. BEDDING AND BACKFILL SHALL BE COMPACTED TO 90% RELATIVE DENSITY. BACKFILL SHALL NOT BE COMPACTED BY FLOODING, SLUICING OR JETTING OR BY ANY OTHER HYDRAULIC METHOD WHICH WILL SATURATE THE SOIL.
7. BACKFILL SHALL BE FROM THE MATERIAL EXCAVATED OR SHALL BE GRANULAR MATERIAL APPROVED BY THE COUNTY ENGINEER.
8. ALL PRACTICES AND PROCEDURES, MATERIALS AND PLACEMENT OF MATERIALS SHALL CONFORM IN EVERY RESPECT TO THE LOS ANGELES COUNTY BUILDING LAWS, 1968 EDITION AND TO THE COUNTY OF LOS ANGELES STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED MAY 28, 1962 AS REVISED, OR AS OTHERWISE DIRECTED BY THE COUNTY ENGINEER
9. ALL PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS AND EQUIPMENT UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL FURNISH AND INSTALL PAINT FOR THE LIFT STATION FROM THE KOPPERS PAINT COMPANY. ALL PAINT SURFACES SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PER PAINTING SCHEDULE SHOWN ON THIS PAGE
12. NOTCHES OR GROOVES AROUND OPENINGS IN CONCRETE SHALL BE PROVIDED AS REQUIRED TO RECEIVE MANHOLE FRAMES AND ACCESSORIES, DIMENSIONS AND POSITIONS WHERE NOT SPECIFIED FOR CONDUITS, FRAMES AND ACCESSORIES SHALL BE DETERMINED FROM THE LAYOUT DETAILS AND FROM MANUFACTURERS SHOP DRAWINGS.
13. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
14. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 3-4700 EXT. 6955, AT LEAST TWENTY FOUR (24) HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
15. REQUIRE ALL TRENCHES WITHIN PAVED AREAS TO MEET LOS ANGELES COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. ALL STATE AND LOCAL TRENCH SAFETY ORDERS TO BE STRICTLY ENFORCED.

PLUMBING NOTES

1. PIPING 1½" AND SMALLER UNLESS OTHERWISE NOTED SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE WITH 150 LB. MALLEABLE IRON GALVANIZED SCREWED FITTINGS.
2. PIPING FOR THE BUBBLE CONTROL SHALL BE 3/8" P.V.C. IN WET WELL, WITH SOLVENT CEMENT FITTINGS.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL HANGERS AND SUPPORTS NECESSARY TO PROVIDE A COMPLETE PIPING SUSPENSION SYSTEM.
4. ALL FITTINGS AND VALVES SHALL BE FLANGED CLASS 150 CAST IRON UNLESS OTHERWISE SHOWN
5. THE FORCE MAIN SHALL BE CLASS 150 IN ACCORDANCE WITH SEC 40 OF THE STANDARD SPECIFICATIONS OF LOS ANGELES COUNTY DATED MAY 28, 1962 & AS REVISED
6. THE FORCE MAIN SHALL BE TESTED WITH 50 PSI. A.P. ABOVE THE T.D.H.

ELECTRICAL NOTES

1. THE CONTRACTOR SHALL CONTACT AND MAKE ARRANGEMENTS WITH THE SOUTHERN CALIFORNIA EDISON COMPANY FOR POWER AND SERVICE.
2. THE ELECTRICAL CONTRACTOR SHALL RUN A #4 BARE COPPER MIN. GROUND WIRE AND ATTACH AS PER CODE TO ALL METAL PIPING, PUMP PLATES AND STEPS.
3. THE ELECTRICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE STATE SAFETY ORDERS & ALL APPLICABLE LOCAL CODES.
4. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
5. ALL ELECTRICAL EQUIPMENT IN THE WET WELL TO BE EXPLOSION PROOF PER CLASS I, DIVISION 1, OF STATE ELECTRICAL SAFETY ORDERS. SEAL CONDUITS INTO THIS AREA. ALL ELECTRICAL IN DRY WELL SHALL BE VAPOR TIGHT GASKET AREA. SEAL ALL CONDUITS INTO THIS AREA.

OPERATING REQUIREMENTS

OPERATION SHALL BE EITHER BY MANUAL OR AUTOMATIC CONTROL. UNDER AUTOMATIC CONTROL, THE FIRST STAGE PUMPING UNIT SHALL START BY ACTUATION OF THE 90% DAM SWITCH WHEN THE ALTERNATOR WHEN THE SEWAGE IN THE WET WELL REACHES ELEV. 816.21 AFTER 9 SECONDS, AT WHICH TIME THE LEAD PUMP IS OPERATING AT THE DESIGNED HEAD, THE SECOND STAGE PUMP WILL START BY MEANS OF A TIME DELAY RELAY. BOTH UNITS SHALL CONTINUE TO RUN A MINIMUM OF 5 MINUTES, OR UNTIL THE SEWAGE IN THE WET WELL IS PUMPED DOWN TO ELEV. 813.30 THE LEAD PRESSURE SWITCH WILL SHUT OFF THE SECOND STAGE PUMP, THE FIRST STAGE PUMP BEING HELD IN FOR AN ADDITIONAL 9 SECONDS, THEREBY STEPPING THE PRESSURE DOWN GRADUALLY. THE PUMPING OPERATIONS WILL BE ALTERNATED BETWEEN THE FIRST AND SECOND SETS OF PUMPS BY THE ALTERNATOR EITHER PUMPING UNIT MAY BE RUN CONTINUOUSLY BY SWITCHING THE CONTROL LEVER TO THE "HAND" POSITION. IN THE EVENT THAT THE PUMPING UNIT FAILS TO OPERATE THEN THE ALTERNATOR WHEN THE SEWAGE IN THE WET WELL REACHES ELEV. 816.68, THE 100% STAND BY SWITCH WILL ACTUATE THE ALTERNATE SET OF PUMPS.

REGIONAL PLANNING COMMISSION REQUIREMENTS

1. THE PROPERTY SHALL BE MAINTAINED TO PREVENT THE ACCUMULATION OF DEBRIS THEREON.
2. THE FACILITY SHALL BE DEVELOPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOS ANGELES COUNTY HEALTH DEPARTMENT.

STRUCTURAL NOTES

1. STEEL REINFORCEMENT SHALL BE STRUCTURAL GRADE STEEL DEFORMED BARS WITH DEFORMATIONS CONFORMING TO A.S.T.M. SPECIFICATIONS. BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE MANUAL FOR STANDARD PRACTICE.
2. BAR SIZES ARE GIVEN IN TERMS OF BAR NUMBER. BAR SPACING SHOWN IN INCHES IS CENTER TO CENTER OF BARS. DISTANCES SHOWN FROM FACE OR EDGE OF CONCRETE SURFACE IS TO CENTER OF BARS UNLESS OTHERWISE SHOWN AS CLR. (CLEAR)

PAINTING REQUIREMENTS SCHEDULE

1. THE CONTRACTOR SHALL FURNISH AND INSTALL PAINTING FOR THE LIFT STATION FROM THE KOPPERS PAINT COMPANY AS FOLLOWS:
A. ALL PIPING, FITTINGS, MACHINERY & ELECTRICAL CABINETS; ONE COAT OF #2 626 PRIMER, PLUS TWO COATS OF TAPER ENAMEL (LIGHT GREY #2 306)
B. INTERIOR CONCRETE FLOORS & STAIR LANDINGS; TWO COATS OF RAMUC FLOOR ENAMEL (TILE RED #335)
C. ALL NON-SUBMERGED TAR-DIPPED PIPE; COLORED ENAMEL WITH TWO COATS OF KOPPERS TAR STAY IN PLACE PRIMING.
D. INSIDE WALL FACES; ONE PRIME COAT OF RAMUC ALKALI PROOF UNDERCOATER & TWO COATS OF RAMUC UTILITY ENAMEL (AQUA GREEN #2 300)
E. THE WET WELL; KOPPERS STANDARD BLACK ON FLOORS & WALL TO A POINT 6" ABOVE INFLUENT PIPE. WALLS & CEILING ABOVE THIS LINE TO BE PAINTED WITH RUBBERTEX #2 3924 & MANUFACTURERS RECOMMENDED PRIMER (WHITE).
F. THE AIR RELEASE VALVE COVER & PIPE BARRICADES; ONE COAT OF #2 626 PRIMER, PLUS TWO COATS OF RAMUC UTILITY ENAMEL (TILE RED GREEN #2 309).

43049

TRACT NO. 30091
SEWAGE PUMP STATION

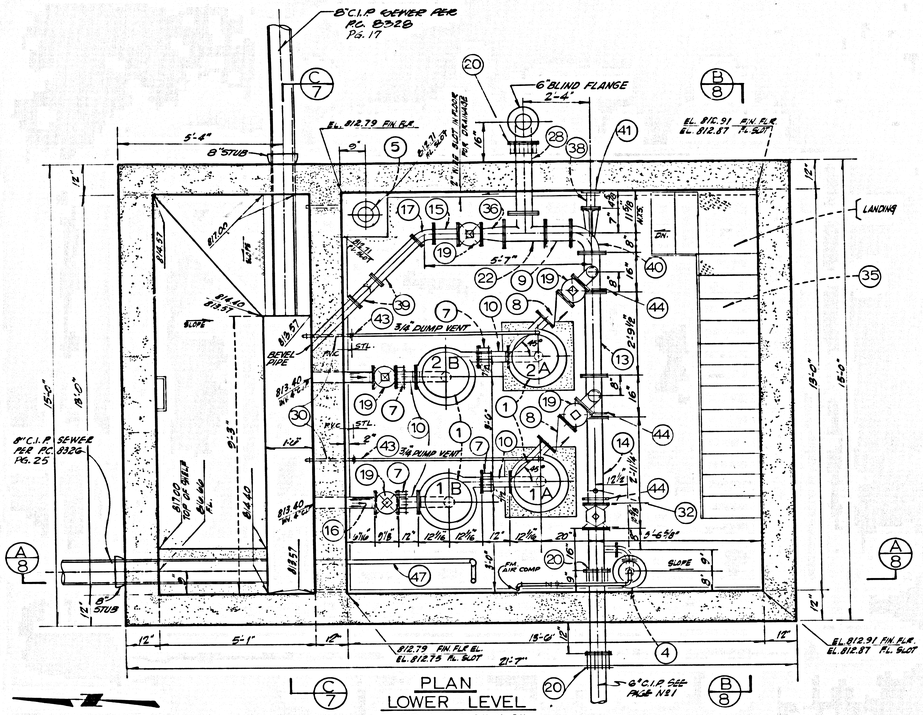
P.C. 8326 B J.N.

MATERIAL SCHEDULE AND NOTES

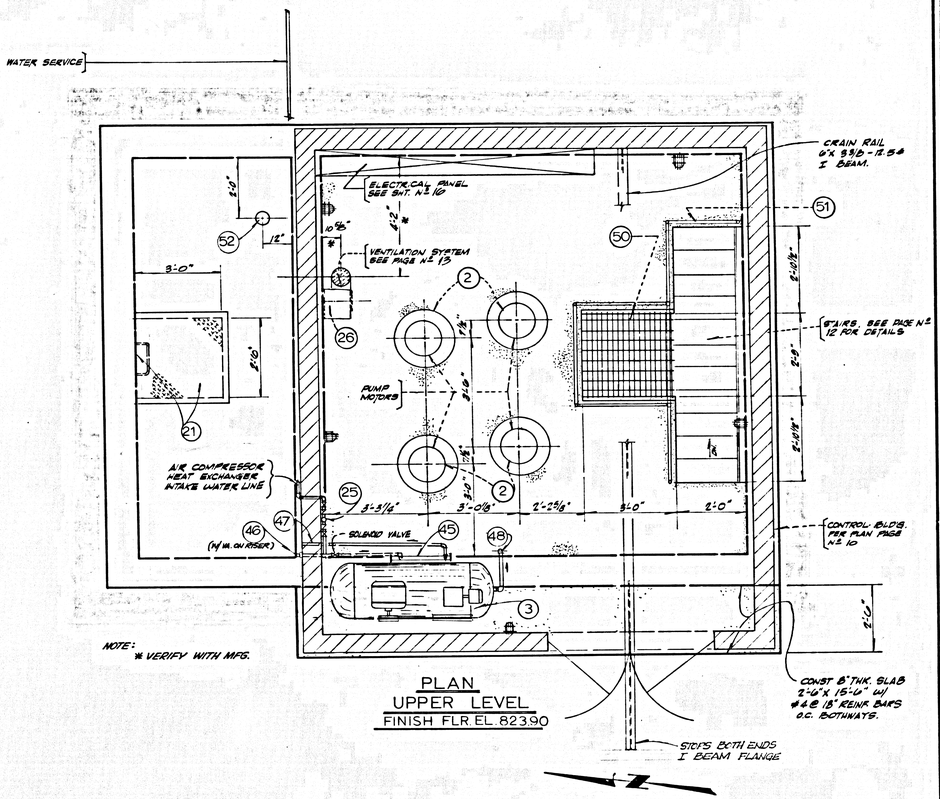
COUNTY OF LOS ANGELES CALIFORNIA

JOHN A. LAMBIE COUNTY ENGINEER

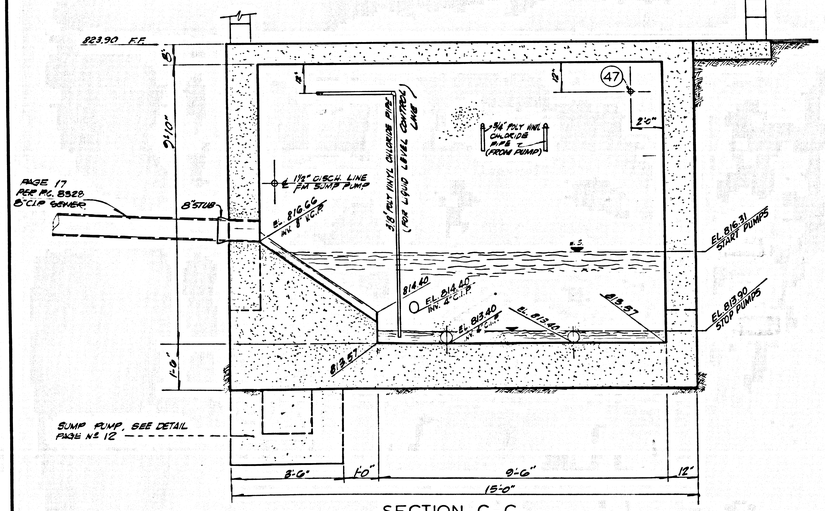
DESIGNED	DRAWN C. Gibbs	CHECKED
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 6 OF PAGES 17



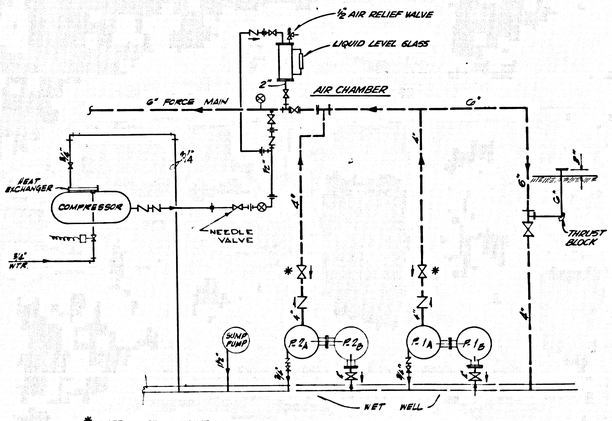
PLAN
LOWER LEVEL
SCALE 1/2"=1'-0"



PLAN
UPPER LEVEL
FINISH FLR EL. 823.90



SECTION C-C
SCALE 1/2"=1'-0"



* NOTE: INSTALL VALVE IN COUNTER FLOW POSITION (AS INDICATED)

PIPING SCHEMATIC
COMPRESSOR – PUMPS – AIR CHAMBER

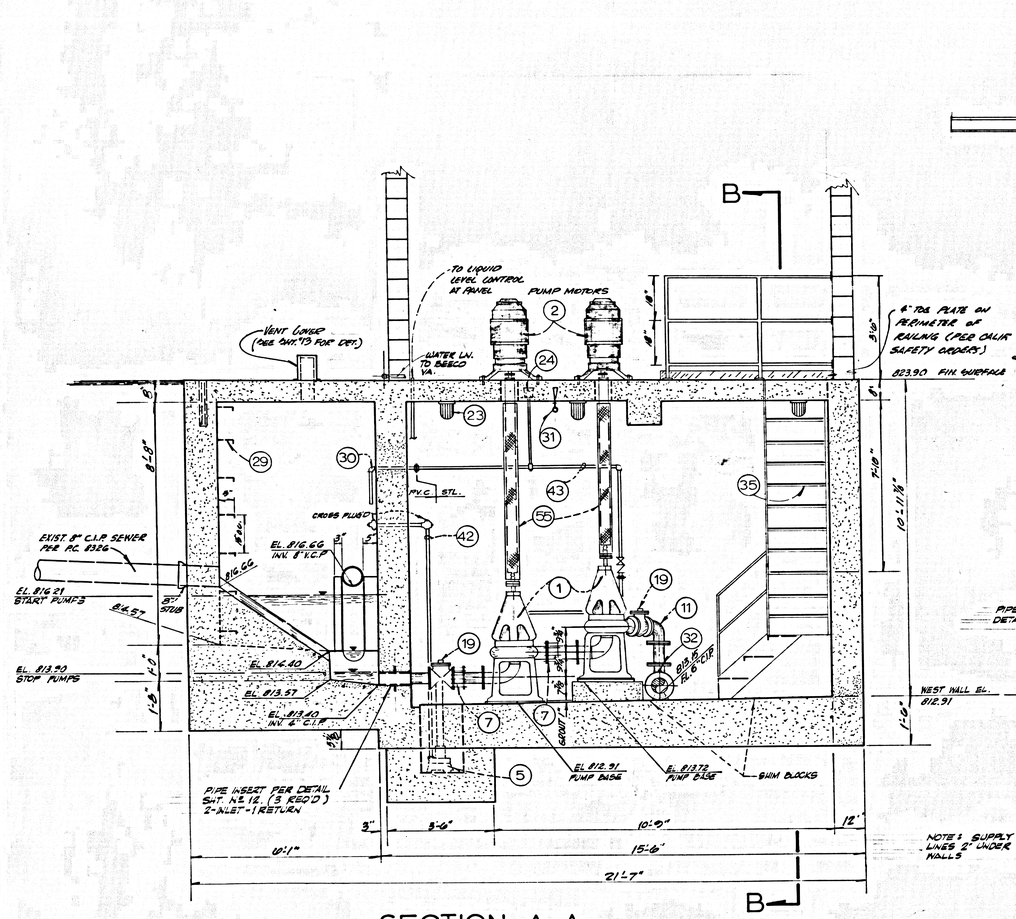
43050

TRACT NO. 30091
SEWAGE PUMP STATION
P.C. 8326B J.N.

PUMP STATION PLANS
LOWER LEVEL & UPPER LEVEL
SECTION WET WELL

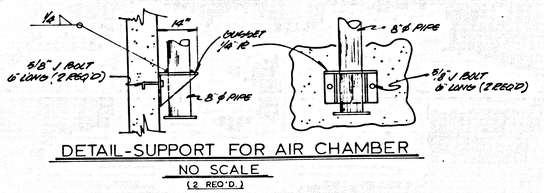
COUNTY OF LOS ANGELES CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER

DESIGNED T. PIRRUCCELLO	TRACED T. PIRRUCCELLO	CHECKED
SCALE AS SHOWN	DATE SEPT 1970	PAGE 7 OF PAGES 17



SECTION A-A

SCALE 1/2" = 1'-0"

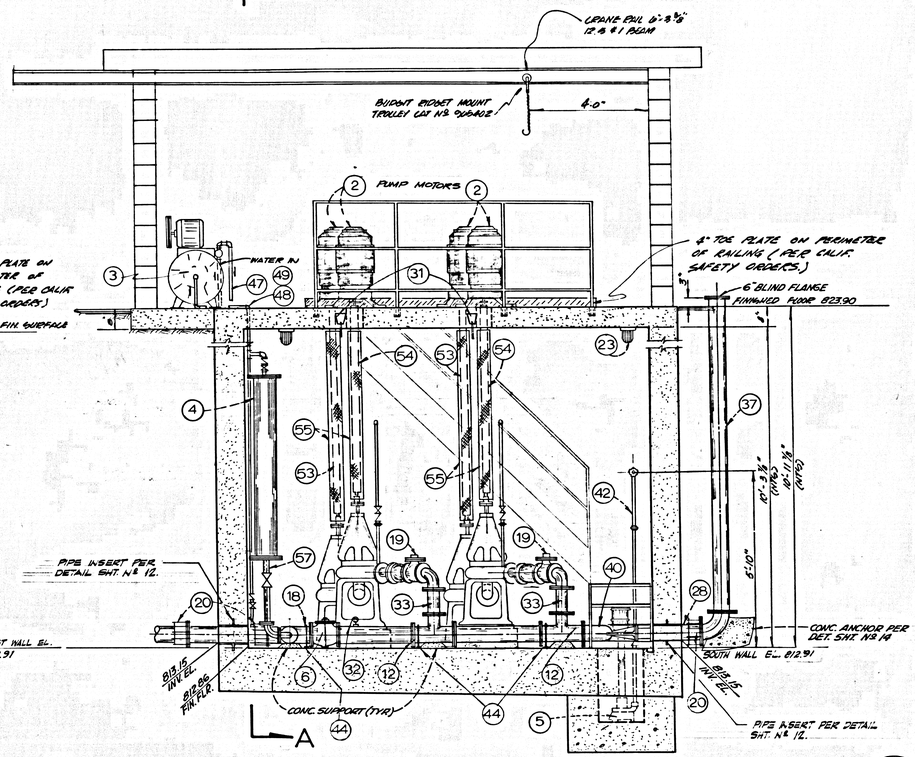


DETAIL - SUPPORT FOR AIR CHAMBER

NO SCALE

(2 REQ'D.)

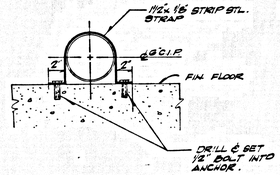
A



SECTION B-B

SCALE 1/2" = 1'-0"

NOTE: SUPPLY SLEEVES FOR LINES 2" UNDER PENETRATING WALLS



(44) CLAMP - DETAIL

NO SCALE

43051

TRACT NO. 30091

SEWAGE PUMP STATION

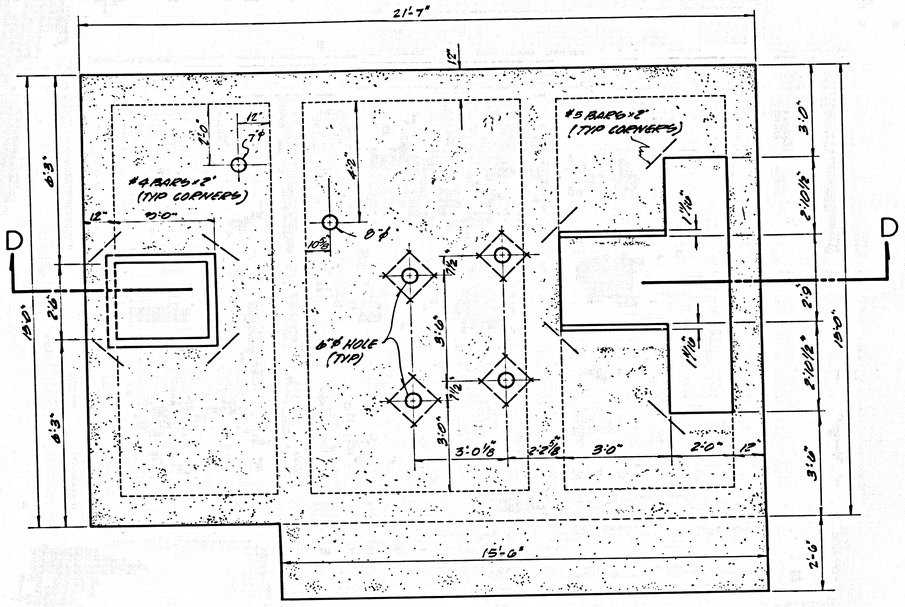
P. C. 8326 B J.N.

PUMP STATION SECTION

COUNTY OF LOS ANGELES CALIFORNIA

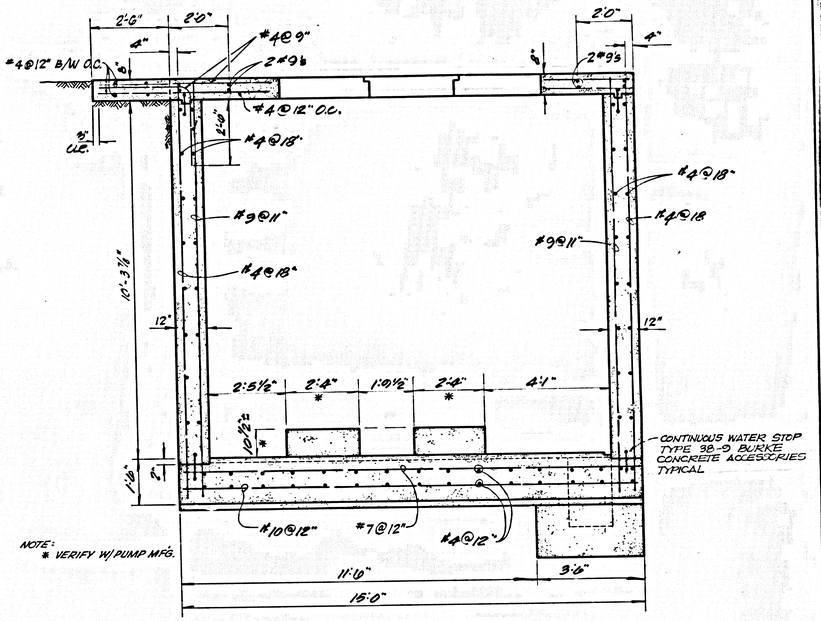
JOHN A LAMBIE COUNTY ENGINEER

DESIGNED T. PIRRUCCELLO	DRAWN BY T. PIRRUCCELLO	CHECKED	
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 8 OF	PAGES 17



PLAN UPPER LEVEL

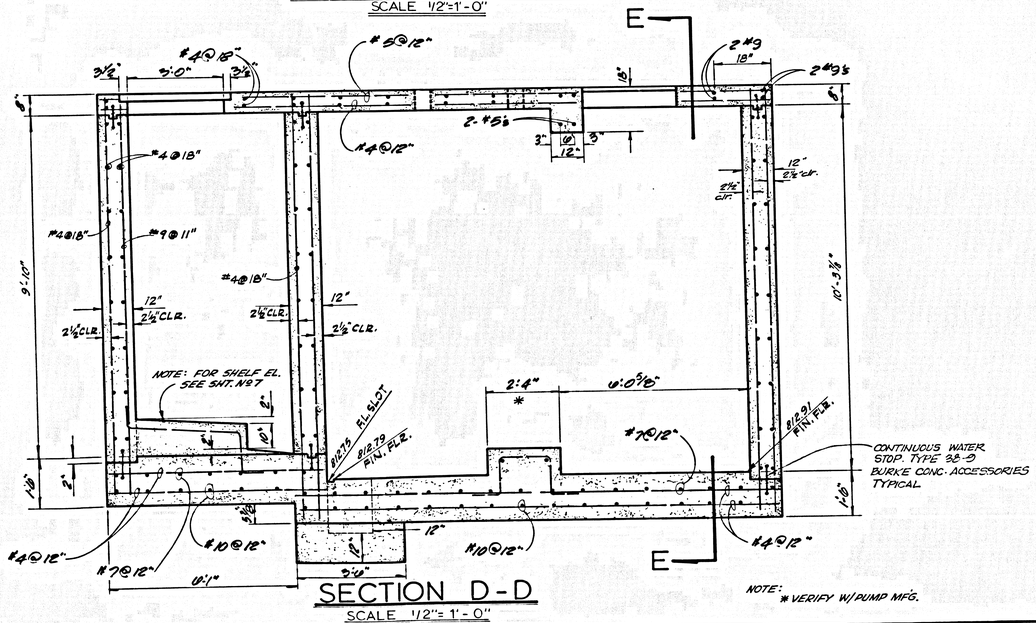
SCALE 1/2"=1'-0"



NOTE:
* VERIFY W/ PUMP MFG.

SECTION E-E

SCALE 1/2" = 1'-0"



SECTION D-D

SCALE 1/2"= 1'-0"

NOTE:
* VERIFY W/ PUMP MFG.

DESIGN CRITERIA

f_s = 20,000 PSI n = 10

f'_c = 3,000 PSI

f_c = 1350 PSI

V = 90 PSI = V_L = 300 PSI

(DEFORMED BARS COMPLYING WITH A.S.T.M. A-305-56T.)

43052

TRACT NO. 30091

SEWAGE PUMP STATION

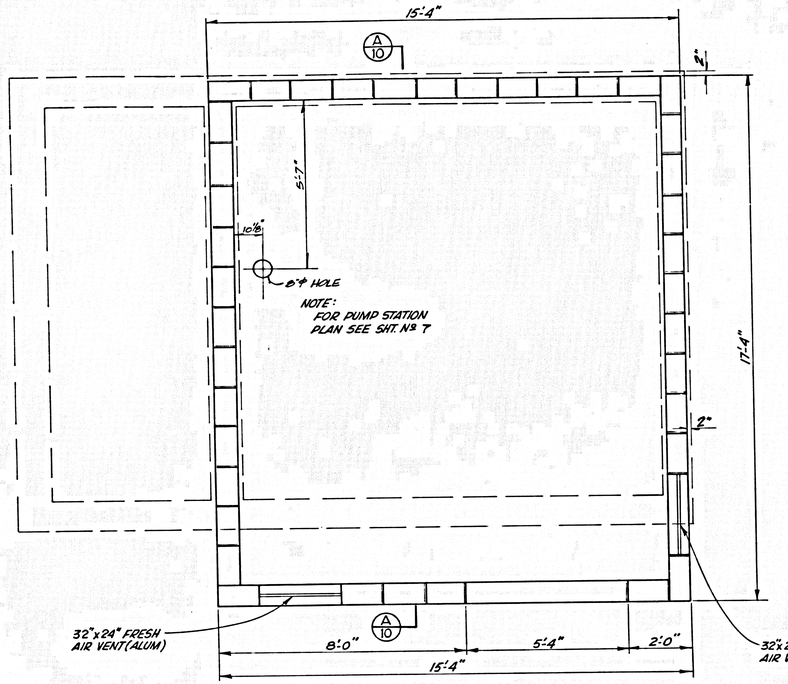
P. C. 8326 B J.N.

STRUCTURAL SECTIONS

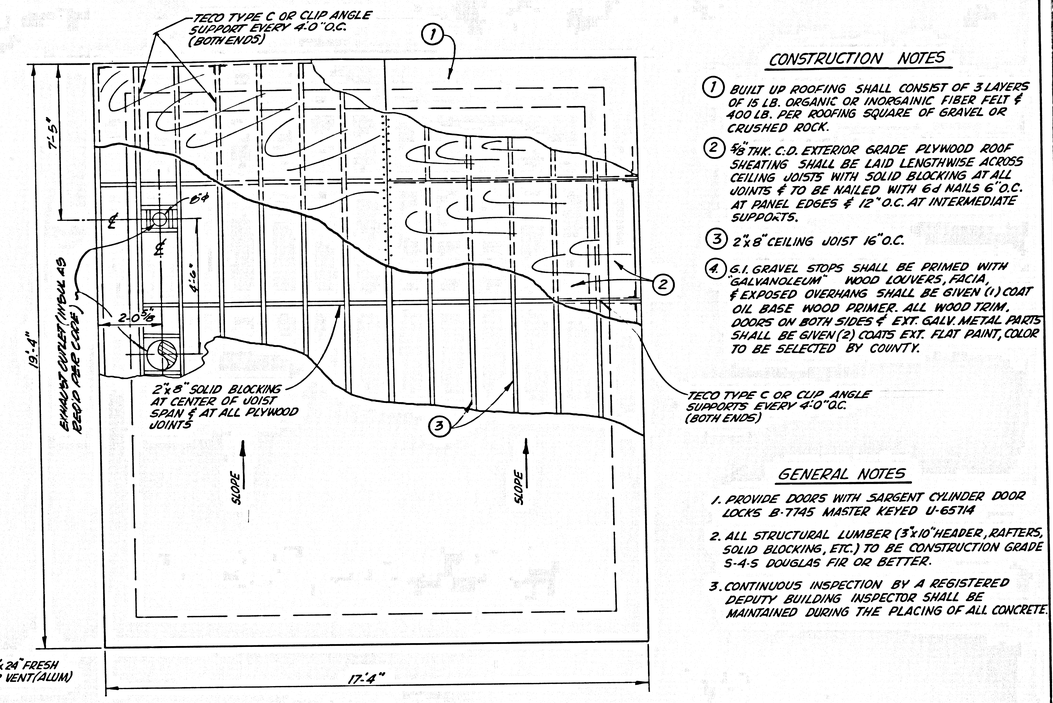
COUNTY OF LOS ANGELES CALIFORNIA

JOHN A LAMBIE COUNTY ENGINEER

DESIGNED ARAM KEITH	DRAWN BY C. Glass	CHECKED	
SCALE AS SHOWN	DATE SEPT 1970	PAGE 9 OF	PAGES 17



PLAN
CONTROL BLD'G.
SCALE: ½"=1'-0"



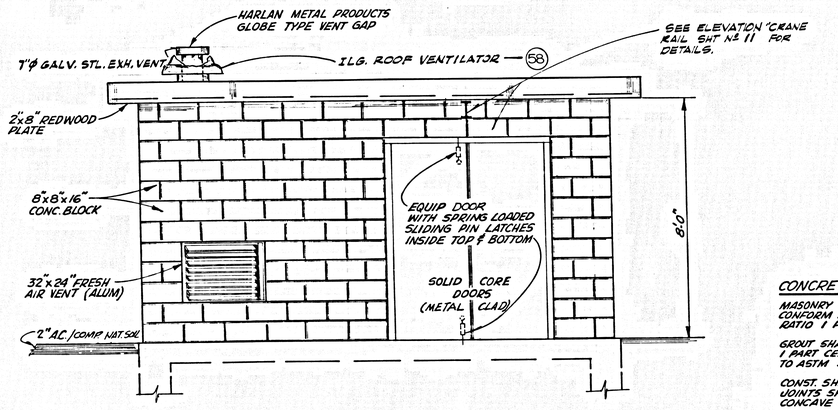
ROOF PLAN
SCALE: ½"=1'-0"

CONSTRUCTION NOTES

1. BUILT UP ROOFING SHALL CONSIST OF 3 LAYERS OF 15 LB. ORGANIC OR INORGAINIC FIBER FELT & 400 LB. PER ROOFING SQUARE OF GRAVEL OR CRUSHED ROCK.
2. ⅝" THK. C.D. EXTERIOR GRADE PLYWOOD ROOF SHEATING SHALL BE LAID LENGTHWISE ACROSS CEILING JOISTS WITH SOLID BLOCKING AT ALL JOINTS & TO BE NAILED WITH 6d NAILS 6" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS.
3. 2"x8" CEILING JOIST 16" O.C.
4. G.I. GRAVEL STOPS SHALL BE PRIMED WITH "GALVANOLEUM". WOOD LOUVERS, FACIA, & EXPOSED OVERHANG SHALL BE GIVEN (1) COAT OIL BASE WOOD PRIMER. ALL WOOD TRIM, DOORS ON BOTH SIDES & EXT. GALV. METAL PARTS SHALL BE GIVEN (2) COATS EXT. FLAT PAINT, COLOR TO BE SELECTED BY COUNTY.

GENERAL NOTES

1. PROVIDE DOORS WITH SARGENT CYLINDER DOOR LOCKS 8-7745 MASTER KEYED U-65114
2. ALL STRUCTURAL LUMBER (3"x10" HEADER, RAFTERS, SOLID BLOCKING, ETC.) TO BE CONSTRUCTION GRADE S-4-S DOUGLAS FIR OR BETTER.
3. CONTINUOUS INSPECTION BY A REGISTERED DEPUTY BUILDING INSPECTOR SHALL BE MAINTAINED DURING THE PLACING OF ALL CONCRETE.



WEST ELEVATION
SCALE: ½"=1'-0"

SPECIFICATIONS

CONCRETE MASONRY

MASONRY UNITS SHALL BE GRADE A UNITS CONFORMING TO ASTM SPEC. C90-52, CEMENT SHALL CONFORM TO ASTM SPEC. C150-52. MORTAR SHALL BE FRESHLY PREPARED & UNIFORMLY MIXED IN RATIO 1 PART CEMENT, ¼ PART LIME PUTTY, 3 PARTS SAND & SHALL CONFORM TO ASTM SPEC. C270-52T.

GROUT SHALL BE OF FLUID CONSISTENCY & MIXED IN RATIO 1 PART CEMENT, 3 PARTS SAND, OR 1 PART CEMENT, 2 PARTS SAND, 2 PARTS PEA GRAVEL. REINFORCING BARS SHALL CONFORM TO ASTM SPEC. 15-52 & A305-50 FOR DEFORMED STEEL BARS.

CONST. SHALL BE OF THE BEST QUALITY WORKMANSHIP & WALLS SHALL BE TRUE & PLUMB. MORTAR JOINTS SHALL BE NOMINAL 3/8 THK & SHALL BE TOOLED WITH A ROUND BAR TO PRODUCE A CONCAVE JOINT. MORTAR JOINTS SHALL BE CLEAN, STRAIGHT & UNIFORM IN THICKNESS.

ABOVE EACH OPENING A #5 HORIZONTAL BAR SHALL BE INSTALLED WITH EACH END EXTENDING A MINIMUM OF 2 FEET BEYOND OPENING. THE HORIZONTAL COURSE SHALL BE GROUTED SOLID.

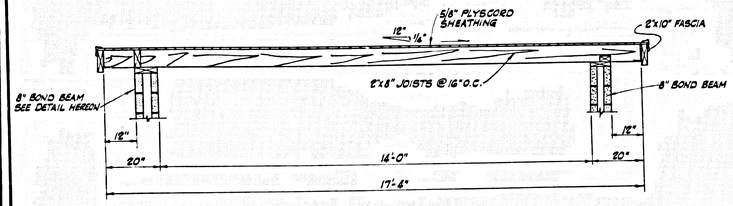
43053

TRACT NO. 30091
SEWAGE PUMP STATION
P.C. 8326 B J.N.

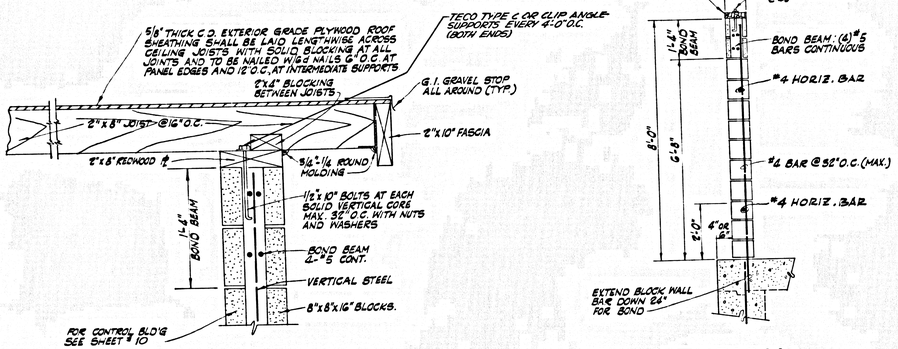
CONTROL BUILDING
PLAN

COUNTY OF LOS ANGELES, CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER

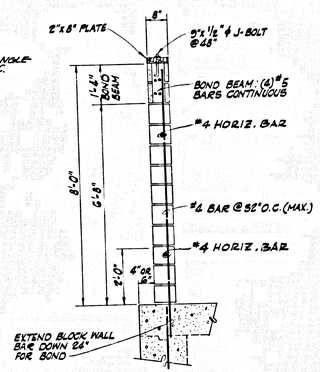
DESIGNED T. PIRRUCCELLO DRAWN BY D.I. McCLURE CHECKED
SCALE AS SHOWN DATE SEPT. 1970 PAGE 10 OF 17 PAGES



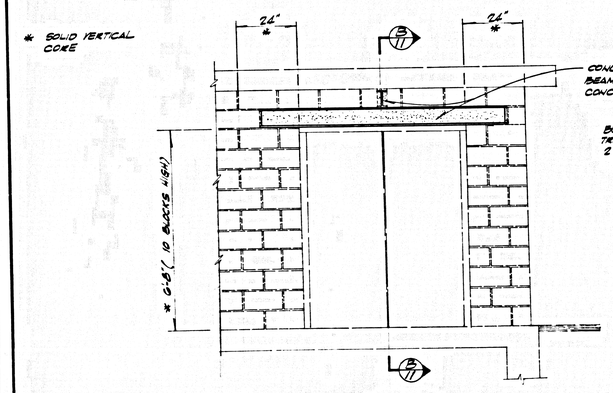
SECTION A-A
SCALE: 1/2"=1'-0"



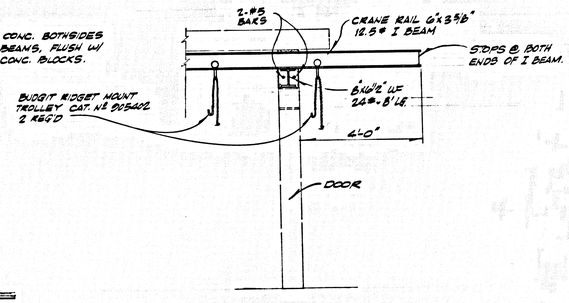
DETAIL A
NOT TO SCALE



TYPICAL WALL SECTION
SCALE: 1/2"=1'-0"



ELEVATION
CRANE RAIL
SCALE 1/2" 1'-0"



SECTION B-B
SCALE 1/2" 1'-0"

43054

TRACT NO. 30091
SEWAGE PUMP STATION

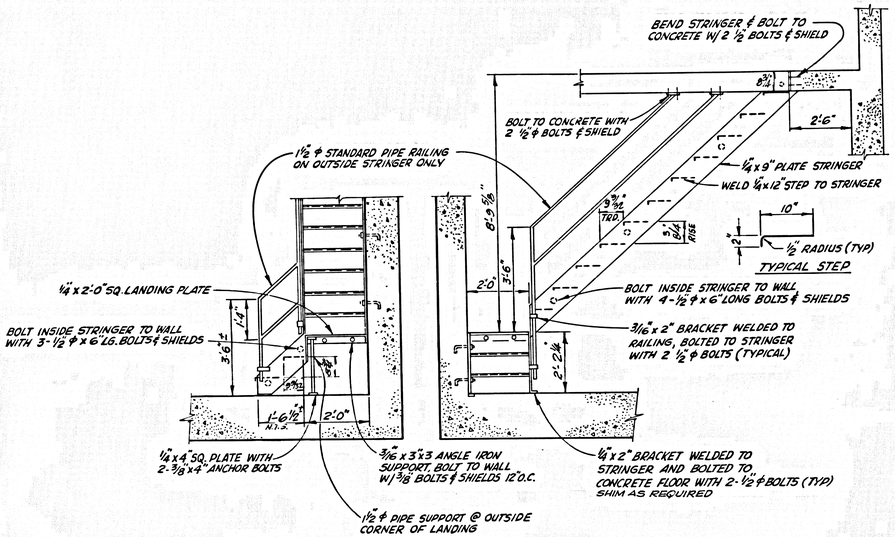
P. C. 8326 B J.N.

CONTROL BUILDING DETAILS

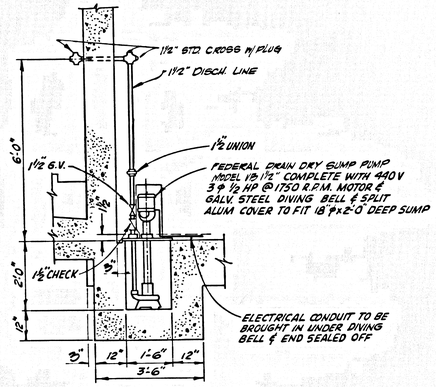
COUNTY OF LOS ANGELES CALIFORNIA

JOHN A. LAMBIE COUNTY ENGINEER

DESIGNED T. PIRRUCCELLO	DRAWN BY: J. MORRELLO	CHECKED
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 11 OF 17 PAGES

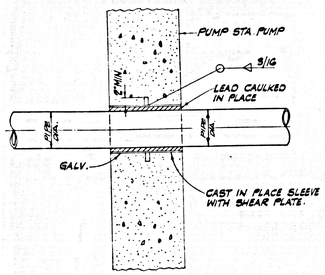


DETAIL OF STAIRS
SCALE: ½=1'-0"

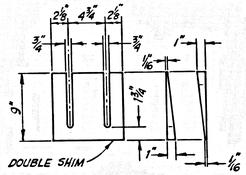


DETAIL OF SUMP
SCALE: ½=1'-0"

NOTES:
1. STAIRWAY RAILING TO BE FABRICATED FROM 1½" ϕ STANDARD PIPE
2. RAILINGS & STAIRWAYS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION AS PER ASTM-A123
3. STEPS & LANDING SHALL HAVE DIAMOND TREAD OR EQUIVALENT SKID RESISTANT SURFACE
4. STAIRWAY & RAILING CONSTRUCTION & DIMENSIONS TO BE FIELD CHECKED PRIOR TO FABRICATION

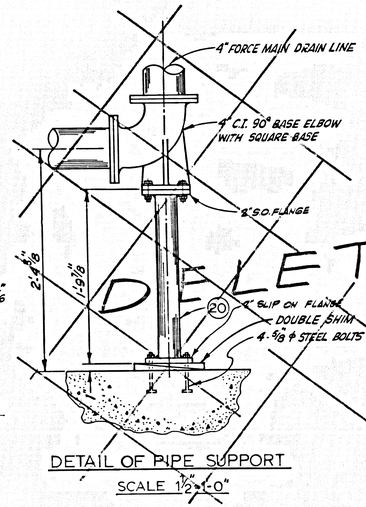


PIPE INSERT DETAIL
SCALE: 1½=1'-0"

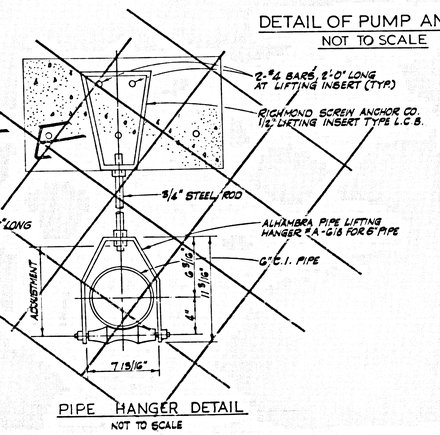


NOTE:
DOUBLE SHIM TO BE MILLED FROM STEEL PLATE STOCK

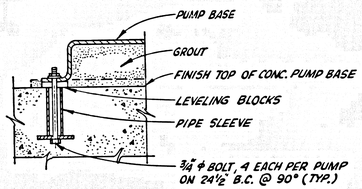
DETAIL OF SHIM BLOCKS
SCALE: 1½=1'-0"



DETAIL OF PIPE SUPPORT
SCALE 1½=1'-0"



PIPE HANGER DETAIL
NOT TO SCALE



DETAIL OF PUMP ANCHOR
NOT TO SCALE

NOTE:
MOUNTING TO BE VERIFIED BY MFG. RECOMMENDATIONS

DELETE

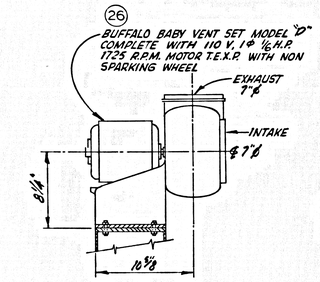
43055

TRACT NO. 30091
SEWAGE PUMP STATION
P. C. 8326 B J.N.

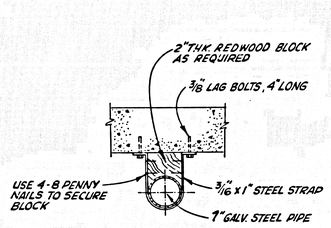
STAIRWAY, SUMP AND PIPE SUPPORT DETAILS

COUNTY OF LOS ANGELES CALIFORNIA
JOHN A LAMBIE COUNTY ENGINEER

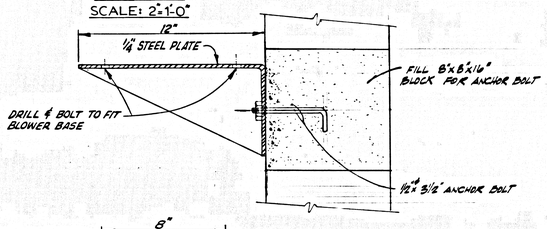
DESIGNED T. PIRRUCCELLO	DRAWN BY DIMCLURE	CHECKED	
SCALE AS SHOWN	DATE SEPT 1970	PAGE 12 OF	PAGES 17

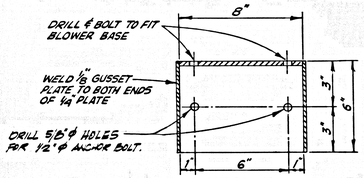


VENT SET
SCALE: 2"-1'-0"

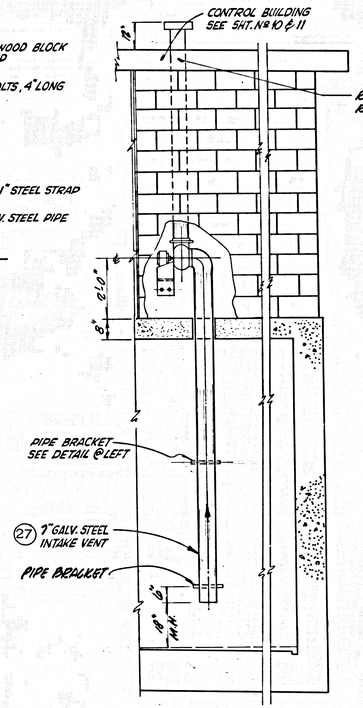


PIPE BRACKET
SCALE: 1"=1'-0"

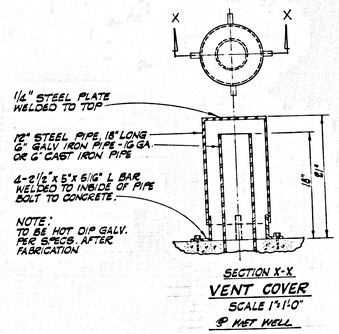




DETAILS
BLOWER SHELF BRACKET
SCALE: 3"=1'-0"



ELEVATION
SCALE: ½"-1'-0"



SECTION X-X
VENT COVER
SCALE 1"=1'-0"
@ WET WELL

DETAILS OF VENTILATION SYSTEM

43056

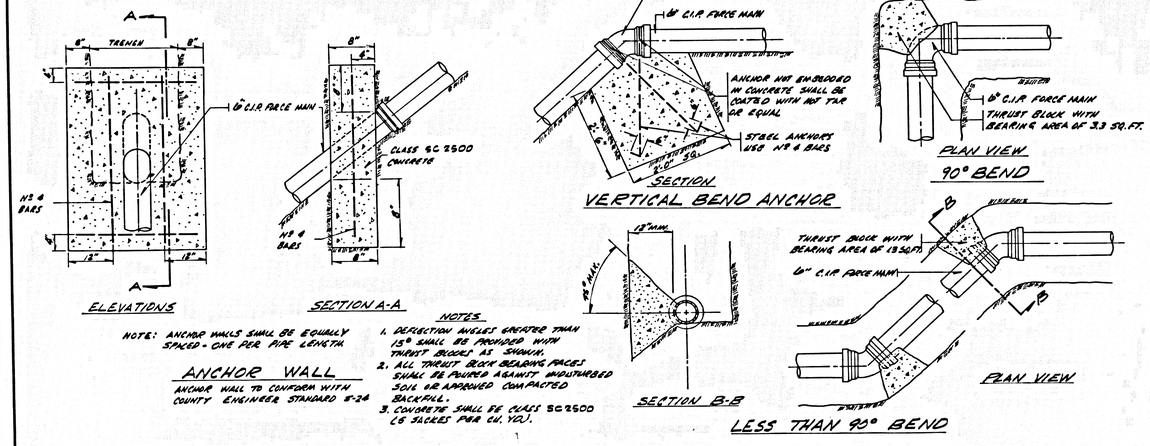
TRACT NO. 30091
SEWAGE PUMP STATION

P. C. 8326 B J.N.

VENTILATION SYSTEM AND WET WELL PIT DOOR DETAILS

COUNTY OF LOS ANGELES CALIFORNIA
JOHN A LAMBIE COUNTY ENGINEER

DESIGNED T. PIRRUCCELLO DRAWN BY D.J. MCCLURE CHECKED
SCALE AS SHOWN DATE SEPT. 1970 PAGE 13 OF PAGES 17



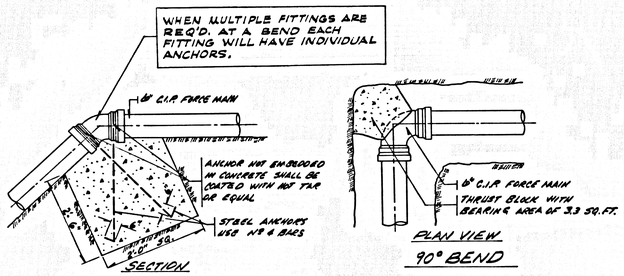
NOTE: ANCHOR WALLS SHALL BE EQUALLY SPACED - ONE PER PIPE LENGTH.

ANCHOR WALL

ANCHOR WALL TO CONFORM WITH COUNTY ENGINEER STANDARD S-24

NOTES

1. DEFLECTION ANGLES GREATER THAN 15° SHALL BE PROVIDED WITH THRUST BLOCKS AS SHOWN.
2. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED BACKFILL.
3. CONCRETE SHALL BE CLASS SC 2500 (5 SACKS PER CU. YD.).



DETAILS OF FORCE MAIN ANCHOR WALLS AND THRUST BLOCKS

NOT TO SCALE

43057

TRACT NO. 30091

SEWAGE PUMP STATION

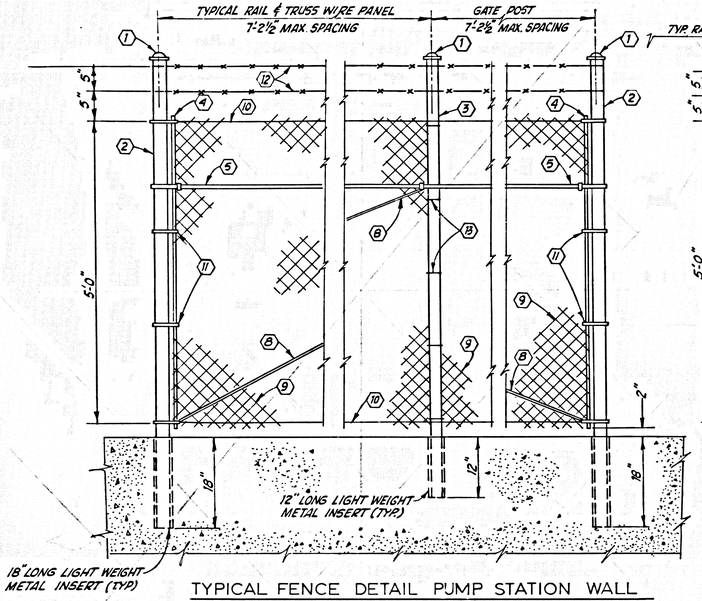
P.C. 8326 B J.N.

FORCE MAIN DETAILS

COUNTY OF LOS ANGELES CALIFORNIA

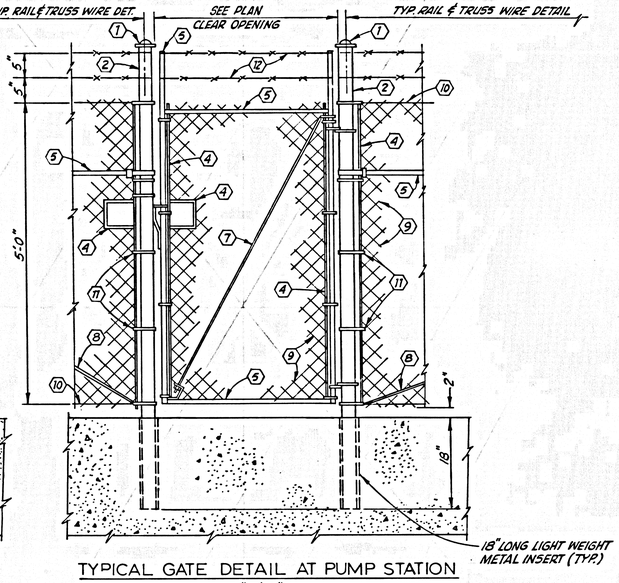
JOHN A. LAMBIE COUNTY ENGINEER

DESIGNED T. PIRRUCCELLO	DRAWN W. PITTMAN	CHECKED
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 14 OF PAGES 17



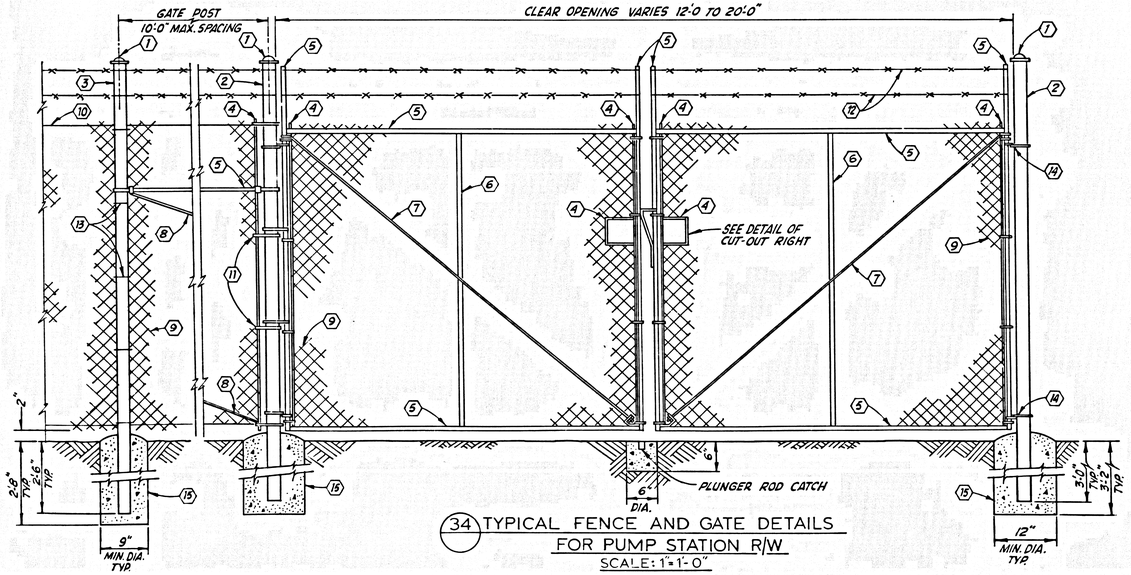
TYPICAL FENCE DETAIL PUMP STATION WALL

SCALE: 1"=1'-0"



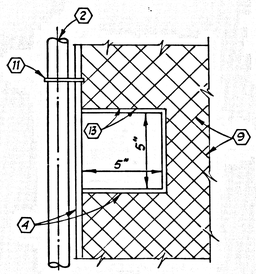
TYPICAL GATE DETAIL AT PUMP STATION

SCALE: 1"=1'-0"



34 TYPICAL FENCE AND GATE DETAILS FOR PUMP STATION R/W

SCALE: 1"=1'-0"



DETAIL CUT-OUT FOR CHAIN & LOCK

SCALE: 3"=1'-0"

GENERAL NOTES

(1) STD. C.I. POST CAP, SECURE WITH ¼" DIA. RIVETS
(2) 2½" ϕ STD. GALV. PIPE (MIN. WT. OF 5.79 LBS PER LIN. FT.)
(3) 2" ϕ STD. GALV. PIPE (MIN. WT. OF 3.65 PER LIN. FT.)
(4) 3/16 x ¾ MIN. GALV. TENSION BAR
(5) 1¼" STD. GALV. PIPE FOR GATE FRAME AND CORNER RAIL PANELS (MIN. WT. OF 2.27 LBS. PER LIN. FT.)
(6) 1" STD. GALV. PIPE STIFFENER (MIN. WT. OF 1.68 LBS. PER LIN. FT.)
(7) ⅜" DIA. TENSION ROD AND TIGHTENER.
(8) 6 GA. DOUBLE TRUSS WIRE WITH ADJUSTABLE TURNBUCKLE, TIGHTENERS & FITTINGS. TURNBUCKLE MUST HAVE 6" MIN. TAKE UP
(9) 9 GAGE 2" MESH, 60" CHAIN LINK FABRIC, GALV. AFTER WEAVING LEAVE TOP BARBS UP
(10) 7 GAGE SPRING STEEL TENSION WIRE WITH 14 GAGE WIRE TIES @ 24" O.C.
(11) ⅛ x ¾ STEEL STRETCHER BAR BANDS, 12" O.C. (TYP. AT END, CORNER & PULL POSTS
(12) 12½ GAGE, 2 STRAND, GALV. 4 POINT BARBED WIRE
(13) 11 GAGE WIRE TIES @ 14" O.C.
(14) GATE HINGES SHALL BE HEAVY DUTY MALLEABLE IRON OR STEEL, INDUSTRIAL TYPE 270 DEGREE SWING OF APPROVED QUALITY & DESIGN
(15) CONCRETE MIX TO BE 1:3:5 CROWN TOP OF FOOTINGS ½" ABOVE GRADE

43058

TRACT NO. 30091
SEWAGE PUMP STATION

P. C. 8326 B J.N.

FENCE & GATE DETAILS

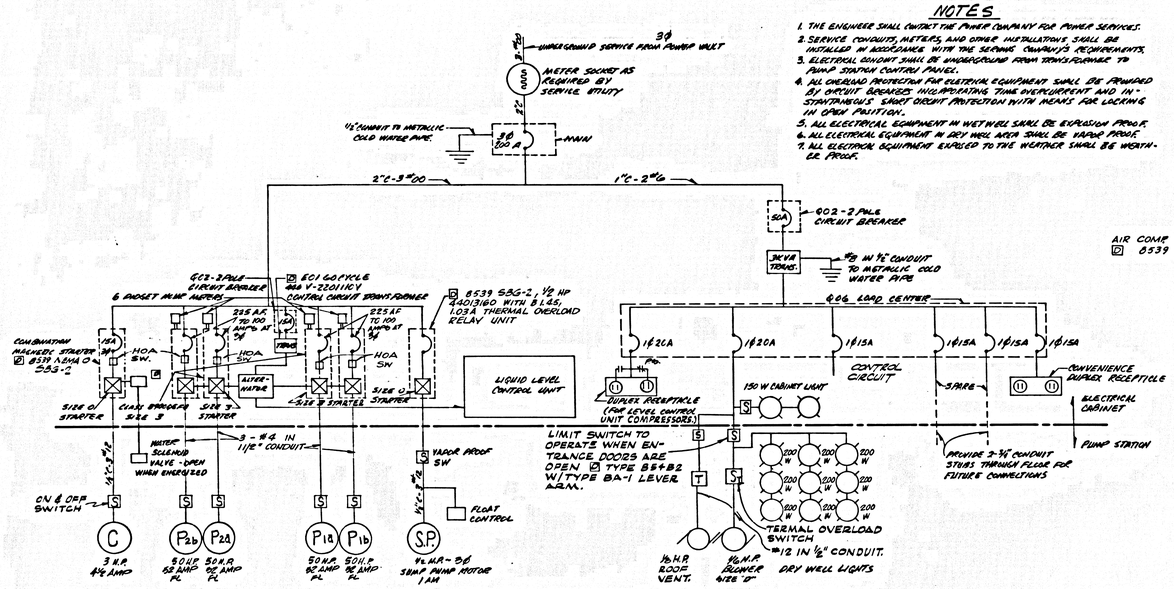
COUNTY OF LOS ANGELES CALIFORNIA

JOHN A LAMBIE COUNTY ENGINEER

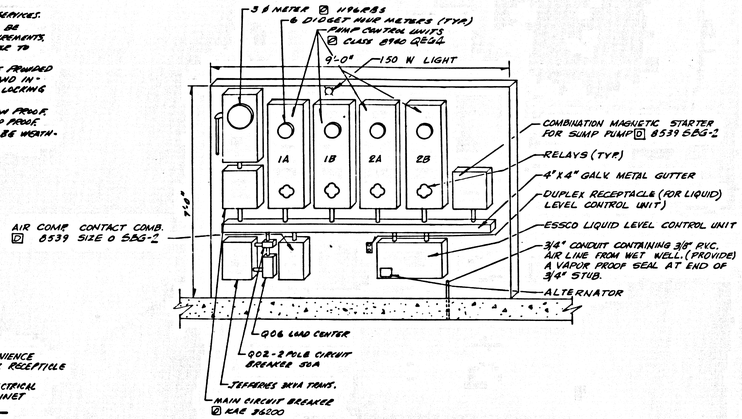
DESIGNED	DRAWN BY D.I. McCLURE	CHECKED
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 15 OF PAGES 17

NOTES

1. THE ENGINEER SHALL CONTACT THE POWER COMPANY FOR POWER SERVICES.
2. SERVICE CONDUITS, METERS, AND OTHER INSTALLATIONS, SHALL BE INSTALLED IN ACCORDANCE WITH THE SERVING COMPANY'S REQUIREMENTS.
3. ELECTRICAL CONDUIT SHALL BE UNDERGROUND FROM TRANSFORMER TO PUMP STATION CONTROL PANEL.
4. ALL OVERLOAD PROTECTION FOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED BY CIRCUIT BREAKERS INCORPORATING TIME OVERCURRENT AND INSTANTANEOUS SHORT CIRCUIT PROTECTION WITH MEANS FOR LOCKING IN OPEN POSITION.
5. ALL ELECTRICAL EQUIPMENT IN WET WELL SHALL BE EXPLOSION PROOF.
6. ALL ELECTRICAL EQUIPMENT IN DRY WELL AREA SHALL BE VAPOR PROOF.
7. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE WEATHER PROOF.

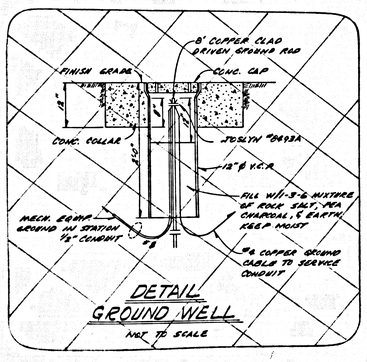


SCHEMATIC ELECTRICAL LAYOUT



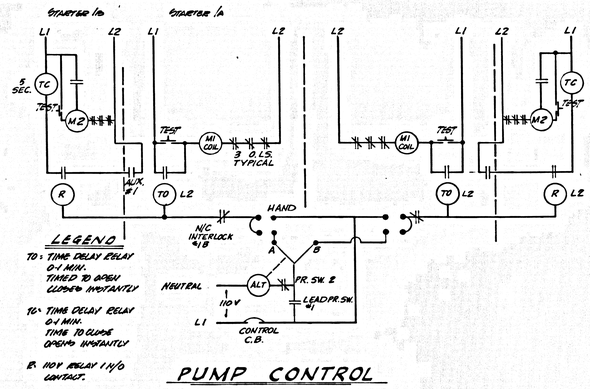
ELECTRICAL CABINET LAYOUT

SCALE: ½" = 1'-0"



DETAIL GROUND WELL

NOT TO SCALE



PUMP CONTROL DIAGRAM

43059

TRACT NO. 30091

SEWAGE PUMP STATION

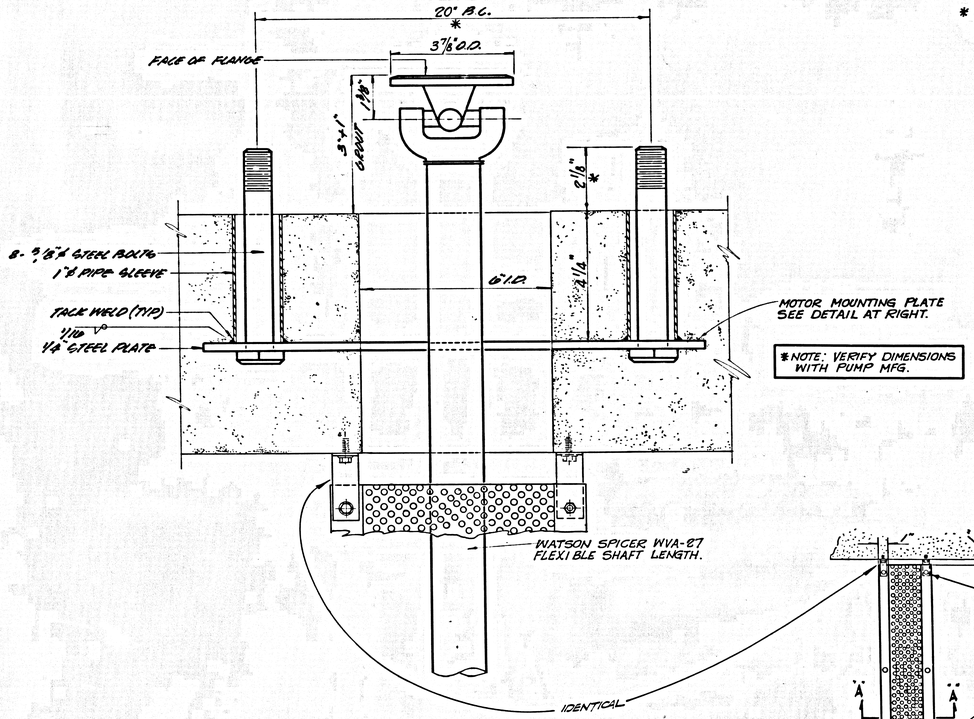
P. C. 8326 B J.N.

ELECTRICAL LAYOUT

COUNTY OF LOS ANGELES CALIFORNIA

JOHN A. LAMBIE COUNTY ENGINEER

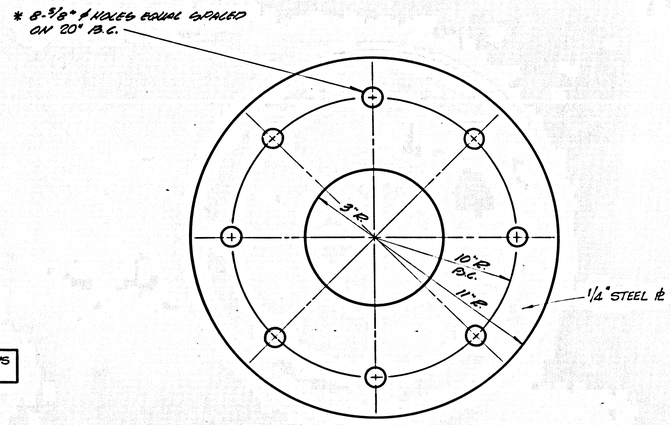
DESIGNED	DRAWN BY T. TEEPLE	CHECKED
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 16 OF PAGES 17



TYPICAL MOTOR MOUNTING PLATE

NO SCALE

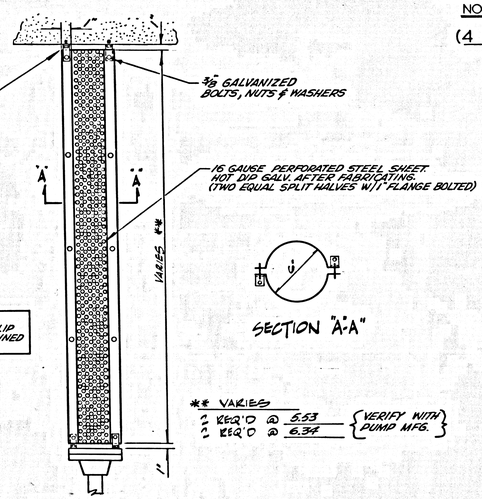
(4 REQ'D.)



TYPICAL MOTOR MOUNTING PLATE

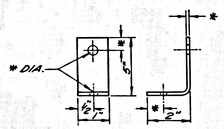
NO SCALE

(4 REQ'D.)



SECTION "A-A"

NOTE:
* DIMENSIONS & ANGLE CLIP LOCATIONS TO BE DETERMINED BY PUMP MANUF.



ANGLE CLIP DETAIL

NO SCALE

SAFETY GUARD DETAIL

NO SCALE

4 REQ'D.

** VARIES
2 REQ'D @ 5.53
2 REQ'D @ 6.34
{VERIFY WITH PUMP MFG.}

43060

TRACT NO. 30091

SEWAGE PUMP STATION

P. C. 8326 B J.N.

TYPICAL MOTOR DETAILS

COUNTY OF LOS ANGELES CALIFORNIA

JOHN A LAMBIE COUNTY ENGINEER

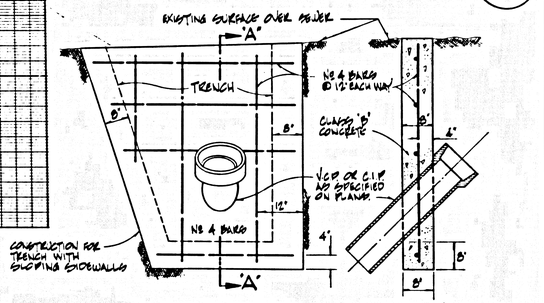
DESIGNED	DRAWN BY C. Gajos	CHECKED
SCALE AS SHOWN	DATE SEPT. 1970	PAGE 17 OF PAGES 17

P.C. 83168 PAGE 18

COMBINED ANCHOR BLOCK AND CUT OFF WALL

TO BE USED WHEN SEWER GRADE IS GREATER THAN 30%, OR WHEN DESIGNATED ON THE PLAN

(4306)



NOTES:

1. TO BE USED AS AN ALTERNATE FOR ANCHOR BLOCKS PER S-24 AND BAFFLE BOARDS PER S-31.
2. ANY METHOD OF FORMING MAY BE USED PROVIDED THE MINIMUM DIMENSIONS ARE MET.
3. ALL DIMENSIONS SHOWN ARE MINIMUM.
4. TOP OF CUTOFF WALL CAN BE 0' MAXIMUM BELOW FINISH SURFACE OVER SEWER.

PAGE