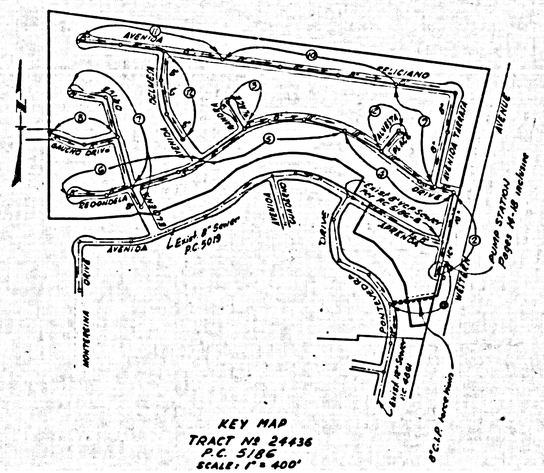
BM 35.4 H.W. OF S.H. PEDRO ON WESTERN AVE, WEST SIDE, 0.8 MILE SOUTH OF PALOS VERDES DRIVE NORTH A LARGE BOAT SPIKE IN LEAD IN THE TOP OF THE MOST WESTERLY CORNER OF A CONC. HEADWALL AT N'MLY END OF A 72 INCH CORRUGATED IRON CULVERT. HEADWALL CHISLED. 1933 ADJ. ELEV. 198.976 FT. PER C.S.F.B. 1356.10



KEY MAP
TRACT Nº 24436
P.C. 5186
SCALE: 1" = 400'

LOMITA BLDG. DIST. NO. 7.1

NOTES

1. SHOWING STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE
2. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
3. THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND Y BRANCHES AND SHALL PROVIDE STAKES FOR THEIR AT TYPE PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ANY CHANGES OR LOCATION SHALL BE REQUESTED OR WRITING BY THE OWNER OR HIS REPRESENTATIVE.
4. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH IN HOUSE LATERAL ON THE GRADE SHEET
5. NO REVISIONS SHALL BE MADE ON THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
6. USE STANDARD MANHOLE FRAMES AND COVERS, S-6-117, EXCEPT AS NOTED.
7. USE STANDARD STRENGTH PIPE
8. USE CEMENT MORTAR OR "HYDRO-SEAL" FOR ALL V.C.P. JOINTS PER SPEC'S., SPCS. 26 & 46.
9. RESURFACE ALL TRENCH WITHIN PAVED AREA TO MEET L.A. COUNTY ROAD DEPT. OR CALIF. STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
10. ENCASE FOUR FEET OF SEWER AT POINTS OF INTERFERENCE WITH POLES, CASE III, S-6-173.
11. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED
12. ALL STRUCTURES SHALL BE PLACE SEWER STRUCTURES, S-6-106,
13. FOR ALLOWABLE LEAKAGE TEST USE FORMULA NO. 1 SPEC'S. SEC. 26.
14. MANHOLE TOPS IN UNIMPROVED RIGHTS-OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION & STORM DRAIN DIVISION OF TELEPHONE, RAndom 9-6141, EXT. 302, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
16. a NO CONSTRUCTION WILL BE PERMITTED IN FILLED AREAS UNLESS ACCEPTABLE CERTIFICATION IS SUBMITTED TO THE CONSTRUCTION DIVISION OF THE COUNTY ENGINEERS DEPARTMENT THAT RELATIVE COMPACTION IS GREATER THAN 90%.
    b IF COMPACTION IS LESS THAN 90% THE SEWER MUST BE CRADLED AS SHOWN ON THE PLANS PER S-6-166.
    c IF COMPACTION IS GREATER THAN 90% CRADLING AND SPECIAL M.H. BASES ARE NOT REQUIRED HOWEVER JOINT COMPOUND MUST BE SUBSTITUTED FOR CEMENT MORTAR IN ALL JOINTS IN FILLED AREAS.
17. ALL HOUSE LATERALS OR MAIN LINE SEWERS CROSSING STORM DRAIN NOT OTHERWISE CRADLED SHALL BE CRADLED PER S-6-173 CASE III.
18. STANDARD SPECIFICATIONS DATED JANUARY 1, 1960 APPLY IN THE CONSTRUCTION OF THIS PROJECT
19. C.L.R. SHALL BE CLASS 150 STD. TYTON WITH NEOPRENE GASKETS
20. CONCRETE THRUST BLOCKS ARE REQUIRED AT ANGLE POINTS WHERE NOTED ON PLAN. TWO SQ. FT. OF BEARING AGAINST TRENCH WALL IS NOTED AS 2 SF OF THRUST BLOCK.

NO CHARGES FOR CONNECTIONS
L. Curtiss 3-8-60

PROFILE ALIGNMENT AND GRADE OF P.C. 5186
SANITARY SEWERS PAGE 1.
TO BE CONSTRUCTED IN J.N. 0351.12
TRACT Nº 24436

PRIVATE CONTRACT NO. 5186

W.S. 28.

12 SHEETS; 18 PAGES

SCALE: VERT. 1"=5' HOR. 1"=40' JANUARY, 1960

20364

PREPARED IN THE OFFICES OF
DEVELOPMENT CONSULTANTS INC.
ENGINEERING DIVISION
By _____ REG. C. E. NO. 9585

FOR LEGEND SEE PLAN NO. S-A-64

NOTE

BEARINGS TO WHICH THESE IMPROVEMENTS ARE TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEY'S ARE TWO MM BY CIRCLES ON PROFILES AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ELIABLISHED SO AS TO CONFORM TO A STRAIGHT LINE BEARING BETWEEN SAID DESIGNATED POINTS.

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

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

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

BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L. A. COUNTY ROAD DEPT. DISTRICT OFFICE NO. 3 AND PAY A FEE TO THE COUNTY ENGINEER, ROOM 372 HALL ADMINISTRATION BUILDING, 383 SO. BROADWAY SUFFICIENT TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.

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

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

COUNTY OF LOS ANGELES, CALIFORNIA

APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER

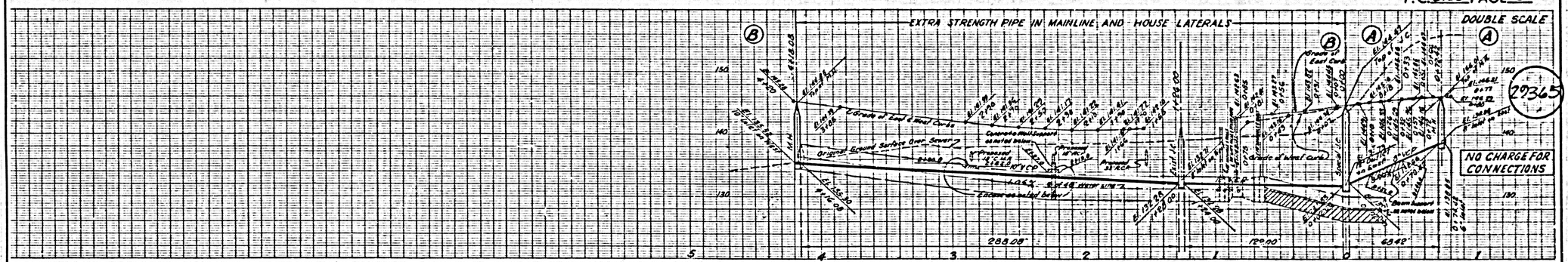
BY _____ ASS'T. SANITATION ENGINEER

APPROVED, C. H. CAMPEN CHIEF ENGINEER
FOR SAN. DIST. NO. 5
BY _____ DEPUTY ENGINEER

CHECKED BY B. F. Harling 3-14-60
OFFICE OF COUNTY ENGINEER, REG. C. E. NO. 11636

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

P.C. 5186 PAGE 2

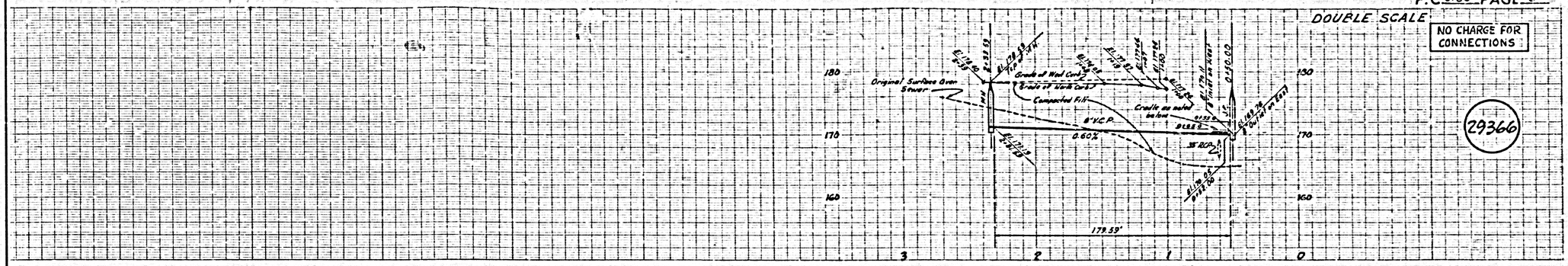

EXTRA STRENGTH PIPE IN MAINLINE AND HOUSE LATERALS
DOUBLE SCALE
NO CHARGE FOR CONNECTIONS
29365
Original Ground Surface Over Sewer
Encase as noted below
Concrete Wall Support as noted below
Grade of Land & Street Curbs
Grade of Street Curb
Curb Elevation
Gutter Elevation
Curb Elevation
Gutter Elevation
Curb Elevation
Gutter Elevation

P.C. 5186 PAGE 3

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29366

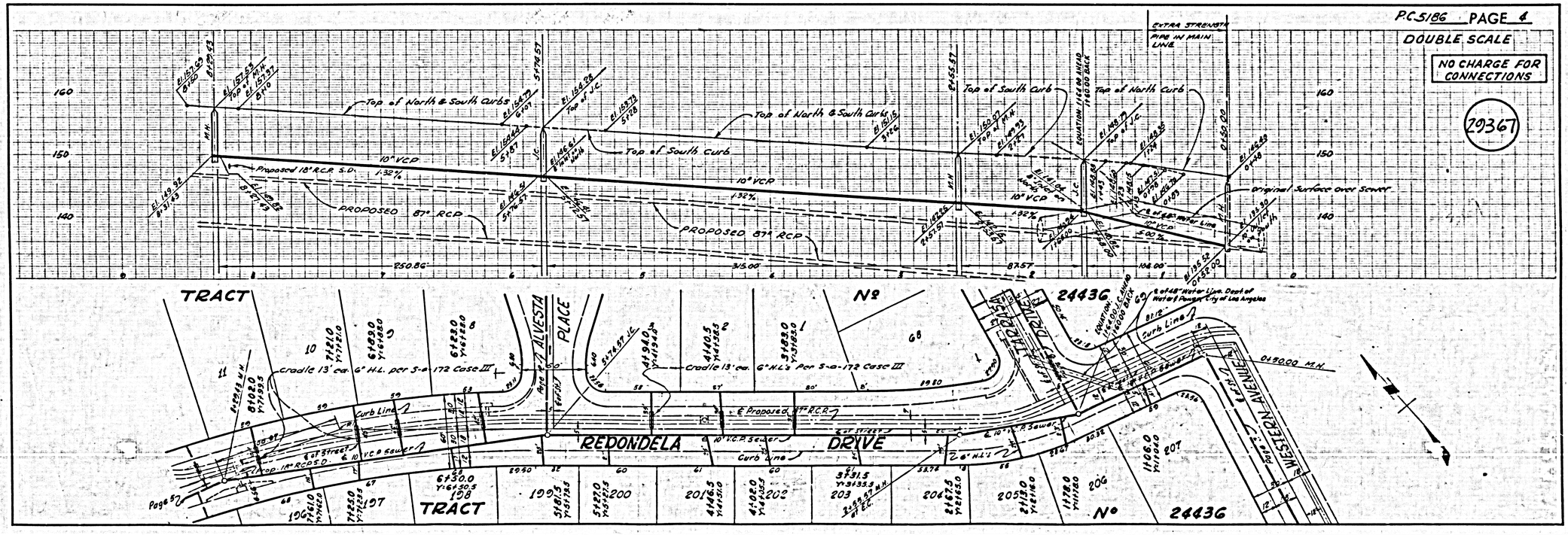


P.C. 5186 PAGE 4

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29367



P.C. 5186 PAGE 5

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29368

EXTRA STRENGTH PIPE IN MAIN LINE AND HOUSE LATERALS

Top of North & South Curbs

Top of South Curb

8"VCP

Proposed 36" RCP Storm Drain

Compacted Fill

Idenical

10"VCP

Proposed 36" RCP Storm Drain

8" RCP

REDONDELA DRIVE

TRACT

No 24436

Curb Line

6" H.L.S

10"VCP Sewer

Cradle 9" of 6" H.L.S Per S-a-172, Case III

Construct 6" H.L.S Per S-a-172, Case XIII

IDENTICAL POINTS

AVENIDA DELMEJA

P.C. 5186 PAGE 6

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29369

EXTRA STRENGTH PIPE IN MAIN LINE AND HOUSE LATERALS

Top of North & South Curbs

8"VCP

Proposed 36" RCP Storm Drain

Proposed 30" RCP Storm Drain

Proposed 18" RCP Storm Drain

Excess as noted below

Original Ground Surface

Compacted Fill

REDONDELA DRIVE

ELDENA PLACE

AVENIDA DELMEJA

TRACT

No 24436

Construct 6" H.L.'s per S-a-172, Case VIII

Cradle 9" of 6" H.L.S Per S-a-172, Case III

Encase 10' of 8" CLP Per S-a-172, Case III

REVISION

Revised Sewer Line Grade from Sta. 21+86.49 to Sta. 25+66.59.

Approved May 11, 1960

Edward J. Smith

P.C. 5186 PAGE 3

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29367

EXTRA STRENGTH PIPE IN MAIN LINE AND HOUSE LATERALS

Top of North & South Curbs

Top of South Curb

8"VCP

Proposed 36" RCP Storm Drain

Compacted Fill

Idenical

10"VCP

Proposed 36" RCP Storm Drain

8" RCP

REDONDELA DRIVE

TRACT

No 24436

Curb Line

6" H.L.S

10"VCP Sewer

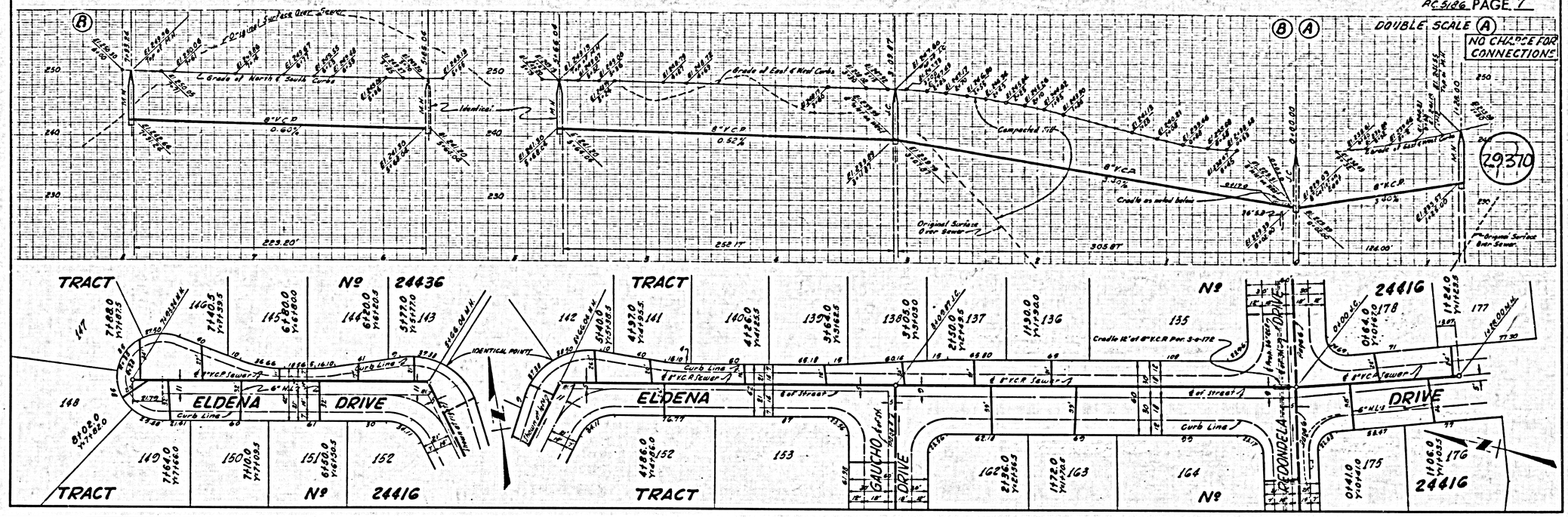
Cradle 9" of 6" H.L.S Per S-a-172, Case III

Construct 6" H.L.S Per S-a-172, Case XIII

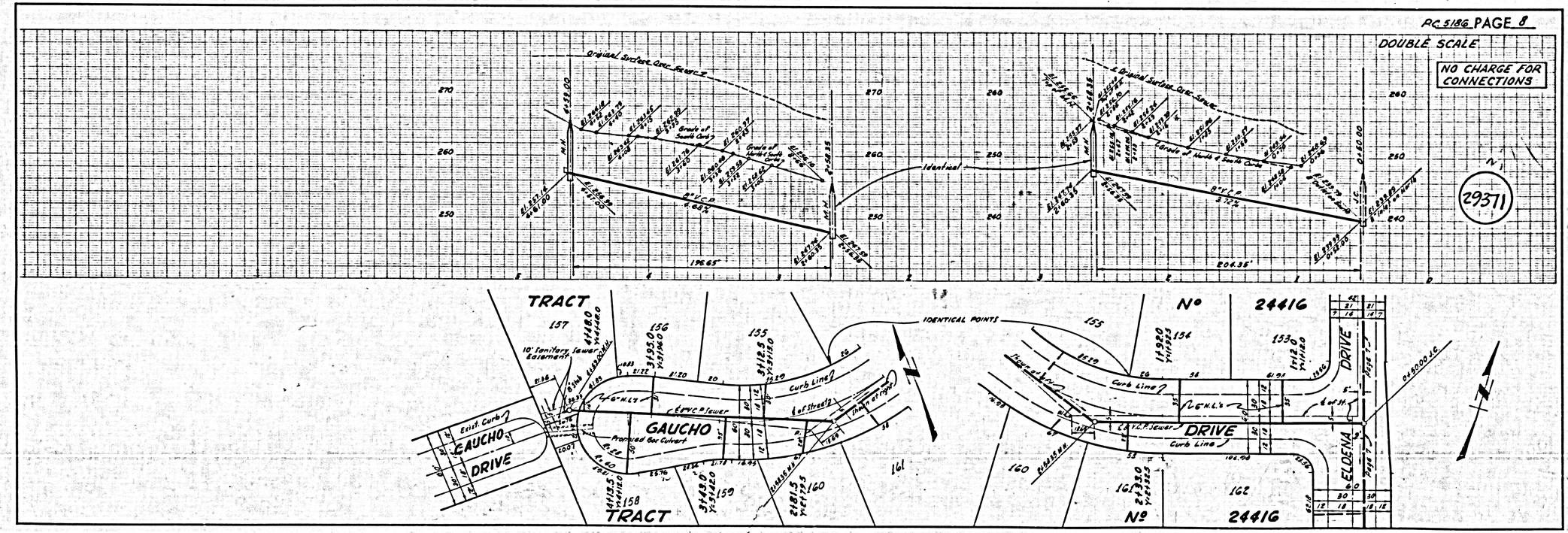
IDENTICAL POINTS

AVENIDA DELMEJA

RC 5186 PAGE 7



RC 5186 PAGE 8

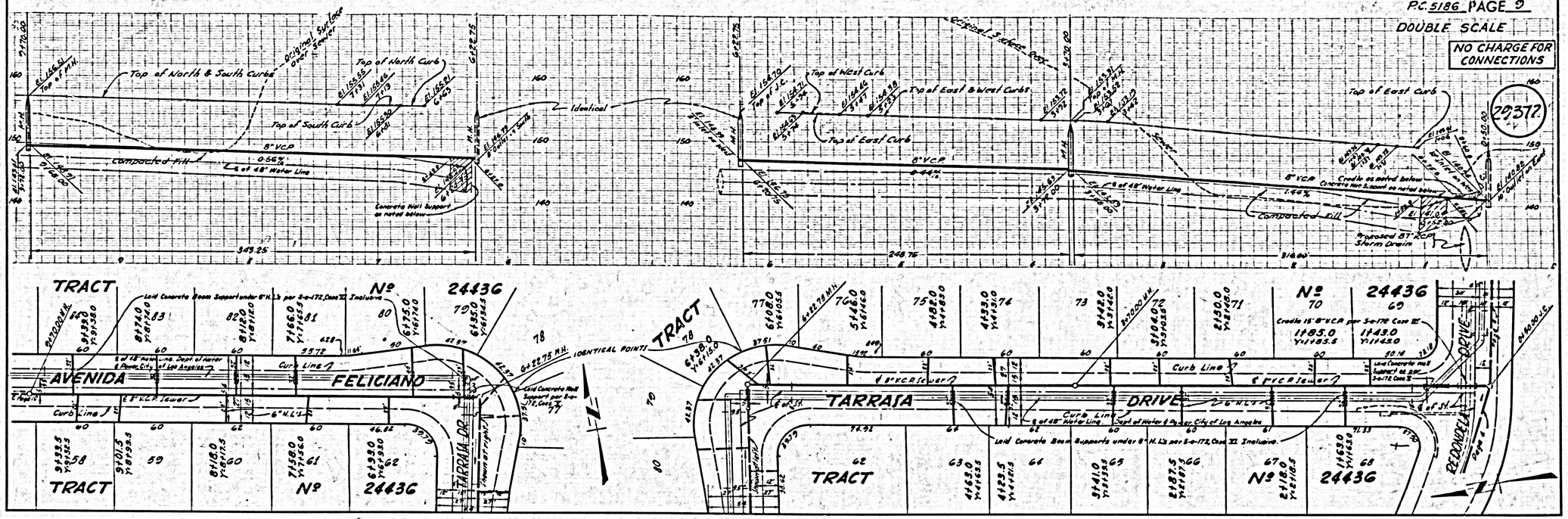


P.C. 5186 PAGE 9

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29372



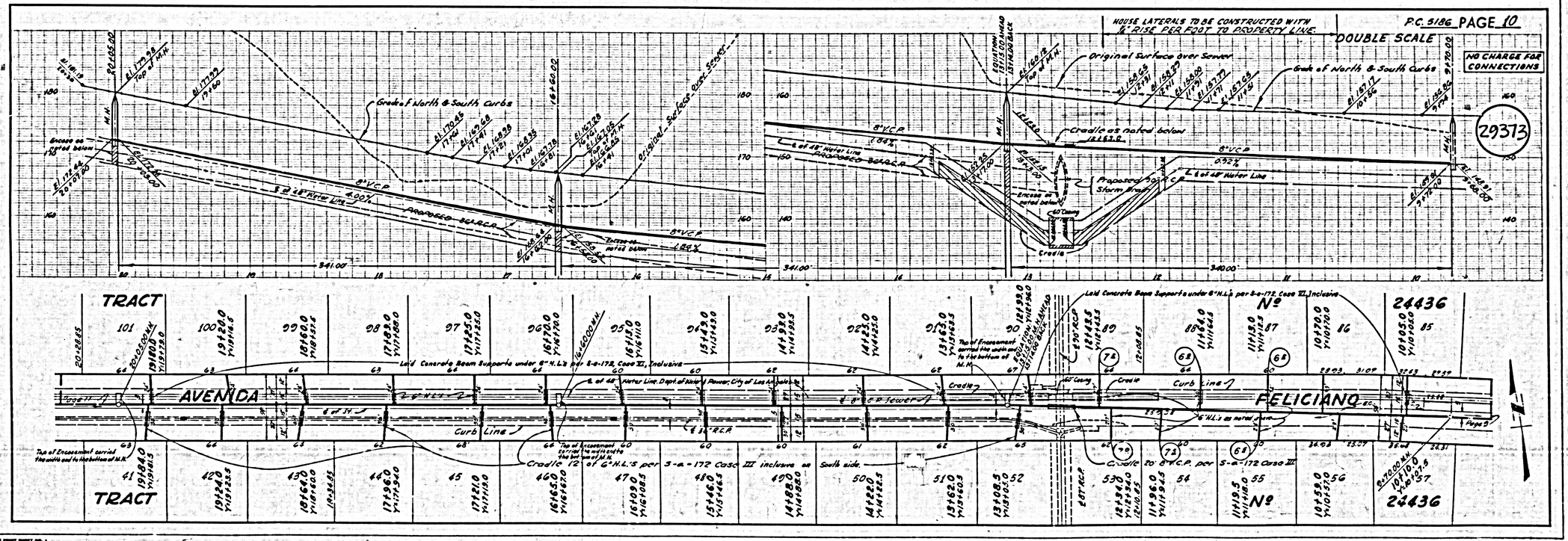
P.C. 5186 PAGE 10

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

HOUSE LATERALS TO BE CONSTRUCTED WITH 4" RISE PER FOOT TO PROPERTY LINE.

29373

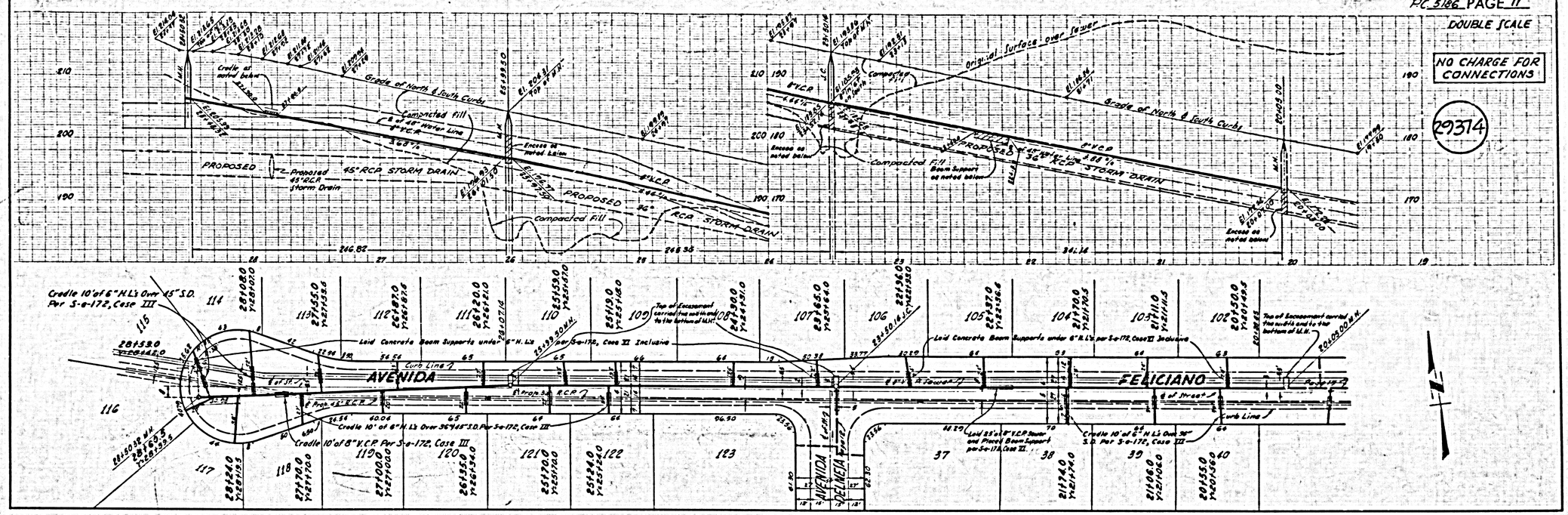


P.C. 5186 PAGE 11

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29314

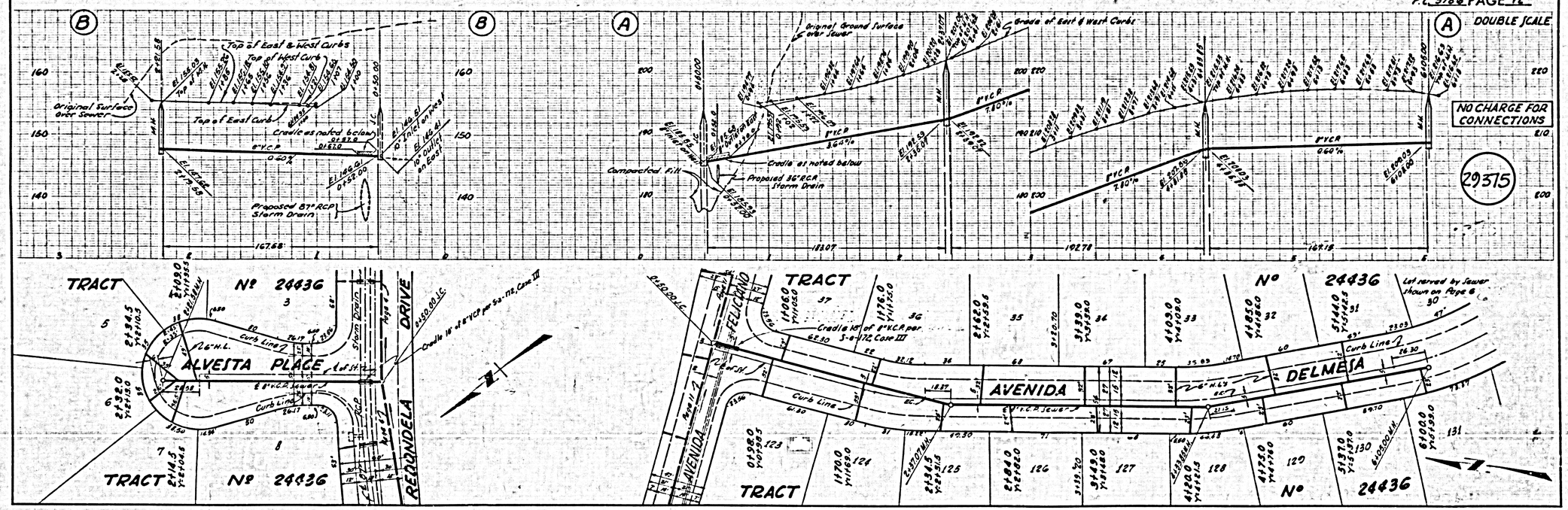


P.C. 5186 PAGE 12

DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

29315

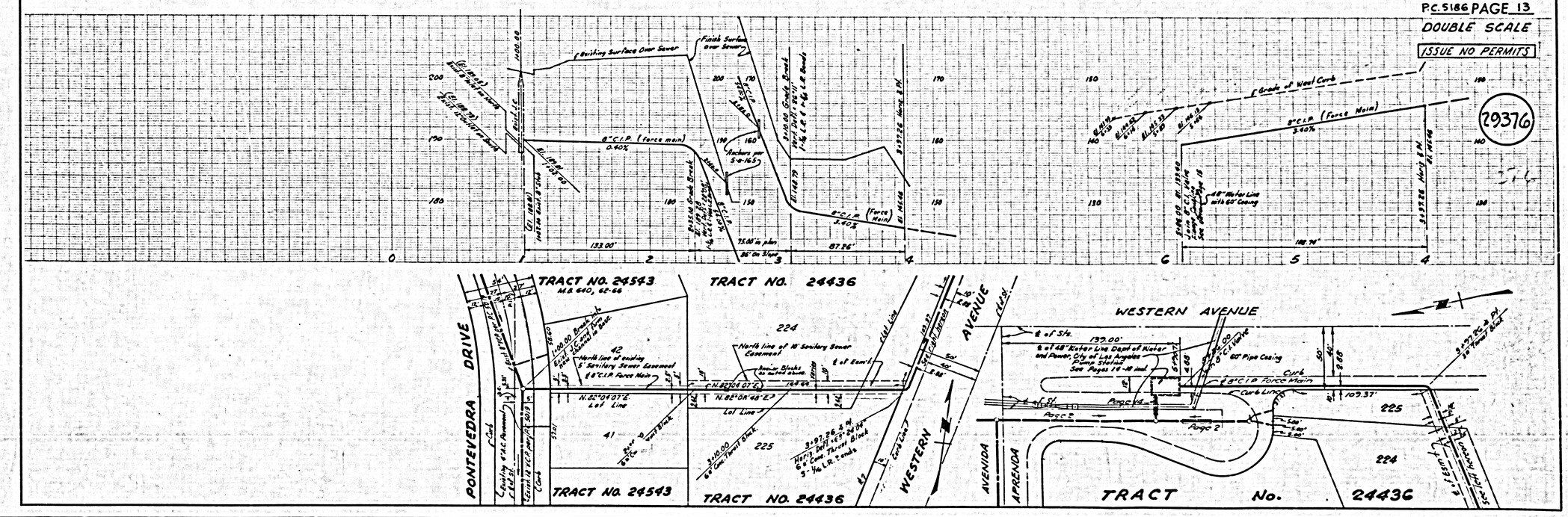


P.C. 5186 PAGE 13

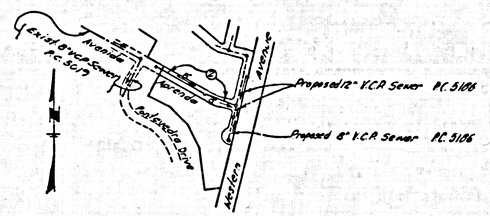
DOUBLE SCALE

ISSUE NO PERMITS

29376



B.M. 35.6 N.W. OF SAN PEDRO ON WESTERN AVE., WEST SIDE, 0.8 MILE SOUTH OF PALOS VERDES DRIVE NORTH A LARGE BOLT STAKE IN LEAD IN THE TOP OF THE MOST WESTERLY CORNER OF A CONC. HEADWALL AT N.W.LY END OF A 72 INCH CORRUGATED IRON CULVERT HEADWALL CHISELED. 1933 ADJ. ELEV 138.976 FT. PER C.S.F.B. 1356-J6



KEY MAP
TRACT No. 24436
P.C. 5186-B
SCALE 1" = 400'

NO CHARGES FOR CONNECTIONS
Arthur B. Leedy

LOMITA BLDG. DIST. NO. 7.1

NOTES

1. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AS THE CENTER LINE OF EACH MANHOLE.
2. P.E. REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
3. THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND Y BRANCHES AND SHALL PROVIDE STAKES FOR THESE AT THOSE PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ANY CHANGE IN LOCATION SHALL BE REQUESTED IN WRITING BY THE OWNER OR HIS REPRESENTATIVE
4. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
5. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
6. USE STANDARD MANHOLE FRAMES AND COVERS, S-117, EXCEPT AS NOTED.
7. USE STANDARD STRENGTH PIPE
8. USE CEMENT & DARAR OR "WEBB-LOCK" OR "SPEED-SEAL" FOR ALL V.C.P. JOINTS PER SPEC'S., SECS. 36 & 48.
9. RESURFACE ALL TRENCH WITHIN PAVED AREA TO WHY L.A. COUNTY ROAD DEPT. OR CALIF. STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
10. ENCASE FOUR FEET OF SEWER AT POINTS OF INTERFERENCE WITH POLES, CASE III, S-172.
11. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE ___ FEET BELOW CURB GRADE EXCEPT AS NOTED.
12. ALL STRUCTURES SHALL BE BRICK SEWER STRUCTURES, S-301.
13. FOR ALLOWABLE LEAKAGE TEST USE FORMULA W.D. ___ / ___, SPEC'S., SEC. 24.
14. MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION & STORM DRAIN DIVISION BY TELEPHONE, MADISON 5-0411, EXT. 363, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
16. ALL HOUSE LATERALS OR MAIN LINE SEWERS CROSSING STORM DRAIN NOT OTHERWISE ENTITLED SHALL BE INCASED PER S-A-172 CASE III.
17. STANDARD SPECIFICATIONS DATED MAY 15, 1959 APPLY IN THE CONSTRUCTION OF THIS PROJECT.

ISSUE NO PERMIT UNTIL TRACT Nº 24436 RECORDS AND OUTLET IS BUILT.

PROFILE ALIGNMENT AND GRADE OF P.C. 5186-B

SANITARY SEWERS PAGE 1

TO BE CONSTRUCTED IN J.N. 0351.12

TRACT No. 24436

(LOTS NUMBERED 210 THROUGH 220 INCLUSIVE)

PRIVATE CONTRACT NO. 5186-B

W.S. 28

1 SHEET 2 PAGES

SCALE: VERT. 1"=5' HORIZ. 1"=40' DECEMBER, 1959

PREPARED IN THE OFFICES OF
DEVELOPMENT CONSULTANTS INC.
ENGINEERING DIVISION

By: _____ REG. C. E. NO. 9553

28,690

FOR LEGEND SEE PLAN NO. S-A-64

NOTES

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 "L" TYPE 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. DATA (1929 DATUM) OF 1915.

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

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

BEFORE WORK CAN BE STARTED THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L. A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 3 AND MAY SEE TO THE COUNTY ENGINEER, ROOM 324 PAN AMERICAN BUILDING, 363 SO. BROADWAY SUFFICIENT TO CUPER 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 OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND WATER MAIN, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.

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

COUNTY OF LOS ANGELES, CALIFORNIA

APPROVED, JOHN A. LAMBIE, COUNTY ENGINEER APPROVED, C.E. CHAFFEE, CHIEF ENGINEER

CO. SAN. DIST. NO. 6

BY _____ ASST. SANITATION ENGINEER BY _____ OFFICE ENGINEER

CHECKED BY S.K. Dida 12-22-59

OFFICE OF COUNTY ENGINEER, REG. C. E. NO. _____

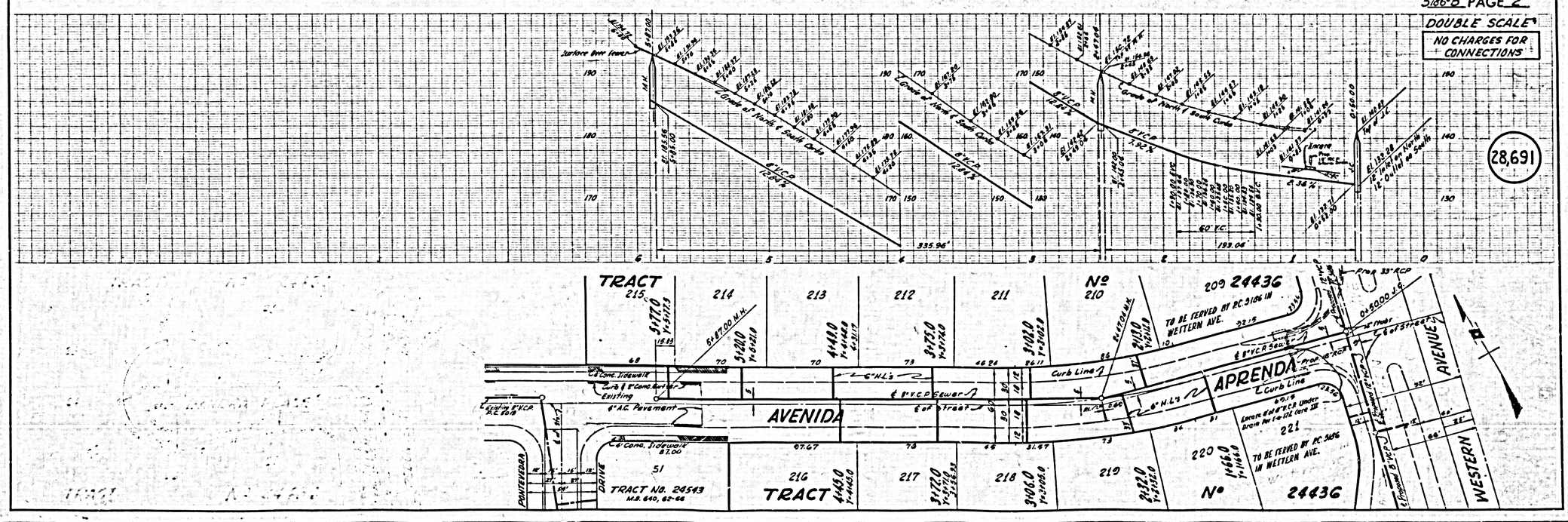
SUBMITTED BY Jack C. Fensing
Palos Verdes-Cerritos Valley Regional Engineer

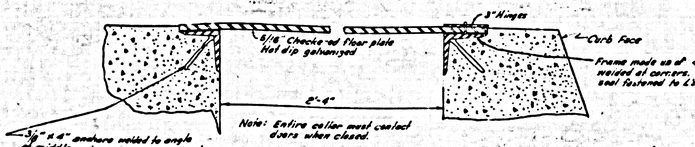
5186-B PAGE 2

DOUBLE SCALE

NO CHARGES FOR CONNECTIONS

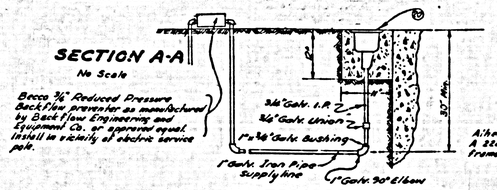
28,691





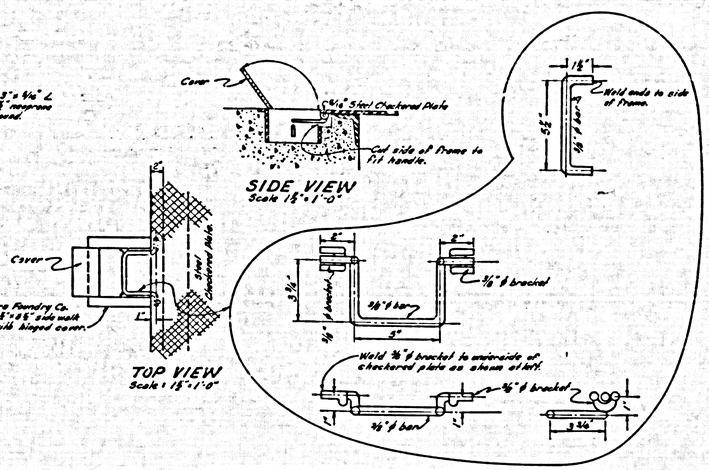
SECTION A-A

No Scale



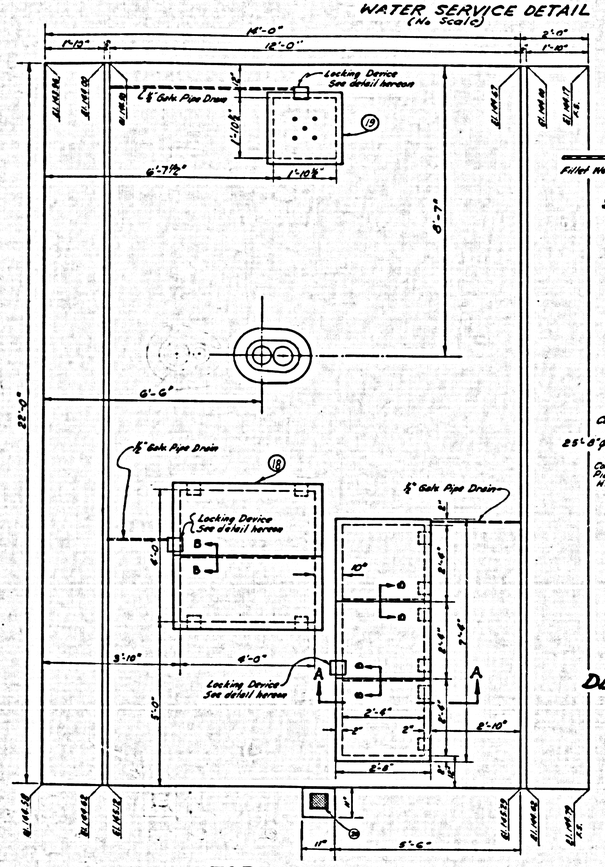
WATER SERVICE DETAIL

(No Scale)



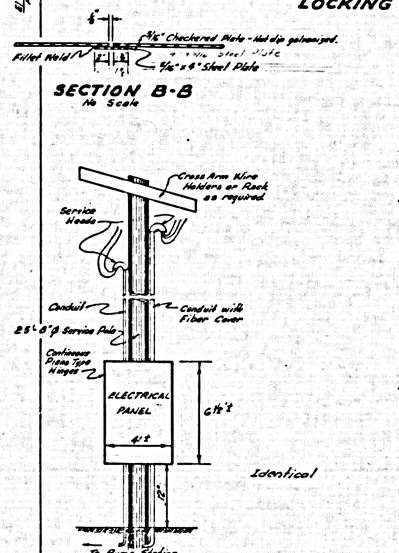
LOCKING DEVICE ASSEMBLY

Note:
Contractor to supply 4 Padlocks Sargent 753 HSKA U65714



TOP PLAN VIEW

Scale: 1/2" = 1'-0"



SECTION B-B

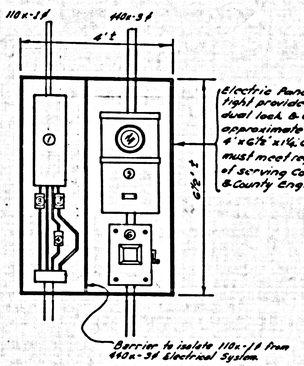
No Scale

DETAIL SERVICE POLE

(No Scale)

NOTES:

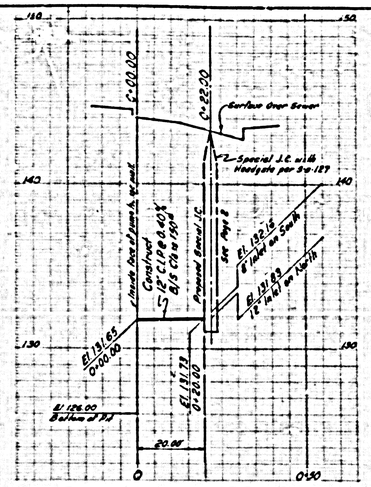
1. LIGHTING SERVICE - 110V - 100 AMP - 1ø
   POWER SERVICE - 440 V - 300 AMP - 3ø
2. CONTRACTOR WILL SUPPLY SERVICE AND METER POLE INCLUDING ALL NECESSARY CONDUIT, SERVICE HEADS, FITTINGS, FIBRE COVERS, SAFETY SOCKET BOXES, AND ALL OTHER ITEMS AS REQUIRED. REFERENCE IS MADE TO SOUTHERN CALIFORNIA EDISON COMPANY'S "ELECTRICAL SERVICE REQUIREMENTS"
3. PANEL BOX IS TO BE MOUNTED ON EAST SIDE OF POLE.
4. THE ENTIRE SERVICE INSTALLATION SHALL BE GROUNDED TO THE WATER SERVICE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE STATE OF CALIFORNIA ELECTRICAL SAFETY ORDERS.



ELECTRICAL PANEL

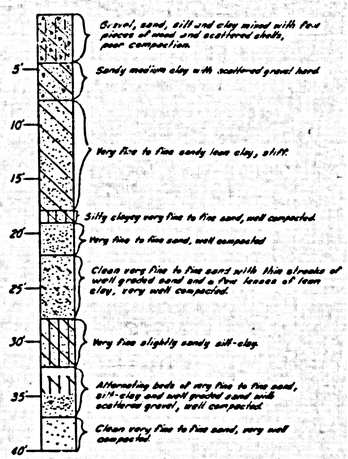
(No Scale)

SEE SHEET 10 FOR NOMENCLATURE



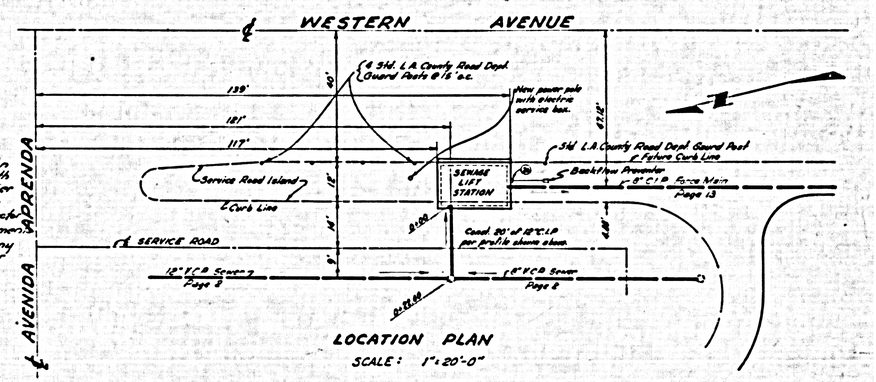
PROFILE OF 12" C.I. INLET PIPE

Scales
Horiz. 1" = 20'
Vert. 1" = 6'



SOIL BORING AT LIFT STATION SITE

NOVEMBER, 1959



LOCATION PLAN

SCALE: 1" = 20'-0"

NOTE: PRIOR TO CONSTRUCTION OF THIS PUMP STATION THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE L.A. COUNTY ROAD DEPARTMENT AND COMPLY WITH ALL THEIR REQUIREMENTS.

DATE	REVISION	APPROVED

PRIVATE CONTRACT No 51866
SEWAGE LIFT STATION
MECHANICAL DETAILS

COUNTY OF LOS ANGELES
CALIFORNIA

APPROVED: JOHN A. LAMBIE
COUNTY ENGINEER

APPROVED: C.R. COMPTON
CHIEF ENGINEER
CO. SAN. DIST. No 5

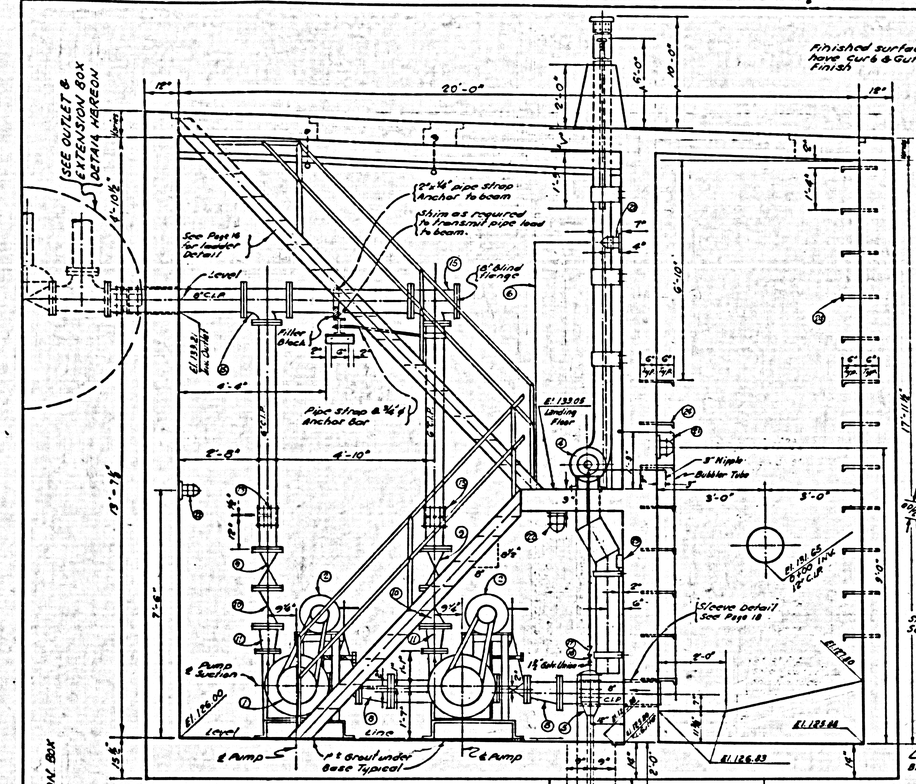
BY: P. E. Arnold
ASST. SANITATION ENGINEER

BY: J. Voethman
OFFICE ENGINEER

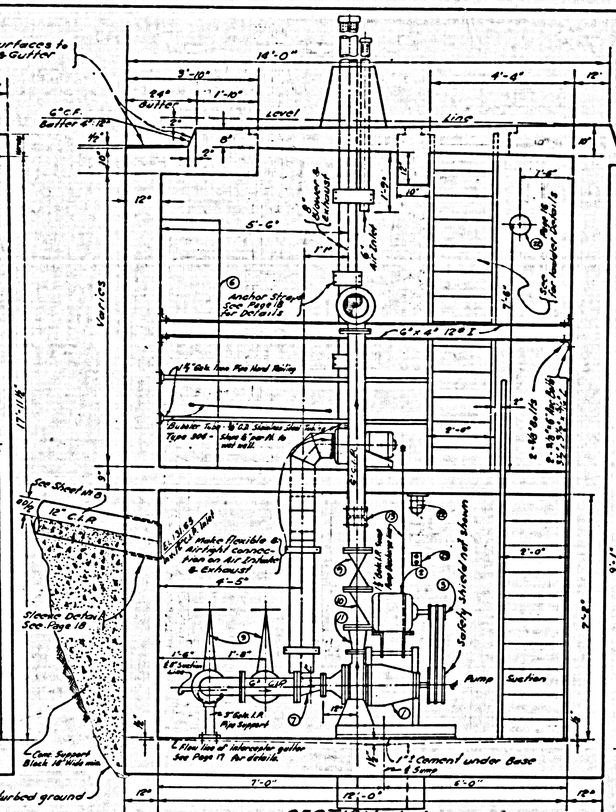
CHECKED BY: R. F. Nolan 2-14-62
OFFICE OF COUNTY ENGINEER REG. C.E. No. 11636

PREPARED BY:
DEVELOPMENT CONSULTANTS INC.
ENGINEERING DIVISION
1095 EAST GREEN STREET
PASADENA — CALIFORNIA

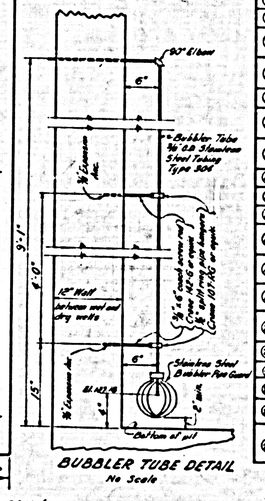
DATE: JAN. 1960 | SCALE AS SHOWN | PAGE 14 OF 18 PAGES



SECTION B-B
SCALE ½" = 1'-0"



SECTION A-A
SCALE ½" = 1'-0"



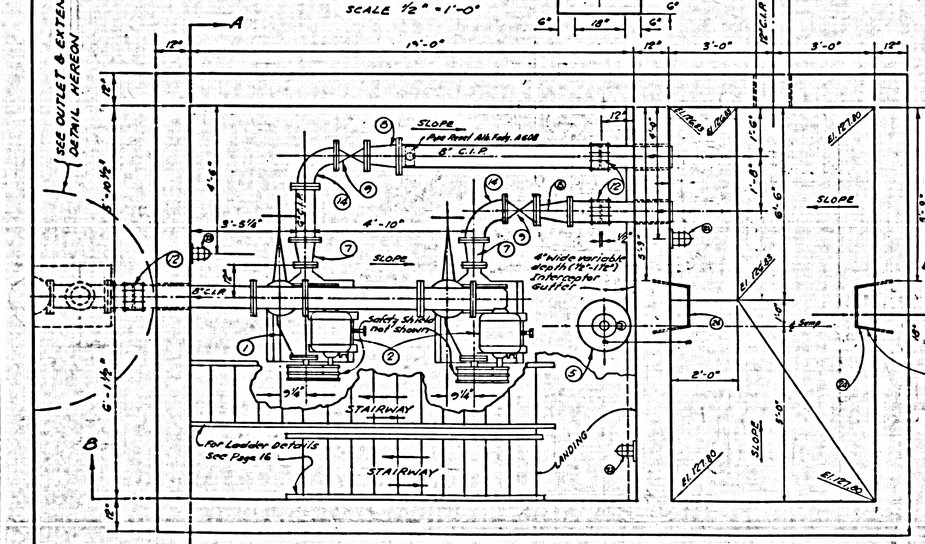
BUBBLER TUBE DETAIL
No Scale

BILL OF MATERIALS

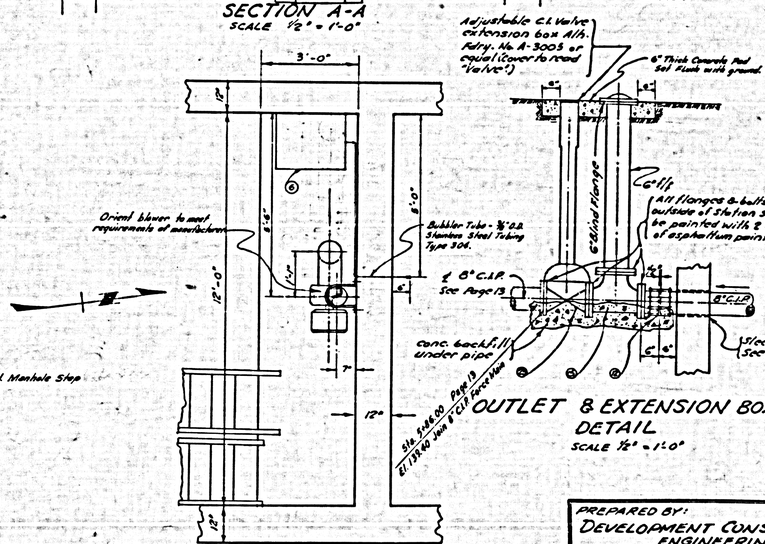
①	2 - TORQUE FLOW WEMCO MODEL 'C' 4C48 SOLIDS PUMP OR EQUAL OPERATING AT 1300 RPM & CAPABLE OF DELIVERING 6600 GPM AT 73 TDH OPERATING SINGLY.
②	2 - 40 H.P. 1750 RPM, 3ϕ, 60 CYCLE, 440 VOLT DRIP-PROOF SQUIRREL CAGE INDUCTION MOTOR, MOUNTED PIGGY BACK.
③	2 - VARIABLE SPEED (1750 RPM TO 1300 RPM) V-BELT DRIVE WITH SAFETY SHIELD.
④	1 - ½ H.P. 1150 RPM 1ϕ 60~ 110 V. DRIP PROOF SQUIRREL CAGE INDUCTION MOTOR. BUFFALO FORGE Co. B1B1 VENT. SIZE 7" (NON-SPARKING) OR EQUAL CAPABLE OF DELIVERING 617 CFM @ ¼" STATIC PRESSURE
⑤	1 - ½ H.P. 1750 RPM 1ϕ 60~ 110 V. DRIP PROOF SQUIRREL CAGE INDUCTION MOTOR YEOMAN'S "DRAIN DRI" MODEL "B" OR EQUAL WITH DIVING BELL ____ VAPORPROOF SWITCH, COPPER FLOAT, CAPABLE OF DELIVERING 15 GPM @ 20 FT. T.D.H.
⑥	AUTOCON PLAN PAK BUBBLETROL - 2 STEP LEVEL CONTROL COMPLETE WITH CIRCUIT BREAKERS, MOTOR STARTERS, LEVEL CONTROL & ALTERNATOR.
⑦	2 - 6" x 4" ECCENTRIC REDUCERS
⑧	2 - 8" x 6" ECCENTRIC REDUCERS
⑨	4 - 6" FLANGED BRASS-TRIMMED GATE VALVES CRANE No. 461 OR EQUAL.
⑩	2 - 6" SWING CHECK VALVES, IRON BODY, BRASS TRIMMED O.S. LEVER & WEIGHT CRANE No. 383 OR EQUAL
⑪	2 - 6" x 4" CONCENTRIC REDUCERS
⑫	4 - 8" DRESSER COUPLINGS STYLE No. 53 OR EQUAL WITH NEOPRENE GASKETS.
⑬	2 - 6" DRESSER COUPLINGS STYLE No. 53 OR EQUAL WITH NEOPRENE GASKETS.
⑭	2 - 6" LONG RADIUS 90° ELBOW.
⑮	3 - 8" x 8" x 6" DOUBLE SWEEP TEE.
⑯	1 - 1½" SWING CHECK VALVE BRASS DISC CRANE No. 34 OR EQUAL.
⑰	1 - 1½" CLAMP GATE VALVE WEDGE DISC IRON BODY-BRASS TRIMMED CRANE No. 490 OR EQUAL.
⑱	1 - FRAME AND COVER - ALHAMBRA FOUNDRY A-1085 OR EQUAL GALVANIZED & MODIFIED FOR LOCKING.
⑲	1 - FRAME AND COVER - ALHAMBRA FOUNDRY A-1402 OR EQUAL GALVANIZED & WITHOUT RATCHET LIFT, PERFORATED WITH 2 - 1" DIA. HOLES. MODIFIED FOR LOCKING
⑳	1 - BRASS STREET WASHER BOX - ALHAMBRA FOUNDRY 392A OR EQUAL W/ ¾" SHUT OFF VALVE AND LOOSE KEY.
㉑	1 - EXPLOSION PROOF LIGHT FIXTURE (150 WATT)
㉒	3 - VAPOR PROOF LIGHT FIXTURES (150 WATT)
㉓	1 - VAPOR PROOF CONVENIENCE OUTLET.
㉔	20 - STD. MANHOLE STEPS - ¾" ϕ STEEL PER S-D-1637
㉕	1 - 8" DOUBLE DISC GATE VALVE, IRON BODY, BRASS TRIMMED, CRANE No. 9485 OR EQUAL WITH ONE EXTENSION OPERATING HANDLE ALHAMBRA FDRY. A-3000 OR EQUAL.

GENERAL NOTES

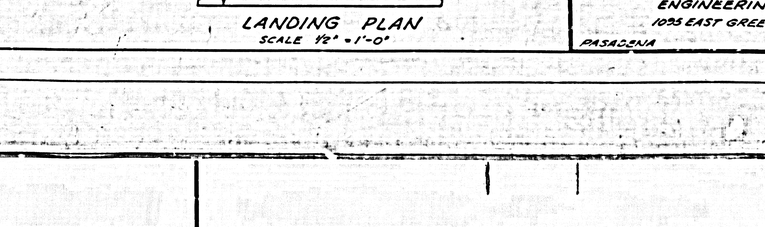
1. ALL CAST IRON PIPE & FITTINGS SHALL BE CLASS 125# STD. UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL CONTACT THE PALOS VERDES WATER Co. 8 MALAGA COVE PLAZA, PALOS VERDES, CALIF. FOR WATER SERVICE.
3. CONTRACTOR SHALL CONTACT THE SO. CALIF EDISON Co. 5431 TORRANCE BLVD. REDONDO BEACH, CALIF. FOR POWER SUPPLY SERVICE.
4. ALL METAL PARTS SHALL BE PAINTED WITH ONE SHOP COAT AND TWO FIELD COATS OF ALUMINUM PAINT, SEE SPEC'S.
5. AFTER PUMP STATION EQUIPMENT HAS BEEN ERECTED BY CONTRACTOR, THE EQUIPMENT SHALL BE PLACED IN FINAL ADJUSTMENT AND OPERATION BY A QUALIFIED ENGINEER FURNISHED BY THE MANUFACTURER.
6. THE PUMP STATION IN ITS ENTIRETY, SHALL BE IN SUCCESSFULL OPERATION PRIOR TO BEING ACCEPTED BY THE COUNTY ENGINEER.



FLOOR PLAN
SCALE 1½" = 1'-0"



OUTLET & EXTENSION BOX. DETAIL
SCALE ½" = 1'-0"



LANDING PLAN
SCALE ½" = 1'-0"

PREPARED BY:
DEVELOPMENT CONSULTANTS INC.
ENGINEERING DIVISION
1035 EAST GREEN STREET
PASADENA CALIFORNIA

DATE	REVISION	APPROVED

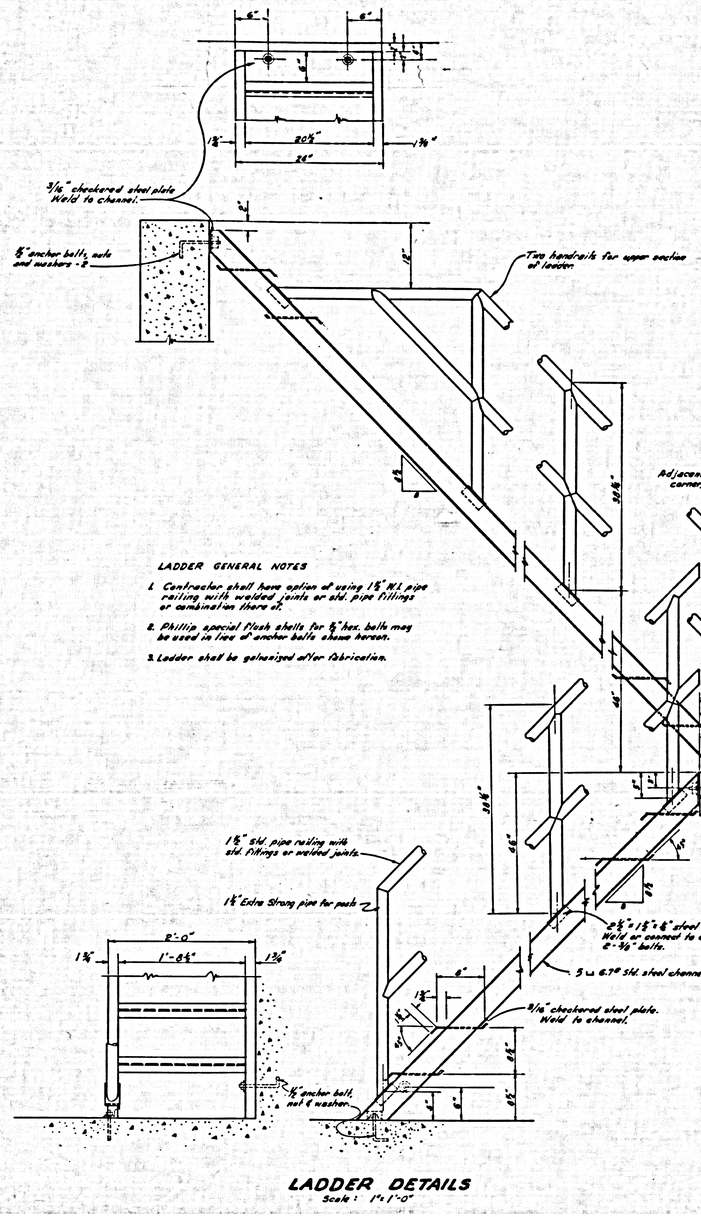
PRIVATE CONTRACT No 5186-C
SEWAGE LIFT STATION
MECHANICAL DETAILS

COUNTY OF LOS ANGELES
CALIFORNIA

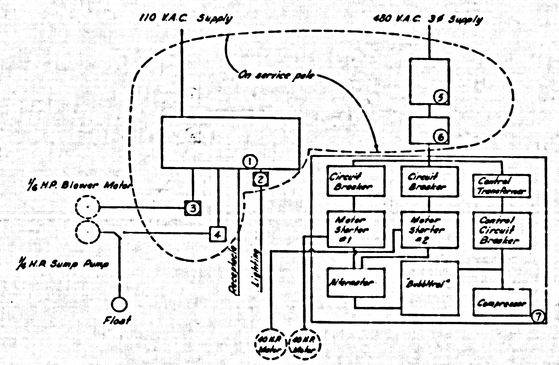
APPROVED: JOHN A. LAMBIE — COUNTY ENGINEER
APPROVED: C.R. COMPTON — CHIEF ENGINEER, Co. SAN'T. DIST. No. 5

BY: _____ ASST. SANITATION ENGINEER
BY: _____ OFFICE ENGINEER
CHECKED BY: R.F. Kahn 3-14-60
OFFICE OF COUNTY ENGINEER REG. C.E. No 11636

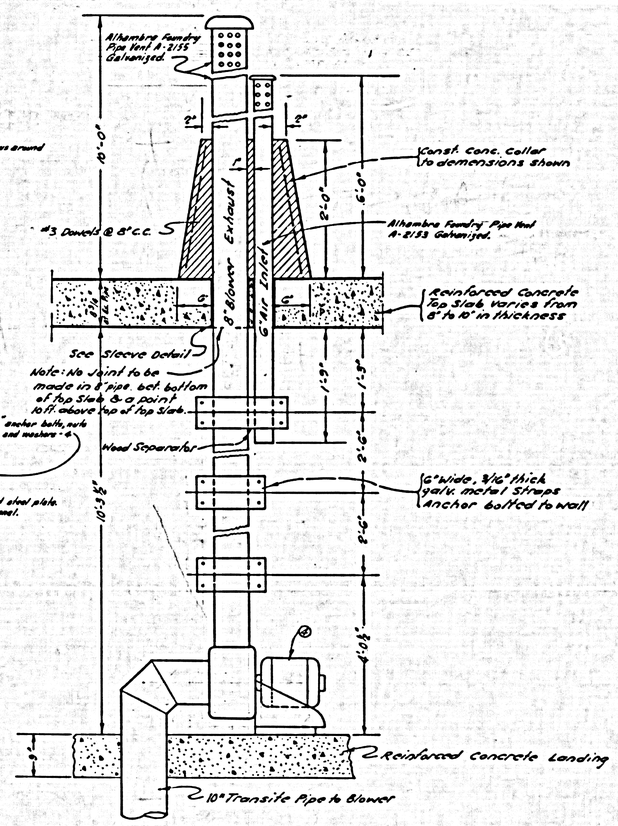
DATE: JAN. 1960 | SCALE AS SHOWN | PAGE 15 OF 18 PAGES



LADDER DETAILS
Scale: 1"=1'-0"



SINGLE LINE ELECTRIC DIAGRAM



BLOWER & VENT DETAIL
No Scale

① 1- Combination socket and circuit breaker cabinet 100A. Sq.D"#90 45 M120-100 w/4-15A. Single Pole circuit breakers Sq."D" QO115 or approved equal.

② Switch, single pole, Hubbel No. 2911 w/Crouse Hinds FDC1 box and cover, or approved equal.

③ 1- F.H.P. man. starter ⅓ H.P. 110 V., 1ϕ Sq."D"#2510-AG1 or approved equal.

④ 1- F.H.P. man. starter ¼ H.P. 110 V., 1ϕ Sq."D"#2510-AG1 or approved equal.

⑤ 1-300 A C.T. cabinet. Sq."D"#1152 MA w/B10825 8 jaw socket and 1-80L C.T. mounting base or approved equal.

⑥ 1-200 A. 3 pole, 600 V. main circuit-breaker. Sq."D"#7872B or approved equal.

⑦ Autocon Plee Pak Bubbitrol - 2 ship level control complete with circuit breakers, motor starters, level control & alternator. Each motor must be capable of being operated automatically or manually. All units in panel and the enclosure to be NEMA I

ELECTRICAL GENERAL NOTES

All conduit and wire materials and sizing as well as all other applicable electrical materials and work shall meet requirements of the National Electrical Code for Class I, Division 2 - Hazardous Locations, and Los Angeles County Electrical Code, except as noted.

All rigid conduits shall be imbedded in walls and floors of reinforced concrete, in the middle third of section.

The contractor shall submit prints of shop drawings showing a proper and adequate wiring diagram with all necessary controls and electrical equipment. The contractor shall perform no electrical work until he secures approval of such shop drawings.

Grounding - exposed metal parts of motors and control equipment shall be permanently grounded as required in article 7, Electrical Safety orders.

All electrical work shall meet requirements of County of Los Angeles Electrical Ordinance, Ordinance 2252. Wiring within wet well shall conform to that required for Class I, Division I, Hazardous Locations, Electrical Safety Orders, Division of Industrial Safety, State of California.

DATE	REVISION	APPROVED

PRIVATE CONTRACT Nº 5186-C

SEWAGE LIFT STATION

ELECTRICAL & MISCELLANEOUS DETAILS

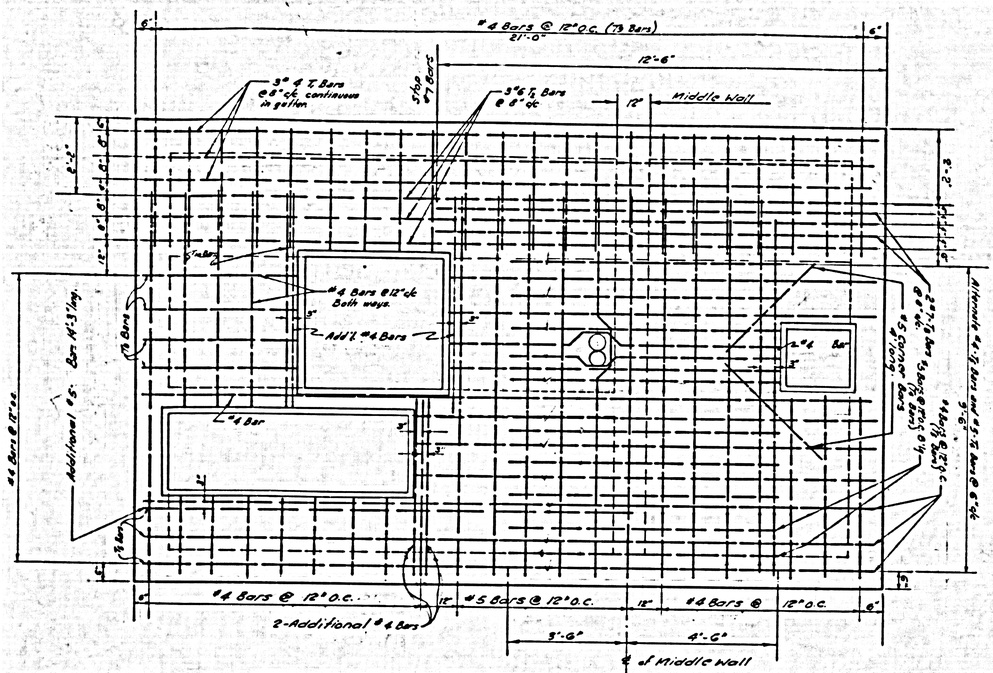
COUNTY OF LOS ANGELES
CALIFORNIA

APPROVED: JOHN A. LAMBIE, COUNTY ENGINEER
APPROVED: C.R. COMPTON, CHIEF ENGINEER, CO. SAN. DIST. Nº 5

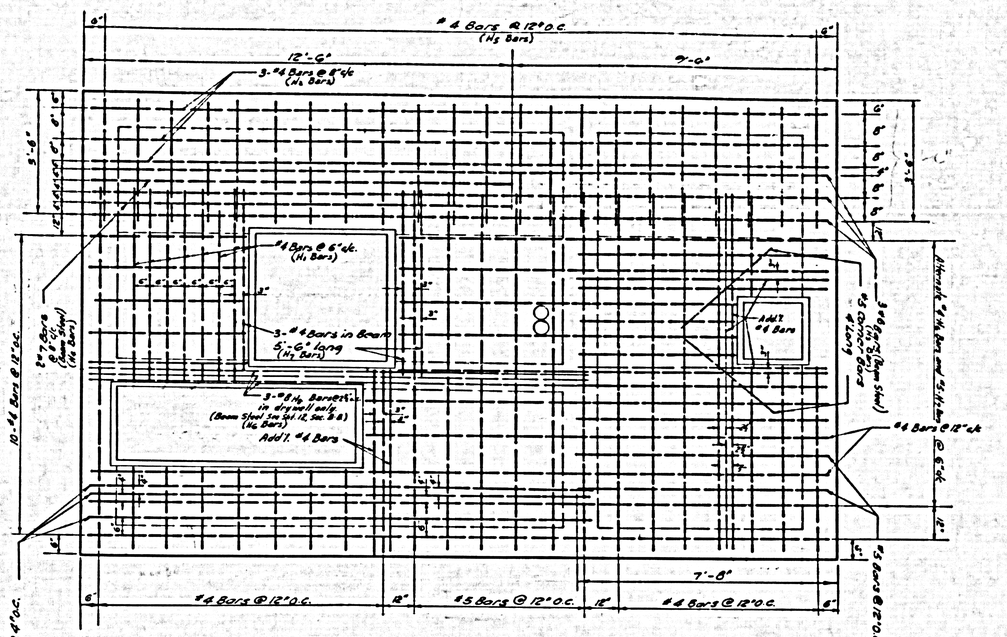
BY: [signature], ASST. SANITATION ENGINEER
BY: [signature], OFFICE ENGINEER
CHECKED BY: R.F. Hulin 2-16-60
OFFICE OF COUNTY ENGINEER REG. C.E. Nº 11636

PREPARED BY:
DEVELOPMENT CONSULTANTS INC.
ENGINEERING DIVISION
1095 EAST GREEN STREET
PASADENA CALIFORNIA

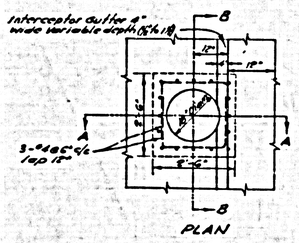
DATE: JAN. 1960 | SCALE AS SHOWN | PAGE 16 OF 18 PAGES

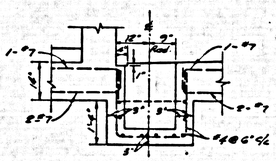


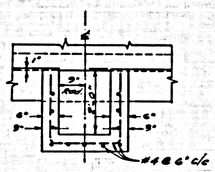
TOP SLAB - TOP STEEL REINFORCING ONLY
SCALE 12" = 1'-0"



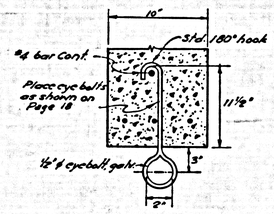
TOP SLAB - BOTTOM STEEL REINFORCING ONLY
SCALE 12" = 1'-0"







SUMP DETAILS
Scale ½" = 1'-0"



DETAIL OF EYEBOLT
No Scale

DATE	REVISION	APPROVED

PRIVATE CONTRACT No. 5186-C
SEWAGE LIFT STATION
STRUCTURAL DETAILS

COUNTY OF LOS ANGELES
CALIFORNIA

APPROVED: JOHN A. LAMBIE
COUNTY ENGINEER

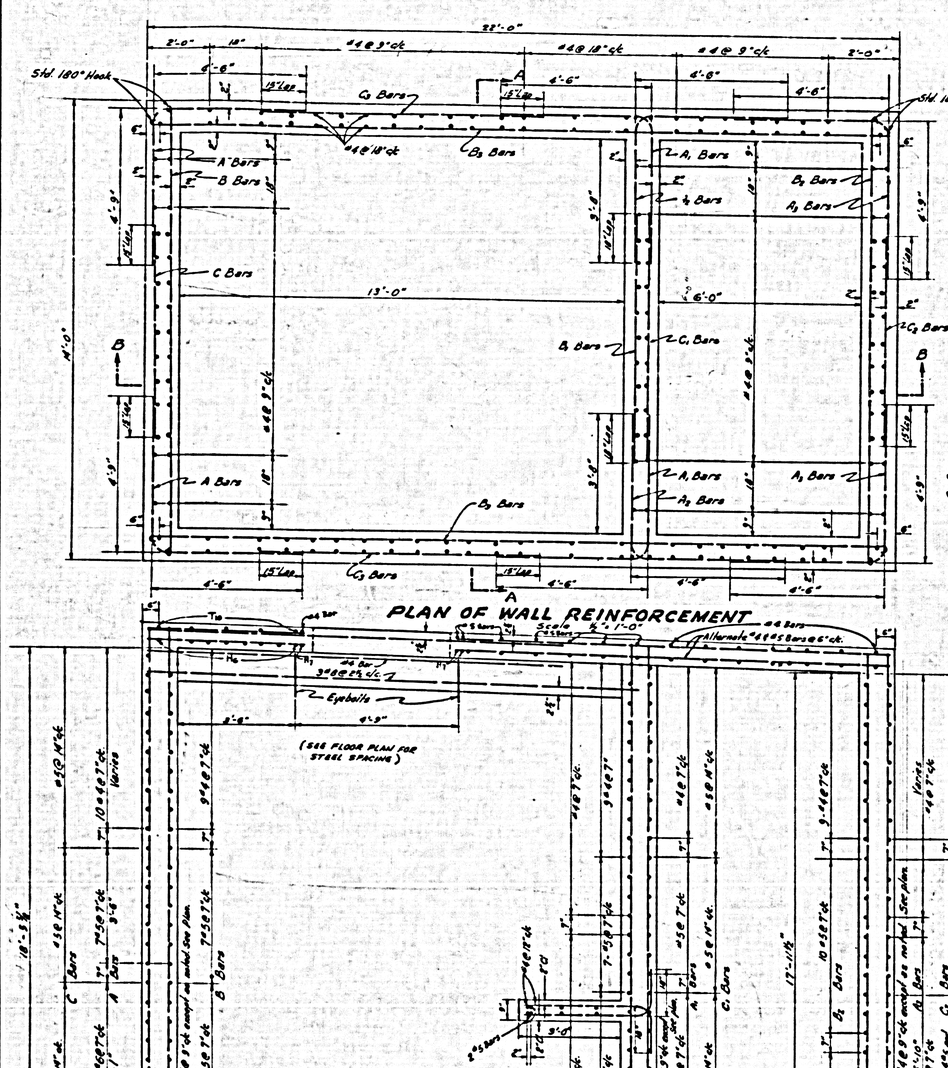
APPROVED: C.R. COMPTON
CHIEF ENGINEER
Co. SAN'T. DIST. No. 5

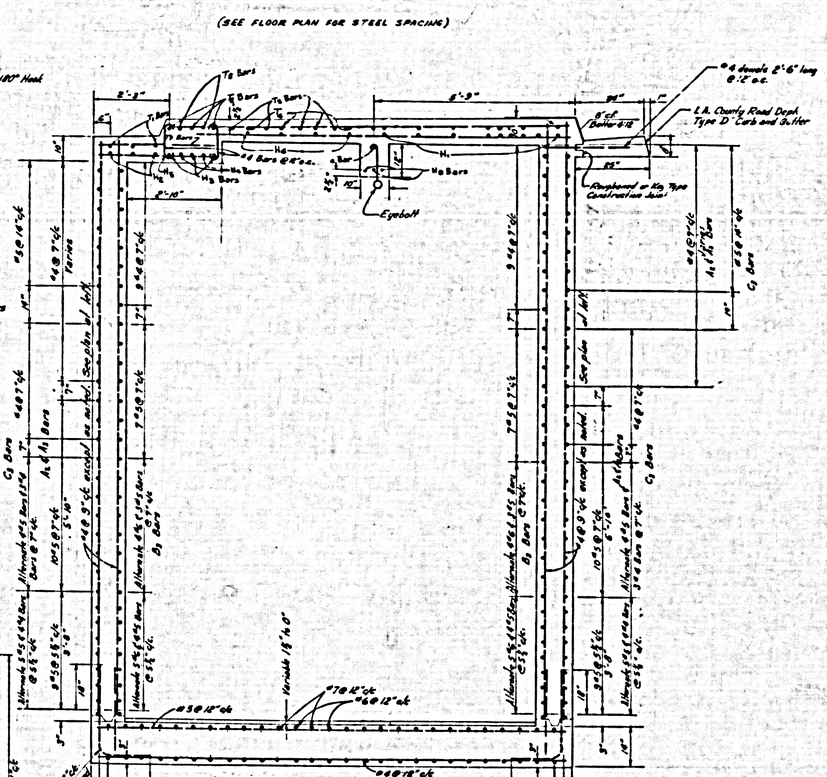
BY: _____ BY: _____
ASST. SANITATION ENGINEER — OFFICE ENGINEER

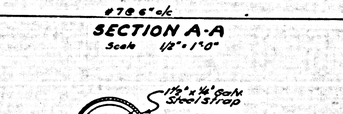
CHECKED BY: _____ 2-24-60
OFFICE OF COUNTY ENGINEER REG. C.E. No. 11636

PREPARED BY:
DEVELOPMENT CONSULTANTS INC.
ENGINEERING DIVISION
1025 EAST GREEN STREET
PASADENA CALIFORNIA

DATE: JAN. 1960 | SCALE AS SHOWN | PAGE 17 OF 18 PAGES







DETAIL OF PIPE STRAP
No Scale



TYPICAL PIPE SLEEVE DETAIL THRU WALL
No Scale



OPTIONAL CONSTRUCTION JOINTS
No Scale

GENERAL NOTES

1. CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE UNIT STRESS OF 3,000 PSI IN 28 DAYS.
2. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS PER A.S.T.M. A-15-50T WITH DEFORMATIONS PER A.S.T.M. A-305-50T
3. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE MANUAL OF STD. PRACTICE.
4. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTER OF BARS AND SPACING OF BARS ARE CENTER TO CENTER OF BARS UNLESS OTHERWISE NOTED.
5. BAR SPLICES, OTHER THAN THOSE SHOWN ON THE PLANS, SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER. THE MIN. SPLICE FOR STRESSED STEEL CARRYING MOMENT OR DIRECT STRESS SHALL BE 30 DIAMETERS AND THAT FOR THE BARS SHALL BE 20 DIAMETERS.
6. EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
7. END STEEL 2" CLEAR OF OPENINGS AND EDGES.
8. INTERIOR SURFACES OF WET WELL INCLUDING STEEL PARTS THEREIN SHALL RECEIVE ONE COAT OF COAL TAR PRODUCT "INERTOL" OR EQUAL APPLIED IN ACCORDANCE TO MANUFACTURERS SPECIFICATIONS.
9. SURFACES OF FLOOR SLAB SHALL BE NON-SKID BROOM FINISH OR EQUAL.
10. WATER PROOFING MEMBRANE SHALL CONSIST OF ONE COTTON FABRIC & 2 COATS OF ASPHALT SEE SPEC'S.
11. PRIOR TO FABRICATION OF REINFORCING STEEL, THE CONTRACTOR SHALL SUBMIT BAR SCHEDULES FOR APPROVAL TO ENGINEER.

DATE	REVISION	APPROVED

PRIVATE CONTRACT No 5186-C
SEWAGE LIFT STATION
STRUCTURAL DETAILS

COUNTY OF LOS ANGELES
CALIFORNIA

APPROVED: JOHN A. LAMBIE
COUNTY ENGINEER

APPROVED: C.R. COMPTON
CHIEF ENGINEER
Co. SANT. DIST. No. 5

BY: C.E. Brandt
ASST. SANITATION ENGINEER

BY: W. Gottheimer
OFFICE ENGINEER

CHECKED BY: R.T. Haling 3-14-60
OFFICE OF COUNTY ENGINEER REG. C.E. No. 11636

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DATE: JAN. 1960 | SCALE AS SHOWN | PAGE 18 OF 18 PAGES