

**SANITARY SEWERS**  
TO BE CONSTRUCTED

**TRACT NO. 45025**  
**PRIVATE CONTRACT NO. 10661**  
INDEX: A-142

6 SHEETS, 11 PAGES  
SCALE: VERT. 1"=4' HORIZ. 1"=40'

PREPARED IN THE OFFICES OF  
**KEITH ENGINEERING, NORTH COUNTY, INC.**  
1509 EAST PALMDALE BOULEVARD, SUITE D  
PALMDALE, CALIFORNIA 93350  
BY: *Ingrid Bernier 27485*

**PRIVATE ENGINEER'S NOTICE TO CONTRACTORS**

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS... OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER UTILITIES EXCEPT AS SHOWN ON THESE PLANS AND THE CONTRACTOR IS RESPONSIBLE TO MAKE THE NECESSARY PRECAUTIONS TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE "UNDERGROUND SERVICE ALERT" AT 1-800-471-4132 TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

APPROVED *Sandy G. Hahn 422/87*  
REVISIONS DATE 4/18/88  
REVISION 1 MOVED MANHOLE OUTSIDE A.C. PAVT. TO STA. 4+38.00, P.A.S.  
CONSTRUCTION NOTES CONT.

- FULL COMPLIANCE WITH PART IV OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE.
- MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
- A.B.S. SOLID WALL PIPE MUST BE USED FOR WYE AND HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.
- A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION B-2.1 OF PART IV OF THE SPECIAL PROVISIONS.
- THREE DEGREE DEFLECTION COUPLERS ARE REQUIRED FOR RADII OF CURVATURE LESS THAN 300 FEET WHEN USING A.B.S. COMPOSITE PIPE.
- NO CONNECTIONS FOR DISPOSAL OF INDUSTRIAL WASTE IS ALLOWED IF A.B.S. COMPOSITE PIPE IS USED.
- SEWER LINE CURVATURE SHALL NOT BE ACHIEVED BY PULLING OF JOINTS OR BEVELING PIPE ENDS WHEN USING PLASTIC PIPE INCLUDING A.B.S. COMPOSITE PIPE.
- ALL WYE AND/OR HOUSE LATERALS ARE TO BE LOCATED AT LEAST FIVE FEET APART AND WHEN POSSIBLE NOT CLOSER THAN FIVE FEET TO ANY MANHOLE.
- A.B.S. SOLID WALL PIPE IS NOT ACCEPTABLE FOR USE AS MAINLINE SEWER.
- ONLY WYE BRANCHES ARE TO BE USED FOR CONNECTION TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.

REVISION NO. 1 DATE 1-22-88  
THE RELOCATION OF 10" AND 12" VPC SEWER IN 47TH ST. AND FORT TOLON ROAD, STATION 10+03.96 TO STATION 42+36.76. REVISION INCLUDE PHASES 1, 2, 3, 4, 7, 8, 9, 11.  
APPROVED *Sandy G. Hahn 1-28-88*  
DEPARTMENT OF PUBLIC WORKS FILE NO. 53154

LOTS 113 - 116 ARE RESTRICTED TO NO CONSTRUCTION & WILL NOT BE SERVED BY THIS SEWER.

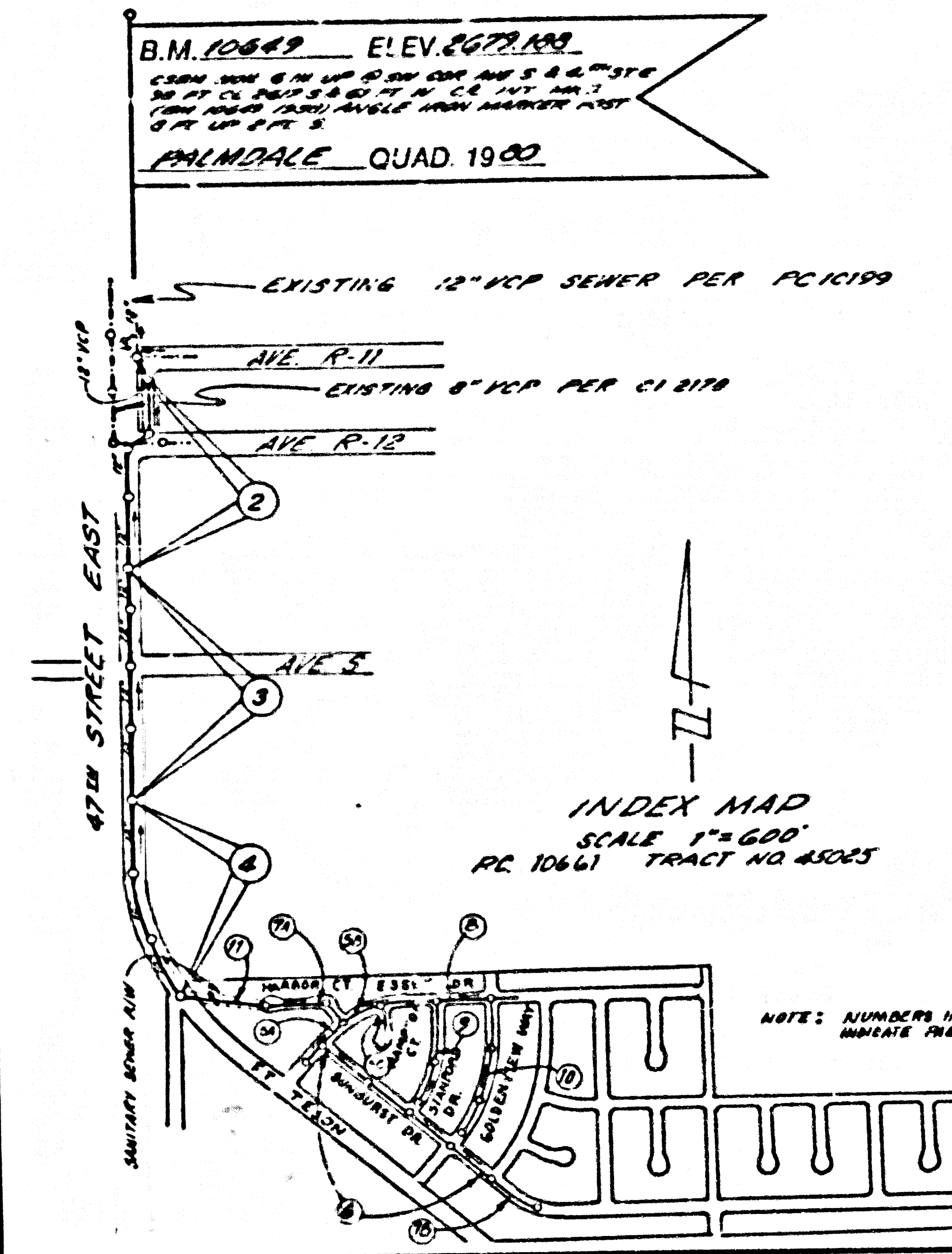
NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICT FOR SAID CONNECTION. BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (805) 947-5027 SO THAT REQUIRED INSPECTION CAN BE MADE.

**GENERAL NOTES:**

- ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1985.
- NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
- NO REPRESENTATIVE OF THE DEPT. OF PUBLIC WORKS SHALL SHOW OR LAY OUT ANY PORTION OF THE WORK.
- GRADE TO WHICH THE IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILE. GRADE POINTS FOR TOP OF CURB, CENTER LINE OF STREETS OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PLANS. AT ALL POINTS TO BE TYPED OR SHOWN POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID SHOWN POINTS.
- THE PRIVATE ENGINEER SHALL FURNISH THE DEPT. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS AND "WYE" 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 DEGREES WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
- 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.
- BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN CROWN STREET FROM THE L.A. COUNTY COUNTY DIV. OF THE DEPT. OF PUBLIC WORKS PERMIT OFFICE. THIS PERMIT MUST BE FILED TO THE DIR. OF PUBLIC WORKS, 2250 ALCAZAR ST. LOS ANGELES, CALIF. TO COVER THE COST OF SOIL PROTECTION INSPECTION AND RECORD PLANS.
- 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.
- APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
- REFER TO SECTION 7.04.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY OFFICERS.
- PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPT. OF PUBLIC WORKS COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE LOS ANGELES COUNTY COMST. DIVISION. A PERMIT FOR EXCAVATION AND TRENCHES FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 2250 ALCAZAR, 184 A203, LOS ANGELES, CALIFORNIA 90033 MUST BE AS THE CERTIFICATE HOLDER TO NOTIFY 30 DAYS PRIOR TO CANCELLATION OF POLICY.

**CONSTRUCTION NOTES:**

- WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1100 EAST 7TH ST. LOS ANGELES, CALIF. SUPPLEMENTS AND DEPT. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEP. 21, 1978 AND SHALL BE PRESENTED ONLY IN THE PRESENCE OF THE COUNTY DEPT. OF PUBLIC WORKS.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIV. PUBLIC WORKS DEPT. TEL. 213-226-6881 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 8 FEET BELOW CURB GRADE EXCEPT AS NOTED.
- WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
- WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS IF A.B.S. C.P. IS USED.
- ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER 5.0 OR PRECAST CONCRETE MANHOLES PER 5.26, EXCEPT AS NOTED.
- HOUSE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
- MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE 36 INCHES ABOVE FINISHED GRADE.
- VERTICAL CLAY PIPE JOINTS SHALL BE TYPE "D" OR "E" PER STANDARD SPECIFICATIONS SECTION 205-2.
- IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER 5.26 CASE 4, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
- IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAINLINE OR HOUSE LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER 5.26 CASE 4 UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
- ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER BULGE JOINT, TYPE "C" OR "D" WITH BUSHING IF NECESSARY PER STANDARD SPECIFICATIONS SECTION 205-2.
- ALL JOINTS BETWEEN CAST IRON PIPE & A.B.S. C.P. SHALL BE MADE WITH APPROVED FITTINGS.
- SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
- FULL COMPLIANCE WITH SECTION 306-1.3 OF THE STANDARD SPECIFICATIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SPECIAL PROVISIONS FOR A QUALIFIED REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
- SPECIAL BACKFILL IN EA. "TRENCH CONSTRUCTION" (A) BACKFILL TRENCH AND REPLACE OTHER BATHY SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADE PLAN APPROVED FOR THIS DEVELOPMENT. ON THE LAND DEVELOPMENT DIVISION (B) ALL BACKFILL AND EARTH REPLACEMENT SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A 3" X 18" METHOD OF TEST DMS 57 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIV. OF PUBLIC WORKS DEPT.



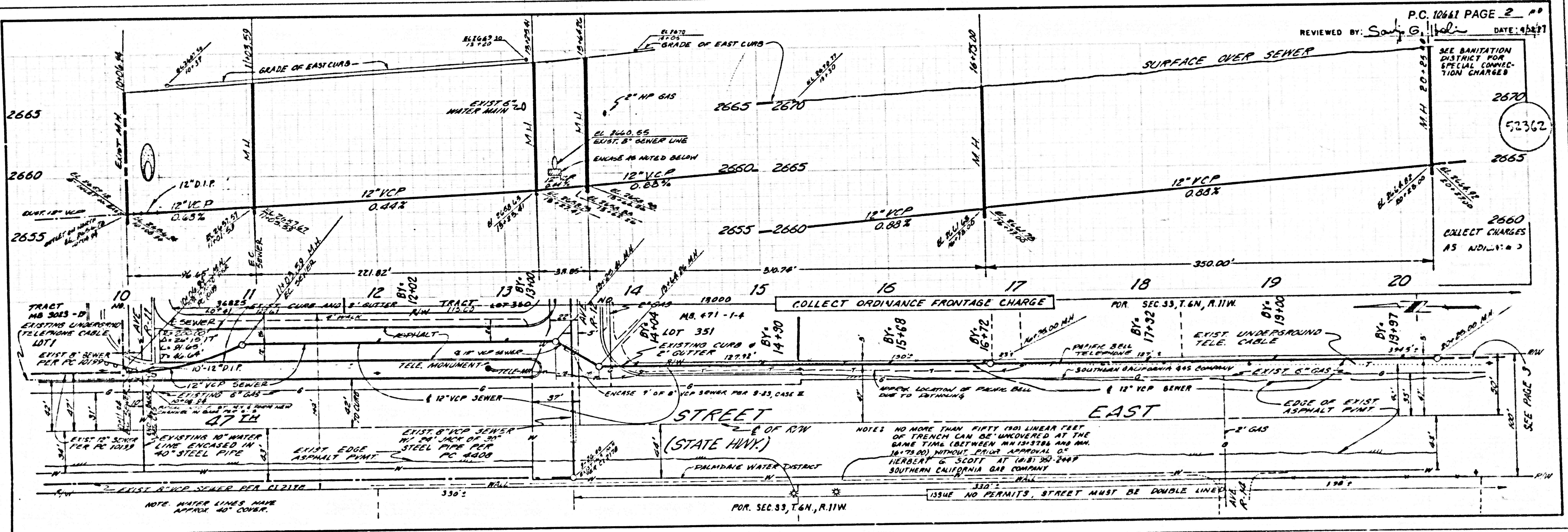
THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE DEPARTMENT OF PUBLIC WORKS SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LEGEND	5-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	5-2
STANDARD MANHOLE STEP	5-3
SECOND FOR SEWER PIPE	5-4
CHANDLING AND SECUREMENT	5-5
WYE OR TEE SUPPORT	5-6
ALLOWABLE TRENCH WIDTHS	5-7
LOCKING MANHOLE FRAME AND COVER	5-8
NON-REINFORCED PRECAST CONCRETE MANHOLE	5-9
SANITARY SEWER IN VICINITY OF WATER MAIN	5-10
BREAK INTO EXISTING MANHOLE	5-11
EROSION CONTROL	5-12

**COUNTY OF LOS ANGELES, CALIFORNIA**  
THOMAS A. TIDEMANSON, DIRECTOR DEPARTMENT OF PUBLIC WORKS  
APPROVED *Dean E. Stolton 10/5/87*  
CHECKED *James 9/26/87*  
NO. CE NO. 16841  
DATE 10/4/87

CHARLES W. CARRY, CHIEF ENGINEER  
CO. SA. DIST. 20  
APPROVED *James 10/4/87*  
DATE 10/4/87

ANTELOPE VALLEY BLDG. DIST. 8

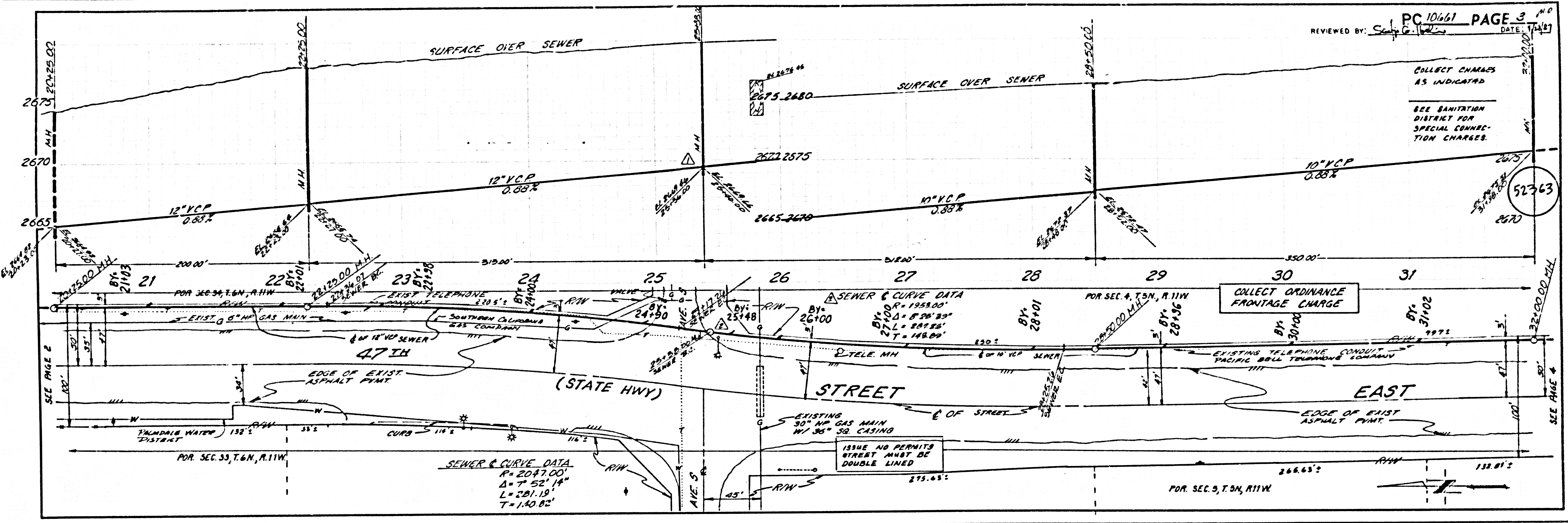


1061 09

25024 .01 TRACT

REVIEWED BY: [Signature] DATE: 7/14/87

COLLECT CHARGES AS INDICATED  
SEE SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES.

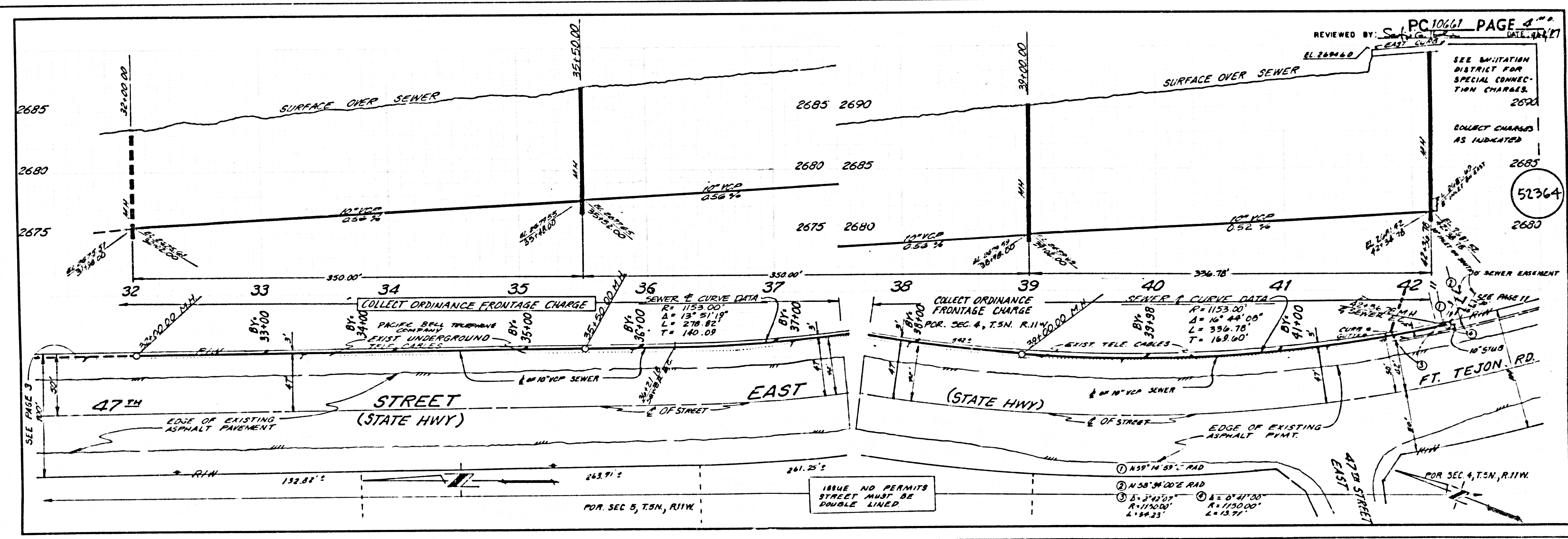


PC 10661

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REVIEWED BY: [Signature] DATE: 7/14/87

SEE SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES.  
COLLECT CHARGES AS INDICATED



PC 10661

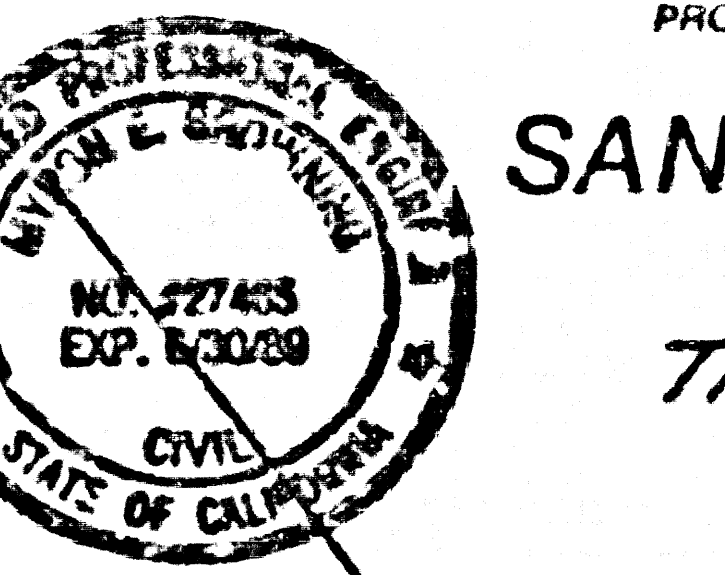
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**GENERAL NOTES:**

- ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN LEVEL DATUM OF 1988.
- ALL REVISIONS SHALL BE MADE IN THESE PLANS WITH THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
- NO REPRESENTATIVE OF THE DEPARTMENT OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
- GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILE GRADE POINTS FOR 10' VERTICAL CURVES. ALL PORTIONS OF THE CENTERLINE OF ALL STRAIGHT LINES SHALL BE ESTABLISHED FROM DEVIATION POINTS. THE "M" SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BY THREE (3) ADJACENT POINTS.
- THE PRIVATE OWNER SHALL FURNISH THIS DEPARTMENT OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND 12" OR 18" BRANCHED HOUSE LATERALS. HOUSE LATERALS FOR PROPOSED CONSTRUCTION WITH 12" OR 18" BRANCHED 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° BUT THE MAIN LINE SEWER ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE OWNER.
- 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 UTILITY SHEET.
- BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE ROAD ELEMENT OF THE LOS ANGELES DEPARTMENT OF PUBLIC WORKS DISTRICT OFFICE NO. 1 AND PAY A FEE TO THE DIRECTOR OF PUBLIC WORKS, 800 S. WENDOVER AVE., LOS ANGELES, CALIFORNIA 90017 UNDER THE CODE OF CONSTRUCTION IN SECTION AND RECORD PLANS.
- IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA DIVISION OF HIGHWAYS, 130 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA 90012.
- 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 PLANS.
- REFER TO SECTION 710.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY LIGHTS.
- PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPARTMENT OF PUBLIC WORKS COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE ROAD ELEMENT (A) THE DEPARTMENT OF PUBLIC WORKS, A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF NO HAZARD COMPARTMENTATION FROM THE DEPARTMENT OF THE COUNTY ENGINEER, LOS ANGELES COUNTY PUBLIC WORKS, ROOM 910, NAMED AS THE CERTIFICATE HOLDER TO BE NOTIFIED 30 DAYS PRIOR TO CANCELLATION OF POLICY.

**CONSTRUCTION NOTES:**

- WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1988 EDITION) WITH SUPPLEMENTS AND COUNTY ENGINEER SPECIAL INSTRUCTIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED AND SHALL BE PROSECUTED IN THE PRESENCE OF THE COUNTY ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE 226-8281 AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
- PIPE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
- ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER 3-3 OR PRECAST CONCRETE MANHOLES PER 3-26 EXCEPT AS NOTED.
- PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
- MANHOLE TOPS IN UNIMPROVED AREAS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
- WITHELD CLAY PIPE JOINTS SHALL BE TYPE "D" OR "E" PER STANDARD SPECIFICATIONS SECTION 300-2.
- IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER 3-23.2 WITH TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
- IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. LINE WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER 3-23.2 CASE II UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
- ALL JOINTS BETWEEN CAST IRON PIPE AND WITHELD CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE (TYPE "C" OR "D") WITHIN BUILDING IF NECESSARY PER STANDARD SPECIFICATIONS SECTION 300-2.
- SEWERS TO BE LINED FOR LEAKAGE PER SECTION 300-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET LOS ANGELES COUNTY PUBLIC WORKS OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
- FULL COMPLIANCE WITH SECTION 300-1.3 OF THE SPECIAL PROVISIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. VERIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
- SPECIAL BACKFILL IN EASEMENT CONSTRUCTION (A) BACKFILL WHICH AND REPLACE OTHER EARTH (B) TO ACHIEVE THE NATURAL OR WITHELD GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THE DEVELOPMENT BY THE BUILDING AND SAFETY DIVISION. (B) ALL BACKFILL AND EARTH PLACES SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. 97D. METHOD OF TEST D868.57T AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION.



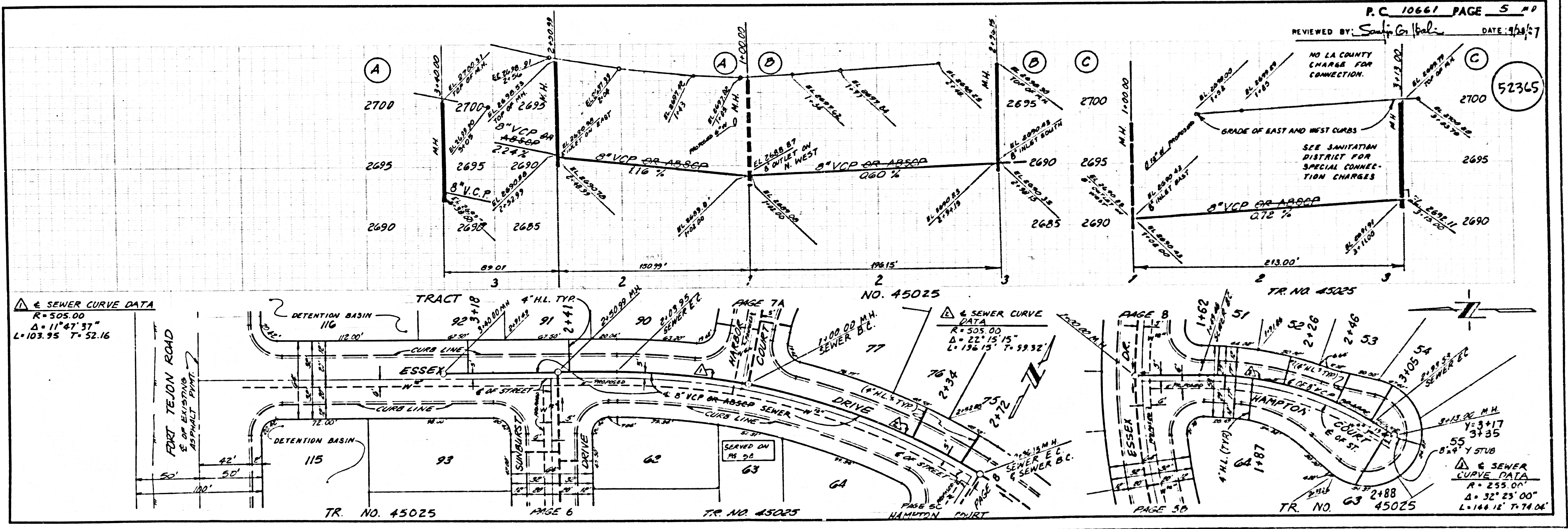
PROFILE, ALIGNMENT AND GRADE OF  
**SANITARY SEWERS**  
 TO BE CONSTRUCTED IN  
**TRACT NO. 45025**  
**PRIVATE CONTRACT NO.**  
 W.S.  
 SHEETS: PAGES

SCALE: VERT. 1"=4' HORIZ. 1"=40'  
 JANUARY, 1987  
 PREPARED IN THE OFFICES OF  
**KEITH ENGINEERING, NORTH ESTATES, INC.**  
 1608 EAST PALMDALE BOULEVARD, SUITE D  
 PALMDALE, CALIFORNIA 93550  
 BY: *[Signature]*  
 REG. CE NO. 17445

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE DEPARTMENT OF PUBLIC WORKS SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

LEGEND	
MINIMUM PUBLIC SAFETY REQUIREMENTS	3-1
BRICK MANHOLES	3-2
STANDARD MANHOLES	3-7
BEDDING FOR SEWER PIPE	3-21
CRADLING AND ENCASMENT	3-22
WYE OR TEE JOINT	3-28
ALLOWABLE SLOPES	3-29
LOCKING MANHOLE FRAMES AND COVER	3-30
NON-REINFORCED PRECAST CONCRETE MANHOLE	3-36

COUNTY OF LOS ANGELES, CALIFORNIA  
 THOMAS A. TIDEMANSON  
 DIRECTOR OF PUBLIC WORKS  
 APPROVED: \_\_\_\_\_ (DATE)  
 CHECKED: \_\_\_\_\_ (DATE)  
 REG. CE NO. \_\_\_\_\_  
 BLDG. DIST. \_\_\_\_\_



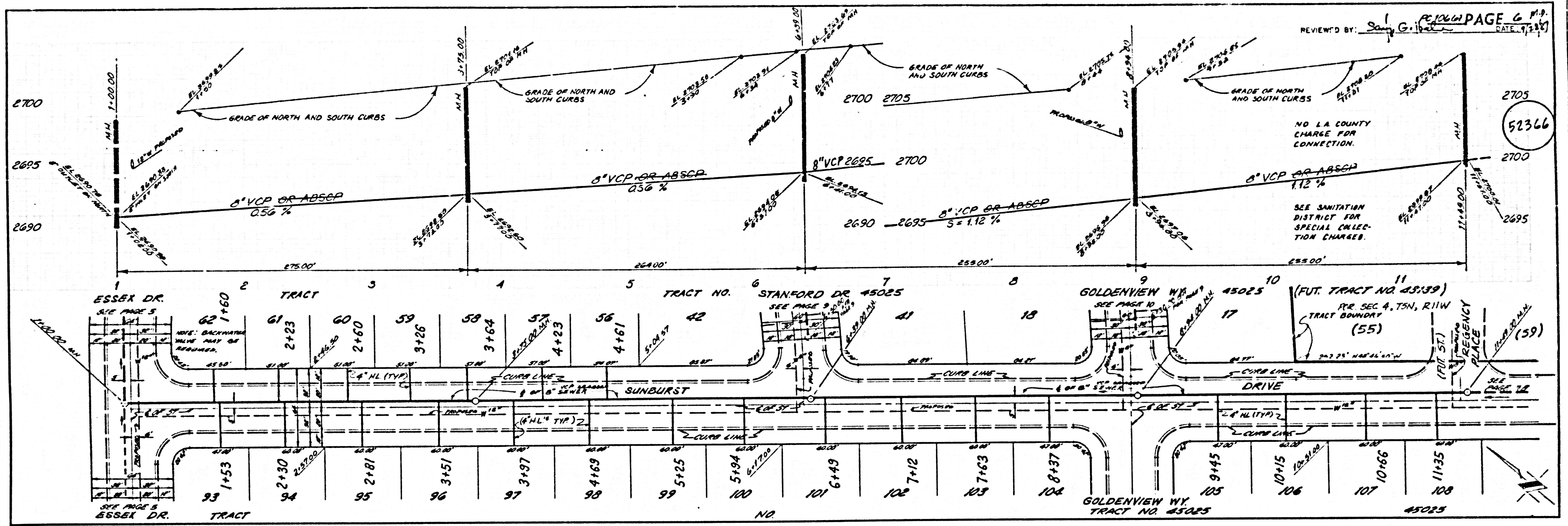
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12021 29

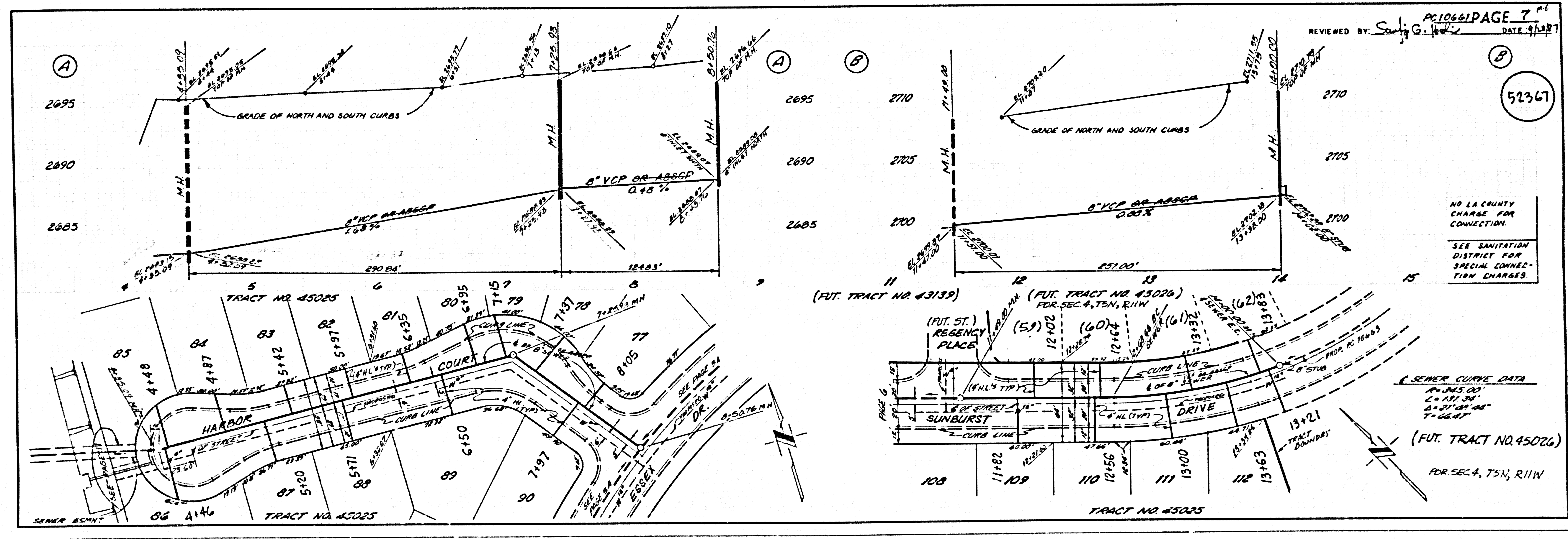
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REVIEWED BY: *Sandy G. [Signature]* PC10661 PAGE 6 P. 9  
DATE: 9/13/87

52366

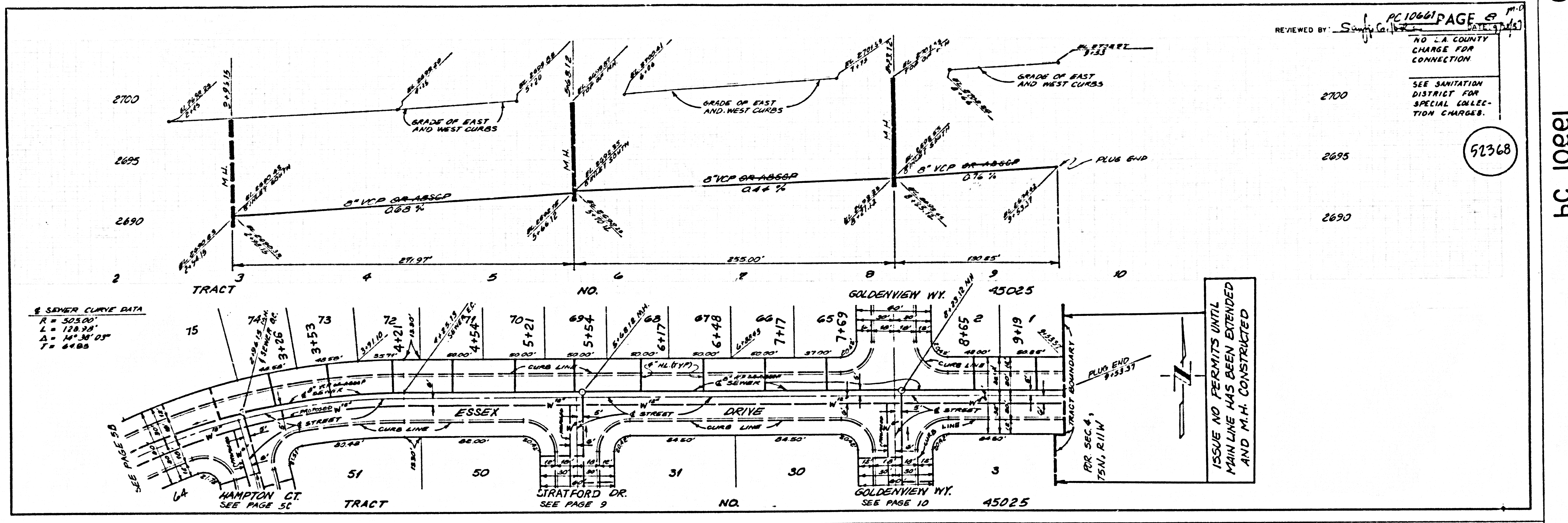
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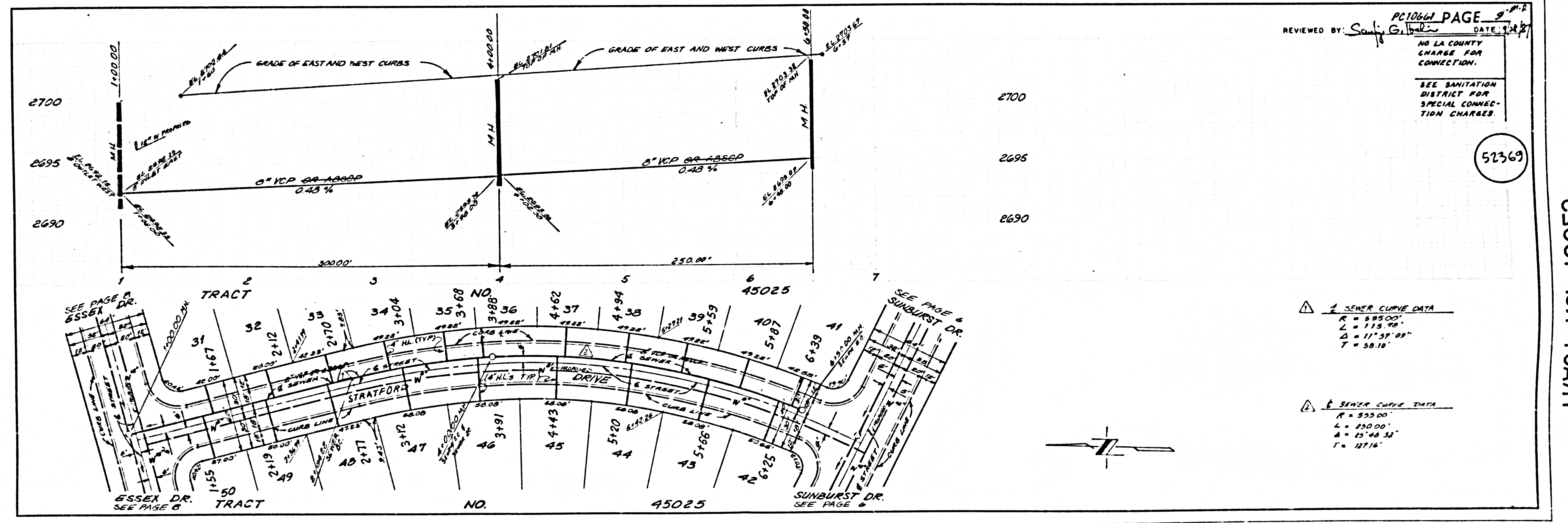
REVIEWED BY: *Sandy G. [Signature]* PC10661 PAGE 7 P. 6  
DATE: 9/13/87

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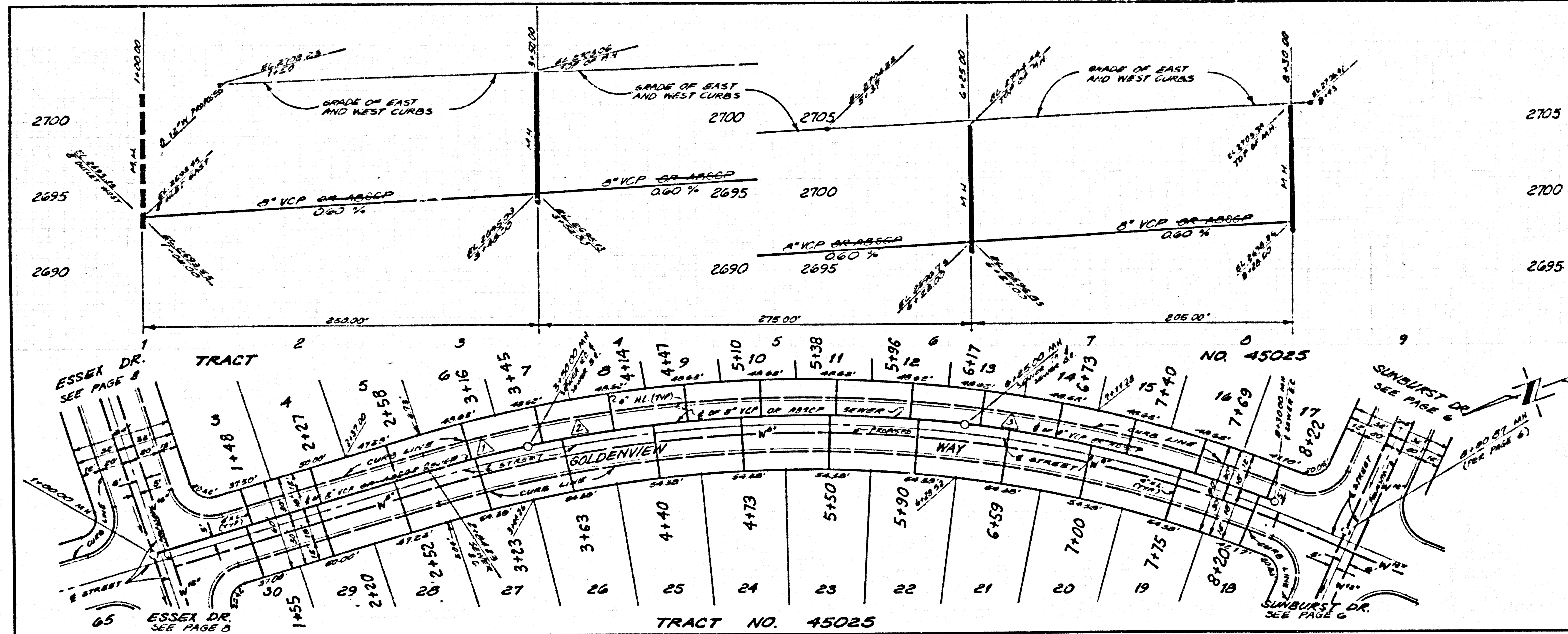
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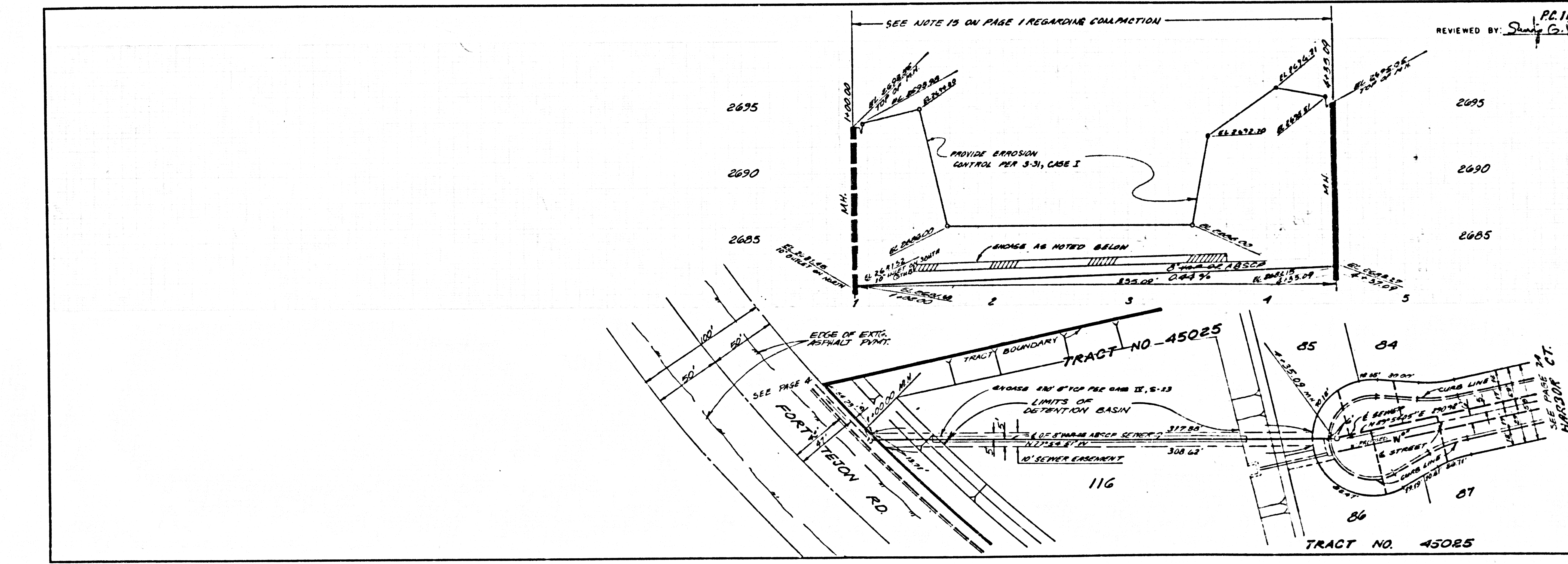
25024 ON TCAFT



P.C. 10661 PAGE 10 M.D.  
 REVIEWED BY: *Shirley G. Walker* DATE: 7-28-87  
 NO L.A. COUNTY CHARGE FOR CONNECTION.  
 SEE SANITATION DISTRICT FOR SPECIAL CONNECTION CHANGES.

52370

- 1. SEWER CURVE DATA  
 R = 805.00'  
 L = 68.79'  
 Δ = 4° 40' 52"  
 T = 32.90'
- 2. SEWER CURVE DATA  
 R = 806.00'  
 L = 278.00'  
 Δ = 19° 34' 23"  
 T = 138.88'
- 3. SEWER CURVE DATA  
 R = 808.00'  
 L = 308.00'  
 Δ = 11° 33' 27"  
 T = 103.06'



P.C. 10661 PAGE 11 M.D.  
 REVIEWED BY: *Shirley G. Walker* DATE: 7-28-87  
 NO L.A. COUNTY CHARGE FOR CONNECTION.  
 SEE SANITATION DISTRICT FOR SPECIAL CONNECTION CHANGES.

52371

18201 29

25024 ON T-CART