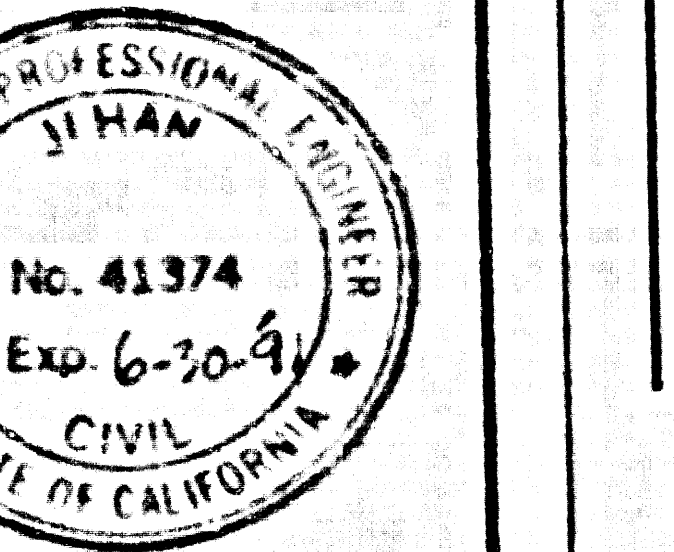


# SANITARY SEWERS

TO BE CONSTRUCTED IN  
**RIGHT OF WAY IN  
 TRACT 35285  
 PRIVATE CONTRACT NO. 10931  
 INDEX C-88, E-1**

1 SHEET 2 PAGES  
 SCALE: VERT. 1" = 4'  
 HORIZ. 1" = 40'  
 DECEMBER, 1989  
 PREPARED IN THE OFFICES OF  
**ASL Consulting Engineers**  
 65 EAST HUNTINGTON DRIVE, SUITE 200  
 ARLINGHAM, CALIF. 91702  
 BY: *J. Han* REG. C.E. 41874



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

SEWER	8-1
BRICK SEWER MANHOLE	8-2
STANDARD MANHOLE STEP	8-7
SECTIONS FOR BRICK PIPE	8-11
CONDUIT AND ENCASUREMENT	8-21
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LOADING MANHOLE FRAME AND COVER	8-23
NON-REINFORCED PRECAST CONCRETE BETWEEN MANHOLES	8-23

**COUNTY OF LOS ANGELES, CALIFORNIA**  
 THOMAS A. TIDEMANSON, DIRECTOR  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED *Thomas Tidemanson* 2/16/89  
 CHARLES W. CARRY, CHIEF ENGINEER  
 CO. SAN DIST. NO. 1  
 APPROVED *Charles W. Carry* 2/16/89  
 CHECKED *James J. Engstrom* 2/16/89  
 REG. C.E. NO. 19433  
 LOMITA BLDG. DIST. 12

### GENERAL NOTES:

1. ELEVATIONS ARE IN FEET AS THE U.S.C. & G.S. MEAN LEVEL DATUM OF 1985.
2. NO REVISIONS SHALL BE MADE IN THIS PLAN WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
3. NO REPRESENTATIVE OF THE DEPT. OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS APPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTERLINE OF STREETS, OR CENTERLINE OF ALLEYS ARE SHOWN BY CIRCLES OR SQUARES AT ALL POINTS BEING RECORDED. POINTS THE GRADE SHALL BE ESTABLISHED AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE DEPT. OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "OR" T" BRANCHES AND SHALL PROVIDE STAKES FOR THE ALL THEIR PROPER LOCATIONS WITH A 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 90° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE INDICATED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE, BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIVISION OF THE L.A. DEPT. OF PUBLIC WORKS PERMIT OFFICE NO. 8 & 9 IN A FEE OF \$100. ADDRESS: DEPT. OF PUBLIC WORKS, 1200 N. GARDEN ST., LOS ANGELES, CALIF. 90012. THE PERMIT FEE IS TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 150 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION 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.
10. REFER TO SECTION 7.16.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.
11. 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 CONSTRUCTION DIVISION OF THE DEPT. OF PUBLIC WORKS PERMIT OFFICE NO. 8 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. (FORM 2000-2000) SEE REG. NO. 40 HEREIN & MAILED AS THE CERTIFICATE HOLDER TO BE RECEIVED 30 DAYS PRIOR TO CANCELLATION OF POLICY.
12. ADDR. OF DEPT. OF PUBLIC WORKS: 800 S. FREMONT AVE., ALHAMBRA, CA. 91805, 8TH FLOOR.

### CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THIS SECTION) AND DEPT. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS (AS SHOWN SEPT. 1978) AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DEPT. OF PUBLIC WORKS.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION OF PUBLIC WORKS DEPT. PERMITS DIVISION AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITHIN 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS IF A.S.C.P. IS USED.
6. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER 8-2 OR PRECAST CONCRETE MANHOLES PER 8-23, EXCEPT AS NOTED.
7. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINE PRODUCE AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTERLINE OF EACH MANHOLE.
8. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE 24 INCHES ABOVE FINISHED GRADE.
9. UNFINISHED CLAY PIPE JOINTS SHALL BE TYPE "D" OR "E" PER STANDARD SPECIFICATIONS SECTION 208-2.
10. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER 8-23, CASE A, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
11. 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, SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER 8-23, CASE B UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
12. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D" (WITH BRASS) IF NECESSARY FOR STANDARD SPECIFICATIONS, SECTION 208-2.
13. ALL JOINTS BETWEEN CAST IRON PIPE & A.S.C.P. SHALL BE MADE WITH APPROVED FITTINGS.
14. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 208-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
15. REINFORCE ALL TRENCHES WITHIN RIGHT AREAS TO MEET L.A. COUNTY PUBLIC WORKS DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. FULL COMPLIANCE WITH SECTION 208-1.3.4 OF THE STANDARD SPECIFICATIONS WILL BE REQ. FOR BACKFILL IN STREETS PROVIDED BY THE CONTRACTOR 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.
17. SPECIAL BACKFILL IN EASEMENT CONSTRUCTION (IN BACKFILL TRENCH AND REPLACE OTHER EARTH SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS DEVELOPMENT BY THE LAND DEVELOPMENT DIVISION. IN ALL BACKFILL AND EARTH REPLACES SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A 3.15' 870' METHOD OF TEST OR AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTED SHALL BE SUBMITTED TO THE CONSTRUCTION DIV. PUBLIC WORKS DEPT.

### PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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 OUR KNOWLEDGE THERE ARE NO OTHER UTILITIES EXCEPT AS SHOWN ON THE SE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER UTILITIES NOT OF RECORD OR NOT SHOWN ON THE SE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERTS AT 1-800-475-4753 TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

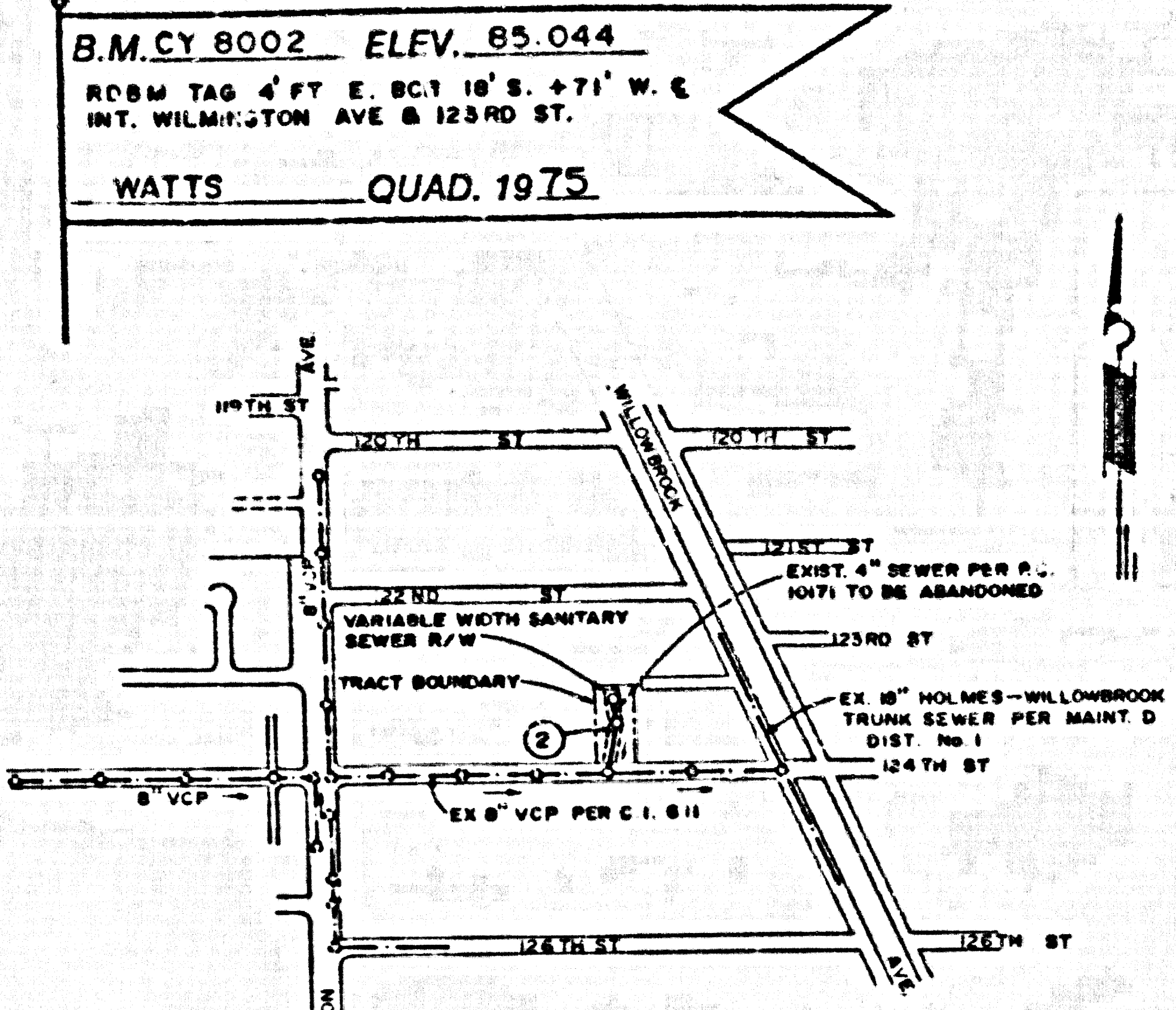
*J. Han*  
 REGISTERED ENGINEER REG. NO. 41374

### CONSTRUCTION NOTES CONT.

16. FULL COMPLIANCE WITH PART IV OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.S.C. COMPOSITE PIPE.
17. MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.S.C. COMPOSITE PIPE TO MANHOLE STRUCTURES.
18. A.S.C. SOLID WALL PIPE MUST BE USED FOR WYE AND HOUSE LATERAL CONNECTIONS TO A.S.C. COMPOSITE MAINLINE SEWER PIPE.
19. A.S.C. SOLID WALL PIPE SHALL BE MADE IN COMPLIANCE WITH THE TABLE IN SECTION 8.2.1 OF PART IV OF THE SPECIAL PROVISIONS.
20. THREE DRIVE "BEE DEPLET" JOINT COUPLERS ARE REQUIRED FOR RADII OF CURVATURE LESS THAN 300 FEET WHEN USING A.S.C. COMPOSITE PIPE.
21. NO CONNECTIONS FOR DISPOSAL OF INDUSTRIAL WASTES IS ALLOWED IF A.S.C. COMPOSITE PIPE IS USED.
22. SEWER LINE CURVATURE SHALL NOT BE ACHIEVED BY PULLING OF JOINTS OR BY ELONG PIPE ENDS WHEN USING PLASTIC PIPE INCLUDING A.S.C. COMPOSITE PIPE.
23. 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.
24. A.S.C. SOLID WALL PIPE IS NOT ACCEPTABLE FOR USE AS MAINLINE SEWER.
25. ONLY WYE BRANCHES ARE TO BE USED FOR CONNECTION TO A.S.C. COMPOSITE MAINLINE SEWER PIPE.

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 DISTRICTS FOR SAID CONNECTION.

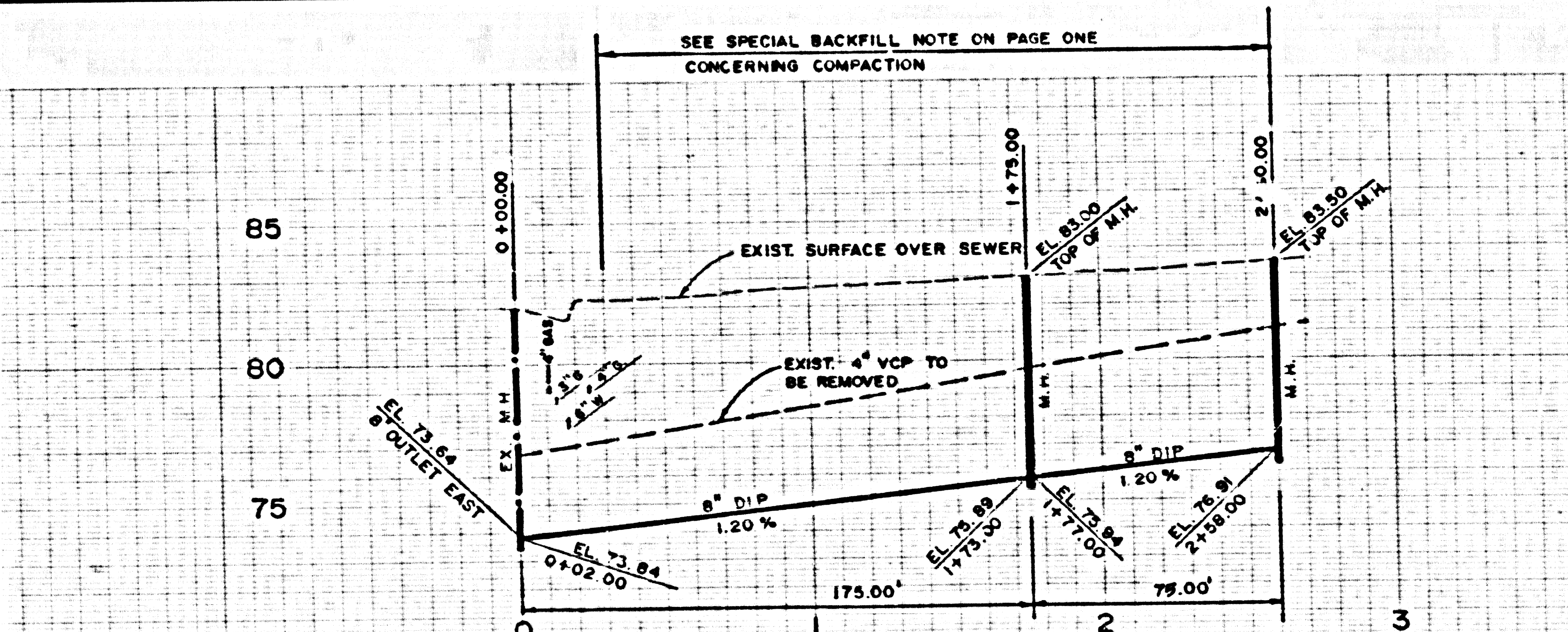
BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (213) 638-1161 SO THAT REQUIRED INSPECTION CAN BE MADE.



**INDEX MAP  
 P.C. No. 10931  
 SCALE: 1" = 600'  
 R/W IN TRACT 36285**

NOTE  
 NUMBER IN CIRCLE INDICATE  
 PAGE NUMBER

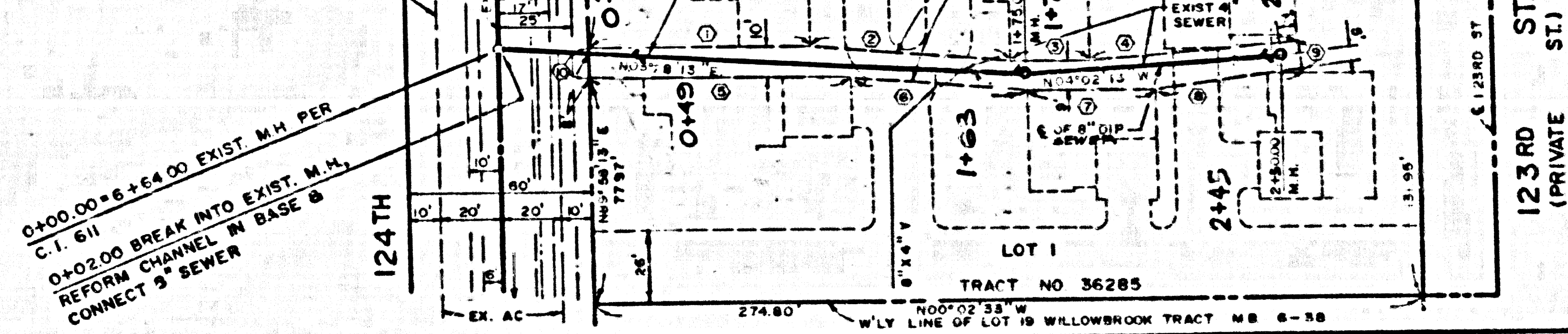
REVIEWED BY: *Sally G. Ball* P.C. 10931 PAGE 2  
 DATE: 2-15-89



SCALE  
 VERT. 1" = 4'  
 HORIZ. 1" = 40'

NO L.A. CO. CHARGE  
 FOR CONNECTIONS  
 SEE COUNTY SANITATION  
 DISTRICTS FOR SPECIAL  
 CONNECTION CHARGES

- UNDERGROUND COMPANIES
- 1. 6" SOCONY MOBIL GAS
  - 2. 6" WATER - L.A. CO. DIST.
  - 3. 4" MOBIL GASOLINE
  - 4. 3" SO. CAL. GAS - ABAND.
  - 5. 6" WATER - ABAND.
  - 6. 4" SO. CAL. GAS



NO.	BEARING	L
1	N00°01'47"W	74'
2	N05°28'13"E	67'
3	N00°13'13"E	27'
4	N04°46'47"W	70'
5	N00°01'47"W	88'
6	N04°28'13"E	59'
7	N00°46'47"W	43'
8	N08°16'47"W	50'
9	N81°43'13"E	10'
10	N89°58'13"E	10'

SALVAGEABLE M.H. FRAME AND  
 COVER TO BE DELIVERED TO  
 SEWER MAINTENANCE YARD AT  
 1129 E. 59TH ST  
 LOS ANGELES, CALIF.