PROFILE ALIGNMENT AND GRADES OF

SANITARY SEWERS

TO BE CONSTRUCTED IN

TRACT NO. 46584

PRIVATE CONTRACT NO. 11036

C-221, C9

1 SHEET 2 PAGES

REGISTERED PROFESSIONAL ENGINEER — ROBERT K. RAMSOMER — No. 15479 — Exp. 3-31-92 — CIVIL — STATE OF CALIFORNIA

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

SEPT., 1989

53348

PREPARED IN THE OFFICES OF
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BY: Robert K. Ramsomer
REG. C.E. No. 15479

B.M. CY 9017 ELEV. 792.693
RD. BM. 7.45 IN CB 3 FT. N. OF C.L. OF E. BOUND LANE 6 FT. N. OF E. END OF LAS VIRGENES CVN. RD. & QUINTANA ST.

MALIBU QUAD. 1982

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
3. NO REPRESENTATIVE OF THE DEPARTMENT OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY ALIGNMENT OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. CHANGES POINTS FOR TOP OF CURBS, CENTERLINE OF STREETS, OR CENTERLINE OF ALLEYS ARE SHOWN BY CIRCLES IN PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE DEPARTMENT OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THESE AT THESE PROFILE LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED AS A STRAIGHT LINE WHICH EXTENDS FROM THE MAIN LINE TO BE RECEIVED AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHAINAGE POINTS WILL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIVISION OF THE LOS ANGELES DEPARTMENT OF PUBLIC WORKS. PERMIT OFFICE NO. 5, AND PAY A FEE TO THE DIRECTOR OF PUBLIC WORKS. 900 S. FREMONT AVE., ALHAMBRA, CALIFORNIA 91803 — 6TH FLOOR, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7.10.1 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 DEPARTMENT OF PUBLIC WORKS COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS, A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA, A DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 900 S. FREMONT AVE., ALHAMBRA, CALIFORNIA 91803 — 6TH FLOOR, NAMED AS THE CERTIFICATE HOLDER TO BE NOTIFIED 30 DAYS PRIOR TO CANCELLATION OF POLICY.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1988 EDITION) AND DEPARTMENT OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED JULY 31, 1986 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DEPARTMENT OF PUBLIC WORKS.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, (818) 458-3126, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH 6" PER FOOT TO R/W LINE.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAIN LINE SEWERS EXCEPTED AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK SEWER MANHOLES PER S-3 OR PRECAST CONCRETE SEWER MANHOLES PER S-36, EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "S" OR "E" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER S-23, CASE II. TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER (INCH OR BUT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "S", WITH BUSHING IF NECESSARY PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET LOS ANGELES COUNTY PUBLIC WORKS OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
14. FULL COMPLIANCE WITH SECTION 306-1.3.4 OF THE STANDARD SPECIFICATIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED, REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
15. SPECIAL BACKFILL IN EASEMENT CONSTRUCTION: (A) 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. (B) ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER ASTM STD. METHOD OF TEST D698 OR T 99 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION, PUBLIC WORKS DEPARTMENT.

CONSTRUCTION NOTES (CONT.):

11. TESTING FOR LEAKAGE IN SANITARY SEWER LINES WITHIN THE DISTRICT: A LIMITATION OF LEAKAGE RATE WITHIN THE DISTRICT SHALL BE THE SAME AS L.A. COUNTY EXCEPT THAT ALLOWABLE RATE IS AS FOLLOWS.....

60.93 GALLONS/MINUTES/INCH OF DIAMETER/1,000 FEET

OR

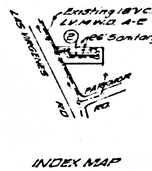
250 GALLONS/DAY/INCH O.D. DIAMETER/MILE

B. MANHOLE LEAKAGE TESTS: AT THE DIRECTION OF THE DISTRICT'S INSPECTOR, ONE MANHOLE OUT OF EVERY TEN MANHOLES AND A MINIMUM OF TWO WILL BE FILLED WITH WATER 72 AFTER THREE HOURS WILL BE CHECKED FOR LEAKAGE WITH NO DROP IN LEVEL. FOR EVERY MANHOLE (OF ABOVE SELECTION) THAT SHALL BE TESTED AT THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.

C. LATERAL TESTING: WHERE THE INTERFACE OF A JUNCTION BETWEEN THE INVERT OF THE "Y" OR "T" AND THE CROWN OF THE MAIN LINE SEWER IS LESS THAN ONE FOOT, THE ENTIRE LATERAL SHALL BE TESTED AT THE TIME THE TOP TEN FEET OF THE MAIN LINE IS TESTED. THE TEST SHALL BE CONDUCTED BY PLUGGING THE LATERAL AT THE "Y" OR "T" AND AT THE CLEANOUT AT THE PROPERTY LINE AND FILLING THE LATERAL WITH WATER. THE TEST SHALL BE CONSIDERED SATISFACTORY IF THE TOP TEN FEET OF THE MAIN LINE AND THE LATERAL LOSE ONE POUND PER SQUARE INCH GAGE PRESSURE FROM THREE POUNDS PER SQUARE INCH GAGE PRESSURE TO TWO POUNDS PER SQUARE INCH GAGE PRESSURE. THE TIME SHALL NOT BE LESS THAN TIMES SHOWN ON THE FOLLOWING TABLE:.....

MAIN PIPE DIAMETER	MINIMUM TIME LOSS
8"-10"	1 MINUTE
12"-20"	2 MINUTES
21"-30"	3 MINUTES

IF THE TIME IS LESS THAN LISTED IN THE TABLE ABOVE, THE CONTRACTOR SHALL MAKE SUCH REPAIRS AS NECESSARY TO ELIMINATE THE EXCESSIVE LEAKAGE.



INDEX MAP
P.C. 11036
TRACT NO. 46584
F.B. 100-1, 3
Note: Number in Circle Indicates Page Number

SCALE: 1"=600'

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	S-1
BRICK MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR 36" AND LESS PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
ALLOWABLE TRENCH WIDTHS	S-33
LOCKING MANHOLE FRAME AND COVER	S-38
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-48
L.V.M.W.D. STANDARD MANHOLE	65
L.V.M.W.D. STANDARD FRAME AND COVER	103

COUNTY OF LOS ANGELES, CALIFORNIA

THOMAS A. TIDEMANSON
DIRECTOR OF PUBLIC WORKS

APPROVED Dean Gholston 11-21-89 (DATE)

CHECKED Bernard Olsen 11-15-89 (DATE)

REG. C.E. NO. 18116

CHECKED BY LOS VIRGENES MUNICIPAL WATER DISTRICT

APPROVED James T. Colbaugh 12-1-89
JAMES M. COLBAUGH
DIRECTOR OF PLANNING AND ENGINEERING

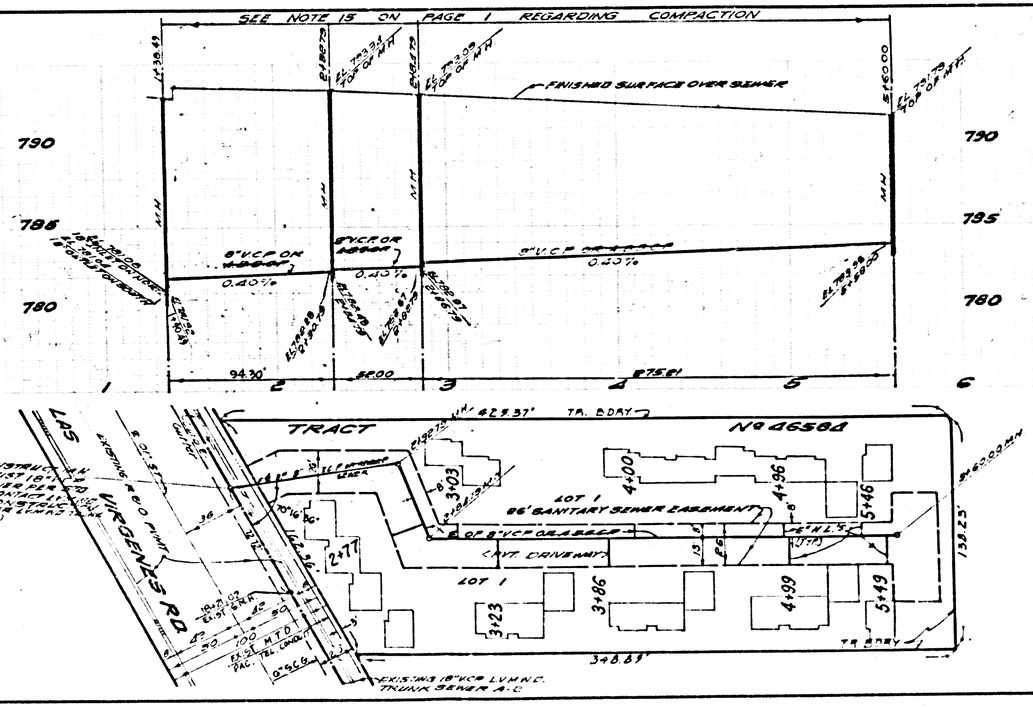
CALABASAS BLDG. DIST. 31

REVIEWED BY: Sandy G. Hall DATE 11/14/89

NO L.A. CO. CHARGE FOR CONNECTION

SEE L.V.M.W.D. FOR CONNECTION CHARGE

SEE NOTE 13 ON PAGE 1 REGARDING COMPACTION



NOTE: BACKWATER VALVES MAY BE REQUIRED

PC 11036

TRACT