

SANITARY SEWERS

TO BE CONSTRUCTED IN

TRACT NO. 50000

PRIVATE CONTRACT NO. 13000

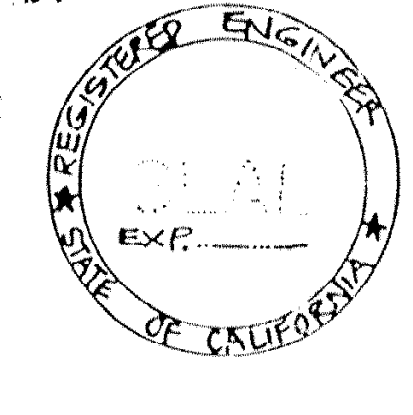
(INDEX)

2 SHEETS; 4 PAGES

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

PREPARED IN THE OFFICES OF
COMPANY'S NAME
ADDRESS
BY: *Robert H. Stone*
REG. C.E. No. 001871 EXP. DATE

INSTRUCTION NOTE
PLANS MUST BE SIGNED
BEFORE BEING SUBMITTED



GENERAL NOTES:

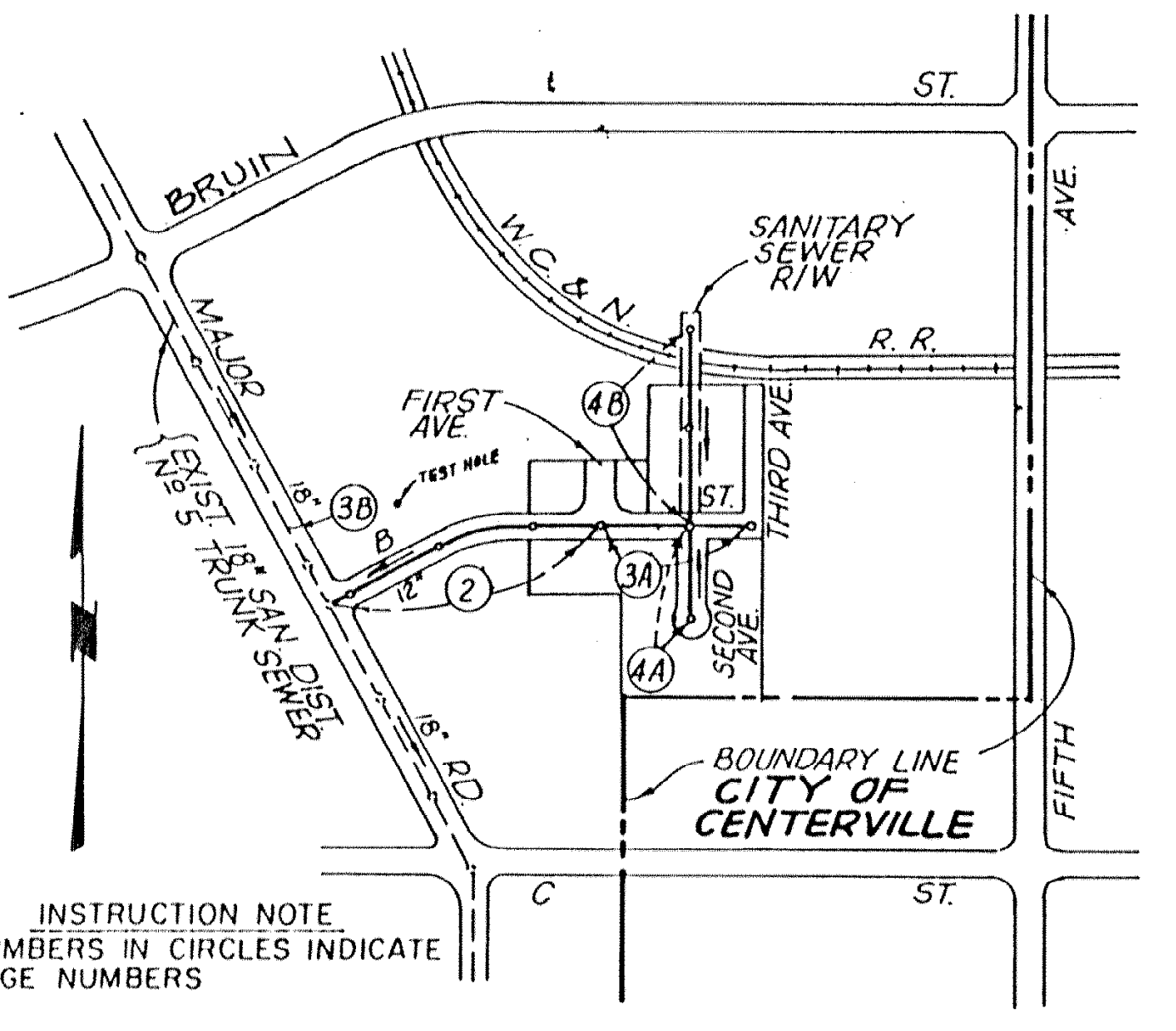
- ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929
- NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS
- NO REPRESENTATIVE OF THE DEPARTMENT OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK
- GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTERLINE OF STREETS, OR CENTERLINE 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
- 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 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 A SLOPE OF LESS THAN 1/4" 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 COUNTY STREETS FROM THE ROAD ELEMENT OF THE LOS ANGELES DEPARTMENT OF PUBLIC WORKS OVERSEER OFFICE NO. 60 AND PAY FEE TO THE DIRECTOR OF PUBLIC WORKS. A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA, A DIVISION OF INDUSTRIAL SAFETY AND CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 488 W. VENEDIA AVE., LOS ANGELES, CALIFORNIA 90006-0000 MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION. INSURANCE POLICY NO. 9000-0000-0000 MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION. INSURANCE POLICY NO. 9000-0000-0000 MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION. INSURANCE POLICY NO. 9000-0000-0000 MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- 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
- REFER TO SECTION 7.10.1.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS
- 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 AT THE DEPARTMENT OF PUBLIC WORKS, A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA, A DIVISION OF INDUSTRIAL SAFETY AND CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 488 W. VENEDIA AVE., LOS ANGELES, CALIFORNIA 90006-0000. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE FOR A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE ROAD ELEMENT AT THE DEPARTMENT OF PUBLIC WORKS (618) 458-3129
- 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
- ALL STRUCTURES SHALL BE EITHER BRICK SEWER MANHOLES PER S-3 OR PRECAST CONCRETE SEWER MANHOLES PER S-36, EXCEPT AS NOTED
- PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTERLINE OF EACH MANHOLE
- MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE
- VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "O" OR "Q" PER STANDARD SPECIFICATIONS SECTION 208-2
- 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
- IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET COVER OVER THE TOP OF A MAINLINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II, 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 SLEEVE JOINT, TYPE "C" OR "D", WITH BUSHING IF NECESSARY PER STANDARD SPECIFICATIONS, SECTION 208-2
- SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 208-1.4 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 208-1.4 OF THE STANDARD SPECIFICATIONS WILL BE REQUIRED FOR BACKFILL WITHIN THE 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
- SPECIAL BACKFILL INCREASED 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 BUILDING AND SAFETY DIVISION (B) ALL BACKFILL AND EARTH REPLACE SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. METHOD OR TEST OTHER AS MODIFIED ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION, PUBLIC WORKS DEPT.

CONSTRUCTION NOTES:

- WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1988 EDITION) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED JULY 31, 1989 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER
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B.M. M.E. 55 ELEV. 110.803
NORTHWEST CORNER "C" STREET AND
MAJOR ROAD L & T 5 FT. W. OF W.
END OF CURB RETURN
MALIBU QUAD. 19 78

INSTRUCTION NOTE
AN ACCEPTABLE BENCH MARK IS TO BE SHOWN ON ALL PLANS
NO EQUATIONS BETWEEN BENCH MARK AND PLAN DATUM AUTHORIZED



INDEX MAP
P.C. 13000 TR. NO. 50000
SCALE: 1"=600'
THOMAS GUIDE PG.

GENERAL INSTRUCTION NOTES
IF IN A CONTRACT CITY CHANGE THE WORD "COUNTY TO CITY"
SUB-MINIMUM GRADES TO BE USED ONLY WITH PERMISSION OF THE
DEPARTMENT OF PUBLIC WORKS
DOUBLE SCALE IN THE PROFILE MUST BE APPROVED BY THE
DIRECTOR OF PUBLIC WORKS (ALL PAGES MUST USE SAME SCALE)
PLACE MANHOLES ON EVEN STATIONS OR 25 FT. STATIONS WHERE
PRACTICABLE
MAXIMUM MANHOLE DISTANCE TO BE 350 FEET

INSTRUCTION NOTE
IF IT IS NECESSARY TO JOIN TWO PAGES OF TRACING
CLOTH TO MAKE A STANDARD SIZE SHEET, IT IS REQUIRED
THAT THE JOINT BE MADE BY LAPPING THE EDGES 1/2
INCH AND SEWING SECURELY. PLANS SHALL CONSIST OF
STANDARD SIZE SHEETS ONLY.

DOUBLE SCALE
(WHEN APPLICABLE)
SEE GENERAL NOTE BELOW

SEWER GRADES

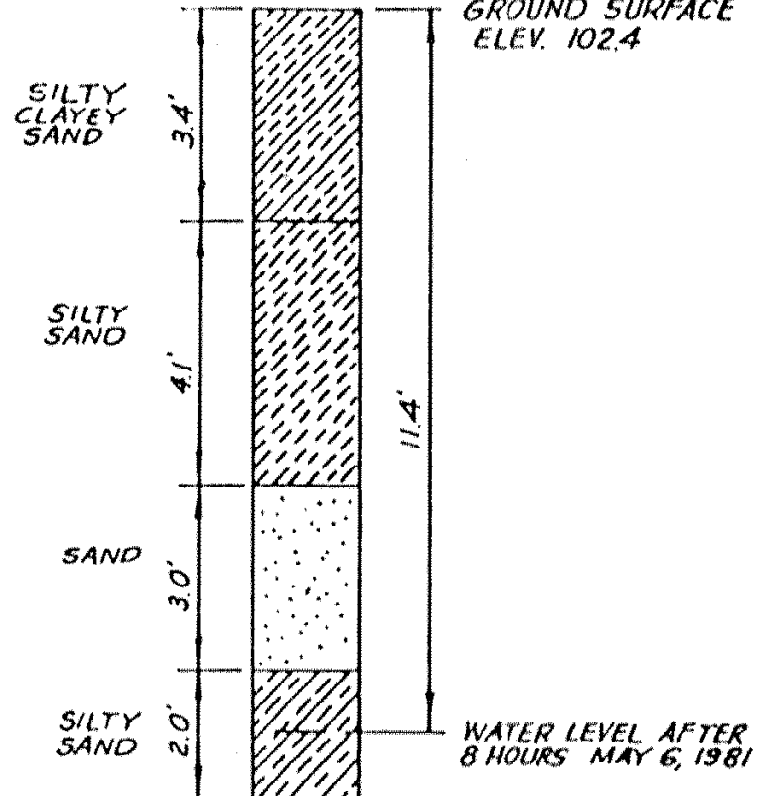
PIPE SIZE	MINIMUM	SUB-MINIMUM
4" & 6"	2.00%	NOT ALLOWED
8"	0.40%	0.24%
10"	0.32%	0.20%
12"	0.24%	0.16%
15"	0.16%	0.12%
18"	0.14%	0.08%
21"	0.12%	0.08%
24"	0.10%	0.08%

INSTRUCTION NOTE
A.B.S., A.B.S. COMPOSITE, OR P.V.C. PIPE MAY BE USED
IN LIEU OF V.C.P. IF IT CONFORMS TO THE CONDITIONS
OF USAGE CONTAINED IN PART IV, PLASTIC SEWER
PIPE OF THE "SPECIAL PROVISIONS" FOR THE CON-
STRUCTION OF SANITARY SEWERS. SPECIAL APPROVAL
MUST BE OBTAINED FROM THE SANITARY ENGINEERING
SECTION BEFORE USING ANY MATERIALS OTHER THAN
V.C.P. EITHER PLANS MUST BE APPROVED SHOWING THE
ALTERNATE PIPE MATERIAL OR A LETTER MUST BE SUB-
MITTED BY THE DESIGN ENGINEER REQUESTING THE USE
OF THE ALTERNATE MATERIAL.

PLAN REVISION NOTE

REVISION NO.	DATE
(DESCRIPTION OF REVISION IN FULL INCLUDING PAGE NUMBER(S) AND STATION INVOLVED.)	

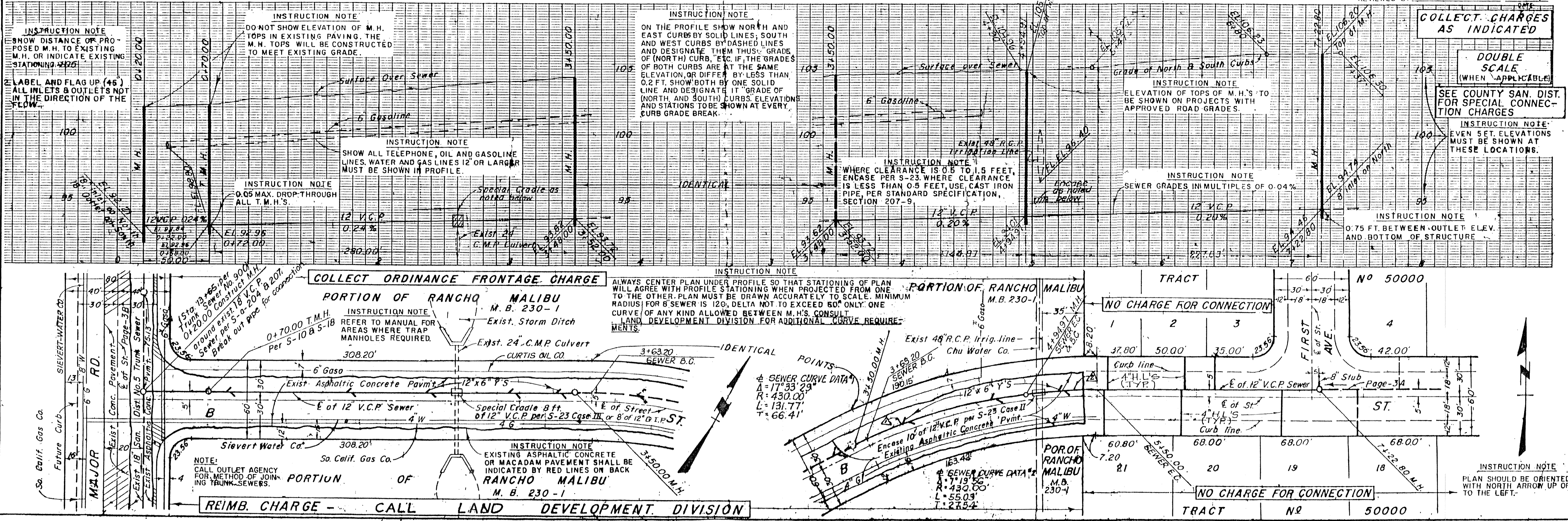
APPROVED _____ DEPT. OF PUBLIC WORKS



TEST HOLE DATA

NE. COR. "B" ST. & MAJOR RD.
INSTRUCTION NOTE
TEST BORING REQUIRED ON
REQUEST OF THE DEPT. OF
PUBLIC WORKS

NOTE: THIS SAMPLE DRAWING IS FOR DESIGN STANDARDS ONLY.
A NEW FORMAT IS AVAILABLE ON DISKETTE ANY QUESTIONS CALL (626) 458-4921



COLLECT. CHARGES AS INDICATED

DOUBLE SCALE (WHEN APPLICABLE)

SEE COUNTY SAN. DIST. FOR SPECIAL CONNECTION CHARGES

INSTRUCTION NOTE
EVEN SET ELEVATIONS MUST BE SHOWN AT THESE LOCATIONS

INSTRUCTION NOTE
SEWER GRADES IN MULTIPLES OF 0.04%

INSTRUCTION NOTE
0.75 FT. BETWEEN OUTLET ELEV. AND BOTTOM OF STRUCTURE

INSTRUCTION NOTE
PLAN SHOULD BE ORIENTED WITH NORTH ARROW UP OR TO THE LEFT.

COLLECT ORDINANCE FRONTAGE CHARGE

PORTION OF RANCHO MALIBU M.B. 230-1

INSTRUCTION NOTE
REFER TO MANUAL FOR AREAS WHERE TRAP MANHOLES REQUIRED.

INSTRUCTION NOTE
EXISTING ASPHALTIC CONCRETE OR MACADAM PAVEMENT SHALL BE INDICATED BY RED LINES ON BACK

REIMB. CHARGE - CALL LAND DEVELOPMENT DIVISION

PORTION OF RANCHO MALIBU M.B. 230-1

INSTRUCTION NOTE
ALWAYS CENTER PLAN UNDER PROFILE SO THAT STATIONING OF PLAN WILL AGREE WITH PROFILE STATIONING WHEN PROJECTED FROM ONE TO THE OTHER. PLAN MUST BE DRAWN ACCURATELY TO SCALE. MINIMUM RADIUS FOR B SEWER IS 120, DELTA NOT TO EXCEED 60° ONLY ONE CURVE OF ANY KIND ALLOWED BETWEEN M.H.'S. CONSULT LAND DEVELOPMENT DIVISION FOR ADDITIONAL CURVE REQUIREMENTS.

INSTRUCTION NOTE
EXISTING ASPHALTIC CONCRETE OR MACADAM PAVEMENT SHALL BE INDICATED BY RED LINES ON BACK

INSTRUCTION NOTE
SEWER CURVE DATA
A=17°33'23"
R=430.00'
L=131.77'
T=66.41'

INSTRUCTION NOTE
SEWER CURVE DATA
A=17°19'56"
R=430.00'
L=127.54'

TRACT NO 50000

NO CHARGE FOR CONNECTION

TRACT NO 50000

NO CHARGE FOR CONNECTION

TRACT NO 50000

