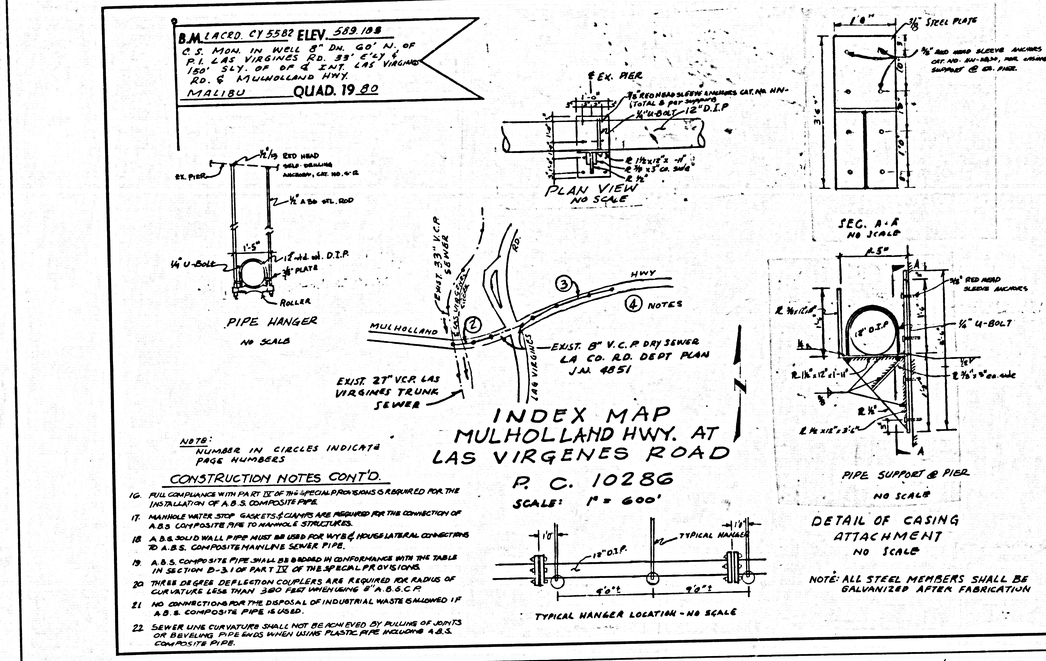
B.M. LACFD CY 5502 ELEV. 589.188
O.S. MON. IN WELL 8" DN. 60' N. OF P.I. LAS VIRGINES RD. 33' E'LY & 120' S'LY. OF ℄ INT. LAS VIRGINES RD. & MULHOLLAND HWY.
MALIBU QUAD. 1980



NOTE: ALL STEEL MEMBERS SHALL BE GALVANIZED AFTER FABRICATION

NOTE: NUMBER IN CIRCLES INDICATE PAGE NUMBERS

CONSTRUCTION NOTES CONT'D.

16. FULL COMPLIANCE WITH PART IV OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE.
17. MANHOLE WATER STOP GASKETS & COVERS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
18. A.B.S. 30 LD WALL PIPE MUST BE USED FOR WYE & HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.
19. A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION D-3.1 OF PART IV OF THE SPECIAL PROVISIONS.
20. THREE DEGREE DEFLECTION COUPLERS ARE REQUIRED FOR RADIUS OF CURVATURE LESS THAN 380 FEET WHEN USING 8" A.B.S.C.P.
21. NO CONNECTIONS FOR THE DISPOSAL OF INDUSTRIAL WASTE ALLOWED IF A.B.S. COMPOSITE PIPE IS USED.
22. 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.

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 COUNTY ENGINEER
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. 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 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.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH WHALE 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 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 L.A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 3 AND PAY A FEE TO THE COUNTY ENGINEER, 550 S. VERMONT AVENUE, LOS ANGELES, CA 90020, 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 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.
10. REFER TO SECTION 7.18.1 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 COUNTY ENGINEER COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE LOS ANGELES COUNTY ROAD DEPARTMENT, A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF COUNTY ENGINEER, 900 SOUTH VERMONT, RM 408, LOS ANGELES, CALIF. 90020, 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 1982 EDITION WITH 84 SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED Sept. 21, 1976 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE PROJECT INSPECTOR OF THE DIVISION BY TELEPHONE, 730-2150, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 5 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 MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS A.B.S. 30 LD WALL PIPE, EXCEPT AS NOTED.
6. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-28, EXCEPT AS NOTED.
7. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
8. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
9. WITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "B" OR "B" PER STANDARD SPECIFICATIONS SECTION 208-3.
10. 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.
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 S-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
12. ALL JOINTS BETWEEN CAST IRON PIPE AND WITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D". (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS SECTION 208-3.
13. ALL JOINTS BETWEEN PLASTIC PIPE & A.B.S.C.P. SHALL BE MADE WITH APPROVED FITTINGS PER STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
14. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.6 OF THE STANDARD SPECIFICATIONS.
15. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. FULL COMPLIANCE WITH SECTION 306-1.3.5 OF THE SPECIAL PROVISIONS 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.
17. 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 BUILDING AND SAFETY DIVISION. (B) ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. STD. METHOD OF TEST D698.57 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE PROJECT INSPECTOR BY DIVISION.

PROFILE, ALIGNMENT AND GRADE OF

PAGE 1

SANITARY SEWERS

TO BE CONSTRUCTED IN

MULHOLLAND HIGHWAY AT LAS VIRGENES ROAD PRIVATE CONTRACT NO. 10286

C-253

W.S. 90

2 SHEETS, 4 PAGES

51813

SCALE: VERT. 1"=8' HORIZ. 1"=40'

FEB., 1984

PREPARED IN THE OFFICES OF

MIERA AND ASSOC., 820 E. HARVARD ST., GLENDALE

BY: Fernando R. Miera

REG. C. E. No. 24908

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LOCATING	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
STANDARD MANHOLE STEP	S-27
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
ALLOWABLE TRENCH WIDTHS	S-28
SOCKING MANHOLE FRAME AND COVER	S-30
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-28

COUNTY OF LOS ANGELES, CALIFORNIA

STEPHEN J. KOONCE, COUNTY ENGINEER — H. W. STOKES, CHIEF ENGINEER, LAS VIRGENES MUNICIPAL WATER DIST.

APPROVED Ralph D. Dorf 1/13/84 DATE — APPROVED Hal W. Stokes CHIEF ENGINEER RCE 9555 12-3-84

CHECKED Kenneth Miller 12-3-84 DATE

REG. C.E. NO. 16814

CALABASAS BLDG. DIST. 9.1

P.C. 10286 PAGE 2

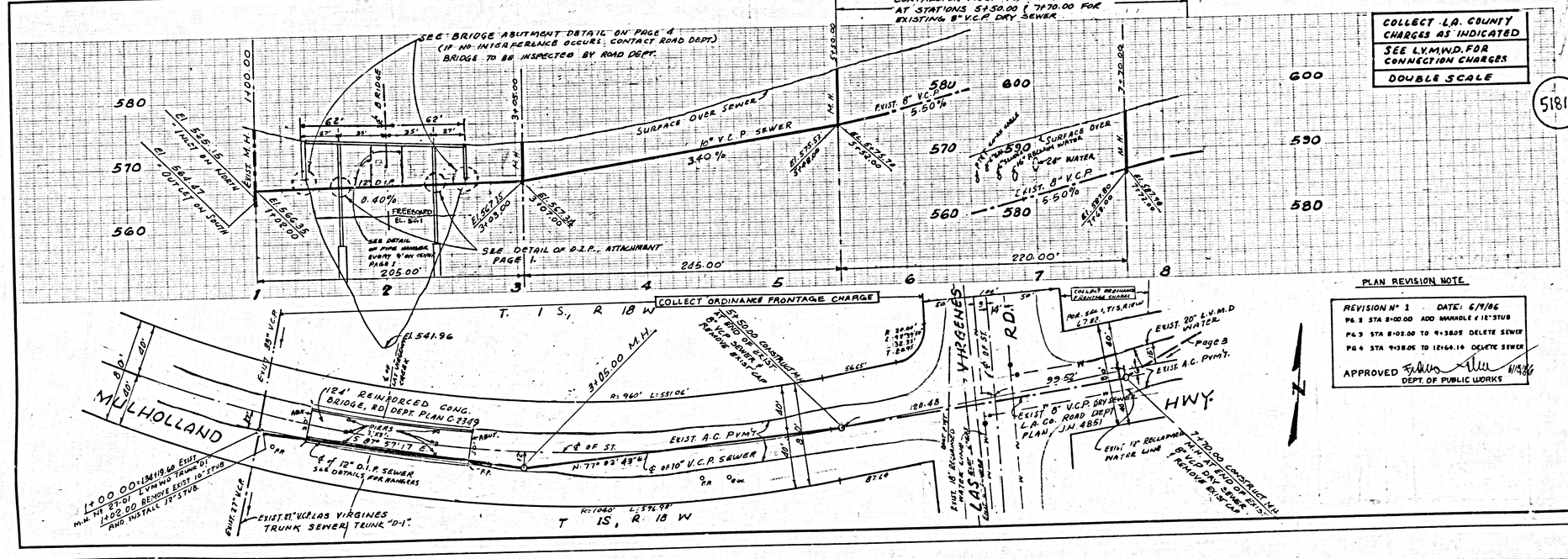
PRIOR TO CONSTRUCTION OF THIS PAGE CONTRACTOR MUST VERIFY INVERT ELEVATION AT STATIONS 5+50.00 & 7+70.00 FOR EXISTING 8" V.C.P. DRY SEWER

COLLECT L.A. COUNTY CHARGES AS INDICATED

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

DOUBLE SCALE

51814



PLAN REVISION NOTE

REVISION No. 1 DATE: 6/9/86

PG. 2 STA 8+00.00 ADD MANHOLE & 12" STUB

PG. 3 STA 8+02.00 TO 9+38.05 DELETE SEWER

PG. 4 STA 9+38.05 TO 12+64.16 DELETE SEWER

APPROVED 6/19/86 DEPT. OF PUBLIC WORKS

L.A. COUNTY SEWER SHEET NO. 1

P.C. 10286 PAGE 3

DOUBLE SCALE

51815

SEE SPECIAL BACKFILL NOTE ON PAGE 1 CONCERNING COMPACTION

Surface Over Sewer

8" A.B.S. OR V.C.P. SEWER 4.28%

Surface Over Sewer

10" A.B.S. OR V.C.P. SEWER 1.80%

EXIST. 20" WATER

20" WATER

8" V.C.P. SEWER 3.88%

EXIST. 8" OUTLET OR INVERT

COLLECT L.A. COUNTY CHARGES AS INDICATED

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

NO LOS ANGELES COUNTY CHARGES FOR CONNECTIONS

COLLECT ORDINANCE FRONTAGE CHARGE

POR. SEC. 1 T. 1 S R 18 W

P. M.

14863

LAS VIRGENES ROAD

MULHOLLAND HWY.

PROP. WIDENING LINE

EXIST. 20" L.V.M.W.D. WATER

EXIST. A.C. PVM'T.

EXIST. 12" RECLAIMED WATER LINE

SEE SECTION A-A BELOW, PAGE 4

SEE PAGE 4

12" STUB

8" V.C.P. SEWER

8" V.C.P. STUB

EXIST. 8" V.C.P. DRY SEWER L.A. CO. DEPT. PLAN J. N. 4851

℄ SEWER CURVE DATA
R= 2553.00'
Δ= 7°51' 18"
L= 350.00'
T= 175.28

POR. LOT 7

T. 1 S. R. 17 W

R=2475.00 L=235.11' Δ=54°34'00"

ISSUE NO PERMITS - STREET MUST BE DOUBLE LINED

P.C. 10286 PAGE 4

SEE SPECIAL BACKFILL NOTE ON PAGE 1 CONCERNING COMPACTION

Surface over Sewer

12" A.B.S. OR V.C.P. SEWER 0.24%

324.12

NO L.A. COUNTY CHARGES FOR CONNECTIONS

P. M.

14863

PROP. WIDENING LINE

EXIST. 6" RECLAIMED WATER

12" V.C.P. SEWER

12" STUB

EXIST. A.C. PVM'T.

SEE PAGE 3

℄ SEWER CURVE DATA T. 1S., R. 17W
R= 2553.00'
Δ= 7°16'27"
L= 324.12'
T= 162.28'

ISSUE NO PERMITS - STREET MUST BE DOUBLE LINED

SANDBLAST ALL SURFACES AT NEW CONCRETE LOCATION AND COAT WITH EPOXY BONDING COMPOUND PRIOR TO CONCRETE POUR

12" NEW CONC. WALL

#8 TYP SEE ELEVATION

FORMED OPENING PIPE O.D. + 6"

BRIDGE ABUTMENT

CUT OPENING FOR PIPE O.D. + 6"

1" MORTAR

PIPE O.D.

℄ 12" PIPE

18" SLEEVE

EXIST. SURFACE

SEC. B-B.

BRIDGE ABUTMENT DETAIL

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

℄ PIPE

Abutment

2#4 EA. FACE

2#8 EA. FACE AT EA. SIDE OF PIPE DRILLED INTO PIPE CAP

FORM OPENING 2" AROUND O.D. FOR HALF OF PIPE AND LEAVE 2" CLEARANCE AT BOTTOM OF 12" PIPE

18" SLEEVE DRY PACK GROUT

1#4 EA FACE

COLLECT L.A. COUNTY CHARGES AS INDICATED

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

DOUBLE SCALE

51816

18" STD. WT. A-36 STL. PIPE SLEEVE

6" MIN.

NO ATTACH

12" O.D.P.

DETAIL AT EACH BRIDGE ABUTMENT

50'

40'

EXIST R/W

PROPOSED R/W

42'

12'

2' M.H. TOP W/ FRAME & LID

5'

3'

EXIST. ROADWAY

EXIST GROUND

FUT. CURB LOCATION

38'

Prop. M.H.

PROP. 8" SEWER

SECTION A-A

NO SCALE

OZALID L.A. COUNTY SEWER SHEET NO. 2