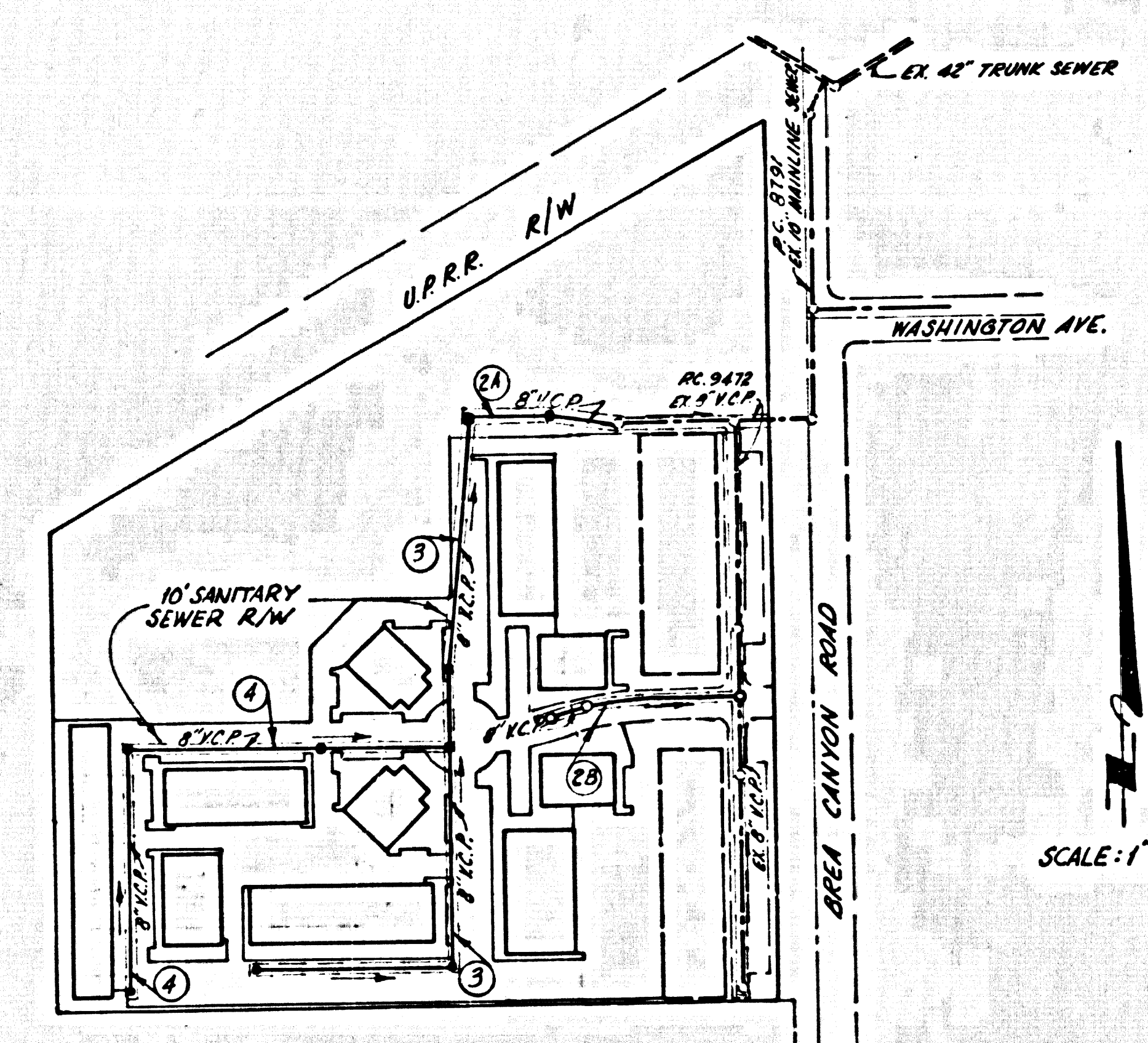


TO BE CONSTRUCTED IN
SHEA CENTER SEWER R/W
PRIVATE CONTRACT NO. 9638

W.S. 39-A3
 2 SHEETS, 4 PAGES
 SCALE: VERT. 1" = 4' AUGUST, 1979
 HORIZ. 1" = 40'
 PREPARED IN THE OFFICES OF
K.T.N. CONSOLIDATED INC.
 2301 CAMPUS DRIVE
 IRVINE, CA. 92713 (714) 833-2450
 BY: *[Signature]*
 REG. C. E. NO. 119099

47794

B.M. CG 3802 ELEV. 561.119
 100MM TAG IN C.B. 13 FT. W BCR 20 FT
 3' 60 FT. W C/L INT. LYCOMING ST &
 OLD BREA CANY. RD.
 OTTERBEIN QUAD. 19 75



INDEX MAP
 SHEA CENTER SEWER R/W
 P.C. 9638

SCALE: 1" = 200'

ISSUE NO PERMITS UNTIL
 P.C. 9472 IS ACCEPTED.

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES
 SHALL BE MADE TO SEWERS SHOWN ON THESE PLANS UNLESS A
 PERMIT FOR INDUSTRIAL WASTE WATER 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 SHEET, A QUALIFIED ENGINEER SHALL BE
 NOTIFIED BY PHONE 562-8545 SO THAT REQUIRED INSPECTION
 CAN BE MADE.

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 COUNTY ENGINEER.
- NO REPRESENTATIVE OF THE COUNTY ENGINEER 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 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.
- THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "T" OR "Y" 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.
- 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 L.A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 1, AND MAY ALSO OBTAIN A PERMIT TO EXCAVATE IN STATE HIGHWAYS FROM THE CALIFORNIA REGIONAL OFFICE, TO COVER THE COST OF CONSTRUCTION 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, 1300 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 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 218.11 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY DEVICES.
- BEFORE TO ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT BY THE COUNTY ENGINEER, THE CONTRACTOR SHALL OBTAIN A PERMIT TO EXCAVATE FROM THE STATE ENGINEER, THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY, AND SHALL FILE A CERTIFICATE OF WORKERS' COMPENSATION INSURANCE AND LIABILITY INSURANCE WITH THE COUNTY ENGINEER.

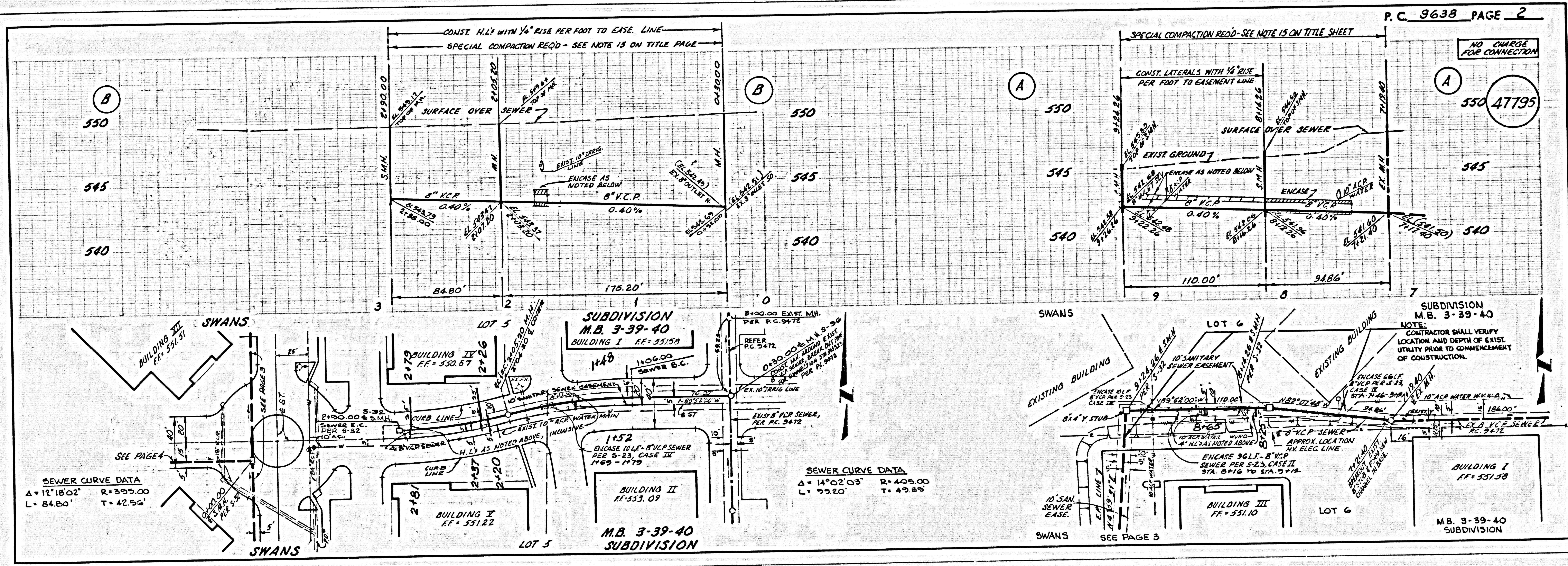
CONSTRUCTION NOTES:

- WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1973 EDITION) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEPTEMBER 21, 1976 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL DEVELOPMENT DIVISION, PHONE (818) 258-2166 (EAST 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 OF THE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
- ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-23 OR PRECAST CONCRETE MANHOLES PER S-24, 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 RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
- VERTIFIED CLAY PIPE JOINTS SHALL BE TYPE "P", "T", OR "C" OF THE STANDARD SPECIFICATIONS SECTION 206-2.
- 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 OF COVER OVER THE TOP OF A MAIN LINE 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 COUNTY ENGINEER.
- ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "B", WITH BURNING IF NECESSARY PER STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 206-1.6 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 206-1.6.5 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.
- SPECIAL BACKFILL IN UNIMPROVED AREAS: SPECIAL BACKFILL IN UNIMPROVED AREAS IS REQUIRED TO ACHIEVE THE MINIMUM OR FINISHED GRADE AND SHALL BE BACKFILLED WITHIN THE RIGHTS OF WAY OF THIS PROJECT. BY THE BUILDING AND SAFETY DIVISION. DURING AND THE CONSTRUCTION PERIOD SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER ASTM (9) TEST METHOD AND SHALL BE MANHOLES. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE ENVIRONMENTAL DEVELOPMENT DIVISION.

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

LEGEND	1-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	1-2
BRICK MANHOLE	1-3
STANDARD MANHOLE STEP	1-4
BEARING FOR SEWER PIPE	1-5
CHIMNEY AND ENCASUREMENT	1-6
PIPE ON THE SUPPORT	1-7
ALLOWABLE TRENCH WIDTHS	1-8
LOCKING MANHOLE FRAMES AND COVERS	1-9
NON-BRICKWORK PRECAST CONCRETE MANHOLES	1-10
RECTANGULAR SHALLOW MANHOLES	1-11

COUNTY OF LOS ANGELES, CALIFORNIA
 STEPHEN J. ROONEY, COUNTY ENGINEER
 WALTER E. GARIBAY, CHIEF ENGINEER
 APPROVED *[Signature]* 11/20/79
 SAN DIMAS REGIONAL ENGINEER
 APPROVED *[Signature]* 11/30/79
 OFFICE ENGINEER
 CHECKED *[Signature]* 11/20/79
 BRAT
 NO. C.E. NO. 16773
 LA PUENTE BLDG. DIST. 2.00



SEWER CURVE DATA
 Δ = 12°18'02" R = 399.00
 L = 84.80' T = 42.56'

SEWER CURVE DATA
 Δ = 14°02'03" R = 405.00
 L = 93.20' T = 49.85'

