

STORM DRAIN PLANS IN TRACT No. 37903 M.T.D. No. 905

BENCH MARK: B.M. NO. B.G. 1774 EL. 577.95
 L.A.C.F.C.D. B.M. L & T IN CONC. HDWL.
 @ N.W. COR. LA PUENTE RD. &
 PIERRE RD. 25' N. 30' W. & INTR
 MKD. (B.M.)
 COVINA QUAD 1970

GENERAL NOTES (Cont'd)

- A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST. R/W HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE CITY.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7.10.41 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.
- THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.
- ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILL IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY REQUIRED BY THE GRADING PLAN.
- THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECT TO HEAVY EQUIPMENT TRAFFIC. THE CONCRETE BACKFILL SHALL CONSIST OF 1:3:5 MIX CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM DEPTH OF 4 INCHES OVER TOP OF PIPE.
- A PERMIT SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PRIOR TO COMMENCING ANY CONSTRUCTION WORK UNDER THIS CONTRACT. CONTACT THE DISTRICT BY TELEPHONE AT 226-4208 TO OBTAIN AN INSPECTION AND CONNECTION PERMIT AND TO MAKE DEPOSIT FOR CONSTRUCTION INSPECTION BY THE DISTRICT.
- THE CONTRACTOR SHALL NOTIFY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, CONTACT ADMINISTRATION DIVISION BY TELEPHONE AT 226-4206 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.

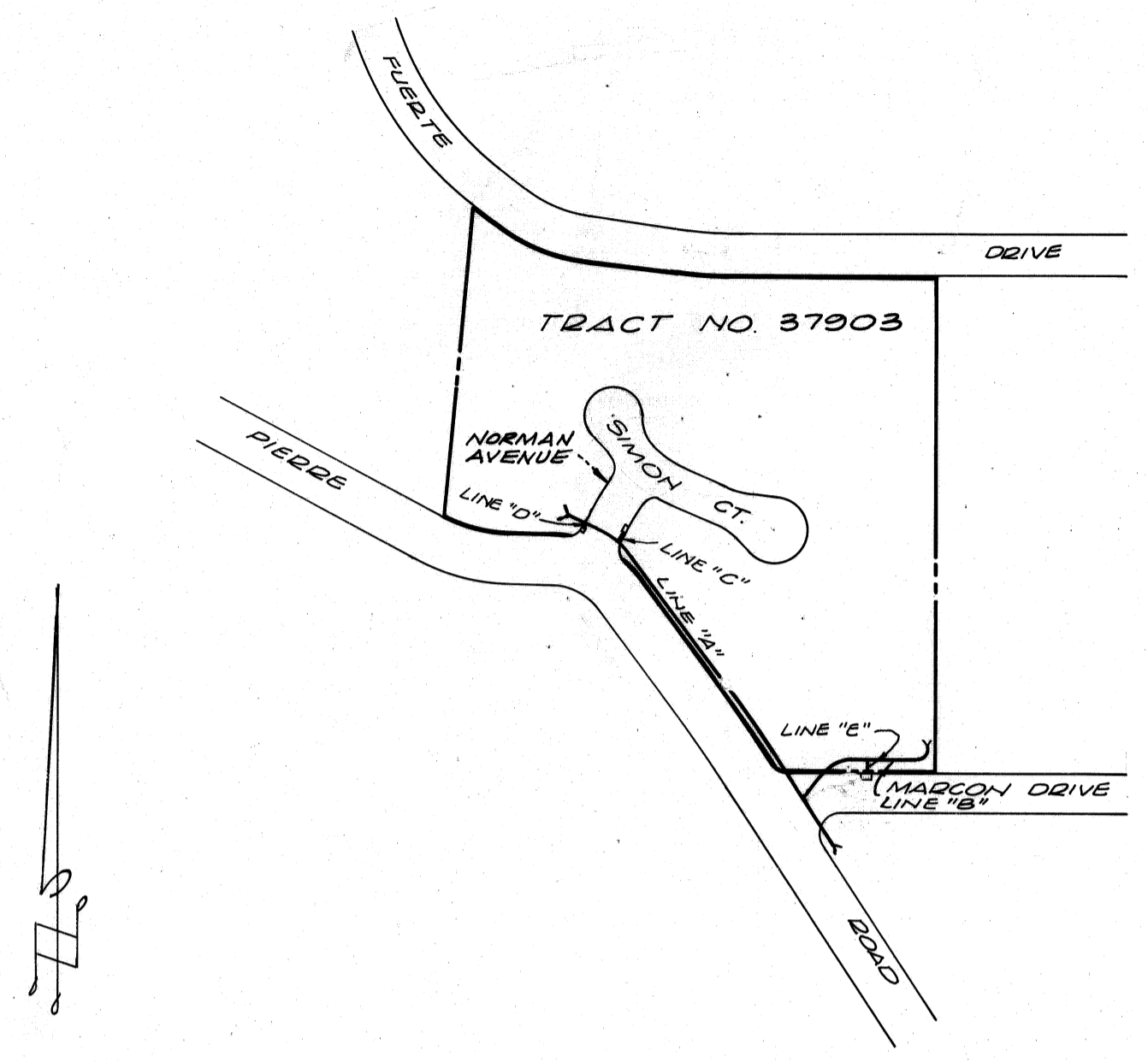
GENERAL NOTES:

- ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1979 EDITION," INCLUDING SUPPLEMENTS AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE CITY ENGINEER.
- APPROVAL OF THIS PLAN BY THE CITY OF WALNUT DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.
- THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER DIV. BY TELEPHONE (714) 295-2279 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE CITY ENGINEER AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
- NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED, INSPECTED AND APPROVED.
- TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 3000 p.s.i.
- ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
- ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 2" CLEARANCE UNLESS OTHERWISE SPECIFIED.
- REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615- GRADE-60
- ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
- DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
- ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
- ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18", WHICHEVER IS GREATER.
- ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
- PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS OTHERWISE SPECIFIED.
- WHERE PIPE IS TO BE PLACED IN FILL, THE FILL SHALL BE COMPACTED TO A MINIMUM DEPTH OF 3 FEET ABOVE THE TOP OF PIPE PRIOR TO TRENCHING.
- ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE ROAD DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL 226-8188.
- A PERMIT SHALL BE OBTAINED FROM THE ROAD DEPARTMENT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
- ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE AND BEDDING PER STANDARD DRAWING D-54, UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
- THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE COUNTY ENGINEER.

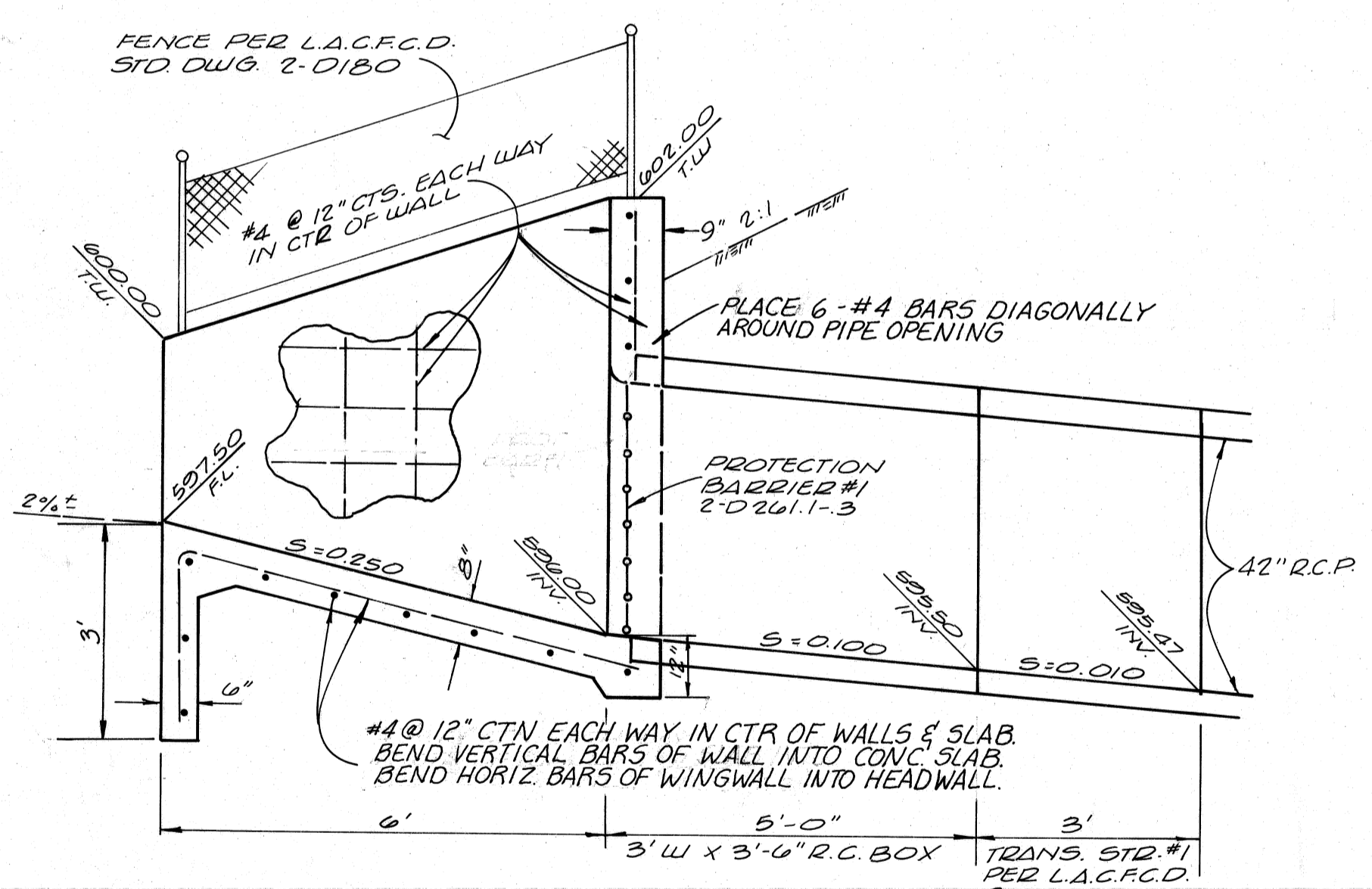
STANDARD NOTES

- CATCH BASIN NO. 1 L.A.C.F.C.D. STD. DWG. 2-D-100
- CATCH BASIN NO. 2 L.A.C.F.C.D. STD. DWG. 2-D-102
- CATCH BASIN NO. 3 L.A.C.F.C.D. STD. DWG. 2-D-103
- CATCH BASIN REINFORCEMENT L.A.C.F.C.D. STD. DWG. 2-D-172
- CATCH BASIN CONNECTIONS L.A.C.F.C.D. STD. DWG. 2-D-224
- CATCH BASIN OPENING DETAIL L.A.C.F.C.D. STD. DWG. 2-D-227
- CATCH BASIN REMOVABLE PROTECTION L.A.C.F.C.D. STD. DWG. 2-D-175
- JUNCTION STRUCTURE NO. 2 L.A.C.F.C.D. STD. DWG. 2-D-112
- TRANSITION STRUCTURE NO. 3 L.A.C.F.C.D. STD. DWG. 2-D-188
- PROTECTION BARRIER L.A.C.F.C.D. STD. DWG. 2-D-241-3
- TRANSITION STRUCTURE #1 L.A.C.F.C.D. STD. DWG. 2-D-235
- PIPE BEDDING L.A.C.E. STD. PLAN D-54
- MANHOLE NO. 1 L.A.C.F.C.D. STD. DWG. 2-D-102
- MANHOLE NO. 2 L.A.C.F.C.D. STD. DWG. 2-D-184
- CONCRETE COLLAR L.A.C.F.C.D. STD. DWG. 2-D-399
- TRASH RACK (INCLINED) L.A.C.F.C.D. STD. DWG. 2-D-111-2

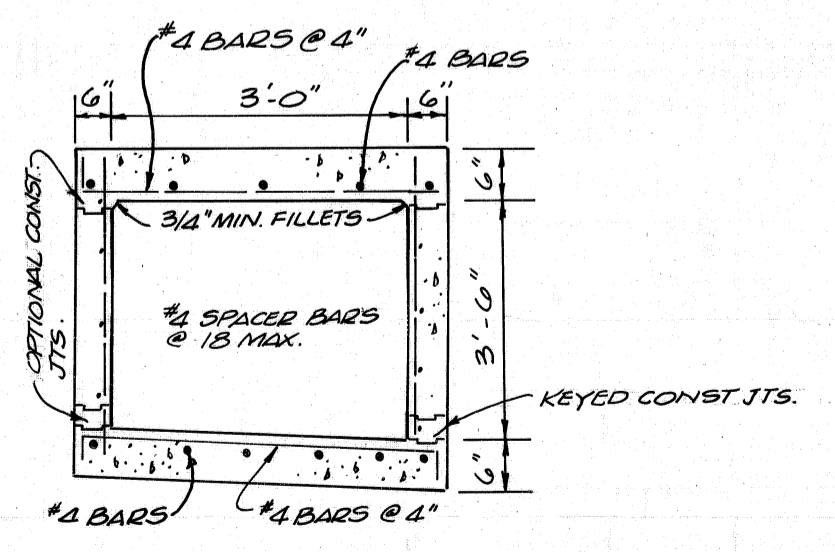
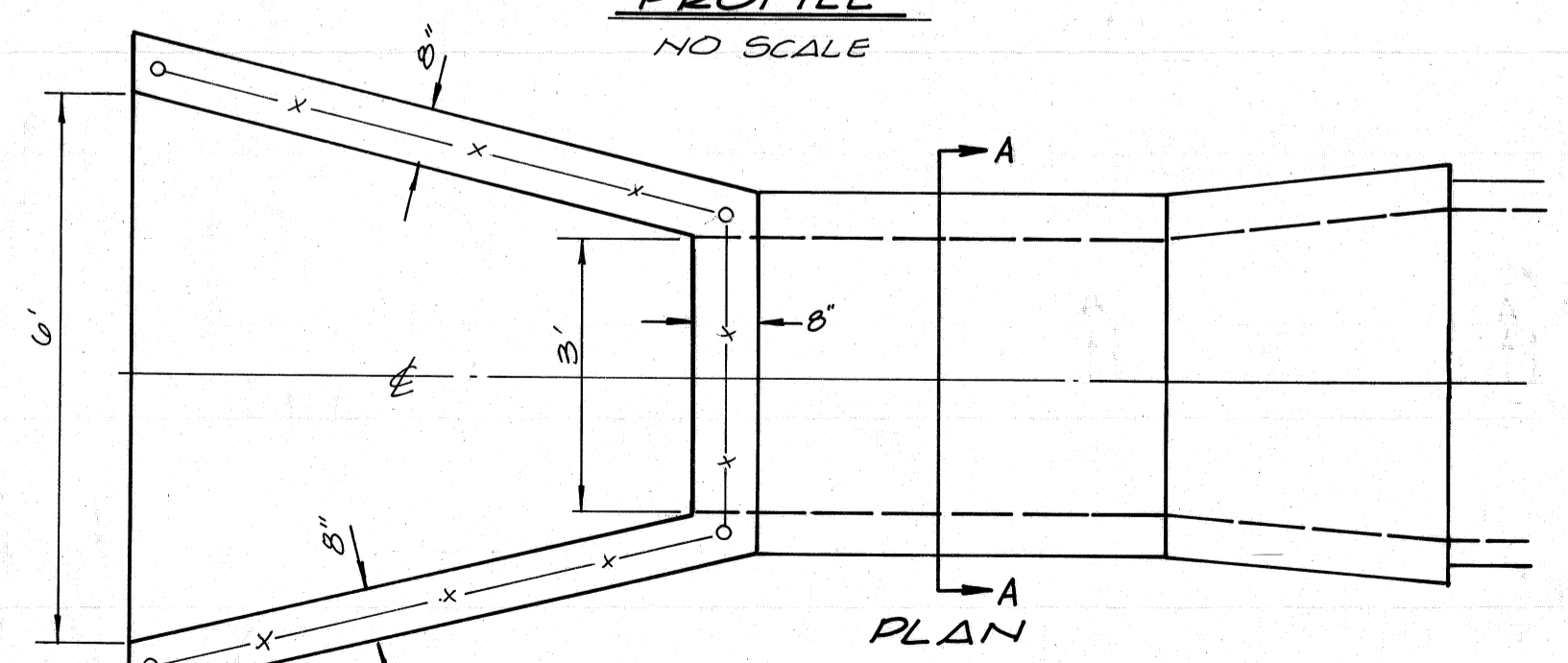
LOCATION MAP
SCALE: 1"=200'



PROFILE
NO SCALE



INLET STRUCTURE
NO SCALE



SECTION A-A
NO SCALE

RIPRAP NOTES

- ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
- THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
- SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

PRIVATE ENGINEERS 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 EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

James Malley # 27217
REGISTERED CIVIL ENGINEER NO. DATE: 8/12/80

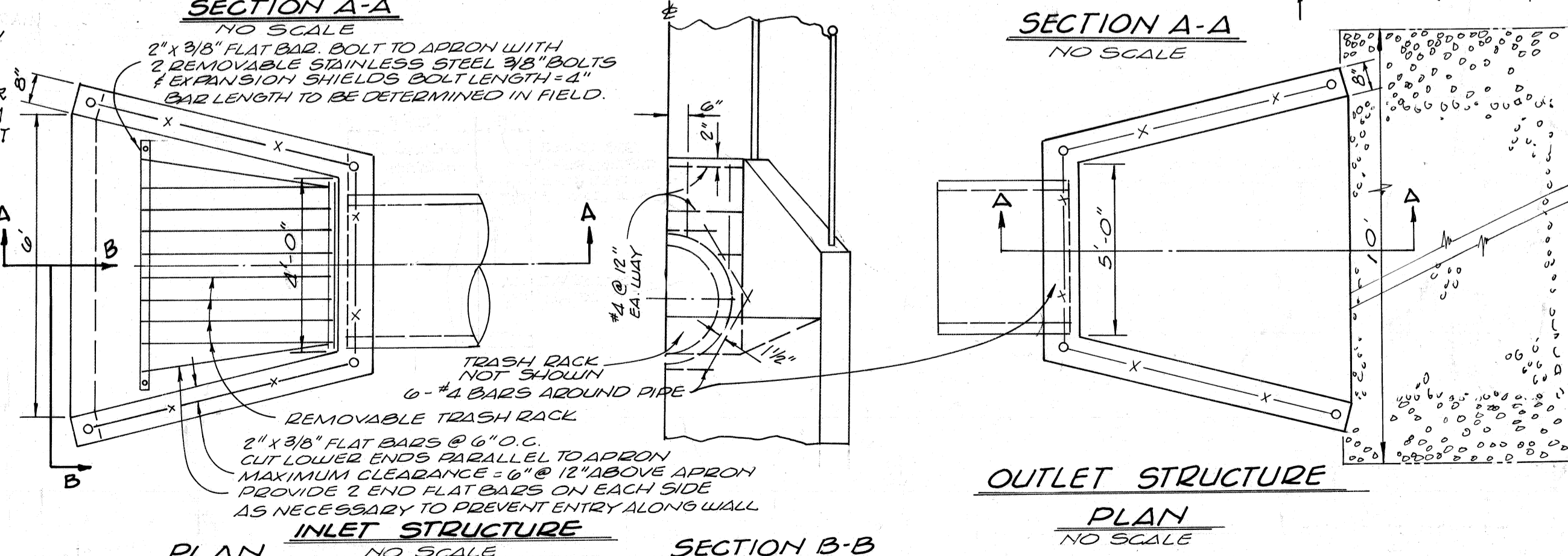
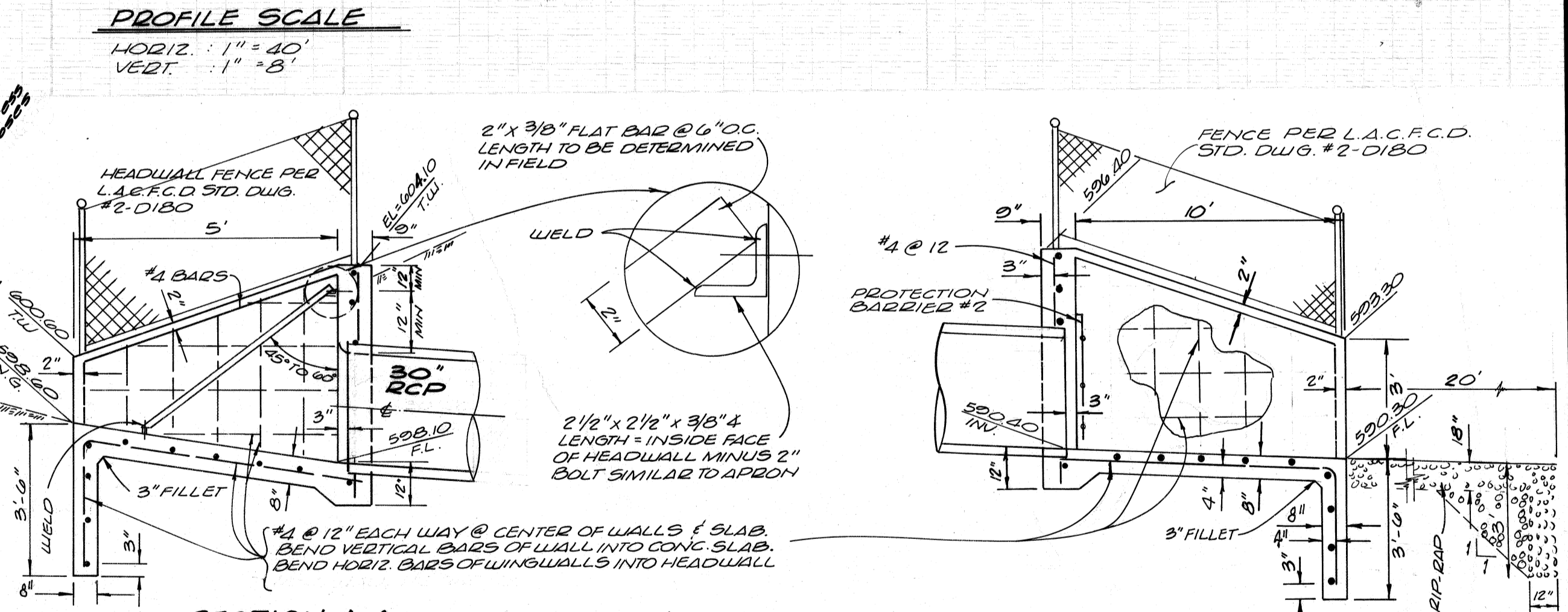
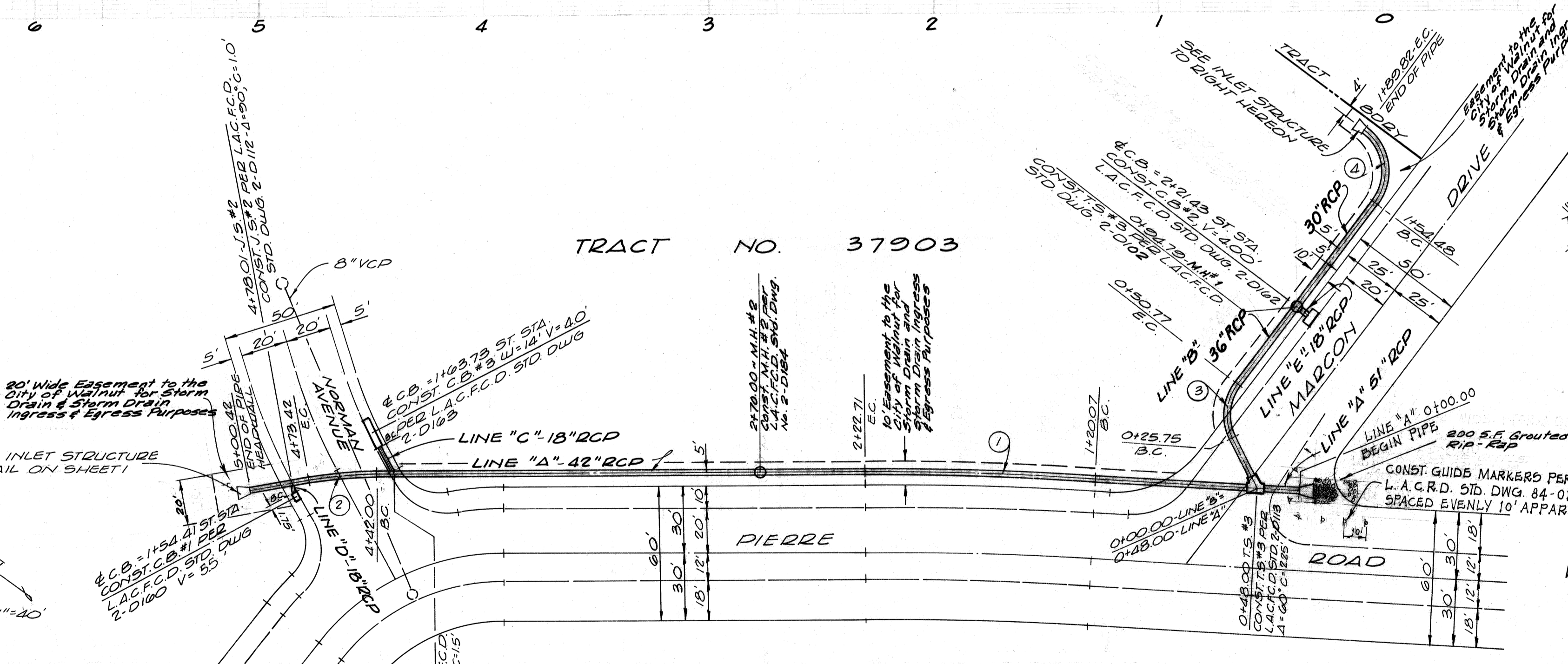
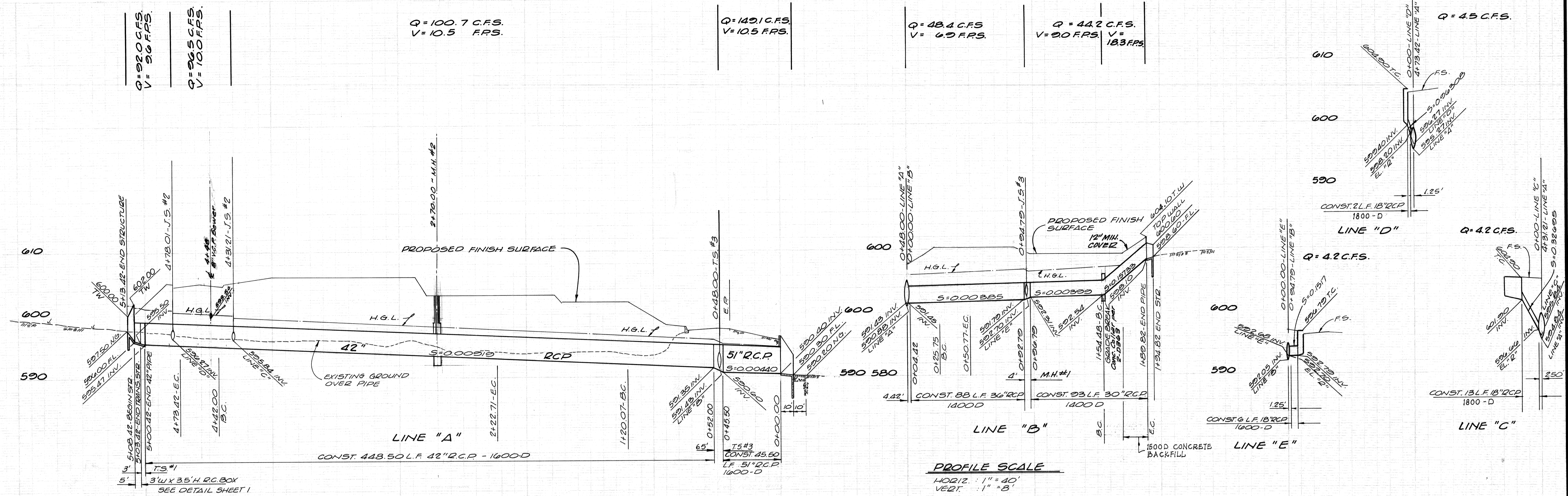
NO.	REVISION	REVISED BY	APPROVED BY	DATE

JAMES O'MALLEY & ASSOC. INC.
 1215 POMONA RD.
 CORONA, CALIF.
 (714) 734-0633
 SIGNATURE: *James Malley* R.C.E. NO. 27217

REVIEWED BY THE LOS ANGELES COUNTY ROAD DEPT.
 BY: _____ DATE: _____

CITY OF WALNUT, CALIFORNIA
M.T.D. NO. 905
 ENVIRONMENTAL DIVISION
 APPROVED BY: *Frank W. ...* DATE: 8/12/80
 CITY ENGINEER
 CHECKED BY: _____ R.C.E. NO. _____ DATE: _____

STORM DRAIN PLANS IN TRACT No. 37903 M.T.D.No. 905



STORM DRAIN CURVE DATA

Station	Length (L)	Radius (R)	Time (T)
1	3'44\"/>		
2	10'00\"/>		
3	63'43\"/>		
4	80'59\"/>		

JAMES O'MALLEY & ASSOC. INC.
 1215 POMONA ROAD,
 POMONA, CALIF.
 (714) 734-0033
 SIGNATURE: *James O'Malley* R.C.E. NO. 27217

COUNTY CITY OF WALNUT CALIFORNIA
Fred W. Sauff 8/12/80
 CITY ENGINEER
 R.C.E. NO. DATE:
 CHECKED BY: OFFICE OF COUNTY ENGINEER