

GENERAL CONSTRUCTION NOTES:

- EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS "UNKNOWN" INDICATES THAT THE COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- CONFLICTING UTILITIES IN THE CONSTRUCTION AREA SHALL BE RELOCATED OR ABANDONED. PIPE ABANDONMENT SHALL CONFORM TO STATE STANDARDS AND SPECIFICATIONS.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1991 EDITION, INCLUDING 1992 SUPPLEMENT. REFERENCE TO STATE STD. REFERS TO STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 1995 METRIC EDITION.
- WHERE SURVEY MONUMENTS EXIST, SUCH MONUMENTS SHALL BE PROTECTED OR SHALL BE REFERENCED AND RESET PURSUANT TO BUSINESS AND PROFESSIONS CODE, SECTIONS 8700 TO 8805 (LAND SURVEYORS ACT).
- ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
- PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A", "C-34", OR "C-42" LICENSE.
- THE CONTRACTOR SHALL ADEQUATELY EXPOSE REINFORCEMENT OF EXISTING STORMDRAINS TO CONNECT PROPOSED IMPROVEMENTS. ALL SPLICING OF REINFORCEMENT SHALL BE IN CONFORMANCE WITH SECTION 52-1.08A OF CALTRANS SPECIFICATIONS DATED JULY 1992.
- ALL SIGNING, STRIPING, AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND THE SPECIAL PROVISIONS. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED ON THE PLANS. CONTRACTOR SHALL COORDINATE ALL LOCAL STREET CONSTRUCTION SIGNING WITH CONSTRUCTION SIGNING REQUIRED FOR RAMP.
- ALL VALUES SHOWN ON THE PLAN ARE FOR APPROPRIATE METRIC UNITS. ENGLISH UNITS ARE SHOWN IN PARENTHESES () FOR CONVENIENCE.
- "D" LOADING LIMIT FOR PIPE SHALL BE 84 (1750) FOR PIPE DIAMETERS GREATER THAN 600 mm (24") AND 96 (2000) FOR PIPE DIAMETERS LESS THAN OR EQUAL TO 600 mm (24").

SPECIFIC CONSTRUCTION NOTES:

NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

MAUDE STREET STORM DRAIN - SHEET 2

- REMOVE EXISTING BULKHEAD. CONNECT PROPOSED 1500 mm RCP STORM DRAIN TO EXISTING 1500 mm RCP STUB.
- CONSTRUCT STD. 424 CONCRETE COLLAR, A=60°, B=600 mm (24"), C=1.70 m, D1=2200 mm (86"), D2=2700 mm (106"), ELEV. S=264.009, L=1.71 m, ELEV. R=260.409, ELEV. S=264.009.
- CONSTRUCT STD. 456 TIMBER BULKHEAD.
- CONSTRUCT STD 424 CONCRETE COLLAR, A=45°, ROTATE 60° IN HORIZONTAL PLANE. SEE DETAIL "A".
- CONSTRUCT STD. 432 JUNCTION STRUCTURE, B=600 mm (24"), C=1.40 m, D1=1050 mm (41"), D2=1200 mm (48"), E=1.00 m, L=1.80 m, ELEV. S=260.803, ELEV. R=260.803.
- REMOVE EXISTING 600 mm (24") STORM DRAIN PIPE TO NORTHERLY SIDE OF MAUDE STREET. CONSTRUCTION TRENCH, REMAINDER TO BE REMOVED AT TIME OF STREET CONSTRUCTION.
- CONSTRUCT STD 430 MANHOLE, L=1.65 m, H=2.3 m, T=254 mm. PRESSURE TYPE MANHOLE FRAME AND COVER.
- REMOVE TREE. REMAINING TREES ALONG CALIFORNIA SCHOOL FOR THE DEAF TO BE REMOVED AT A LATER DATE BY OTHERS. SEE PLAN R-3425.
- FUTURE IMPROVEMENTS. SEE PLANS R-3425 AND D-642.
- CONSTRUCT STD 405 CATCH BASIN, W=3 m. V DEPTH AS SHOWN IN PROFILE.
- CONSTRUCT STD 406 CATCH BASIN, W=3 m. 3 GRATINGS. V DEPTH AS SHOWN IN PROFILE.
- CONSTRUCT STD 432 JUNCTION STRUCTURE, A=64°, B=600 mm (24"), C=1.40 m, D1=1050 mm (41"), D2=1200 mm (48"), E=1.17 m, L=1.47 m, ELEV. R=264.007 m, ELEV. S=264.000 m.
- CONSTRUCT STD 325 SIDEWALK BEHIND CURB, B=900 mm, W=1.83 m.
- CONSTRUCT STD. 432 JUNCTION STRUCTURE, A=70°, B=600 mm (24"), C=1.22 m, D1=900 mm (36"), D2=1050 mm (42"), E=1.04 m, L=1.40 m, ELEV. R=270.522 m, ELEV. S=270.500 m.
- CONSTRUCT STD 404 CATCH BASIN, W=1.9 m. V DEPTH AS SHOWN IN PROFILE.
- RELOCATE FIRE HYDRANT AND LATERAL BY CITY FORCES.
- ADJUST WATER SERVICE LATERAL BY CITY FORCES.
- CONSTRUCT STD 431 MANHOLE, L=1.65 m, H=1.75 m, T=254 mm.
- CONSTRUCT STD 200 CURB AND GUTTER AS PART OF RESTORATION OF EXISTING STREET IMPROVEMENTS. MATCH EXISTING CURB FACE.
- RELOCATE WATER MAIN BY CITY FORCES IF NECESSARY.
- RELOCATE TELEPHONE CONDUIT BY OTHERS.
- PROTECT AND REPLACE BURIED TELEPHONE CABLE.
- ADJUST TO GRADE WATER ELECTROLYSIS TESTING STATION.
- REMOVE EXISTING MOW CURB. GRADE SLOPE AS SHOWN IN TYPICAL SECTION. SLOPE PLANTING TO BE REPLACED BY OTHERS. PROTECT OLEANDER IN PLACE. SEE SPECIAL PROVISIONS.
- EXISTING IRRIGATION VALVES. CLEAR IRRIGATION SYSTEM FROM WORK AREA AS DESCRIBED IN SPECIAL PROVISIONS. IRRIGATION SYSTEM TO BE REPLACED BY OTHERS.

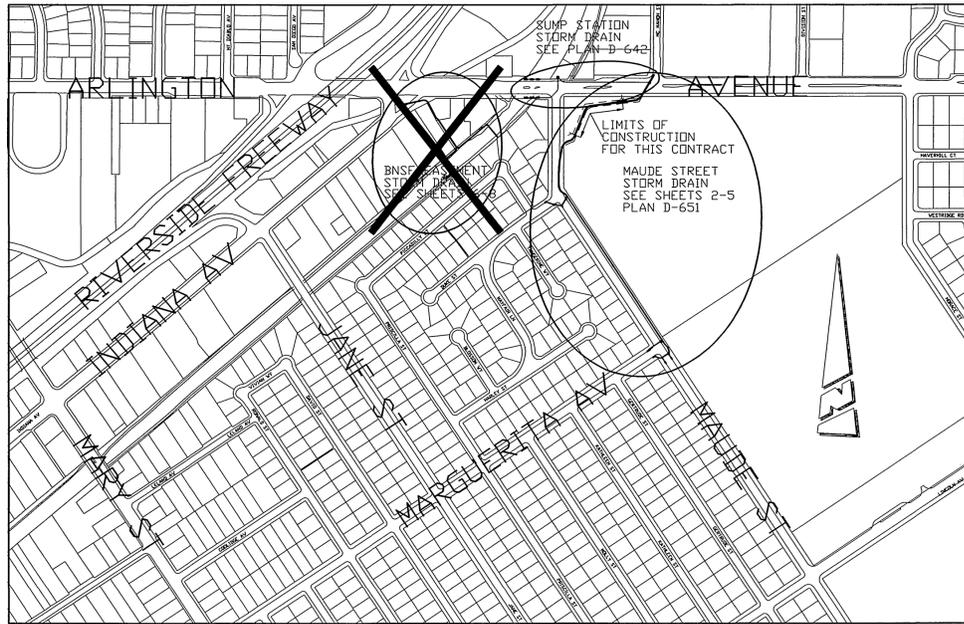
BNSF/EASEMENT STORM DRAIN - SHEETS 6-8

- RECONSTRUCT WATER CANAL AND REPLACE WOOD PLANK COVER. SEE DETAIL, SHEET 8.
- PRECAST 22.5' ELBOW FOR 736.6x1143 mm (29'x45") OPTICAL PIPE. ELBOW LENGTH=2.438 m (8').
- TRANSITION STRUCTURE. SEE DETAIL, SHEET 8.
- RELOCATE LIGHT POLE. SEE DETAIL, SHEET 8.
- RELOCATE PHONE BOOTH BY OTHERS.
- PROTECT PLACE LIGHT POLE AND WIRING.
- CONSTRUCT STD. 432 JUNCTION STRUCTURE WITH TWO (2) MATCHING LATERAL STUB OUTS, B=50", B=D1=D2=900 mm (36"), C=E=1.62 m, L=1.80 m, ELEV. R=261.511, ELEV. S=261.486.
- SEE SHEET 7.
- REMODEL SEWER LATERAL PER S.D. 554, CASE "C", IF REQUIRED.
- WATER SERVICE. ADJUST TO PIPE IF REQUIRED.
- FUTURE IMPROVEMENTS. SEE PLAN R-3425.
- ADJUST STREET LIGHT CONDUIT TO GRADE, IF REQUIRED.
- REGRADE EXISTING DRAINAGE DITCH TO CSP INLET.
- DRAINAGE DITCH TO BE CONSTRUCTED AT TIME OF TRACK RELOCATION. SLOPE = RUN/RISE.
- STATE STD D93C TYPE A PIPE RISER WITH DEBRIS RACK CAGE. INTERFERE EXISTING 375 mm (15") DRAIN FROM PICADILLY STREET. V=1.88 m.
- CSP TO BE INSTALLED BY BNSF FORCES PRIOR TO INSTALLATION OF RCP.
- FIBER OPTIC TELEPHONE LINE TO BE REMOVED BY OTHERS PRIOR TO TRACK CONSTRUCTION AND REPLACED BY OTHERS.
- CONSTRUCT STD 424 CONCRETE COLLAR, A=45°.
- CONSTRUCT STD 424 CONCRETE COLLAR, A=46.5°.
- STATE STD D93C TYPE B RISER WITH DEBRIS RACK CAGE. V=1.265 m.
- STD 432 MANHOLE, A=90°, B=900 mm (36"), C=1.05 m, D1=D2=900 mm (36"), E=1.05 m, L=2.10 m, ELEVATION R AND ELEVATION S AS SHOWN ON PLAN. COVER TO BE BOLTED.

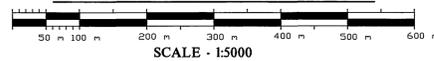
RIVERSIDE CALIFORNIA



PUBLIC WORKS DEPARTMENT ARLINGTON AVENUE UNDERPASS MAUDE STREET STORM DRAIN BNSF/EASEMENT STORM DRAIN

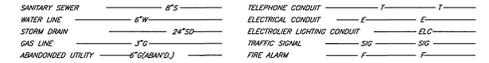


PROJECT LOCATION PLAN

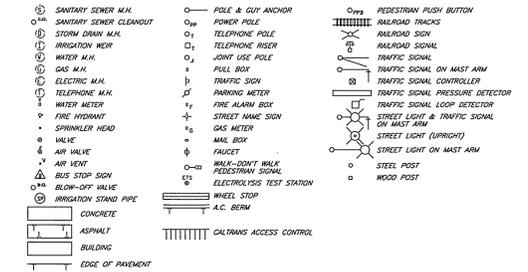


SHEET #	DESCRIPTION
1	COVER SHEET
2	MAUDE STREET STORM DRAIN PLAN AND PROFILE - MCMAHON TO DUKE

EXISTING UNDERGROUND UTILITIES:



EXISTING TOPOGRAPHY:



BENCHMARK
N&T SE CURB RETURN ARLINGTON AVENUE AND MAUDE STREET PER LL 41/92.
ELEVATION: 264.789 m

ENGINEER IN RESPONSIBLE CHARGE
Richard D. McGrath
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12/31/00
DATE 1-7-98



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: *R. Mc Grath*
RICHARD D. McGRATH
PUBLIC WORKS DIRECTOR
DATE 1-7-98

ARLINGTON AVENUE UNDERPASS STORM DRAINS
SCALE - HORIZONTAL ----, VERTICAL ----

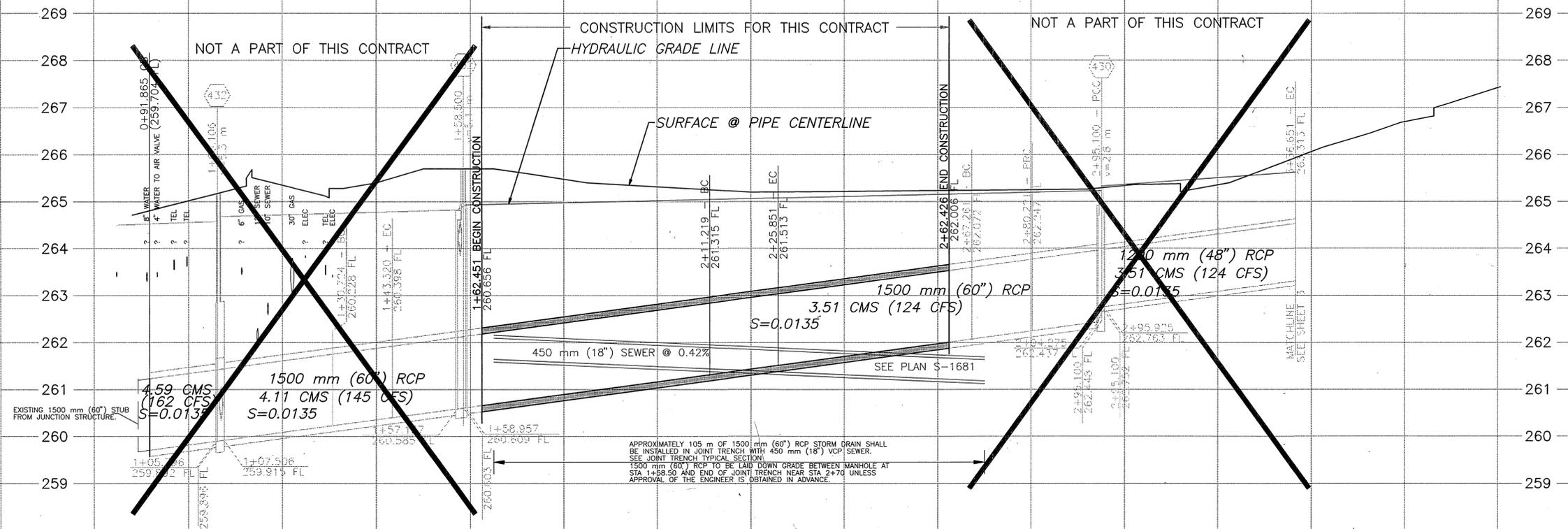
ACCOUNT NUMBER 432-541500-440302-30268
D-651a
SHEET 1 OF 2
FILE NO.:

*AS-BUILT 10-03-03 LHM

INDEXED 5/98

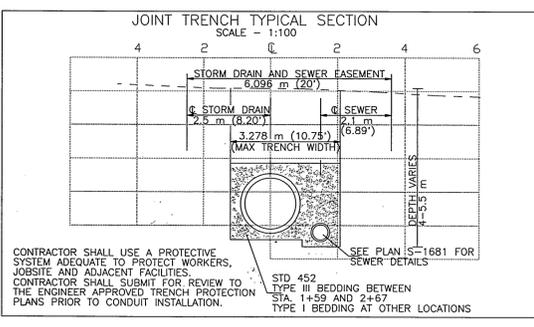
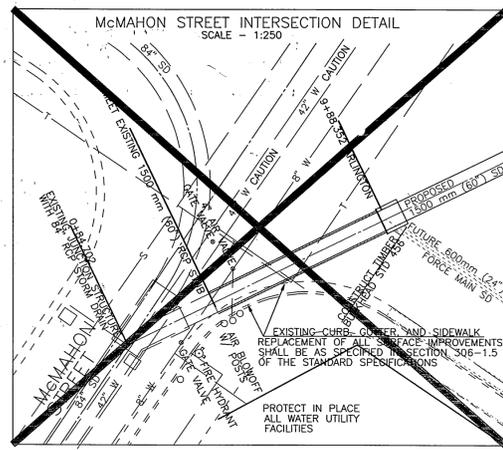


BENCHMARK
 N&T SE CURB RETURN ARLINGTON AVENUE AND MAUDE STREET PER LL 41/92.
 ELEVATION: 264.789 m



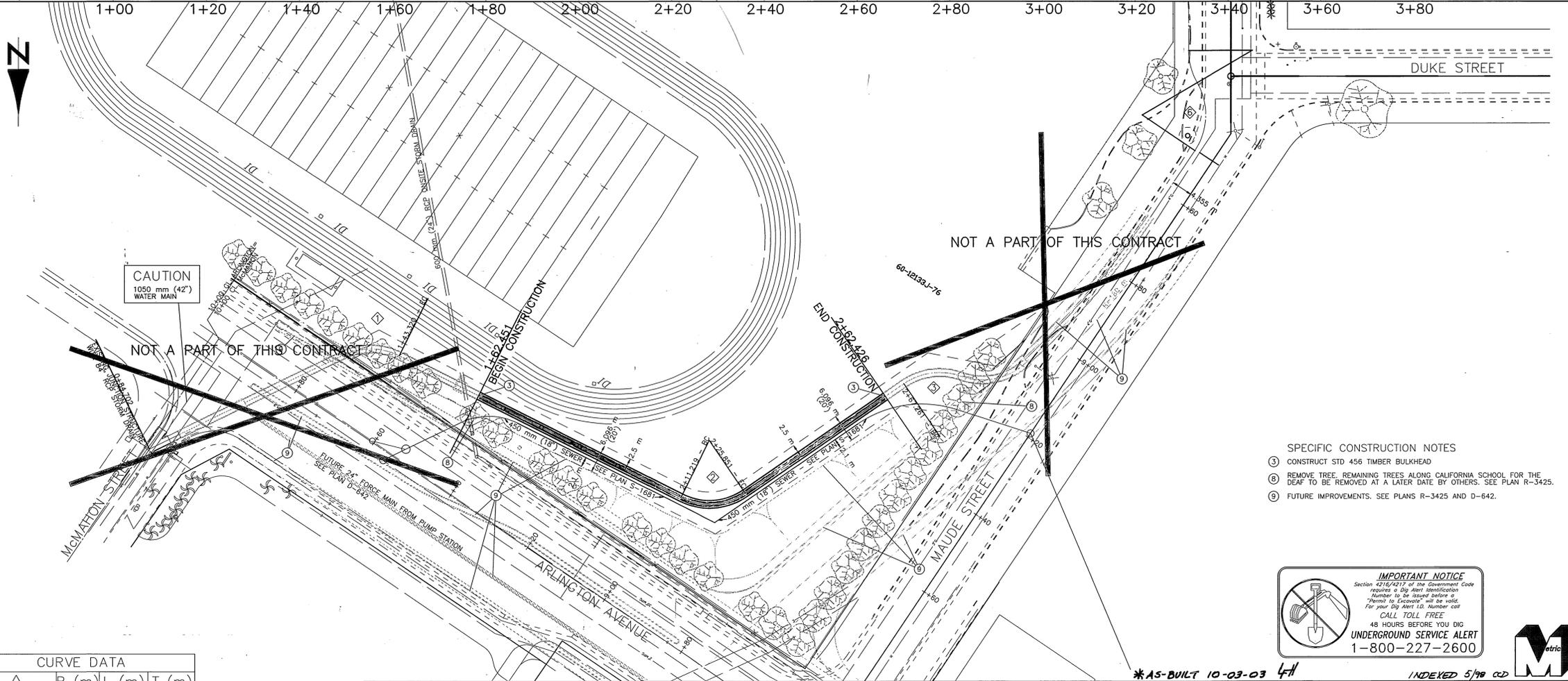
STATION EQUIVALENCY TABLE

STORM DRAIN STATION	STREET AND OFFSET	STREET NAME
1+43.320	9+65.959 18.650 RT	ARLINGTON
1+58.500	9+50.905 20.601 RT	ARLINGTON
1+62.451	9+46.987 21.109 RT	ARLINGTON
2+11.219	8+98.623 27.376 RT	ARLINGTON
2+25.851	8+87.624 35.953 RT	ARLINGTON
2+62.426	9+29.976 30.404 RT	MAUDE
2+67.261	9+25.480 28.627 RT	MAUDE



CURVE DATA

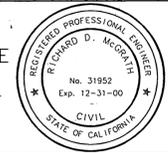
Station	Δ	R (m)	L (m)	T (m)
1	52° 36' 57"	13.716	12.596	6.784
2	61° 07' 21"	13.716	14.632	8.099
3	54° 07' 47"	13.716	12.958	7.008
4	62° 09' 37"	13.716	14.881	8.268
5	13° 33' 15"	175.645	41.551	20.873



- SPECIFIC CONSTRUCTION NOTES**
- ③ CONSTRUCT STD 456 TIMBER BULKHEAD
 - ④ REMOVE TREE. REMAINING TREES ALONG CALIFORNIA SCHOOL FOR THE DEAF TO BE REMOVED AT A LATER DATE BY OTHERS. SEE PLAN R-3425.
 - ⑤ FUTURE IMPROVEMENTS. SEE PLANS R-3425 AND D-642.

IMPORTANT NOTICE
 Section 4216.4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

ENGINEER IN RESPONSIBLE CHARGE
 Richard D. McGrath
 RICHARD D. McGRATH
 R.C.E. No. 31952 expires 12/31/00
 DATE 1-7-98



CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature] DATE: 1-7-98
 DEPUTY P.W. DIRECTOR
 TRAFFIC DIVISION
 SURVEYOR
 STREET DIVISION
 PARKS DEPARTMENT

ARLINGTON AVENUE UNDERPASS STORM DRAINS

ACCOUNT NUMBER: 432-541500-440302-30268
 SHEET 2 OF 2
 FEDERAL AID PROJECT CML-5058(041)