

CITY OF NORTH LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
GENERAL WATER LINE CONSTRUCTION NOTES

- ALL WORK WILL CONFORM TO CITY OF NORTH LAS VEGAS STANDARDS AND THE MOST CURRENT EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), CLARK COUNTY AREA, NEVADA. IN ALL CASES, THE CITY OF NORTH LAS VEGAS STANDARDS WILL SUPERSEDE THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS. WHEN NOT IN CONFLICT WITH THE CITY OF NORTH LAS VEGAS STANDARDS AND NOT SPECIFICALLY COVERED BY THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS, ALL CONSTRUCTION WILL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE THE ABOVE SPECIFICATIONS BOOKS.
- NOTICE WILL BE GIVEN TO THE PUBLIC WORKS DEPARTMENT FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- NO MAIN MAY BE SHUT DOWN TO MAKE CONNECTIONS WITHOUT PRIOR APPROVAL OF THE MANAGER OF MAINTENANCE/OPERATIONS.
- ALL WATER MAINS WILL BE FILLED, PRESSURE TESTED TO 200 PSI, DISINFECTED, FLUSHED, REFILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE CITY OF NORTH LAS VEGAS' DISTRIBUTION SYSTEM.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED WILL BE AS LISTED ON THE CITY OF NORTH LAS VEGAS APPROVED MATERIALS LIST, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- TRENCH BACKFILL MATERIAL WILL BE APPROVED, TESTED AND INSTALLED PER THE CITY OF NORTH LAS VEGAS TRENCH BACKFILL POLICY.
- ALL VALVE BOXES WILL HAVE AN EIGHT (8) INCH THICK CONCRETE COLLAR AS SHOWN ON CLARK COUNTY UNIFORM STANDARD DRAWINGS NO. 517 OR MAY BE RAISED AFTER PAVING WITH A NEAT CUT ON A TWELVE (12) INCH RADIUS FROM THE CENTER OF THE VALVE BOX AND CONCRETE POURED ONE-EIGHTH (1/8) INCH TO ONE-QUARTER (1/4) INCH BELOW THE FINISH PAVING GRADE.
- ALL VALVES WILL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- IN ALL AREAS WHERE EDGE OF WATERMAIN TRENCH IS LESS THEN FIVE (5) FEET FROM THE EXISTING FIBER OPTIC LINE EXCAVATION FOR TRENCH WILL BE HAND DUG.
- INSPECTION WILL BE PROVIDED BY CITY OF NORTH LAS VEGAS MAINTENANCE OPERATIONS DIVISION. CONTACT RICH ARNOLD AT 633-1286.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS OTHERWISE APPROVED ON THESE PLANS:
 - POTABLE WATER SUPPLY QUALITY MATERIAL
 - ENCASEMENT WITH FOUR (4) INCH OF CONCRETE (MINIMUM)
 - SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE
- EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE WATER MAIN, A MINIMUM TEN (10) FEET DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
- WARNING TAPE WILL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS PLATE NO. 27.
- ALL BACKFLOW PREVENTION ASSEMBLIES WILL BE TESTED AND CERTIFIED BY THE CITY OF NORTH LAS VEGAS PRIOR TO FINAL ACCEPTANCE OF THE WATER FACILITIES.
- AS-BUILT DRAWINGS, PER CITY OF NORTH LAS VEGAS STANDARDS, WILL BE SUBMITTED FOR APPROVAL TO THE QUALITY CONTROL DIVISION THEN FORWARDED TO THE MAINTENANCE OPERATIONS DIVISIONS FOR APPROVAL PRIOR TO FINAL ACCEPTANCE OF WATER FACILITIES CONSTRUCTED WITHIN THE CITY OF NORTH LAS VEGAS. FOR FACILITIES CONSTRUCTED OUTSIDE THE CITY LIMITS OF NORTH LAS VEGAS, AS-BUILT DRAWINGS ARE SUBMITTED DIRECTLY TO THE MAINTENANCE OPERATIONS DIVISIONS.

RECONNECT SERVICE LATERALS
2" AND SMALLER

ALL SERVICE LATERALS 2" AND SMALLER THAT ARE CUT OR DAMAGED MAY BE RECONNECTED, PROVIDED THE FOLLOWING CRITERIA IS MET:

- IF THE LATERAL IS COPPER, THE LATERAL MAY BE CUT AND SPLICED NOT MORE THAN ONCE IN A MANNER APPROVED BY THE DISTRICT.
- IF THE LATERAL IS NOT COPPER, THE LATERAL MUST BE ABANDONED FROM THE EXISTING WATER MAIN, AND REPLACED WITH A COPPER SERVICE LATERAL PER UDACS PLATE NO. 1B OR 1D. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE LVVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION.

RELOCATION OF CORROSION
TEST STATION NOTES

- EXPONE THE TEST STATIONS AND LABEL ALL LEADS ACCORDING TO THE ENCLOSED DRAWING.
- THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #6 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
- THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
- CONNECT THE TWO WIRES TO BE SPLICED WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
- MAKE EACH SPLICE USING A SCOTCHCAST RESIN SPLICING KIT, DURCO-CAST UNIVERSAL SPLICE KIT OR A RAYCHEM ANODE SPLICE ENCAPSULATION KIT, SIMILAR TO THE ONES USED BY THE PHONE COMPANY TO SPLICE THEIR CABLES.
- RECONNECT THE TEST BOARD TO PROPER LEADS AND PLACE THE TEST BOX AT THE NEW SITE.

WATER STANDARD NOTES

LVVWD PROJECT #23150

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
A MINIMUM OF EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS OTHERWISE APPROVED ON THESE PLANS:
 - POTABLE WATER SUPPLY QUALITY MATERIAL
 - ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM)
 - SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
- EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
- WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
- CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURES LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

RELOCATION OF FIRE HYDRANTS
(EXTENSION OF EXISTING LATERAL)

THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN, EXTEND THE EXISTING LATERAL AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TREATED AS NEW INSTALLATIONS. FIRE HYDRANTS SHALL BE TESTED PRIOR TO RELOCATION UNDER THE DIRECTION OF LVVWD INSPECTION.

RELOCATION OF FIRE HYDRANTS

THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN, AND REINSTALL SUCH HYDRANTS AT THE NEW LOCATION(S) INDICATED IN ACCORDANCE WITH THE UDAC'S PLATE NO. 7. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION BY REMOVING A MINIMUM OF THE TOP 12 INCHES OF THE VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 psi. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WITHIN 3 FEET OF THE ABANDONED VALVE OR AS SHOWN OF THE DRAWING AND INSTALL A CAP WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH THE DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDAC'S PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS. FIRE HYDRANTS SHALL BE TESTED PRIOR TO RELOCATION UNDER THE DIRECTION OF LVVWD INSPECTION.

APPROVED

LAS VEGAS VALLEY WATER DISTRICT

DATE

WD. NO. 5548

BY DJB,TMM

DATE 10/05/01

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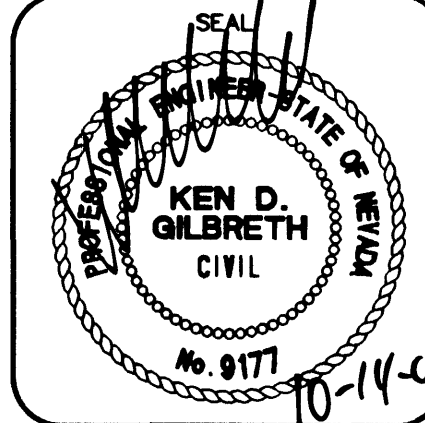
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W1

SHEET 43 OF 163 SHEETS

WATER LINE RELOCATION DETAILS

ANN ROAD IMPROVEMENTS
US 95 TO FERRELL STREET



DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS

CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148 PHONE (702) 873-7550 FAX (702) 362-2597

vtm nevada