Las Vegas Valley Water District
Start of Project Checklist
Rev. January 2005

SCHEDULING:
- ❑ For next business day inspections, appointments must be scheduled **prior to 2PM** by calling 258-7171. **Project Number must be used when scheduling inspections.**
- ❑ Fixed times for Inspections are only available for: field meets, wet taps, pressure tests, valve operations, water sampling, and final walk-through. A Contractor / Developer representative must be present for scheduled Inspections.

SURVEYING:
- ❑ Inspector must see all survey staking, survey elevations must be included.
- ❑ If fire hydrant is adjacent to a curb return, back of curb staking with elevations must be present.
- ❑ When water main is shown on profile, cut sheets must be provided for approval before installation begins, and survey shots will be taken.
- ❑ Survey staking must be placed at 50' intervals with elevations at each stake.
- ❑ All Staking must be protected and maintained during construction.
- ❑ All easements must be staked by a Surveyor.

WET TAPS:
- ❑ In the presence of the inspector, materials used for wet tap, (including outside of pipe being tapped), service connections and all tubing must be disinfected (swabbed with 200 ppm chlorine solution, then rinsed), turbidity tested, and a water sample obtained prior to being placed in service.

GPS:
- ❑ GPS must be done on all piping prior to backfilling; therefore, Centerloading only is allowed, prior to GPS.
- ❑ The District Inspector will schedule GPS for the project in a way to minimize delays to the Contractor/Developer. In most instances, the Inspector will schedule GPS to be done on the day that the Contractor has scheduled inspection for thrust and anchor block placement.
- ❑ **If you need to discuss expediting the GPS, notify the Inspector.**

MARKER BALLS:
- ❑ The Contractor is required to place marker balls over all pipe and fitting per UDACS Plate #27 of the .
- ❑ Contractor's must verify proper marker ball placement and verify marker balls can be located using marker ball locating equipment. All marker balls must be traceable after pavement has been placed.

UNDERGROUND: All pipe must be inspected prior to backfill, and pipe deflection must not exceed LVVWD UDACS 3.11**.** requirements.
- ❑ Like piping material must be used throughout the project unless specified by drawings, i.e., PVC cannot be changed to DIP and DIP cannot be changed to PVC. (Note: Refer to drawings and details.)
- ❑ All thrust block/anchor block sizes MUST be inspected prior to and after placement to verify size. (See UDACS Plates 3 and 5.)
- ❑ Backflow assemblies must be installed so that inlet and outlet piping are at the same elevation. (Refer to UDACS Plate 11 for required assembly.)
- ❑ All ferrous materials are to be coated and wrapped with two layers of 8-mil visquine, and wrappings MUST cover all metal edges to pipe, and concrete shall come in contact with wrapped fittings and valves only, not piping.

DISINFECTION: A chlorine solution must be injected into all new mains and appurtenances, including wet taps.

- ❑ Chlorine solution shall remain in water lines for 24 hours. (See UDACS 3.24.02)
- ❑ Contact time STARTS with Inspector verification of 50 ppm.
- ❑ Contact time ENDS the next workday with Inspector verification of no less than 10 ppm. Any failure will require a restart of Cl_2 contact for another 24 hours.

BACKFILL:

- ❑ **OVER EXCAVATING OF TRENCHES REQUIRE AN ENGINEER APPROVED BACKFILL PLAN.**
- ❑ **ALL SOILS MUST BE ON THE INTER-AGENCY QUALITY ASSURANCE COMMITTEE LIST (IQAC).**
- ❑ **IF NATIVE MATERIAL IS TO BE USED, THE INSPECTOR MUST BE SCHEDULED TO BE PRESENT WHEN REPRESENTATIVE SAMPLES ARE OBTAINED. IF SCREENED, THE SAMPLES MUST BE FROM THE SCREENED PILE.**
- ❑ **NATIVE SOILS THAT MEET THE UDACS REQUIREMENTS OF TABLE G, CAN BE REVIEWED AND ACCEPTED BY THE DISTRICT INSPECTOR. PRESENT THE SOIL REPORT FOR THE MATERIAL TO THE DISTRICT'S INSPECTOR.**
- ❑ Pipe bedding must be inspected and approved.
- ❑ Inspector needs to see bedding below all services prior to sand being placed **over** the services. (See Standard Plate 1.)
- ❑ Compaction/density testing will be done in Pipe Zone and Trench Zone.
- ❑ Two feet of cover must be maintained over water lines during construction (See Standard Plate 6.)

PRESSURE TESTS:

- ❑ The Contractor shall maintain 195 – 205 psi on the piping for the entire pressure test.
- ❑ A pressure gauge reading psi and a meter registering gallons must be used throughout the test.
- ❑ DCDAs need an MVR-30 meter installed prior to any pressure test or chlorine contact, and all backflow assemblies larger than 3-inch are to be tested to 200 psi through the device to the outlet valve.

WATER SAMPLING:

- ❑ All control valves shall remain off during the disinfection period and prior to a passing water sample, and are to be operated ONLY in the presence of the Inspector.
- ❑ Water samples will be obtained after a successful pressure test and chlorination has been completed, then flushed until the chlorine residual is 1.5 ppm or less.
- ❑ All blow-offs and valves must be accessible at all times.
- ❑ The Inspector will choose the sampling points.
- ❑ Results take approximately 48 hours, and will be called to the contractor's office.
- ❑ IF SAMPLES PASS OR FAIL: Contractor may ONLY operate control valves in the presence of an Inspector.
- ❑ Two water sample failures from the same sampling points will require a new 24 hour disinfection start and end, verified by the Inspector.

FINAL WATER PROJECT ACCEPTANCE:

- ❑ Prior to scheduling the final inspection, the Contractor should verify that all deficient items have been corrected and the project is ready for final walkthrough. The Inspector will witness the Contractor operate all valves and leave them in the proper operating position. **A**ll fire hydrants and all blowoffs associated with the project must be flushed and flowed in the presence of the Inspector.————
- ❑ All valve box lids must have 4" skirts.
- ❑ The Developer/Contractor is responsible for the restoration of all existing Water District facilities impacted by the project. These facilities may be valves, blowoff, vault access covers and rings, air vacuum/air release assemblies, anode test stations, or pressure sampling and/or monitoring stations. If outside entities have issues associated with this project concerning water facilities, those issues MUST be resolved prior to final acceptance.

This is to be used only as a minimal Guideline of District required inspections. Actual number/ type of inspections may vary.