

LAS VEGAS VALLEY WATER DISTRICT

ENGINEERING SYSTEMS

TECHNICAL BULLETIN NO. 19

August 2004

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19.1 PLACEMENT OF GROUT IN CASINGS

The 2002 2nd Edition of Uniform Design and Construction Standards (UDACS), Plate No. 16, requires placement of grout in the annular space within the casings. Items that require the Contractor to schedule with the District for inspection services include restraining joints, spacers, end seals, and grout placement.

Sand will not be accepted as a fill material.

If you have any questions regarding this item, please contact Nebraska “Benny” Scott at (702) 258-3225.

19.2 PLACEMENT OF LOCATOR BALLS ON WATER FACILITIES

Locator balls shall be placed as shown on UDACS Plate No. 27. District Inspectors will verify locator balls for their location and ensure their proper operation. In the event the Inspector cannot detect a locator ball, the Contractor will be required to excavate and install or reinstall the locator ball.

Locator balls that are currently on the District’s approved product list include the following:

- 1403-XR by 3M
- Omni Marker Ball by Industrial Technology, Inc.

19.3 VAULT CONSTRUCTION

Standard Drawing C475 for underground vault structures has been modified. Please be aware of latest modifications as identified in UDACS.

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19.4 GPS DATA COLLECTION

The District now uses GPS to obtain precise location data for various components of a pipeline including angle points, appurtenances, outlets, etc. Developers must notify the District Inspector prior to the backfill of such items. This will allow the District to schedule staff to locate the facilities while the facility is exposed. Items that are backfilled prior to field verification will require the Contractor to re-excavate the facility to be inspected.

This data is being collected and utilized by the District in order to ensure that our facilities can be accurately located in the future. This will significantly help Contractors avoid any unnecessary damage to our facilities due to inaccurate locations during the course of their work.

19.5 USE OF NATIVE SOIL MATERIAL FOR PIPE BACKFILL

Contractors requesting to use native soils for backfill must ensure the proposed material meets the requirements of Table G, page 4-10, UDACS. Along with a formal written request, the Contractor must submit a geotechnical investigation report, along with recommendations sealed by a licensed engineer in the state of Nevada. Soil sample locations shall be at the endpoints, and additional sample locations will be required to be evenly spaced with less than 1,000 feet between them.

Please note that "All backfill material shall have a water soluble sulfate content of less than 0.3 percent by dry soil weight" for all types of backfill material.


19.6 VALVE BOX COVER REQUIREMENTS

The District has changed its requirement for valve box covers. Covers must be long-skirted (4-inch minimum), heavy-weight (14-pound minimum), Class 35 iron, and drop-in type. This requirement is for both Developer projects and District major construction contracts. This change is in response to the dislocation of valve box covers due to high-volume, high-speed traffic throughout the District's service area. This change will also be posted on the District's approved products website.

Products that meet these new requirements and currently on the approved products list include:

- Neenah Foundry, Model R-1913
- East Jordan Iron Works, Inc., Model 06800045
- D&L Supply Co., Model M-8045
- Sigma Corporation, Model W/4"SKIRT
- Star Pipe Products, Inc., Model VBLIDLIV

If you have any questions, you may contact the District's Approved Products team leader, Ms. Doa Meade, at (702) 822-8574.



Director of LVVWD Engineering

August 25, 2004
Date