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## Elk Grove Water Service CONSTRUCTION NOTES & WATER SERVICE STANDARDS (May 16, 2005)

### I. CONSTRUCTION NOTES

#### A. General Notes:

1. All materials, construction methods and installation of water systems shall comply with Elk Grove Water Service (EGWS) Standard Construction Specifications. Construction methods and materials not covered by EGWS Standard Construction Specifications shall conform to the City of Elk Grove Standard Construction Specifications and/or Sacramento County Standard Construction Specifications. Construction standards for installation of materials not covered by EGWS, City of Elk Grove or Sacramento County Standard Construction Specifications shall be per the manufacturer's recommendations.
2. All materials shown on plans and/or used in construction shall be from the approved materials list as described in Appendix "A" of EGWS Standard Construction Specifications. Materials deviating from the approved materials list shall be approved in writing by EGWS prior to installation.
3. Contractor will arrange a pre-construction meeting one (1) week prior to construction, and shall be responsible for location of all existing utilities. Meetings will be held at the project site with an EGWS engineering and construction service representative. Inspection schedules require a minimum of one (1) working day (24 hours) notice. The Contractor shall have a copy of the EGWS Construction Specifications and Standard Drawing Details on-site at all times. Pre-construction meetings will not be scheduled until after all EGWS fees have been paid in full, and a complete set of construction documents have been provided to EGWS.
4. EGWS requires three (3) working days (72 hours) advance notice of any shut down or interruptions of normal service for installation and hook-ups. Shut down or interruptions of normal service for installation and hook-ups to EGWS' Tariff Area No. 1 Service Area shall be required to occur on Monday's for residential areas starting no earlier than 9:00 a.m. and shall have service restored by 3:00 p.m. and on Sunday's for commercial areas starting no earlier than 10:00 p.m. and shall have service restored by the following morning (Monday) by 5:00 a.m. EGWS' Tariff Area No. 2 Service Area does not have any time constraints other than accommodating the local residents or businesses during non-peak demand periods.

5. The contractor shall provide signed and dated as-built drawings per EGWS standards. All valves shall be raised to finish grade, accessible and turned on prior to Final Acceptance. All valves located back of walk or in any landscaped areas shall require a “WV” be cut into the concrete curb for locating purposes.

## II. WATER SERVICE STANDARDS

### A. Water System Notes:

6. All water mains shall be laid in separate trenches as far as possible from near-by sewer lines; a minimum horizontal separation of ten (10) feet is required.
7. Water lines shall be placed in public right-of-way and at a minimum of thirty-six (36) inches below finished grade.
8. Water main location shall be 3 feet from lip of gutter on the north or west side of the street when installation is within a 50 foot right-of-way or greater. When installation is within a less than 50 foot right-of-way, water main location shall be four (4) feet behind the back edge of the sidewalk on the north or west side of the street. Locations for detached sidewalks or other than those mentioned above must be approved by EGWS.
9. Water services shall be two and a half (2-1/2) feet from side of the lot line. All water services shall have a seven (7) foot separation from street lights, storm drainage inlets and fire hydrants with dimensioning as such shown on plans.
10. Where dual water services are to be installed, a common trench is acceptable. Services must be at least a minimum of eighteen inches (18”) apart. At no time shall there be a service in the same trench as any water main.
11. Where water services are placed, a meter setter and meter box must be installed. Water meters will be purchased by the developer at time of plan approval and installed by EGWS. Once a construction permit has been released to the developer and/or contractor, notification to EGWS must be made to schedule installation of the water meters.
12. At no time will unauthorized construction water use be permitted. Construction water permits can be obtained at EGWS Monday through Friday from 7:00 a.m. to 4:00 p.m. Unauthorized use of any fire hydrant or service connection will result in a Water Misuse Fine per Ordinance No. 07-18-01-01.
13. All water services shall be polyethylene pipe. The pipe size shall be CTS, not IPS as indicated in the Standard Specifications.

- 14.** All water pipelines shall have a No. 10 gauge insulated copper tracer wire installed per EGWS Standard Detail Drawing W-6. Wire shall be spliced together with brass connectors and wrapped per EGWS Standard Detail Drawing W-6.
- 15.** All water pipelines shall be marked and installed with detectable water tape placed on top of the pipe initial backfill located approximately 6 inches above the top of water pipeline.
- 16.** All water pipelines shall clear underground facilities by one-foot (1') minimum unless specifically called out and approved on the construction plans with specified backfill material.
- 17.** No pipeline/fitting shall be blocked or backfilled without EGWS inspection and approval.
- 18.** Trench shall be backfilled with sand to six (6) inches above the pipe.
- 19.** All non-residential services shall have approved back-flow prevention devices installed and tested prior to service.
- 20.** Permanent blow-off assemblies shall be as shown on EGWS Standard Detail Drawing W-15 and W-16.
- 21.** Temporary blow-offs shall be as shown on EGWS Standard Detail Drawing W-17.
- 22.** Refer to EGWS Standard Construction Specifications for pressure testing, disinfection and flushing requirements. (Note: Prior to pressure testing a Construction Water Permit must be obtained by EGWS.)
- 23.** Under no circumstances shall pressure testing be performed by installing a test plate.
- 24.** Contractor shall maintain access to mainline gate valves at all times. Gate valves shall not be covered by dirt, construction material or debris.
- 25.** Under no circumstances shall anyone other than a representative of EGWS, or authorized agency, open or close any valve in EGWS service area. Contractor shall not operate valves without prior EGWS approval where occupancy of the project has been granted.
- 26.** Connections to the existing water system where the existing pipe material is asbestos cement pipe (ACP or transite), replacement of the existing pipe must extend a minimum of five feet (5') from any valve or fitting on both ends of the connection.

**B. Material List:**

27. All pipe four (4) inches or larger shall be C-900, Blue Brute, or Ductile Iron or prior approved equal.
28. All fittings shall be Tyton System or mechanical joint and wrapped, or prior approved equal.
29. Gate valves shall be resilient wedge type. All water mains twelve (12) inches or larger require butterfly valves.
30. All service valves (corporation or curb) shall be compression type. All curb stops shall be ball valves.
31. Saddles should be McDonald C-900, or prior approved equal. Gate valve boxes shall be Christy G-5, or prior approved equal.
32. Riser material shall be eight (8) inch C900 PVC for all gate valves.
33. Meters shall be SR2 TR/PL (Sensus) reading in 100 cubic feet, or prior approved equal. (Note: All meters shall be provided and installed by EGWS.)

**C. Hydrant Specification/Installation Notes:**

34. All water mains and hydrants required for new buildings shall be fully operational and capable of delivering the required fire flow protection supply prior to issuance of building permit.
35. All double detector check valves will be installed and tested prior to service on all fire sprinkler systems.
36. Hydrants shall be located a minimum of three (3) feet from any building or structure.
37. Hydrants shall be installed (per detail W-2A or W-2B) with the lowest valve stem twenty (20) inches (minimum) and twenty-four (24) inches (maximum) above the finished grade. The 4-½ inch pumper connection shall be a maximum of one (1) foot behind finished walk or planter box, with 4-½ inch discharge facing driveway or street.
38. A two (2) foot square concrete pad is to be set around base of hydrant, the thickness being the same as the sidewalk.
39. Hydrants shall be Clow 960 factory white.
40. Hydrants located in commercial areas shall be protected in accordance with Standard Construction Detail W-22.