Plan Set Notes

- All construction methods and materials shall conform to the latest edition of the Design and Construction Standards and Specifications fo the Western Virginia Water Authority (WVWA).
- The project shall comply with the Franklin County Zoning Chapter 22.
- The project shall comply with the governing standards from other regulatory agency's (e.g. VDOT, DEQ, DCR, VDH, OSHA, etc.) where applicable.
- ALL connections to existing water lines shall be performed by WVWA. The Contractor shall excavate to the existing water line, shore the trench per OSHA requirements, clean the existing line, install the tapping sleeve and valve prior to WVWA performing the tap.
- Prior to construction in the right-of-way (ROW), all applicable permits from the governing jurisdictions, and/or agency's, will be acquired by the Contractor and a copy kept on site.
- Traffic Control requirements will be coordinated through VDOT by the Contractor. Traffic Control shall be in accordance with the most recent MUTCD manual and the VDOT Work Area Protection Manual unless otherwise specified by VDOT.
- The Contractor shall notify the WVWA Engineering Coordinator at least three days prior to construction - Mark Sink (540) 537-3460.
- A pre-construction conference shall be scheduled with WVWA at least one-day prior to any construction.
- The Contractor must have a valid Miss Utility Dig Ticket prior to any excavation.
- 10. All existing utilities may not be shown or may not be shown in the correct location Contractor shall locate all utilities and determine depth all inverts prior to construction to allow for adjustments due to conflicts with existing utilities.
- The Contractor shall comply with the Virginia State Water Works Regulations Section 12VAC5-590-1150, and the Virginia State Sewerage Collection and Treatment Regulations where lines cross.
- 12. An approved set of these Construction Plans must be available at the site at all
- 13. Construction debris shall be containerized in accordance with the Virginia Litter Control Act.
- 14. The Contractors Responsible Land Disturber (RLD) shall be responsible to implement all Erosion & Sediment Controls (E&SC) required. All E&SC measures must be in accordance with the latest edition of the Virginia Erosion and Sediment Control handbook and shall be installed prior to construction.
- 14.1. The Contractor shall provide adequate means of cleaning all vehicles and equipment prior to entering public streets. It is the Contractors responsibility to ensure the streets are kept in a clean, mud- and dust-free condition at all
- 14.2. E&SC field changes must be approved by the Engineer and the Franklin County E&SC Authority BEFORE implementation, unless specifically directed otherwise by the Authority.
- 15. The Contractor shall maintain access to all properties and adjoining hydrants during construction.
- 16. Un-repaired roadways (temporary) opened to traffic shall have, at a minimum, compacted aggregate material VDOT 21A or 21B flush withthe adjacent roadway surface. This shall be inspected and repaired on a daily basis. Some areas may require a temporary patch until the final work can be completed.
- 17. The Contractor shall not excavate more than 200' of trench at any one time (Franklin County requirement). All trenches shall be backfilled or plated at the end of each work day and/or when the Contractor is not on site.
- 18. The Contractor shall supply WVWA with correct as-builts before substantial completion will be granted.
- 19. VDOT will require compaction tests every 500 linear feet where roadway is cut and replaced.

General Notes by Section

Highland Lake Site

- 1.1. WVWA will be completing the construction beyond the shown end of construction. That work is under the control of separate plans by WVWA.
- Power is existing on-site and coordinated under WVWA Plans.
- Communications will be coordinated under WVWA Plans.
- 2. Kennedy Shores Well #1 (West)
- 2.1. Power to be installed on-site as part of these Plans. Post mounted adjoining the well.
- Communications will be coordinated under WVWA Plans. This is planned as wireless and post mounted with the electric.
- 3. Kennedy Shores Well #2 (East)
- 3.1. Power to be installed on-site as part of these Plans. Post mounted adjoining the well.
- Communications will be coordinated under WVWA Plans. This is planned as wireless and post mounted with the electric.
- 3. Lakestone Wells
- Power is existing on-site and coordinated under WVWA Plans.
- Communications will be coordinated under WVWA Plans. This is planned as wireless.

- Work Zone 1.1. Any disturbance to existing ditch lines, signs, mailboxes, landscaping, drives, etc. will be restored to original conditions.
- 1.2. The Contractor is responsible for material storage, management of stockpiles, disposal of excess, import of fill, etc.
- Existing Utilities 2.1. All utility crossings shall be potholed ahead of construction to verify crossing
- elevations, sizes and materials.
- ANY connection or changes to the existing WWWA system REQUIRES the Contractor to coordinate with WVWA before planning the work.

Vertical Depth and Crossings 3.1. Minimum cover on all water lines shall be 3 ft.

3.2. All utility crossings shall have 18" minimum vertical separation between the outside of the utilities, or Contractor shall utilize WVWA Standard Detail G-8

Concrete Pier detail.

- 4. Horizontal Location Water main shall be installed at the designated horizontal location shown on
- the Plan Sheet. Waterlines installed in parallel with be installed at the same bottom of trench
- elevation, see detail on Plan Sheet Pipe deflections of less than 3° are not noted on the Plans. This is assumed ot

be within the pipe deflection joint limits.

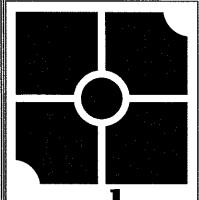
- 5.1. All pipe in trenches to be PVC C900 DR14.
- 6. Bored Connection Piping (See WVWA G-06 & VDOT EP-1)
- 6.1. 8" Water Line Bore
- 6.1.1. Casing Pipe 16" nominal diameter steel (see EP-1)
- Carrier Pipe 8" nominal diameter ductile iron (see G-06)
- 6.2. 4" Water Line Bore
- Casing Pipe 12" nominal diameter steel (see EP-1)
- Carrier Pipe 4" nominal diameter ductile iron (see G-06 Other materials and requirements detailed on WWWA Standard Detail G-06 and
- VDOT Detail EP-1

Water Line Joints 7.1. Restrained joints will be used at all fittings and changes in pipe directions, see WVWA Standard Detail W-19 "Minimum Thrust Restraint of Pipe Joints Design

7.2. Contractor to be aware that all horizontal and/or vertical bend fitting may not be shown on the Plans.

Water Valves

- 8.1. All 4" and smaller valves accessed by screw type boxes (b-box).
- 8.2. All 8" and larger valves accessed by valve vaults.
- 8.3. Valve make and model to be coordinated by Contractor with WVWA. 9. Tracer Wire and Access Boxes
 - Tracer wire and access boxes are required. Location to be coordinated by Contractor with WVWA before burying of any utilities.



parker **DESIGN GROUP**

2122 Carolina Ave, SW Roanoke, VA 24014 Ph: 540-387-1153 Fax: 540-389-5767

1915-B W. Cary Street Richmond, VA 23220 Phone: 804-358-2947 Fax: 804-359-9645

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REVISIONS: 01 - Rev. Scale on Enlargement C05 01 - date Aug 23, 2017

DESIGNED BY: DRAWN BY:

CHECKED BY:

August 10, 2017 SHEET TITLE:

General Notes SCALE:

SHEET NO.