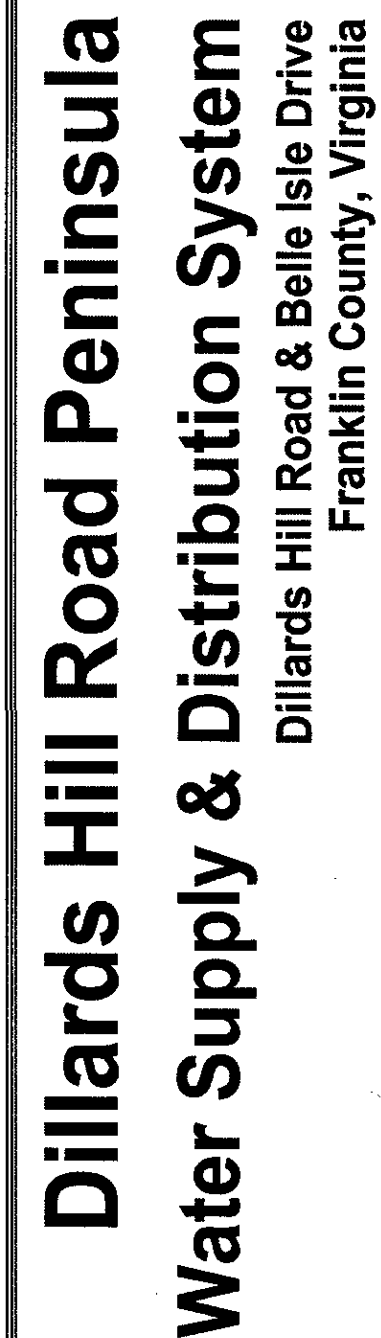
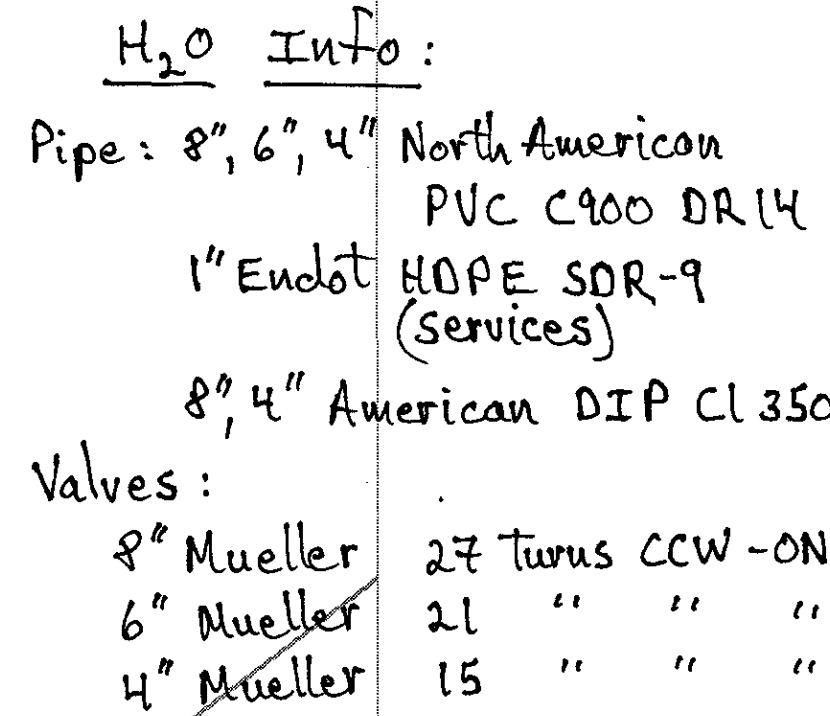
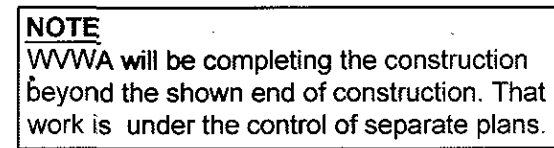


- This exhibit is a composite of WVWA's Site Plan, WVWA GIS, and the water extension plans. This is for coordination purposes.
- Much of the existing waterline does not have tracer wire, is shown approximately, and will require pot-holing to locate.
- All work dimensioned using 8" waterline as baseline.
- Profile shown on Sheet C04
- All sections on detail sheet

- 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.
2. **Existing Utilities**
 - 2.1. All utility crossings shall be potholed ahead of construction to verify crossing elevations, sizes and materials.
 - 2.2. Any connection or changes to the existing WVWA system **REQUIRES** the Contractor to coordinate with WVWA before planning the work.
3. **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 Pipe detail.
4. **Horizontal Location**
 - 4.1. Water main shall be installed at the designated horizontal location shown on the Plan Sheet.
 - 4.2. Waterlines installed in parallel with be installed at the same bottom of trench elevation, see detail on Plan Sheet
 - 4.3. Pipe deflections of less than 3" are not noted on the Plans. This is assumed to be within the pipe deflection joint limits.
5. **Water Lines**
 - 5.1. All pipe in trenches to be PVC C900 DR14.
6. **Bored Connection Piping** (See WVWA G-06 & VDOT EP-1)
 - 6.1. 6" Water Line Bore
 - 6.1.1. Casing Pipe - 16" nominal diameter steel (see EP-1)
 - 6.1.2. Carrier Pipe - 8" nominal diameter ductile iron (see G-06)
 - 6.2. 4" Water Line Bore
 - 6.2.1. Casing Pipe - 12" nominal diameter steel (see EP-1)
 - 6.2.2. Carrier Pipe - 4" nominal diameter ductile iron (see G-06)
- 6.3. Other materials and requirements detailed on WVWA Standard Detail G-06 and VDOT Detail EP-1
7. **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 Lengths"
 - 7.2. Contractor to be aware that all horizontal and/or vertical bend fitting may not be shown on the Plans.
8. **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**
 - 9.1. Tracer wire and access boxes are required. Location to be coordinated by Contractor with WVWA before burying of any utilities.



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

DESIGNED BY:	CD
DRAWN BY:	CD
CHECKED BY:	SR

DATE: August 10, 2017
SHEET TITLE: Highland Lake Tank Site
SCALE:

SHEET NO.
C03