

## Norfolk Wastewater Details

- CS 01 Shallow brick sewer manhole for depths 3 feet and less
- CS 02 Precast sewer manhole for depths 3 feet to 5 feet
- CS 03 Precast sewer manhole
- CS 04 Straddle precast sewer manhole
- CS 05 Precast sewer drop manhole
- CS 06 Drop connection for existing precast sewer manhole
- CS 07 Drop connection for existing brick sewer manhole
- CS 08 Precast concrete grease interceptor tank
- CS 09 Emergency pump connection
- CS 10 Typical wye/lateral layout and property line cleanout
- CS 11 30-inch Norfolk project manhole casting and cover
- CS 12 30-inch Federal project manhole casting and cover
- CS 13 4-inch property line cleanout
- CS 14 6-inch property line cleanout
- CS 15 Minimum allowable angles for precast manholes with PVC and DI pipe

## Norfolk Water Details

- CW 01 Tap installation typical for new construction
- CW 02 Fire hydrant installation
- CW 03 Water main separation
- CW 04 5/8-inch to 1-inch water meter box and cover
- CW 05 1 1/2-inch to 2-inch water meter vault and cover
- CW 06 3-inch to 4-inch water meter vault and cover
- CW 07 6-inch to 12-inch water meter vault
- CW 08 6-inch to 12-inch dual water meter vault
- CW 09 Deduct meter vault SCADA board layout
- CW 10 SCADA board power and communications
- CW 11 SCADA board analog and discrete inputs
- CW 12 Backflow prevention assemblies layout
- CW 13 Detector check valve assembly
- CW 14 Fire protection system reduced pressure zone backflow preventer assembly
- CW 15 Domestic or irrigation reduced pressure zone backflow preventer assembly
- CW 16 Irrigation service line and meter

## Norfolk Water & Sewer Details

- CWS 01 Air vent / blow-off valve and box
- CWS 02 Leak detector
- CWS 03 Small valve box for mains up to 6 inches
- CWS 04 Large valve box for mains 8 inches and larger
- CWS 05 Pipe bedding
- CWS 06 Pipe bedding notes
- CWS 07 Backfill methods
- CWS 08 Required pipe cover
- CWS 09 Temporary pavement patch

## HRPDC Details with Norfolk Utilities Modifications

- SS 08 NM Connection into existing manhole
- SS 17 NM Force main saxophone connection
- SS 19 NM Manhole insert
- WS 02 NM Valve setting
- WS 04 01 NM Steel casing detail
- WS 04 02 NM Steel casing detail (continued)

## HRPDC Details Adopted by Norfolk Utilities

- SS 06 Sanitary sewer manhole adjustment
- SS 07 Sanitary sewer manhole invert shaping
- SS 18 Force main connection to HRSD force main
- WD 09 Temporary manifold for testing & chlorination
- WD 13 Water sampling station

## Norfolk Standard Border and Notes – Drawing Templates

- G 01 Cover sheet
- G 02 Index sheet
- G 03 General notes sheet