### Project Parcel No. 005

**Property of:** City of Norfolk

**Account #:** 79082410

**GPRN:** 1428450047

**TAX PLATE #:** 574

**GIS MAP #:** 631; 661

#### Area Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Parcel</td>
<td>1251.3002</td>
</tr>
<tr>
<td>Variable Width HSRS Permanent Utility Easement</td>
<td>21.968</td>
</tr>
<tr>
<td>To Be Acquired</td>
<td>0.504</td>
</tr>
<tr>
<td>Residual Parcel</td>
<td>1229.3321</td>
</tr>
</tbody>
</table>

#### Notes:
1. THIS PLAT WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT AND THEREFORE MAY NOT SHOW ALL EASEMENTS OR PROPERTY REFERENCES THAT AFFECT THIS PROPERTY.
2. MERIDIAN SOURCE: VIRGINIA COORDINATE SYSTEM OF 1983 (SOUTH ZONE) NAD83
3. THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY AND THEREFORE PARCEL AREAS SHOWN ARE APPROXIMATE AND TAKEN FROM PLATS AND DEEDS OF RECORD.

#### Land Surveyor

**Lic. No.: 0000**

**Commonwealth of Virginia**

**Scale:** 1” = 60’

**Date:** September 23, 2010

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**Plan Showing:**

- Variable Width Permanent Utility Easement
  - To Be Acquired
  - City of Norfolk
  - Hampton Roads Sanitation District
  - For South Trunk Sewer Sections B & C

**Remote Point:**

- 30’ NS Strip & HSRS Easement

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**Legend:**

- Denotes Area of Variable Width HSRS Permanent Utility Easement To Be Acquired

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- Denotes Area of Variable Width HSRS Permanent Utility Easement To Be Acquired

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**Plan:**

- Armistead Bridge Road
- Woodrow Avenue
- Gates Avenue
- Virgie Avenue
- Norfolk Southern Railway Company

**Surveyors:**

- Jacob F. Mayer, Jr.
- Cynthia A. Mayer
- Richard C. Hood
- Sharon S. Smith

**Co-Surveyor:**

- K. D. Veneman

**Drawn:**

- September 23, 2010

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**Additional Information:**

- Scale: 1” = 60’
- Graphic Scale

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**Drawn:**

- September 23, 2010

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**Co-Surveyor:**

- K. D. Veneman

**Drawn:**

- September 23, 2010

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**Co-Surveyor:**

- K. D. Veneman

**Drawn:**

- September 23, 2010
PAINT SAFETY YELLOW TYP. ALL BOLLARDS

6" Ø, SCHEDULE 80 STEEL PIPE FILLED WITH CONCRETE

FINISHED GRADE

POURED CONCRETE (3,500 P.S.I.)

#5 BAR, 12" LONG THROUGH PIPE

1'-6" SQ.

1" ROUNDING OF CONCRETE

3'-6"

4'-0"

6"

SLOPE TO DRAIN

NOT TO SCALE

STANDARD DESIGN DETAIL

EXTERIOR BOLLARD DETAIL
Main Line valve in agricultural area

Air Vent in agricultural area

Branch valve in agricultural area

Cathodic test station in agricultural area

Branch valve or Air vent in agricultural area next to roadside

All measurements from center of casting

DITCH

Street
HINGED HOFFMAN TYPE NEMA 4X
18" TALL X 12" WIDE X 14" DEEP
CONT. HINGE WITH PADLOCK HASP.
STAINLESS STEEL

ENLARGEMENT

STANDARD DESIGN DETAIL
LOAD TEST HINGED BANK BOX

NOTES:
1. TYPICAL DIMENSIONS SHOWN FOR VARIOUS SERVICE SIZES. BOX MUST BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
BOLTED MANHOLE COVER
CONCRETE PAD
MANHOLE SLEEVE
LOCKING WELL CAP
2" SCHEDULE 40 PVC PIPE
BENTONITE GROUT

BENTONITE SEAL
SAND PACK
2" SLOTTED SCHEDULE 40 PVC SCREEN
BOTTOM CAP
BOTTOM OF BORING ANNULUS

*SEE PAGE 2 FOR DETAIL NOTES

NOT TO SCALE

STANDARD DESIGN DETAIL

FLUSH-MOUNT GROUNDWATER MONITORING WELL

1/2020
<table>
<thead>
<tr>
<th>WELL DEPTH (FT)</th>
<th>PVC PIPING DIAMETER</th>
<th>SCREEN LENGTH* (FT)</th>
<th>SLOTTING SIZE</th>
<th>RISER PIPE LENGTH (FT)</th>
<th>FILTER SAND MEDIA</th>
<th>SEALING MEDIA</th>
<th>SURFACE FINISHING</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>0.75 ID</td>
<td>9</td>
<td>0.010</td>
<td>2.5</td>
<td>#2</td>
<td>BENTONITE GROUT/NEAT CEMENT</td>
<td>FLUSH MOUNT CASING</td>
</tr>
<tr>
<td>17</td>
<td>0.75 ID</td>
<td>13</td>
<td>0.010</td>
<td>3.5</td>
<td>#2</td>
<td>BENTONITE GROUT/NEAT CEMENT</td>
<td>FLUSH MOUNT CASING</td>
</tr>
</tbody>
</table>

*SCREENS LENGTHS COME IN 3FT AND 5FT SECTIONS

**NOTES:**

1. **ONCE THE SCREEN INTERVAL IS INSTALLED, A MINIMUM OF 2 FEET OF SAND SHOULD BE PLACED ABOVE THE SCREEN.** **ONCE INSTALLED, A MINIMUM OF ONE FOOT THICK SEAL OF BENTONITE SLURRY OR NEAT CEMENT GROUT SHOULD BE PLACED.**

2. **AT FINAL SURFACE GRADE, THE MONITORING WELL SHALL BE PROTECTED WITH FLUSH MOUNT RISER CASING.**

3. **UPON COMPLETION OF WELL INSTALLATION, THE CONTRACTOR WILL DEVELOP THE WELL TO REMOVE SILT FROM WITHIN THE SCREEN INTERVAL.**