Revised to include sheet 2 and show extended project limits/realignment.

Notes:
1. Sheet 15 is only included in the signage & pavement marking series.
2. Sheets 42, 43, and 16 are only included in the signage series.
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<td>1T(4) ***</td>
<td>Stormwater Management Facility Checklist - PL34-BMP-10 Detail Sheet</td>
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<td>Grading Plan - Balls Ford Road Sta. 179+75 to Sta. 186+25</td>
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<td>254</td>
<td>Profile Sheet - Balls Ford Road Sta. 165+00 to 172+25</td>
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<td>Grading Plan - Balls Ford Road Sta. 150+25 to Sta. 157+50</td>
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<td>274</td>
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<td>Plan Sheet - Wellingford Drive Sta. 407+00 to End</td>
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<td>Profile Sheet - Wellingford Drive Sta. 403+50 to End</td>
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<td>304</td>
<td>Profile Sheet - Balls Ford Road Sta. 136+50 to 143+50</td>
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<td>Plan Sheet - Balls Ford Road Sta. 129+50 to 136+50</td>
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<td>Profile Sheet - Wellington Road Sta. 506+00 to 511+25</td>
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<td>334</td>
<td>Grading Plan - Wellington Road Sta. Begin to 511+25</td>
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<td>Grading Plan - BMP 1-1</td>
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<td>Plan Sheet - Hansen Farm Road Sta. 602+00 to End</td>
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<td>374</td>
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<td>394</td>
<td>Storm Sewer Profiles</td>
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<td>404</td>
<td>Storm Sewer Profiles</td>
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**Note:** The table above is a representation of the Index of Sheets from the document. It lists the sheet numbers and the corresponding descriptions of the sheets included in the project. The document contains detailed technical drawings and descriptions related to the design of a transportation project, including drainage, curb return profiles, typical sections, geotechnical recommendations, and erosion control phases. The images and additional text on the document provide further details on the specifics of each section, such as grading plans, profile sheets, and plan sheets for various road segments.
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<tr>
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<td>PWCSA Utility Relocation Plan</td>
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<tr>
<td>X-88 thru X-99</td>
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<td>X-1 thru X-202</td>
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### LIMITS OF SHEETS

- **NOT USED**: Not applicable.
- **A**: Available.
- **B**: Baseline.
- **C**: Centerline.
- **D**: Design.
- **E**: Existing.
- **F**: Final.
- **G**: Grade.
- **H**: Highway.
- **I**: Intersection.
- **J**: Jennifer.
- **K**: Key.
- **L**: Location.
- **M**: Maintenance.
- **N**: Note.
- **O**: Option.
- **P**: Plan.
- **Q**: Quantity.
- **R**: Right.
- **S**: Survey.
- **T**: Table.
- **U**: Utility.
- **V**: Vertical.
- **W**: Waterway.
- **X**: Xerox.
- **Y**: Year.
- **Z**: Zone.

**LIMITED ACCESS**

- **MAY BE SUBJECT TO CHANGE AS DEEMED**

**STATE**

- **VDOT PROJECT**

- **C-500-08-0**

- **Design Associate P.C.**

- **(703) 368-7373**

- **April 2020**

- **Rinker Design Associates, P.C.**
### Right of Way Data Sheet

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<th>Acres Off</th>
<th>Fee</th>
<th>Remarks</th>
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<tr>
<td>106</td>
<td>Revised Property owner's names on parcels 068 and 069.</td>
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<td>107</td>
<td>Revisions to PARCEL 037 to include additional Right of Way Added Parcels OR and OSB with permanent Right of Way and Temporary Construction Easement. Added Parcel ORB with Temporary Construction Easement.</td>
<td>0.225</td>
<td>0.225</td>
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**Notes:** This sheet is for informational purposes only. It is not to be used for actual Right of Way Acquisition. Please refer to prepared plans separately.

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The table continues with similar entries for other parcels and descriptions, detailing specific property adjustments and revisions.
**Revision Data Sheet**

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<td>Revised to include roundabout drainage descriptions.</td>
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<tr>
<td>Sheet 2A(27):</td>
<td>Added sheet for roundabout typical sections.</td>
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<tr>
<td>Sheet 2A(25):</td>
<td>Added geotechnical recommendations for roundabout.</td>
</tr>
<tr>
<td>Sheet 1T(13):</td>
<td>Revised ditch lining. Added ditch and Culvert 31(3)-16.</td>
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<tr>
<td>Sheet 1S(13):</td>
<td>Revised to add IP.</td>
</tr>
<tr>
<td>Sheet 1R(1):</td>
<td>Revised sheet to update land disturbance area due to roundabout design.</td>
</tr>
<tr>
<td>Sheet 1Q(38):</td>
<td>Revised riser detail to 72&quot; ID.</td>
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<tr>
<td>Sheet 1P:</td>
<td>Revised soil map to include roundabout plan view.</td>
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<tr>
<td>Sheet 1G(23):</td>
<td>Revised sheet to include changes due to crossover.</td>
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<tr>
<td>Sheet 1E(2):</td>
<td>Added demolition number 912 (Per FDC 01). Added demolition number 913.</td>
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<tr>
<td>Sheet 1B(2):</td>
<td>Revised sheet.</td>
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<tr>
<td>Sheet 1B:</td>
<td>Revised sheet.</td>
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<tr>
<td>Sheet 1C(0):</td>
<td>Added parcel 075 with NOVEC easement. Revised property owner's name and GPIN on parcel 068.</td>
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<tr>
<td>Sheet 1C(0):</td>
<td>Added parcel 083 with Aerial Maintenance Easement. Revised Parcel GPIN for parcel 068.</td>
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<tr>
<td>Sheet 1C:</td>
<td>Revised data for extended project limits/realignment.</td>
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<tr>
<td>Sheet 1T(3):</td>
<td>Revised ESC measures.</td>
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<tr>
<td>Sheet 1T(2):</td>
<td>Added sheet for Jennell Drive extension.</td>
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<tr>
<td>Sheet 1T(4(1)):</td>
<td>Revised ESC measures.</td>
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<tr>
<td>Sheet 22(3C):</td>
<td>Added sheet.</td>
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<tr>
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<td>Added sheet.</td>
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<tr>
<td>Sheet 22A:</td>
<td>Revised Ditch 44.</td>
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<tr>
<td>Sheet 2N(5):</td>
<td>Revised 22(1)-1 to 22-3.</td>
</tr>
<tr>
<td>Sheet 2M(4):</td>
<td>Added sheet to include roundabout ditch profiles.</td>
</tr>
<tr>
<td>Sheet 2M:</td>
<td>Revised ditch typicals. Added roundabout ditches.</td>
</tr>
<tr>
<td>Sheet 2N:</td>
<td>Revised storm sewer profiles.</td>
</tr>
<tr>
<td>Sheet 2L(1):</td>
<td>Revised to show extended project limits/realignment.</td>
</tr>
<tr>
<td>Sheet 2B(4):</td>
<td>Revised to show extended project limits/realignment.</td>
</tr>
<tr>
<td>Sheet 2B(5):</td>
<td>Revised Curb Return 4(1)-1 &amp; 4(1)-2) to show extended project limits/realignment.</td>
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<tr>
<td>Sheet 25(13C):</td>
<td>Revised entrance profiles for extended project limits/realignment.</td>
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<td>Sheet 25(13B):</td>
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<tr>
<td>Sheet 5:</td>
<td>Revised for extended project limits/realignment.</td>
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<tr>
<td>Sheet 4(1)G:</td>
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</tr>
<tr>
<td>Sheet 4B:</td>
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<tr>
<td>Sheet 4G:</td>
<td>Revised for extended project limits/realignment.</td>
</tr>
<tr>
<td>Sheet 2N(3):</td>
<td>Reorganized storm sewer profiles.</td>
</tr>
<tr>
<td>Sheet 2N(2):</td>
<td>Reorganized storm sewer profiles.</td>
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<tr>
<td>Sheet 2N(1):</td>
<td>Reorganized storm sewer profiles.</td>
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<td>Sheet 2N:</td>
<td>Revised storm sewer profiles.</td>
</tr>
<tr>
<td>Sheet 2M:</td>
<td>Revised ditch typicals.</td>
</tr>
<tr>
<td>Sheet 2L(1):</td>
<td>Revised design features relating to construction.</td>
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<tr>
<td>Sheet 1G(1D):</td>
<td>Revised data for extended project limits/realignment.</td>
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<td>Sheet 1G(1B):</td>
<td>Revised data for extended project limits/realignment.</td>
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<td>Sheet 1G(4(1)):</td>
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<tr>
<td>Sheet 1Q(9):</td>
<td>Revised notes for BMP-1.</td>
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<tr>
<td>Sheet 1Q(6):</td>
<td>Revised notes and riser details for BMP-1.</td>
</tr>
<tr>
<td>Sheet x178 thru x189:</td>
<td>Revised mill/overlay and full depth pavement.</td>
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<tr>
<td>Sheet x:</td>
<td>Revised sheet.</td>
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<td>Sheets x500, x501, x502, x503, x504, x510, x511, x520, x530, x531, x532:</td>
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<td>Sheets 2A(9), 2A(10), 2A(14), 11, 19, 20, x356, x357, x360, x361, x362:</td>
<td>Revised shoulder section in.</td>
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<td>Sheets 20(3):</td>
<td>Added Right of Way to Parcel 037.</td>
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<tr>
<td>Sheets 22(1):</td>
<td>Revised cut/fill limits and ditch alignment. Added emergency access entrance.</td>
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<tr>
<td>Sheet 22(1)G:</td>
<td>Revised grading and ditch alignment. Added emergency access entrance.</td>
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<td>Sheet 22A:</td>
<td>Revised Ditch 44.</td>
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<td>Sheet 21G:</td>
<td>Added Right of Way to Parcel 037.</td>
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<td>Sheet 21G(5):</td>
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<td>Sheet 21G:</td>
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<td>Sheet 2B(2):</td>
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<tr>
<td>Sheet 2B(5):</td>
<td>Revised Curb Return 4(1)-1 &amp; 4(1)-2) to show extended project limits/realignment.</td>
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<td>Sheet 2N(18):</td>
<td>Revised culvert profiles.</td>
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<td>Sheet 2N(7):</td>
<td>Reorganized storm sewer profiles.</td>
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<tr>
<td>Sheet 2M:</td>
<td>Revised ditch typicals.</td>
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<td>Sheet 2L(1):</td>
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<td>Sheet 1Q(6):</td>
<td>Revised notes and riser details for BMP-1.</td>
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## Demolition Summary

**PROJECT NUMBER 6234-076-256, PE-101**

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<th>SHEET NUMBER</th>
<th>PARCEL NUMBER</th>
<th>DEMOLITION NUMBER</th>
<th>LANDOWNER</th>
<th>WITHIN EXIST. R/W?</th>
<th>STATION RL OR LT</th>
<th>DESCRIPTION</th>
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<th>REMOVAL OF PARCEL</th>
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<th>MISC. ITEMS</th>
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<td>Anthony Linihan &amp; Helen Linihan</td>
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<td>Feldboes, Cortes &amp; Morada Waggoner</td>
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<td>8033 Davis, LLC</td>
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<td>10+90, 13' LT (Jamestown)</td>
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<td>Jarod &amp; Glenn Buchanan</td>
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<td>Jarod &amp; Glenn Buchanan</td>
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<td>Chris &amp; Helen Markovianova</td>
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<td>James E. Queen</td>
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</table>
Horizontal Alignment Data

Process by Resolution of Commonwealth Transportation Board dated 10/06/1915.

Beginning chain DDI_SOUTH description

Balls Ford Road

C.C. N 6,972,217.93 E 11,753,949.29

P.C. Station 172+76.41 N 6,972,911.14 E 11,753,228.56

External = 84.81

Tangent = 420.50

Delta = 45° 36' 46.97" (RT)

Ahead = N 43° 53' 05.77" E

P.T. Station 141+60.45 N 6,970,665.36 E 11,751,068.54

Length = 902.32

Degree = 0° 57' 17.75"

Long Chord = 479.08

Length = 483.79

Curve Data

C.C. N 6,972,217.93 E 11,753,949.29

Radius = 2,516.00

Tangent = 82.76

Chord Bear = N 22° 37' 51.14" E

Ahead = N 43° 53' 05.77" E

Back = N 24° 14' 51.00" E

Mid. Ord. = 2.39

External = 2.39

Length = 338.59

Degree = 0° 57' 17.75"

Long Chord = 479.08

Degree = 0° 57' 17.75"

Mid. Ord. = 2.39

External = 2.39

Tangent = 57.93

Curve C4

C.C. N 6,971,609.28 E 11,753,393.13

Radius = 1,000.00

Delta = 6° 37' 49.90" (RT)

*----------*

Curve Data

Mid. Ord. = 1.67

External = 1.68

Tangent = 57.93

Curve C5

P.C. Station 14+70.88 N 6,971,947.00 E 11,752,334.96

Mid. Ord. = 5.54

Degree = 20° 59' 14.87"

Delta = 23° 07' 49.90" (LT)

Mid. Ord. = 5.54

Long Chord = 109.46

Degree = 20° 59' 14.87"

Ahead = N 37° 15' 15.87" E

Back = N 43° 53' 05.77" E

P.T. Station 11+37.21 N 6,971,748.72 E 11,752,072.11

Radius = 1,000.00

Degree = 5° 43' 46.48"

P.I. Station 10+79.41 N 6,971,673.50 E 11,752,067.31

Beginning chain DDI_NORTH contains:

Chain DDI_NORTH description

Course from PT C1 to PC C2 N 37° 15' 15.87" E Dist 52.28

Chord Bear = N 48° 49' 10.82" E

Radius = 273.00

Length = 110.21

Delta = 23° 07' 49.90" (LT)

Curve Data

Course from PT C13 to PC C14 N 37° 15' 15.87" E Dist 51.55

Mid. Ord. = 1.67

Long Chord = 115.66

Length = 115.72

Degree = 5° 43' 46.48"

P.I. Station 16+90.57 N 6,972,135.44 E 11,752,453.23

Course from PT C15 to PC C16 N 37° 15' 15.87" E Dist 52.28

Chord Bear = N 48° 49' 10.82" E

Radius = 273.00

Length = 110.21

Delta = 23° 07' 49.90" (LT)

Curve Data

Course from PT C23 to PC C24 N 43° 53' 05.77" E Dist 214.40

Ahead = N 43° 53' 05.77" E

P.T. Station 17+48.37 N 6,972,177.19 E 11,752,493.38

P.C. Station 16+32.64 N 6,972,098.61 E 11,752,408.52

Mid. Ord. = 1.67

Length = 110.21

Degree = 5° 43' 46.48"

P.I. Station 16+90.57 N 6,972,135.44 E 11,752,453.23

End of chain DDI_SOUTH description
Horizontal Alignment Data

WELLINGTON ROAD

From STA 050+0000 to STA 050+0000

Point DOANE N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOANE N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA

RAMP: AA

From STA 540+3000 to STA 540+3000

Point DOAN N 6,973,223.89 E 11,754,625.12

Curve Data

Point DOAN N 6,973,223.89 E 11,754,625.12

CURVE DATA
### Horizontal Alignment Data

#### ENTRANCE STATION 350+00 LT (WELLINGTON RD BL)

**From Sta. 350+000 to Sta. 350+020**

Chain ENTR_350+00LT contains:

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<th>E</th>
<th>Dist</th>
<th>Curve</th>
<th>Date</th>
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**Curve Data**

- **Point D093**: N 6,972,755.07  E 11,752,910.72
- **Point D094**: N 6,972,925.03  E 11,752,822.82

- **Length**: 64.08
- **Course from PT C43 to PC C44**: N 4° 32' 03.73" W Dist 25.41
- **Ahead**: N 4° 32' 03.73" W
- **C.C.**: N 6,972,760.23  E 11,752,410.72
- **External**: 0.38
- **Radius**: 500.00
- **Length**: 39.09

#### ENTRANCE STATION 380+00 RT (BALLS FORD RD BL)

**From Sta. 380+000 to Sta. 380+020**

Chain ENTR_380+00RT contains:

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<th>To Sta.</th>
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<th>E</th>
<th>Dist</th>
<th>Curve</th>
<th>Date</th>
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**Curve Data**

- **Point D093**: N 6,972,755.07  E 11,752,910.72
- **Point D094**: N 6,972,925.03  E 11,752,822.82

- **Length**: 64.08
- **Course from PT C43 to PC C44**: N 4° 32' 03.73" W Dist 25.41
- **Ahead**: N 4° 32' 03.73" W
- **C.C.**: N 6,972,760.23  E 11,752,410.72
- **External**: 0.38
- **Radius**: 500.00
- **Length**: 39.09

#### ENTRANCE STATION 500+00 LT (WELLINGTON RD BL)

**From Sta. 500+000 to Sta. 500+020**

Chain ENTR_500+00LT contains:

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**Curve Data**

- **Point D093**: N 6,972,755.07  E 11,752,910.72
- **Point D094**: N 6,972,925.03  E 11,752,822.82

- **Length**: 64.08
- **Course from PT C43 to PC C44**: N 4° 32' 03.73" W Dist 25.41
- **Ahead**: N 4° 32' 03.73" W
- **C.C.**: N 6,972,760.23  E 11,752,410.72
- **External**: 0.38
- **Radius**: 500.00
- **Length**: 39.09

---

**Revised data for extended project limits/realignment.**

**STATE 19067**

**1G(1D)**
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET FOR INFORMATION ONLY

I.  Certify the SWPPP (with date & sig.)

II.  Revised for new pond layout.

III.  Revised land disturbance area.

IV.  Written evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOS right of way or easement in the form of the Combined Construction Plan Set (also VDOS Permit # or letter from VPDSS Administration stating coverage not needed).

V.  List the surface waters that have been identified as impaired in the DEQ 2012 Surface Water Impairment Report. Several pollutants are considered in these studies and are considered to be impacting the quality of the surface water. These pollutants are considered important because they can cause significant harm to aquatic life. The pollutants included are listed below.

VI.  EPA - U.S. Environmental Protection Agency

VII.  VSMP - Virginia Stormwater Management Program

VIII.  VDOT - Virginia Department of Transportation

IX.  SWPPP - Stormwater Pollution Prevention Plan

X.  Performance bond required in accordance with the permits approved standards and specifications required by Part I.B

XI.  Stormwater pollution from construction activities that affect the existing Balls Ford Road / Doane Drive intersection. The Balls Ford Road design corresponds with the VDOT Standards except for Section 107.16(e) - for Regulation and Control of Traffic, which can be reviewed here (Select Schedule 1 or 2, if schedule #2 is used, void note #14) as defined in 2016 R&B Specifications except for Section 107.16(e).

XII.  The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule #2 is used, void note #14) as defined in 2016 R&B Specifications except for Section 107.16(e). If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage shall not be replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

XIII.  The ESL and P2 inspections for this land disturbing (construction) activity shall be observed daily at 10:00 AM to determine the occurrence of a measurable storm event (0.25 inches or more) and shall be noted in the log book and the rain gage shall not be replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

XIV.  The ESL and P2 inspections for this land disturbing (construction) activity shall be observed daily at 10:00 AM to determine the occurrence of a measurable storm event (0.25 inches or more) and shall be noted in the log book and the rain gage shall not be replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

XV.  The ESL and P2 inspections for this land disturbing (construction) activity shall be observed daily at 10:00 AM to determine the occurrence of a measurable storm event (0.25 inches or more) and shall be noted in the log book and the rain gage shall not be replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

XVI.  The ESL and P2 inspections for this land disturbing (construction) activity shall be observed daily at 10:00 AM to determine the occurrence of a measurable storm event (0.25 inches or more) and shall be noted in the log book and the rain gage shall not be replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.
### Section VI - Permanent BMP Information

#### Table A: Permanent BMP Types (1999 Va. SWM Handbook)

<table>
<thead>
<tr>
<th>Type of BMP Installed</th>
<th>Geographic Location</th>
<th>VA 6th Order No. (MVC)</th>
<th>Received Water</th>
<th>Name of Impacted Water</th>
<th>Acres Treated Per BMP</th>
<th>BMP Maintenance E Number</th>
<th>BMP Maintenance E Manual</th>
<th>BMP Inspection</th>
<th>BUS I/M/2021</th>
<th>BUS P/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retention Basin I</td>
<td>Prince William</td>
<td>77.7067 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
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<tr>
<td>Infiltration Basin</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>2.1</td>
<td>2.2</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Constructed Wetlands</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
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</tr>
<tr>
<td>Bioretention</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
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<td>5</td>
<td>2.1</td>
<td>2.2</td>
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<tr>
<td>constructed Stormwater Wetlands</td>
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<td>77.7074 27.5350</td>
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<td>Ground Run</td>
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<td>0.3</td>
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#### Table B: Permanent BMP Types (BMP Clearing House)

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<thead>
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<th>Type of BMP Installed</th>
<th>Geographic Location</th>
<th>VA 6th Order No. (MVC)</th>
<th>Received Water</th>
<th>Name of Impacted Water</th>
<th>Acres Treated Per BMP</th>
<th>BMP Maintenance E Number</th>
<th>BMP Maintenance E Manual</th>
<th>BMP Inspection</th>
<th>BUS I/M/2021</th>
<th>BUS P/2021</th>
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</thead>
<tbody>
<tr>
<td>Manufactured Treatment Device (MTD)</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
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<tr>
<td>Wet Pond (Level 1)</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
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<td>2.1</td>
<td>2.2</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Constructed Wetlands</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
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<tr>
<td>Bioretention</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>2.1</td>
<td>2.2</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Constructed Stormwater Wetlands</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
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</tbody>
</table>

#### Table C: Permanent BMP Types (County or City)

<table>
<thead>
<tr>
<th>Type of BMP Installed</th>
<th>Geographic Location</th>
<th>VA 6th Order No. (MVC)</th>
<th>Received Water</th>
<th>Name of Impacted Water</th>
<th>Acres Treated Per BMP</th>
<th>BMP Maintenance E Number</th>
<th>BMP Maintenance E Manual</th>
<th>BMP Inspection</th>
<th>BUS I/M/2021</th>
<th>BUS P/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured Treatment Device (MTD)</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wet Pond (Level 1)</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>2.1</td>
<td>2.2</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Constructed Wetlands</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Bioretention</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>2.1</td>
<td>2.2</td>
<td>0.3</td>
<td>7</td>
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<tr>
<td>Constructed Stormwater Wetlands</td>
<td>Prince William</td>
<td>77.7074 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

### Notes
- A "d" indicates to the nearest one ten-thousandth of a degree.
- "N" for north or "S" for south.
- "W" for west or "E" for east.
- "o" indicates an installed tributary to downstream name.
- "s" indicates a stream with no names, list "(Unnamed Tributary to downstream name)".

### Table D: Temporary BMP Types

<table>
<thead>
<tr>
<th>Temporary BMP Types</th>
<th>Geographic Location</th>
<th>VA 6th Order No. (MVC)</th>
<th>Received Water</th>
<th>Name of Impacted Water</th>
<th>Acres Treated Per BMP</th>
<th>BMP Maintenance E Number</th>
<th>BMP Maintenance E Manual</th>
<th>BMP Inspection</th>
<th>BUS I/M/2021</th>
<th>BUS P/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioretention</td>
<td>Prince William</td>
<td>77.7017 27.5350</td>
<td>Ground Run</td>
<td>Ground Run</td>
<td>5</td>
<td>2.1</td>
<td>2.2</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Constructed Wetlands</td>
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<td>7</td>
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<td>2.3</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
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<td>Ground Run</td>
<td>5</td>
<td>16.2</td>
<td>2.3</td>
<td>0.3</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>
STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

2016 ROAD & BRIDGE STANDARDS

NOTES:
1. As-built Drawing of Stormwater Management Facilities. The Contractor shall provide an As-built drawing for each Stormwater Management Drainage Structure. The As-built drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor.

2. The Contractor shall ensure that the facility is built per the approved plans and design.

3. The Contractor shall ensure that the facility is built per the approved plans and design.

4. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.

5. The Contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current manufacturer's maintenance guidelines (or relevant industry standards). All costs shall be included under Construction Surveying.

6. The Contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, in accordance with manufacturer's maintenance guidelines (or relevant industry standards). All costs shall be included under Construction Surveying.

7. When installing the steps and trash rack to the control structure, the Contractor shall ensure that the steps and trash rack are to the extent possible, in correct alignment with each other.
STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

**STORMWATER MANAGEMENT (SWM) DETAILS**

- **Front View**
- **Side View**
- **Top View**

**DETAIL FOR DEBRIS RACK HOLDER**

**MATERIALS**

- High Density Polyethylene (HDPE)

**NOTES**

1. As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Licensed Professional Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.

2. The contractor shall maintain the facilities in accordance with applicable industry standards, and the manufacturer’s specifications. All costs shall be included under Construction Surveying.

3. The contractor shall be responsible for maintaining the stormwater management system in accordance with applicable industry standards and manufacturer’s maintenance guidelines (or relevant industry standards) prior to transfer to Virginia Eagle Properties LLC.

4. When installing the steps and trash rack to the control structure, and the trash rack hinged access door are oriented to the embankment side of the control structure, and are to the rear of the control structure.

5. The contractor shall provide certification from an independent testing agency, such as Virginia Professional Testing, for the stormwater management facility.

6. The contractor shall be responsible for maintaining the stormwater management facility in accordance with applicable industry standards and the manufacturer’s specifications. All costs shall be included under Construction Surveying.

7. The contractor shall be responsible for maintaining the stormwater management facility in accordance with applicable industry standards and the manufacturer’s specifications. All costs shall be included under Construction Surveying.

8. The contractor shall be responsible for maintaining the stormwater management facility in accordance with applicable industry standards and the manufacturer’s specifications. All costs shall be included under Construction Surveying.

9. The contractor shall be responsible for maintaining the stormwater management facility in accordance with applicable industry standards and the manufacturer’s specifications. All costs shall be included under Construction Surveying.
STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

NOTES:
1. As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. All costs shall be included under Construction Surveying.
2. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.
3. The contractor shall provide certification from an independent design professional that the facility is constructed in accordance with applicable and current industry standards, and the manufacturer’s specifications. All costs shall be included under Construction Surveying.
4. This facility shall be maintained by Virginia Eagle Properties LLC.
5. The contractor shall be responsible for maintaining the proposed BMP’s once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer’s maintenance guidelines (or relevant industry standards) prior to transfer to Virginia Eagle Properties LLC.
6. When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.

Design and Plan Review Checklist

Page 1 of 7

Applicant: VDOT
Phone: (703) 259-0221

Design: Rinker Design Associates
Phone: (703) 366-7379

Project Name: Prince William County Stormwater Management Facilities
Location: Prince William County

Plan status: Complete

Legend:
T - Approved
N/A - Not Applicable

PART II - DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT...
STORMWATER MANAGEMENT
FACILITY PLAN AND DETAIL

DETENTION, RETENTION, and IMPOUNDMENT BMPs

NOTES:
1. As-built drawings of stormwater management facilities. The contractor shall provide
as-built drawings of all stormwater management facilities. The as-built drawings
shall show the actual finished ground contours, outlet structure dimensions and elevations,
etc. as they exist at the completion of the project. These drawings shall be sealed
by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia.
All costs shall be included under Construction Surveying.
2. Inspections during construction of stormwater management facilities shall be
under direct supervision of a Virginia Professional Engineer.
3. The following actions are necessary by the Department of Transportation:
   a. Providing stormwater management facility inspections.
   b. Ensuring stormwater management facilities meet regulatory requirements.
   c. Ensuring stormwater management facilities are maintained in accordance with
current laws and regulations.
4. Stormwater management facilities shall be constructed in accordance with
applicable and current industry standards, and the manufacturer's specifications.
All costs shall be included under Construction Surveying.
5. The contractor shall be responsible for maintaining the proposed BMP's
once all connections have been completed, and shall certify that the BMP has been
maintained per manufacturer's maintenance guidelines (or relevant industry
standards) prior to transfer to Virginia Eagle Properties LLC.
6. When installing the steps and trash rack to the control structure, the contractor
shall ensure that the steps and trash rack hinge access door are oriented to the
embankment side of the control structure, and are to the extent possible, in direct alignment with each other.

1. As-built drawings of stormwater management facilities. The contractor shall provide
as-built drawings of all stormwater management facilities. The as-built drawings
shall show the actual finished ground contours, outlet structure dimensions and elevations,
etc. as they exist at the completion of the project. These drawings shall be sealed
by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia.
All costs shall be included under Construction Surveying.
2. Inspections during construction of stormwater management facilities shall be
under direct supervision of a Virginia Professional Engineer.
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   a. Providing stormwater management facility inspections.
   b. Ensuring stormwater management facilities meet regulatory requirements.
   c. Ensuring stormwater management facilities are maintained in accordance with
current laws and regulations.
4. Stormwater management facilities shall be constructed in accordance with
applicable and current industry standards, and the manufacturer's specifications.
All costs shall be included under Construction Surveying.
5. The contractor shall be responsible for maintaining the proposed BMP's
once all connections have been completed, and shall certify that the BMP has been
maintained per manufacturer's maintenance guidelines (or relevant industry
standards) prior to transfer to Virginia Eagle Properties LLC.
6. When installing the steps and trash rack to the control structure, the contractor
shall ensure that the steps and trash rack hinge access door are oriented to the
embankment side of the control structure, and are to the extent possible, in direct alignment with each other.
**NOTES:**

1. As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure, and all other items as shown on the plans and specifications. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.

2. Inspections during critical stages of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.

3. This facility shall be maintained by Virginia Eagle Properties LLC.

4. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.

5. The contractor shall provide certification from an independent source that all proposed BMP facilities were designed in accordance with applicable Virginia Professional Engineers, and the manufacturer's specifications. All costs shall be included under Construction Surveying.

6. The contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to Virginia Eagle Properties LLC.

7. When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinge access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.
STORMWATER MANAGEMENT
FACILITY PLAN AND DETAIL

DETENTION, RETENTION, and IMPOUNDMENT BMPs

APPENDIX JB

Design and Run Review Checklist

Page 1 of 1

COMMENTS

BY: Rinker Design Associates

DATE: 6/21/2021

NOTES:

1. As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide as-built drawings of all stormwater management facilities. These as-built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc., as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer and Contractor for Stormwater facilities construction. All costs shall be included under Construction Surveying.

2. Inspections during construction of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.

3. This facility shall be maintained by Virginia Eagle Properties LLC.

4. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.

5. All costs shall be included under Construction Surveying.

6. The contractor shall be responsible for maintaining the BMPs and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to Virginia Eagle Properties LLC.

7. When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack align with the control structure side of the control structure, and are to the extent possible, in direct alignment with each other.

8. Revised notes for BMP-4.
EROSION CONTROL PHASE 1

Added sheet for Jennell Drive extension.
EROSION CONTROL PHASE 1

- Denotes Construction Driveway
- Denotes Soil Stabilization Mat Stry ECW Type UC3 or UC
- Denotes Temporary Stry Fence Type AUC Stry ECW
- Denotes Limits of Cut/Finish
- Denotes Limits of Disturbance
- Denotes Temporary Rock Check Dam LTPA ECW Type UA
- Denotes Temporary Rock Check Dam LTPA ECW Type UA
- Denotes Vital Protection Type AUC Stry ECW
- Denotes Temporary Sediment Basins with Outlet Plan
- Denotes Temporary Diversion Channel Stry ECW
- Denotes Temporary Diversion Channel Stry ECW
- Denotes Temporary Diversion Channel Stry ECW
- Denotes Construction Embankment with Road Base
- Denotes Temporary Widerhead Watercourse Crossing

Revised ESC measures.
### DRAINAGE DESCRIPTIONS

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<thead>
<tr>
<th>Sheet</th>
<th>Drainage Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td><strong>3' to 3' Storm Pipe (15&quot;) Cover</strong></td>
</tr>
<tr>
<td>41</td>
<td>Inv (in) 247.65, Inv (out) 246.85</td>
</tr>
<tr>
<td></td>
<td>L = 8', H = 4.2', Inv = 251.00, Top = 255.10</td>
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<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
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<td><strong>4 to 4' Storm Pipe (15&quot;) Cover</strong></td>
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<td>Inv (in) 248.70, Inv (out) 248.40</td>
</tr>
<tr>
<td></td>
<td>L = 6', H = 4.7', Inv = 254.65, Top = 259.95</td>
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<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
</tr>
<tr>
<td>50</td>
<td><strong>5 to 5' Storm Pipe (15&quot;) Cover</strong></td>
</tr>
<tr>
<td>43</td>
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</tr>
<tr>
<td></td>
<td>L = 6', H = 4.7', Inv = 250.55, Top = 258.82</td>
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<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
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<td><strong>6 to 6' Storm Pipe (15&quot;) Cover</strong></td>
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<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
</tr>
<tr>
<td>50</td>
<td><strong>7 to 7' Storm Pipe (15&quot;) Cover</strong></td>
</tr>
<tr>
<td>45</td>
<td>Inv (in) 250.55, Inv (out) 249.55</td>
</tr>
<tr>
<td></td>
<td>L = 6', H = 4.7', Inv = 253.20, Top = 258.82</td>
</tr>
<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
</tr>
<tr>
<td>50</td>
<td><strong>8 to 8' Storm Pipe (15&quot;) Cover</strong></td>
</tr>
<tr>
<td>46</td>
<td>Inv (in) 252.20, Inv (out) 251.35</td>
</tr>
<tr>
<td></td>
<td>L = 6', H = 4.7', Inv = 254.20, Top = 258.82</td>
</tr>
<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
</tr>
<tr>
<td>50</td>
<td><strong>9 to 9' Storm Pipe (15&quot;) Cover</strong></td>
</tr>
<tr>
<td>47</td>
<td>Inv (in) 253.00, Inv (out) 251.70</td>
</tr>
<tr>
<td></td>
<td>L = 6', H = 4.7', Inv = 254.05, Top = 258.82</td>
</tr>
<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
</tr>
<tr>
<td>50</td>
<td><strong>10 to 10' Storm Pipe (15&quot;) Cover</strong></td>
</tr>
<tr>
<td>48</td>
<td>Inv (in) 254.65, Inv (out) 254.15</td>
</tr>
<tr>
<td></td>
<td>L = 6', H = 4.7', Inv = 255.60, Top = 258.82</td>
</tr>
<tr>
<td></td>
<td>1-St'd DI-3B Req'd.</td>
</tr>
</tbody>
</table>

**Note:** All drainage connections are made using 5' diameter joints with full covers. All type and size requirements are per VDOT specifications.
DRAINAGE DESCRIPTIONS

Sheet 5

Sheet 6

Sheet 7

Sheet 8

Sheet 9

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Sheet 148

Sheet 149

Sheet 150

Sheet 151

Sheet 152

Sheet 153

Sheet 154
STORM SEWER PROFILES

Legend:
- DENOTES EX. STR. OR PIPE
- DENOTES HGL
- DENOTES EXIST. GROUND
- DENOTES PROP. GRADE

By Resolution of Highway Commission dated manassas, Virginia
Lic. No. 044359

By Resolution of Commonwealth's Executive Board dated
Manassas, Virginia

STATE BAR.


By Resolution of Commonwealth's Executive Board dated
Manassas, Virginia

STATE BAR.


By Resolution of Commonwealth's Executive Board dated
Manassas, Virginia

STATE BAR.


By Resolution of Commonwealth's Executive Board dated
Manassas, Virginia

STATE BAR.


By Resolution of Commonwealth's Executive Board dated
Manassas, Virginia

STATE BAR.
STORM SEWER PROFILES

Revised culvert profiles.

Culvert 20(2)-1

Culvert 22-2

Culvert 22-6

Culvert 4(1)-1

Culvert 4(1)-3

Culvert 4(1)-5

Legend

- DENOTES PROP. GRADE
- DENOTES HGL
- DENOTES EX. STR. OR PIPE
- DENOTES PIPE
## Bullet Nose & Radial Offsets Data Summary

### Limited Access Highway

**Location:** 927 Maple Grove Drive, Suite 310, Manassas, VA 20109

**Virginia Beach, VA 23462**

**Transportation Fax:** (757) xxx-xxxx

### ROADWAY ENGINEER

**Welschenbach**

**Lic. No. 044359**

**Welschenbach & Associates, Inc.**

### Limited Access Median

**VA 521**

**Sheet No. 25**

### Bullet Nose & Radial Offsets Data

#### Baseline

<table>
<thead>
<tr>
<th>Location</th>
<th>Baseline</th>
<th>Connection</th>
<th>Reverse Lane</th>
<th>Length</th>
<th>Curve</th>
<th>Reverse Curve</th>
<th>Offset 1</th>
<th>Offset 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Entrance 134+00.00</td>
<td>Exit Line 135+00.00</td>
<td>Balls Ford Rd.</td>
<td>58'</td>
<td>3.65'</td>
<td>3.84'</td>
<td>188+35.73</td>
<td>188+34.05</td>
</tr>
<tr>
<td>2</td>
<td>Exit Line 135+00.00</td>
<td>Entrance 134+00.00</td>
<td>Balls Ford Rd.</td>
<td>58'</td>
<td>3.65'</td>
<td>3.84'</td>
<td>35+96.03</td>
<td>80+96.29</td>
</tr>
<tr>
<td>3</td>
<td>Entrance 134+00.00</td>
<td>Exit Line 135+00.00</td>
<td>Balls Ford Rd.</td>
<td>58'</td>
<td>3.65'</td>
<td>3.84'</td>
<td>190+64.03</td>
<td>168+72.81</td>
</tr>
<tr>
<td>4</td>
<td>Exit Line 135+00.00</td>
<td>Entrance 134+00.00</td>
<td>Balls Ford Rd.</td>
<td>58'</td>
<td>3.65'</td>
<td>3.84'</td>
<td>10+57.31</td>
<td>5.66'</td>
</tr>
</tbody>
</table>
Revised entrance profiles for extended project limits/assignment.

Commercial Entrance, CG-11

BMP-1 Maintenance Access, CG-9D

Commercial Entrance, CG-11

Private Entrance, PE-1

BMP-4 Maintenance Access, CG-9D

Commercial Entrance, CG-11
## PERMANENT SIGNAGE SCHEDULE

### Fabrication Details

<table>
<thead>
<tr>
<th>Sign No.</th>
<th>Sign Type</th>
<th>Panel Size</th>
<th>Panel Color</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>300, 400</td>
<td>Double Post</td>
<td>24 x 30</td>
<td>White</td>
<td>Type A Foundation Plate</td>
</tr>
<tr>
<td>300, 500</td>
<td>Double Post</td>
<td>24 x 30</td>
<td>Black</td>
<td>Type B Foundation Plate</td>
</tr>
</tbody>
</table>

### Signage Fabrication

- **Sign Color Combinations:** In accordance with the MUTCD standard sign color combinations.
- **Sign Surface Type:** Reflective or Non-Reflective, to be determined by the user.
- **Sign Size:** Standard MUTCD sign sizes.
- **Sign Location:** To be determined by the user.

### Remarks

- **Type A Foundation Plate:** Required for signs mounted on posts.
- **Type B Foundation Plate:** Required for signs mounted on beams.
- **Foundation Replacements:** Required for signs mounted on foundations.

---

### Additional Notes

- **Speed Limit:** To be determined by speed study.
- **Sign Placement:** To be determined by the user.
- **Sign Height:** To be determined by the user.
- **Sign Orientation:** To be determined by the user.

---

**Fabrication Notes:**

- **Signs shall be fabricated in accordance with the MUTCD standard sign size and orientation.
- **Signs shall be non-reflective.
- **Signs shall be mounted on double posts or beams.
- **Signs shall be located at the project limits/realignment.
- **Signs shall be fabricated according to MUTCD standards.
- **Signs shall be fabricated with appropriate sign colors.

---

**Project Contact:**

- **Mary Ankers (703)-792-4228
- **Search Global Transportation Systems"
### PERMANENT SIGNAGE SCHEDULE

<table>
<thead>
<tr>
<th>TEXT</th>
<th>SIGN STYLE</th>
<th>SIGN AREA</th>
<th>PANEL SIZE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>1) All signs shall be oriented as shown on the plans.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>41</td>
<td>2) Signs shall be fabricated per the FHWA Standard Highway Signs and Markings Book or the 2011 Virginia Standard Highway Signs Book or as noted in the plans.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>42</td>
<td>3) All positive contrast guide and specific service signs shall utilize fabrication letter Type L3 or L4 unless otherwise noted in the remarks.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>43</td>
<td>4) All black sheeting shall be non-reflective.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>44</td>
<td>5) Sign structures shall be installed per the noted sign St'd.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>45</td>
<td>6) Existing sign sizes approximated; existing sign dimensions shall be field on the plan sheet. Contractor shall submit an RFI for final speed limits once Speed Study is approved.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>46</td>
<td>7) Posted speed limit to be determined by speed study, submit an RFI for final speed limits once Speed Study is approved.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
<tr>
<td>47</td>
<td>8) This sign is intended to be double sided and shall be installed as such with appropriate sign assemblies at no additional cost. Final shop drawings shall be submitted to County for approval prior to ordering of materials.</td>
<td>11.25</td>
<td>24</td>
<td>Type A Foundation Req'd.</td>
</tr>
</tbody>
</table>

### Notes:
1. All signs shall be oriented as shown on the plans.
2. Signs shall be fabricated per the FHWA Standard Highway Signs and Markings Book or the 2011 Virginia Standard Highway Signs Book or as noted in the plans.
3. Positive contrast guide and specific service signs shall utilize fabrication letter Type L3 or L4 unless otherwise noted in the remarks. Other signs shall utilize fabrication letter Type U or L3 unless otherwise noted in the remarks.
4. All shop drawings shall be contract referenced.
5. Sign structures shall be constructed per the noted signs.
6. Existing signs shall be fabricated and assembled with appropriate sign assemblies at no additional cost. Final shop drawings shall be submitted to County for approval prior to ordering of materials.
# PERMANENT SIGNAGE SCHEDULE

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>TEXT</th>
<th>SIGN NO.</th>
<th>SIGN STREET, DISTRICT</th>
<th>PANEL SIZE</th>
<th>MITCO STG.</th>
<th>SIGN AREA</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>26(1F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## NOTES

1. All signs shall be oriented as shown on the plans.
2. Signs shall be constructed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) and the Virginia Standard Highway Signs Book, or as noted in the plans.
3. Signs shall utilize fabrication letter Type A unless otherwise noted in the remarks.
4. All black sheeting shall be non-reflective.
5. Sign structures shall be installed per the noted sign stand details.
6. All positive contrast guide and specific service signs shall utilize fabrication letter Type B unless otherwise noted in the remarks.
7. These revised signage for extended project limit/alignment.
SIGNAGE PLAN

Match Line Sta.500+00 Washington Rd. - See Sheet 264III

Mounted Garden Way

TO WEST

STOP

ONLY

TO SOUTH

621

TO EAST

621

STOP

BY RESOLUTION OF HIGHWAY COMMISSION DATED 12/7/07

NOTES:

1. The following are subject to change as deemed by resolution of Highway Commission and/or District.

2. Sheet 26(4) may be subject to change as deemed by resolution of Commonwealth Transportation Board dated NDC04-076-266.

REFERENCES

PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.

By Resolution of Commonwealth Transportation Board dated NDC04-076-266.

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By Resolution of Highway Commission dated 12/7/07.

REFERENCES

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By Resolution of Highway Commission dated 12/7/07.

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All proposed pavement markings shall be in accordance with the most current edition of each of the following and any revision thereof:

1. **Surveying**
2. **The Virginia Department of Transportation Road and Bridge Standards**
3. **The Virginia Department of Transportation Road and Bridge Specifications**
4. **The Northern Region Operations Traffic Engineering Standard Practice (No. 301)**
5. **The Virginia Department of Transportation Road and Bridge Standards**
6. **The Virginia Department of Transportation Road and Bridge Specifications**
7. **The Northern Region Operations Traffic Engineering Standard Practice (No. 301)**

**Pavement Marking General Notes**

1. Any existing pavement markings which will conflict with the proposed pavement markings as shown shall be completely eradicated, the cost of eradicating existing pavement markings, which conflict with the proposed pavement markings, shall be considered incidental to the project and shall not be paid for as a separate item.

2. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

3. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

4. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

5. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

6. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

7. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

8. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

9. The Contractor shall not be permitted to reduce the pavement marking Class/Type.

10. The Contractor shall not be permitted to reduce the pavement marking Class/Type.