UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 1 -- Catchment Information

Subwatershed:     Unnamed Tributary

Location of Catchment Centroid on ADC Map:            Year: 2000       Page: 17       Grid: J8

State Plane Coordinates of Outfall Location:   X: 1397556       Y: 481684

Closest Road Intersection to Outfall:    Priest Bridge Road and Espey Court

Outfall SDI ID or Outfall Description:     unknown

Objective:  Demonstration / Impairment(s) (Sheet 1)

Drainage Area (ac): 1.93                Impervious Area (ac): 1.92
Percent Impervious: 99%                  Soil Recharge Factor (S): 0.38
WQ<sub>v</sub> (required): 0.15          Re<sub>v</sub> (required): 0.06
Predominant Land Use: commercial
Mean Depth to Ground Water: unknown
Sanitary System:  Municipality Sewer
Water Supply:     Municipal Sewer

Storm Drainage System Within Catchment

Piped: 100%                                            Open Channels: 0%

Area Drained by System: 100%

Location in Catchment:  Headwaters  Middle  Lower  All
Open Channel Lining- Vegetation: 0%  Riprap: 0%  Concrete: 0%  Other: 0%

Existing IMP(s) / BMP(s)

SDI ID:        Type (number from Sheets 4 & 5):          Age:

Closest Road Intersection to IMP / BMP:

Catchment Area Treated (ac):  Percentage Catchment Treated:

WQ<sub>v</sub> Provided:  YES  NO  Re<sub>v</sub> Provided:  YES  NO  C<sub>p</sub> Provided:  YES  NO

SDI ID:        Type (number from Sheets 4 & 5):          Age:

Closest Road Intersection to IMP / BMP:

Catchment Area Treated (ac):  Percentage Catchment Treated:

WQ<sub>v</sub> Provided:  YES  NO  Re<sub>v</sub> Provided:  YES  NO  C<sub>p</sub> Provided:  YES  NO

SDI ID:        Type (number from Sheets 4 & 5):          Age:

Closest Road Intersection to IMP / BMP:

Catchment Area Treated (ac):  Percentage Catchment Treated:

WQ<sub>v</sub> Provided:  YES  NO  Re<sub>v</sub> Provided:  YES  NO  C<sub>p</sub> Provided:  YES  NO
### UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
#### FORM 1 -- Catchment Information (concluded)

<table>
<thead>
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</tr>
<tr>
<td>Area Treated (%):</td>
<td>77%</td>
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**Comments**

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UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 2 -- Site Information

Site Name: ___________________________ Address: 2135 and 2137 Espey Court

Site Owner: ___________________________

State Plane Coordinates of Site Centroid: X: 1397552 Y: 481515 Date: 5/27/03

Personnel: PM Weather: cloudy, rain 65F deg

Area (ac): 2.2 Impervious Area (ac): 2

Percent Impervious: 91% Soil Recharge Factor (S): 0.38

WQ (required): 0.16 Re (required): 0.06

Property Area (ac): 3.9 Property Area Included in Site: 57%

Amount of Catchment Occupied by Site: 100%

Storm Drainage System Within Site

Piped: 100% Open Channels: 0% Area Drained by System: 100%

Open Channel Lining - Vegetation: 0% Riprap: 0% Concrete: 0% Other: 0%

Existing IMP(s) / BMP(s) (Identified on Page 1, FORM 1, Catchment Information)

SDI ID: __________ Condition: □ Excellent □ Good □ Average □ Fair □ Poor

SDI ID: __________ Condition: □ Excellent □ Good □ Average □ Fair □ Poor

SDI ID: __________ Condition: □ Excellent □ Good □ Average □ Fair □ Poor

Site Information

Type of Pavement: □ Bituminous □ Concrete □ Gravel □ Grid Pavers □ Other __________

Pavement Condition: □ Excellent □ Good □ Average □ Fair □ Poor

Underdrains can be easily directed to existing storm drains or daylighted: □ YES □ NO

Gutter/Exterior Downspouts Present: □ YES □ NO

Roof Connected Directly to Storm Drain: □ YES □ NO

Roof Drains onto Impervious Surface: □ YES □ NO

Obvious Existing Drainage Problems: □ Extensive □ Moderate □ Average □ Limited □ None

Steep Slopes Present: □ Extensive □ Moderate □ Average □ Limited □ None

Existing Landscaping: □ Extensive □ Moderate □ Average □ Limited □ None

Mature / Specimen Trees: □ Extensive □ Moderate □ Average □ Limited □ None

Area Available for Aboveground BMPs: □ Extensive □ Moderate □ Average □ Limited □ None

Existing Cover of Potential Aboveground BMP Locations: □ Grass □ Landscaped □ Gravel □ Other Pervious

□ Pavement □ Other Impervious
Islands Present: ☑ YES ☐ NO  Curb Present Around Island: ☑ YES ☐ NO

Ground Level of Island Relative to Pavement: ☑ Above ☐ Equal ☐ Below

Island Landscaping: ☐ Impervious ☐ Bare Earth ☐ Gravel ☐ Grass ☐ Mulch ☐ Herbaceous Plants ☑ Shrubs

Trees have sufficient spacing to allow IMPs: ☐ YES ☑ NO

Parking area that can be directed to potential treatment area with little grading: 90%

**SITE SUMMARY**

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**Photographs**

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<th>No.</th>
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<tr>
<td>96</td>
<td>looking northeast along north side of 2137 Espey Court</td>
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<tr>
<td>97</td>
<td>looking south between 2135 and 2137 Espey Court</td>
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<tr>
<td>98</td>
<td>looking north between 2135 and 2137 Espey Court</td>
</tr>
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<td>99</td>
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<td>101</td>
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<td>102</td>
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<tr>
<td>103</td>
<td>looking south along east side of property</td>
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**Comments**

Parking is needed along east side of 2137 and along west side of 2135. East side of 2135 is more commercial and does not appear that customer parking is needed. Most of the parking is for fleet vehicles and employees. However, there does not appear to be surplus parking.
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 2 -- Site Information
**Upper Patuxent River Watershed Restoration Action Strategy (WRAS)**  
**Form 3 -- Opportunities and Constraints of Potential Management Practice**

New LID IMP: ☑️  SWM BMP Retrofit: ☐️  New SWM BMP: ☐️  Type (Sheets 4 & 5): 7

State Plane Coordinates of IMP / BMP Centroid:  
X: varies  
Y: varies

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map

Identify all Impairments Addressed by Recommendation (Sheet 1):

Treatment Area Ownership:  
- ☐️ Transportation ROW  
- ☐️ Utility ROW  
- ☐️ County  
- ☐️ Other Government  
- ☑️ Private

Infrastructure / Structures / Buildings Impacted:  
- ☑️ YES  
- ☐️ NO

Limited Impact to Adjacent Properties:  
- ☑️ YES  
- ☐️ NO

Area Accessible for Construction:  
- ☑️ YES  
- ☐️ NO

Area Accessible for Maintenance:  
- ☑️ YES  
- ☐️ NO

Limited Permitting Issues:  
- ☑️ YES  
- ☐️ NO

Jurisdictional Wetlands Impacted:  
- ☐️ YES  
- ☐️ NO

Forest Retention Area Impacted:  
- ☐️ YES  
- ☐️ NO

Conservation Easement Impacted:  
- ☐️ YES  
- ☐️ NO

Utilities Present:  
- ☐️ None  
- ☐️ Natural Gas  
- ☐️ Electric  
- ☐️ Telephone  
- ☐️ Cable  
- ☐️ Water  
- ☐️ Sewer  
- ☐️ Other

Utilities Impacted:  
- ☐️ None  
- ☐️ Natural Gas  
- ☐️ Electric  
- ☐️ Telephone  
- ☐️ Cable  
- ☐️ Water  
- ☐️ Sewer  
- ☐️ Other

Impacted Utilities:  
- ☐️ Above Ground  
- ☑️ Underground

Critical Area Impacted:  
- ☐️ YES  
- ☑️ NO

Mature / Specimen Trees Impacted:  
- ☐️ YES  
- ☑️ NO

Existing Landscaping Impacted:  
- ☐️ YES  
- ☑️ NO

Underdrain Needed:  
- ☐️ YES  
- ☑️ NO

Underdrains Can Discharge:  
- ☐️ YES  
- ☑️ NO

Soils are Suitable:  
- ☐️ YES  
- ☑️ NO

Ground Water Table Level Suitable:  
- ☐️ YES  
- ☑️ NO

Estimate IMP / BMP drainage area included on site:  
0.6 ac  
100%

**Retrofit of Existing SWM BMP**

SDI ID:  
Add Forebay:  
- ☐️ YES  
- ☑️ NO

Modify Outlet Structure:  
- ☐️ YES  
- ☑️ NO

Add Aquatic Bench:  
- ☐️ YES  
- ☑️ NO

Grade Bottom of Facility:  
- ☐️ YES  
- ☑️ NO

Plant Native Vegetation:  
- ☐️ YES  
- ☑️ NO

Provide Additional Storage Volume:  
- ☐️ YES  
- ☑️ NO

Excavation / Raise the Embankment:  
- ☐️ YES  
- ☑️ NO
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice (concluded)

IMP / BMP SUMMARY

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<tr>
<td>107</td>
<td>2137 Espey Court (&quot;1b&quot;)</td>
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Comments

IMP/BMP Summary shows combination of green roofs 1a and 1b.

Location of IMPs:

1a: X=1397714, Y=481542
1b: X=1397543, Y=481527

IMP size = 25,877 sq ft
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice

New LID IMP ☑  SWM BMP Retrofit ☐  New SWM BMP ☐  Type (Sheets 4 & 5): 38  

State Plane Coordinates of IMP / BMP Centroid:  
X: 1397693  
Y: 481736  

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map  

Identify all Impairments Addressed by Recommendation (Sheet 1):  

Treatment Area Ownership: ☑  Transportation ROW  ☐  Utility ROW  ☑  County  ☐  Other Government  ☑  Private  

Infrastructure / Structures / Buildings Impacted: ☑  YES  ☐  NO  
Limited Impact to Adjacent Properties: ☑  YES  ☐  NO  
Area Accessible for Construction: ☑  YES  ☐  NO  
Area Accessible for Maintenance: ☑  YES  ☐  NO  
Limited Permitting Issues: ☑  YES  ☐  NO  
Jurisdictional Wetlands Impacted: ☐  YES  ☐  NO  
Forest Retention Area Impacted: ☐  YES  ☐  NO  
Conservation Easement Impacted: ☐  YES  ☐  NO  
Utilities Present: ☐  None  ☑  Natural Gas  ☑  Electric  ☑  Telephone  ☐  Cable  ☑  Water  ☐  Sewer  ☑  Other  
Utilities Impacted: ☐  None  ☑  Natural Gas  ☑  Electric  ☑  Telephone  ☑  Cable  ☑  Water  ☐  Sewer  ☑  Other  
Impacted Utilities: ☐  Above Ground  ☑  Underground  
Critical Area Impacted: ☑  YES  ☐  NO  
Mature / Specimen Trees Impacted: ☑  YES  ☐  NO  
Existing Landscaping Impacted: ☑  YES  ☐  NO  
Underdrain Needed: ☐  YES  ☐  NO  
Underdrains Can Discharge: ☑  YES  ☐  NO  
Soils are Suitable: ☑  YES  ☐  NO  
Ground Water Table Level Suitable: ☑  YES  ☐  NO  
Estimate IMP / BMP drainage area included on site: 0.05 ac 100%  

Retrofit of Existing SWM BMP  

SDI ID:  
Add Forebay: ☐  YES  ☑  NO  
Modify Outlet Structure: ☐  YES  ☐  NO  
Add Aquatic Bench: ☑  YES  ☐  NO  
Grade Bottom of Facility: ☐  YES  ☐  NO  
Plant Native Vegetation: ☑  YES  ☐  NO  
Provide Additional Storage Volume: ☐  YES  ☐  NO  
Excavation / Raise the Embankment: ☐  YES  ☐  NO
## IMP / BMP SUMMARY

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<th>Value</th>
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<td>108</td>
<td>looking east</td>
</tr>
<tr>
<td>109</td>
<td>looking south</td>
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### Comments

Maximum of 2 parking spots can be affected. Must relocate mailbox. Install "speed bump" to direct flow.

IMP size = 366 sq ft
**Upper Patuxent River Watershed Restoration Action Strategy (WRAS)**

**Form 3 -- Opportunities and Constraints of Potential Management Practice**

New LID IMP [ ] SWM BMP Retrofit [ ] New SWM BMP [ ] Type (Sheets 4 & 5): 38

State Plane Coordinates of IMP / BMP Centroid: X: 1397622 Y: 481709

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map

Identify all Impairments Addressed by Recommendation (Sheet 1):

Treatment Area Ownership: [ ] Transportation ROW [ ] Utility ROW [ ] County [ ] Other Government [ ] Private

Infrastructure / Structures / Buildings Impacted: [ ] YES [ ] NO

Limited Impact to Adjacent Properties: [ ] YES [ ] NO

Area Accessible for Construction: [ ] YES [ ] NO

Area Accessible for Maintenance: [ ] YES [ ] NO

Limited Permitting Issues: [ ] YES [ ] NO

Jurisdictional Wetlands Impacted: [ ] YES [ ] NO

Forest Retention Area Impacted: [ ] YES [ ] NO

Conservation Easement Impacted: [ ] YES [ ] NO

Utilities Present: [ ] None [ ] Natural Gas [ ] Electric [ ] Telephone [ ] Cable [ ] Water [ ] Sewer [ ] Other

Utilities Impacted: [ ] None [ ] Natural Gas [ ] Electric [ ] Telephone [ ] Cable [ ] Water [ ] Sewer [ ] Other

Impacted Utilities: [ ] Above Ground [ ] Underground

Critical Area Impacted: [ ] YES [ ] NO

Mature / Specimen Trees Impacted: [ ] YES [ ] NO

Existing Landscaping Impacted: [ ] YES [ ] NO

Underdrain Needed: [ ] YES [ ] NO

Underdrains Can Discharge: [ ] YES [ ] NO

Soils are Suitable: [ ] YES [ ] NO

Ground Water Table Level Suitable: [ ] YES [ ] NO

Estimate IMP / BMP drainage area included on site: 0.09 ac 100%

### Retrofit of Existing SWM BMP

SDI ID: ____________

Modify Outlet Structure: [ ] YES [ ] NO

Grade Bottom of Facility: [ ] YES [ ] NO

Provide Additional Storage Volume: [ ] YES [ ] NO

Excavation / Raise the Embankment: [ ] YES [ ] NO

Add Forebay: [ ] YES [ ] NO

Add Aquatic Bench: [ ] YES [ ] NO

Plant Native Vegetation: [ ] YES [ ] NO
### UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)

**FORM 3 -- Opportunities and Constraints of Potential Management Practice**  
(concluded)

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<td>Impervious Area Treated (ac):</td>
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**Photographs**

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<tbody>
<tr>
<td>110</td>
<td>looking southwest</td>
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**Comments**

Use maximum of 2 parking spots. Construct "speed bump" to direct flow.

IMP size = 645 sq ft
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice

New LID IMP ☑  SWM BMP Retrofit ☐  New SWM BMP ☐  Type (Sheets 4 & 5): 38

State Plane Coordinates of IMP / BMP Centroid:  X: 1397770  Y: 481633

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map

Identify all Impairments Addressed by Recommendation (Sheet 1):

Treatment Area Ownership: ☑ Transportation ROW  ☐ Utility ROW  ☐ County  ☐ Other Government  ☑ Private

Infrastructure / Structures / Buildings Impacted:  ☑ YES  ☐ NO

Limited Impact to Adjacent Properties:  ☑ YES  ☐ NO

Area Accessible for Construction:  ☑ YES  ☐ NO

Area Accessible for Maintenance:  ☑ YES  ☐ NO

Limited Permitting Issues:  ☑ YES  ☐ NO

Jurisdictional Wetlands Impacted:  ☐ YES  ☐ NO

Forest Retention Area Impacted:  ☐ YES  ☐ NO

Conservation Easement Impacted:  ☐ YES  ☐ NO

Utilities Present:  ☑ None  ☐ Natural Gas  ☐ Electric  ☐ Telephone  ☐ Cable  ☐ Water  ☐ Sewer  ☐ Other

Utilities Impacted:  ☑ None  ☐ Natural Gas  ☐ Electric  ☐ Telephone  ☐ Cable  ☐ Water  ☐ Sewer  ☐ Other

Impacted Utilities:  ☑ Above Ground  ☐ Underground

Critical Area Impacted:  ☑ YES  ☐ NO

Mature / Specimen Trees Impacted:  ☑ YES  ☐ NO

Existing Landscaping Impacted:  ☑ YES  ☐ NO

Underdrain Needed:  ☐ YES  ☐ NO  Underdrains Can Discharge:  ☑ YES  ☐ NO

Soils are Suitable:  ☑ YES  ☐ NO  Ground Water Table Level Suitable:  ☑ YES  ☐ NO

Estimate IMP / BMP drainage area included on site:  0.2 ac  100%

Retrofit of Existing SWM BMP

SDI ID:  ________________  Add Forebay:  ☐ YES  ☐ NO

Modify Outlet Structure:  ☐ YES  ☐ NO  Add Aquatic Bench:  ☐ YES  ☐ NO

Grade Bottom of Facility:  ☐ YES  ☐ NO  Plant Native Vegetation:  ☐ YES  ☐ NO

Provide Additional Storage Volume:  ☐ YES  ☐ NO

Excavation / Raise the Embankment:  ☐ YES  ☐ NO
### IMP / BMP SUMMARY

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<tr>
<td>113</td>
<td>looking south</td>
</tr>
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### Comments

Bioretention area provides 65% treatment as sized.

IMP size = 645 sq ft
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice

New LID IMP ☑ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38

State Plane Coordinates of IMP / BMP Centroid: X: 1397815 Y: 481507

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map

Identify all Impairments Addressed by Recommendation (Sheet 1):

Treatment Area Ownership: ☐ Transportation ROW ☑ Utility ROW ☑ County ☐ Other Government ☐ Private

Infrastructure / Structures / Buildings Impacted: ☑ YES ☑ NO

Limited Impact to Adjacent Properties: ☑ YES ☑ NO

Area Accessible for Construction: ☑ YES ☑ NO

Area Accessible for Maintenance: ☑ YES ☑ NO

Limited Permitting Issues: ☑ YES ☑ NO

Jurisdictional Wetlands Impacted: ☑ YES ☑ NO

Forest Retention Area Impacted: ☑ YES ☑ NO

Conservation Easement Impacted: ☑ YES ☑ NO

Utilities Present: ☑ None ☑ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer ☑ Other

Utilities Impacted: ☑ None ☑ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer ☑ Other

Impacted Utilities: ☐ Above Ground ☑ Underground

Critical Area Impacted: ☑ YES ☑ NO

Mature / Specimen Trees Impacted: ☑ YES ☑ NO

Existing Landscaping Impacted: ☑ YES ☑ NO

Underdrain Needed: ☑ YES ☑ NO

Soils are Suitable: ☑ YES ☑ NO

Ground Water Table Level Suitable: ☑ YES ☑ NO

Estimate IMP / BMP drainage area included on site: 0.24 ac 100%

Retrofit of Existing SWM BMP

SDI ID: ________________ Add Forebay: ☑ YES ☑ NO

Modify Outlet Structure: ☑ YES ☑ NO Add Aquatic Bench: ☑ YES ☑ NO

Grade Bottom of Facility: ☑ YES ☑ NO Plant Native Vegetation: ☑ YES ☑ NO

Provide Additional Storage Volume: ☑ YES ☑ NO

Excavation / Raise the Embankment: ☑ YES ☑ NO
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice (concluded)

### IMP / BMP SUMMARY

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### Comments

Bioretention provides 52% treatment of drainage area as sized.
IMP size = 6542 sq ft
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice

New LID IMP ☑  SWM BMP Retrofit ☐  New SWM BMP ☐  Type (Sheets 4 & 5): 38

State Plane Coordinates of IMP / BMP Centroid:
X: 1397579  Y: 481608

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map

Identify all Impairments Addressed by Recommendation (Sheet 1):

Treatment Area Ownership: ☑ Transportation ROW  ☐ Utility ROW  ☐ County  ☐ Other Government  ☑ Private

Infrastructure / Structures / Buildings Impacted: ☑ YES  ☐ NO

Limited Impact to Adjacent Properties: ☑ YES  ☐ NO

Area Accessible for Construction: ☑ YES  ☐ NO

Area Accessible for Maintenance: ☑ YES  ☐ NO

Limited Permitting Issues: ☑ YES  ☐ NO

Jurisdictional Wetlands Impacted: ☑ YES  ☐ NO

Forest Retention Area Impacted: ☑ YES  ☐ NO

Conservation Easement Impacted: ☑ YES  ☐ NO

Utilities Present: ☑ None  ☐ Natural Gas  ☐ Electric  ☐ Telephone  ☐ Cable  ☐ Water  ☐ Sewer  ☐ Other

Utilities Impacted: ☑ None  ☐ Natural Gas  ☐ Electric  ☐ Telephone  ☐ Cable  ☐ Water  ☐ Sewer  ☐ Other

Impacted Utilities: ☑ Above Ground  ☐ Underground

Critical Area Impacted: ☑ YES  ☐ NO

Mature / Specimen Trees Impacted: ☑ YES  ☐ NO

Existing Landscaping Impacted: ☑ YES  ☐ NO

Underdrain Needed: ☑ YES  ☐ NO  Underdrains Can Discharge: ☑ YES  ☐ NO

Soils are Suitable: ☑ YES  ☐ NO  Ground Water Table Level Suitable: ☑ YES  ☐ NO

Estimate IMP / BMP drainage area included on site: 0.36 ac 100%

Retrofit of Existing SWM BMP

SDI ID:  ________________  Add Forebay: ☑ YES  ☐ NO

Modify Outlet Structure: ☑ YES  ☐ NO  Add Aquatic Bench: ☑ YES  ☐ NO

Grade Bottom of Facility: ☑ YES  ☐ NO  Plant Native Vegetation: ☑ YES  ☐ NO

Provide Additional Storage Volume: ☑ YES  ☐ NO

Excavation / Raise the Embankment: ☑ YES  ☐ NO
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice (concluded)

IMP / BMP SUMMARY

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<th>Re_v (provided):</th>
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Photographs

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Comments

Bioretention provides 39% treatment of drainage area as sized.

IMP size = 507 sq ft
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice

New LID IMP □ SWM BMP Retrofit □ New SWM BMP □ Type (Sheets 4 & 5): 60

State Plane Coordinates of IMP / BMP Centroid: X: varies Y: varies

Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map

Identify all Impairments Addressed by Recommendation (Sheet 1):

Treatment Area Ownership: □ Transportation ROW □ Utility ROW □ County □ Other Government □ Private

Infrastructure / Structures / Buildings Impacted: □ YES □ NO

Limited Impact to Adjacent Properties: □ YES □ NO

Area Accessible for Construction: □ YES □ NO

Area Accessible for Maintenance: □ YES □ NO

Limited Permitting Issues: □ YES □ NO

Jurisdictional Wetlands Impacted: □ YES □ NO

Forest Retention Area Impacted: □ YES □ NO

Conservation Easement Impacted: □ YES □ NO

Utilities Present: □ None □ Natural Gas □ Electric □ Telephone □ Cable □ Water □ Sewer □ Other

Utilities Impacted: □ None □ Natural Gas □ Electric □ Telephone □ Cable □ Water □ Sewer □ Other

Impacted Utilities: □ Above Ground □ Underground

Critical Area Impacted: □ YES □ NO

Mature / Specimen Trees Impacted: □ YES □ NO

Existing Landscaping Impacted: □ YES □ NO

Underdrain Needed: □ YES □ NO

Underdrains Can Discharge: □ YES □ NO

Soils are Suitable: □ YES □ NO

Ground Water Table Level Suitable: □ YES □ NO

Estimate IMP / BMP drainage area included on site: 0.35 ac 100%

Retrofit of Existing SWM BMP

SDI ID: ____________

Add Forebay: □ YES □ NO

Modify Outlet Structure: □ YES □ NO

Add Aquatic Bench: □ YES □ NO

Grade Bottom of Facility: □ YES □ NO

Plant Native Vegetation: □ YES □ NO

Provide Additional Storage Volume: □ YES □ NO

Excavation / Raise the Embankment: □ YES □ NO
### IMP / BMP SUMMARY

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<td>looking south along &quot;d&quot;</td>
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### Comments

Grid pavers are used to reduce impervious area for the following reasons:

1.) inlet is not adjacent to curb so centralized area cannot be used
2.) to reduce size of IMP

Locations of IMPs:

7a: X=1397751, Y=481687; 7b: X=1397802, Y=481542; 7c: X=1397651, Y=481408; 7d: X=1397664, Y=481523; 7e: X=1397559, Y=481574; 7f: X=1397834, Y=481454; 7g: X=1397783, Y=481594

IMP/BMP Summary shows combined results for 7a, 7b, 7c, 7d, 7e, 7f and 7g.

IMP size = 15,210 sq ft