

Final Report

Urban Nonpoint Source & Storm Water Construction & Targeted Runoff Management Small-scale Urban TMDL Grant Program

Form 3400-189U (R 11/18)

Page 1 of 2

NOTICE: This document is required under s. 281.65 & s. 281.66, Wis. Stats., and chs. NR 153, 154, and 155. Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Urban Nonpoint Source & Storm Water and Targeted Runoff Management Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type		
<input checked="" type="radio"/> Urban Nonpoint Source Construction <input type="radio"/> TRM Small-scale Urban TMDL		
Grant Information		
Grantee - Governmental Unit Name		Grant Number
Town of Greenville		USC-WR12-44022-15
Project Name		
Rain Garden Retrofits		
Project Contact Name	Phone Number	E-mail Address
Chris Pagels	(920) 841-2244	cpagels@townofgreenville.com

Site 1 - Location & Watershed Information			Additional sites may be added to the project by clicking on the [+Loc] button		
Site Name		Latitude		Longitude	
Fairwinds Drive Rain Gardens Retrofit					
County	12-Digit HUC	12-Digit Watershed Name			
Outagamie	040302021401	Town of Greenville-Bear Creek			
Nearest Receiving Waterbody		Primary Waterbody addressed by project			
Unnamed Tributary to Bear Creek (Wolf River)		Bear Creek			

Site 1 - BMP & Load Reduction Information							Additional BMPs for this site may be added by clicking on the [+] button	
Best Management Practice(s) Installed	Surface Area (sq ft) or Length of shoreline (ft)	Drainage Area Served (acres)	Load Reduction Achieved			Total Cost (BMP + Ancillary Activities)		
			TSS (% red)	P (lbs/yr)	N (lbs/yr)			
Bioretention for infiltration (1004)	339,768	7.8	82	1,793	6	\$373,710		

Model(s)/Methods Used to Calculate Load Reduction (check all that apply)

☐ STEPL ☒ SLAMM ☐ P8 ☐ NRCS Bank Erosion Formula ☐ Other (specify) _____

Site 1 - Required Attachments:		Additional BMPs for this site may be added by clicking on the [+] button	
Required Attachments - Check the boxes below if the required information for the site is attached:			
<input checked="" type="checkbox"/> Photos of site, pre-and post- BMP implementation.		<input checked="" type="checkbox"/> Load reduction modeling documents.	
<input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled.		<input checked="" type="checkbox"/> Operation & maintenance plan for each BMP.	
<input checked="" type="checkbox"/> Documentation showing that one of the following is true (select the true statement):			
<input checked="" type="radio"/> The application owns the property. <input type="radio"/> The applicant has control of the property through an easement. <input type="radio"/> The applicant has control of the property through a construction and maintenance agreement.			
<input checked="" type="checkbox"/> Water quality monitoring results summary, if applicable.			

Site 1 - Information	Additional BMPs for this site may be added by clicking on the [+] button
Narrative space will expand to fit.	
<p>The Town of Greenville constructed a rain garden retrofit project along Fairwinds Drive as part of our current and future TMDL compliance to reduce sediment (TSS) and total phosphorous (TP) within the Bear Creek Watershed (Wolf River) and Everglade Marsh. These rain gardens were designed and constructed in accordance with the Rain Garden Manual and applicable portions of bioretention for infiltration (code 1004) and other Wisconsin DNR guidance documents. The constructed rain gardens will provide a 60% runoff volume reduction, an 80% TSS reduction and a 70% TP reduction.</p> <p>It's of note that these rain garden retrofits are in a rural profile roadside ditch that had vegetation growing in them. However, the ditches had limited capability to provide infiltration as numerous sump pump discharges kept the ditches in</p>	

a constant wet state. This constant wet state provided limited stormwater volume, sediment and phosphorous control.

As part of this stormwater retrofit project, a mini storm sewer was constructed to pipe clean sump pump water and excess storm water from selected bio-infiltration basins to a discharge point further down in the landscape. This project was completed in fall of 2018. Due to late season site restoration, erosion matting and a straw mulch with tackifier was used to control erosion of site and to promote dense vegetative growth come spring of 2019.

The Town of Greenville will maintain all structural functions of this system. Structural functions include all storm pipe, under drains, all ditch amended areas. Adjacent residential property owners are responsible for maintaining plantings and grass swales were installed as part of routine maintenance.

It is anticipated that additional native plantings will be installed in 2019 as part of the Town's approved operational budget. Willing property owners contacted the Town after the project had been bid out. Any changes/additions to this retrofit project will be included within the Town of Greenville's MS4 annual report.

☒ DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project

Narrative space will expand to fit

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form and submit it electronically to the DNR Regional Nonpoint Source Coordinator.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments is correct and true.

Name of Authorized Government Official

Title of Authorized Government Official

Date

Town of Greenville Town Administrator

3/25/19

For DNR Use Only

☒ Received complete reports with all attachm

with the grant agreement

Comments about this project:

sign : date please

Name of Region Nonpoint Source Coordinator

Date

Eric Evensen












6/28/19

Send the Final Report and attachments to the C
Grant Coordinator. Keep a printed copy for the

to the Runoff Management

Fairwinds Dr Rain Garden



-  Stormwater Manhole
-  Stormwater Fitting
-  Stormwater Lateral
-  Discharge Structure
-  Intake Structure
-  Stormwater Gravity Main
-  Underdrain
-  Clean Out
-  Rain Garden
-  Stone Dry Well
-  Greenville Parcels

Miles
0 0.03 0.06

Scale is approximate and is
not based on legally recorded
or surveyed data.



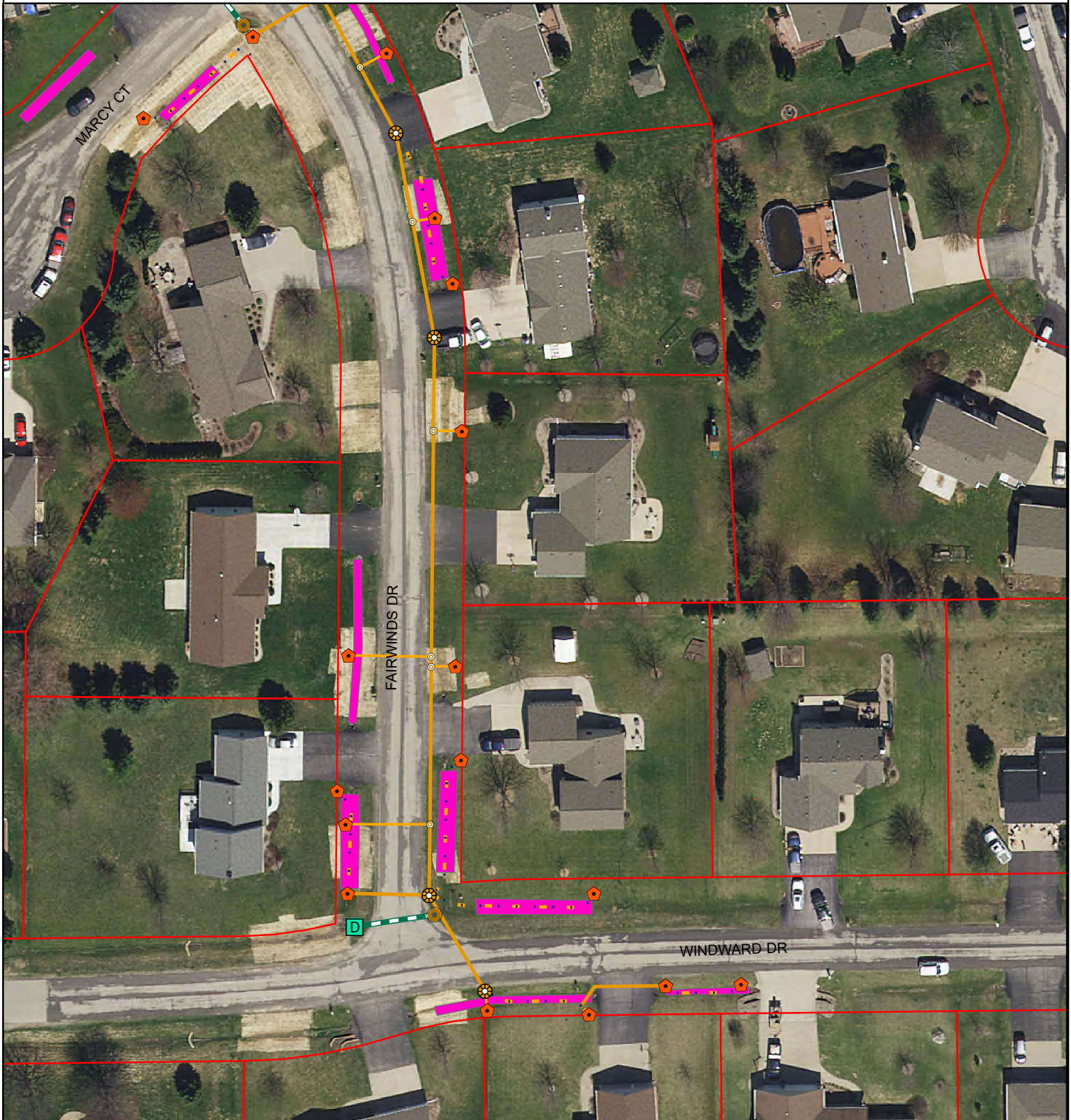
Source: Infrastructure - Town of Greenville, 2019
Parcels & Orthophoto - Outagamie County, 2018

This map provides data containing geographic information about the Town of Greenville. The data was obtained from multiple sources and agencies. The Town of Greenville provides this information with the understanding that it is not guaranteed to be current, correct or complete and assumes no responsibility for the accuracy of this map or its use or misuse. The map is intended for use as a general reference only.

Prepared: February 26th, 2019
By: Town of Greenville - GIS Department
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(920) 757-6342 Fax
Website: www.townofgreenville.com
Email: gis@townofgreenville.com



Fairwinds Dr Rain Gardens



- Stormwater Manhole
- Stormwater Fitting
- Stormwater Lateral
- Stormwater Gravity Main
- Discharge Structure
- Intake Structure
- Underdrain
- Clean Out
- Rain Garden
- Greenville Parcels

Miles
0 0.01 0.02

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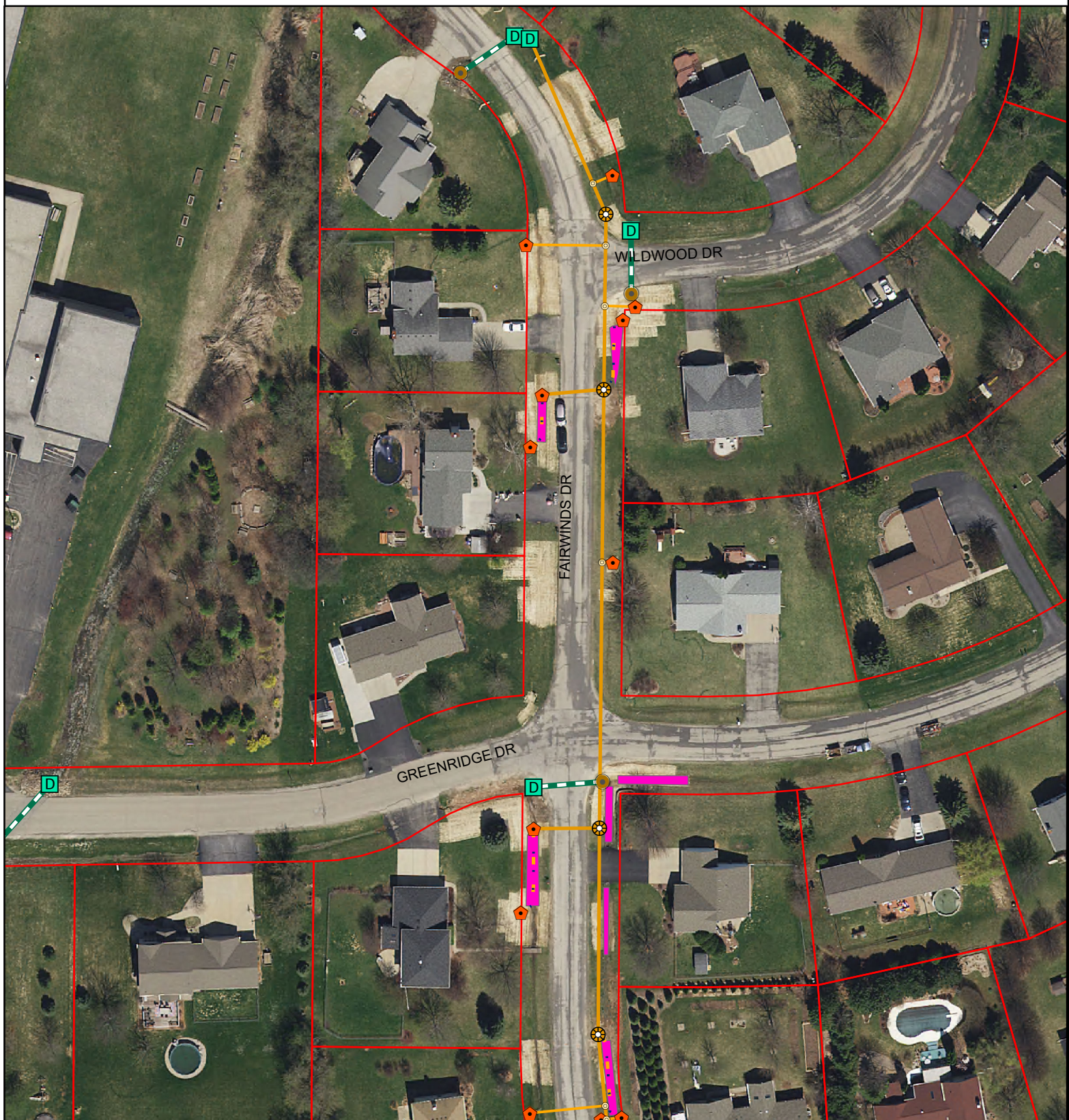
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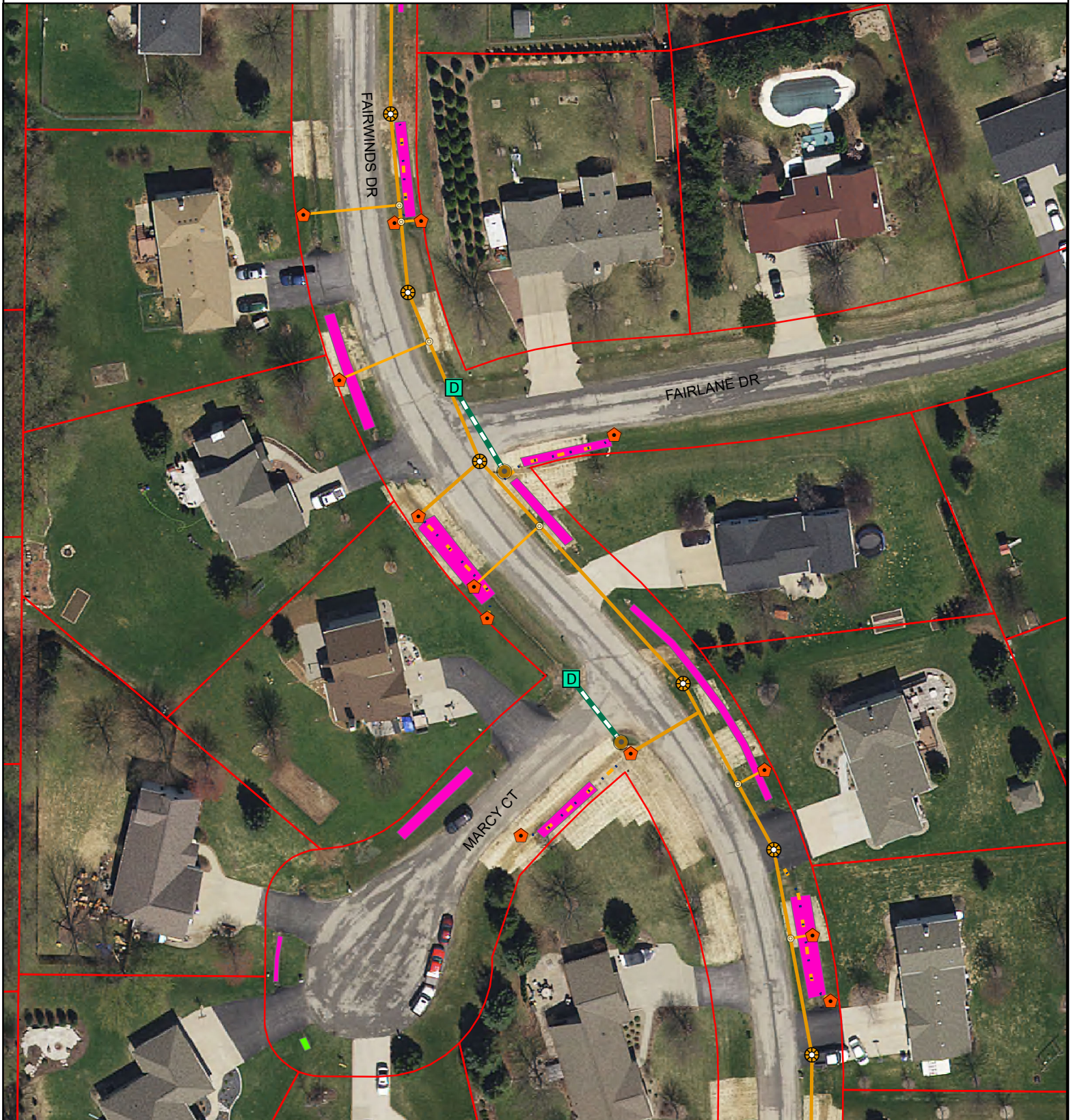
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0 0.01 0.02 Miles

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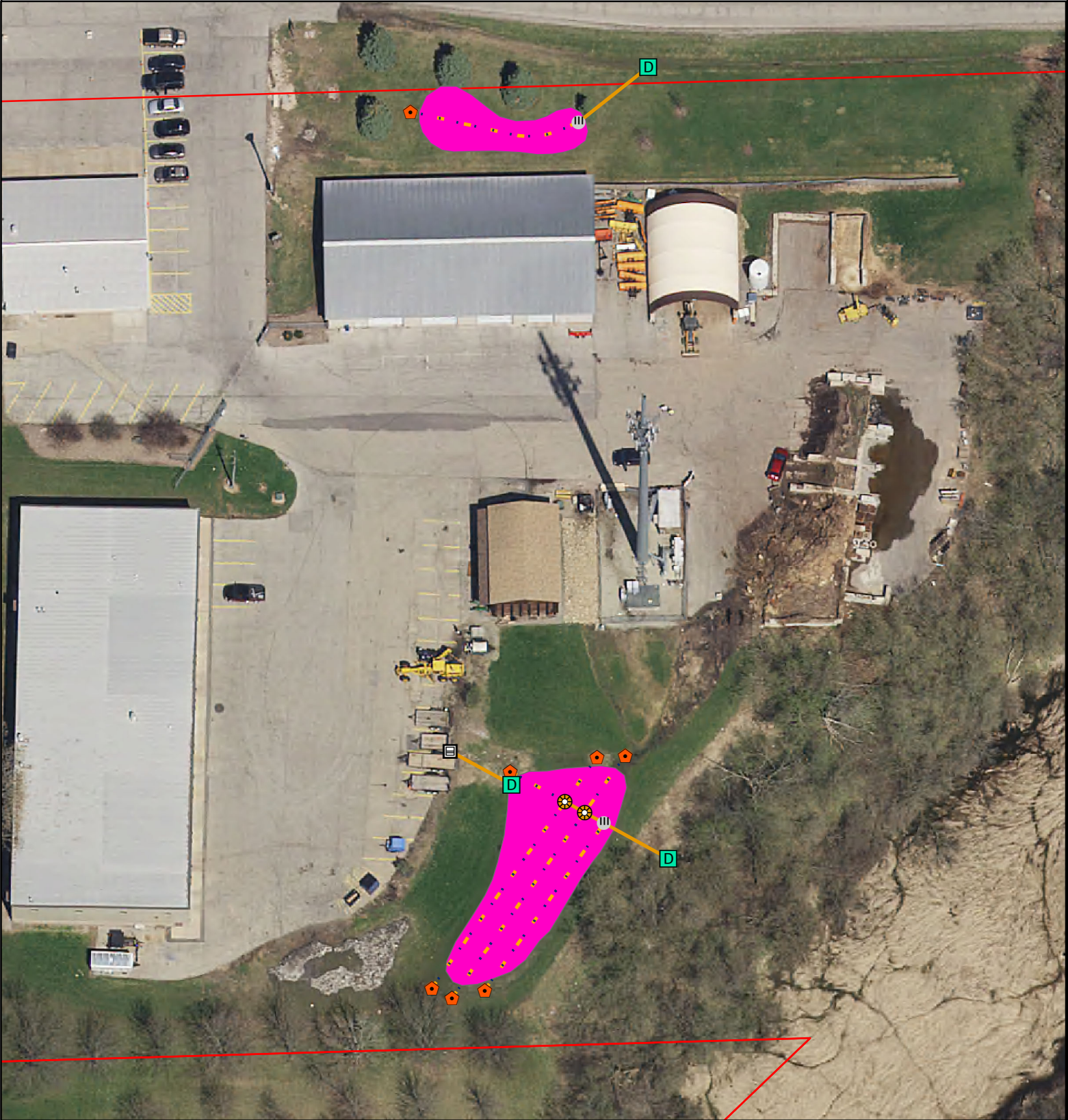
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GREENVILLE
N1398



Public Works Rain Garden



- Stormwater Manhole
- Stormwater Fitting
- Catchbasin
- Yard Drain
- Discharge Structure
- Underdrain
- Clean Out
- Rain Garden
- Greenville Parcels
- Stormwater Gravity Main

Miles
0 0.009 0.018

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