Existing Phase II MS4

Storm Water Management Program

December 6, 2022 – December 5, 2027

Submitted to:

Georgia Environmental Protection Division
Watershed Protection Branch
Non-Point Source Program, Municipal Stormwater Team
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Atlanta, GA 30334

Submitted by:

City of Oakwood, Georgia

CITY OF
OAKWOOD
BUILDING THE FUTURE TOGETHER

CITY OF OAKWOOD
Existing Phase II MS4
Storm Water Management Program
December 6, 2022 – December 5, 2027

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Existing Phase II MS4

Stormwater Management Program Template

Please note that this template does not provide an exhaustive listing of what the NPDES Permit requires to be included in the Stormwater Management Program (SWMP). The permittee must carefully review each part of the Permit and ensure all items are included.

General Information for Submitting a SWMP

- Your Stormwater Management Program (SWMP) must be a comprehensive document containing all the necessary components. The SWMP must include the most recent version of all of the required supporting documents. These supporting documents must be submitted on a flash drive or CD. Ensure that the files can be opened and read by EPD. In rare cases, EPD will accept hard copies of documents. Ensure that you submit all of the necessary components, including copies of the latest versions of the following:

  1) Adopted stormwater ordinances (Illicit Discharge, Erosion and Sedimentation, and Post-Construction). If you are located within the Metropolitan North Georgia Planning District, then your SWMP must also include District ordinances (Floodplain, Litter, Stream Buffer);
  2) Standard Operating Procedures (e.g. dry weather screening procedures, construction site inspection procedures, street sweeping procedures);
  3) Blank copies of forms to be used to implement the SWMP, including inspection forms;
  4) Signed Memorandum of Agreements; and
  5) Maps and inventories.

  A bulleted list of the documents to be attached to the SWMP is included on each BMP page. This list is only to assist the permittee as a reminder and is not a definitive list. The permittee may determine some of the listed documents do not apply or that additional documents should be provided.

- For some BMPs, the NPDES Permit requires the submittal of procedures. These procedures may be described in the "Description of BMP" section of each BMP page, if they are not lengthy, or included as a separate attachment to the SWMP.

- The NPDES Permit contains tables listing the various BMPs. The MS4 is required to set a measurable goal for each BMP. In some cases, the Permit establishes the goal (e.g. inspect 100% of the structures within a 5-year period), while in other cases the MS4 must set a specific measurable goal. Ensure that each measurable goal is numeric and trackable.

- The NPDES Permit specifies that the MS4 must provide documentation of each activity implemented. Each BMP must specify the documentation to be submitted with each annual report (e.g. completed inspection forms, work orders, etc.). In some cases, the Permit specifies the documentation to be submitted (e.g. maps and inventories). In other cases, the MS4 will have to establish the documentation to be submitted. Ensure that each BMP spells out the specific documentation to be submitted with each annual report in the section titled "Documentation to be submitted with each Annual Report".

STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Stormwater Management Program (SWMP)
General NPDES Permit No. GAG610000 for
Small Municipal Separate Storm Sewer Systems (MS4)

1. General Information

A. Name of small MS4: City of Oakwood

B. Name of responsible official: B. R. White
Title: City Manager
Mailing Address: P.O. Box 99
City: Oakwood State: GA Zip Code: 30566
Telephone Number: 770-534-2365

C. Designated stormwater management program contact:
Name: Jason Spencer
Title: Public Works Director
Mailing Address: P.O. Box 99
City: Oakwood State: GA Zip Code: 30566
Telephone Number: 770-534-2365
Email Address: jspencer@cityofoakwood.net

D. Provide the river basin(s) to which your MS4 discharges: Chattahoochee

E. Provide the latitude and longitude of the MS4 center (e.g. City Hall, County offices, MS4 mailing address) using Global Positioning System (GPS) –WG 84:
Latitude: 34.2276° N Longitude: 83.8843° W

2. Sharing Responsibility

A. Has another entity agreed to implement a control measure on your behalf? Yes X No (If no, skip to Part 3)

Control Measure or BMP:

1. Name of entity City of Gainesville, Hall County

2. Control measure or component of control measure to be implemented by entity on your behalf:
Utility Bill Inserts, Illicit Discharge/ Illegal Dumping Hotline

B. Attach an additional page if necessary to list additional shared responsibilities. **It is mandatory that you submit a copy of a written agreement between your MS4 and the other entity demonstrating written acceptance of responsibility.**

3. Minimum Control Measures and Appendices

A. Public Education and Outreach
B. Public Involvement/Participation
C. Illicit Discharge Detection and Elimination
D. Construction Site Stormwater Runoff Control
E. Post-Construction Stormwater Management in New Development and Redevelopment
F. Pollution Prevention/Good Housekeeping
G. Appendix A – Enforcement Response Plan
H. Appendix B – Impaired Waters

4. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry into the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: B.R White Date: 01/26/2024

Signature:  Title: City Manager

Stormwater Management Program

Public Education and Outreach on Storm Water Impacts
Table 4.2.1(a) of the Permit

A. Best Management Practice (BMP) #1-Utility Bill Inserts

1. Target audience: General Public

2. Description of BMP: Utility Bill Inserts – The City of Gainesville (the water provider for the City of Oakwood) will provide stormwater education to Oakwood residents and businesses by including an insert annually in their utility bill. The insert will include topics such as water quality, pollution prevention and the stormwater management program.

3. Measurable goal(s): One utility bill insert will be sent out annually.

4. Documentation to be submitted with each annual report : The number of accounts received the insert and a copy of the insert.

5. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): 2019

   c. Frequency of actions (if applicable): Annually

   d. Month/Year of each action (if applicable): On-going

6. Person (position) responsible for overall management and implementation of the BMP: City Manager

7. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: Including utility bill insert information provides an ideal opportunity to reach every household in the City.

B. BMP #2-Stormwater Education Program

1. Target audience: Students in the Hall County School System (these include children living in the City)

2. Description of BMP: Stormwater Education Program – Hall County and the cities currently work with Elachee Nature Center to provide educational programs to school children throughout the County including the City. The Stormwater Education Program put on by the Nature Center teaches children about the water cycle, value of recycling and litter control, pollution of streams and impacts to biota caused by excess inputs of sediment and fecal coliform, and how to reduce the inputs of these problem pollutants.

3. Measurable goal(s): Educate a minimum of 70 Oakwood Elementary School 5th graders each year.

4. Documentation to be submitted with each annual report : Summary provided by Elachee Nature Center detailing the educational programs provided to 5th graders each year.

5. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-going

   d. Month/Year of each action (if applicable): On-going

6. Person (position) responsible for overall management and implementation of the BMP: City Manager

7. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP on the feedback and input received in summary reports received from Elachee Nature Center.

Note: For those permittees with a population of less than 10,000, the MS4 should implement at least 2 BMPs. For those permittees with a population greater than 10,000, the SWMP must include at least four BMPs. For each additional BMP, you should attach an additional BMP page in the SWMP.

Public Involvement/Participation
Table 4.2.2 (a) of the Permit

A. Best Management Practice (BMP) #1-Annual Stream Clean-up

1. Target audience/stakeholder group: General Public

2. Description of BMP: Annual Stream Clean-up - City residents will be invited to participate in an annual stream clean-up event organized by the City. The City will organize and market the event and report the results of the event to the City Council. Sponsors such as local businesses or organizations will be asked to provide food and refreshments and/or prizes for the participants. Debris collected will be categorized (i.e., number of bags, types of debris, and/or weight, etc.) before being properly disposed of at the county landfill thus keeping the waste from entering local streams.

3. Measurable goal(s): One event held each year

4. Documentation to be submitted with each annual report : Summary of the annual cleanup event to include description of activities, number of participants, photographs and impact.

5. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): One time per year

   d. Month/Year of each action (if applicable): April Annually

6. Person (position) responsible for overall management and implementation of the BMP: City Manager

7. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the number of participants in the event and the amount of litter/debris removed.

B. BMP #2- Stormwater Hotline

1. Target audience/stakeholder group: General Public

2. Description of BMP: Stormwater Hotline – In 2005, the City established a Stormwater Hotline (770-533-7420) through an intergovernmental agreement with Hall County. Residents and businesses are encouraged to call and ask questions and report problems related to suspected illicit discharges, flooding problems, sediment runoff from construction sites, etc. Hall County currently monitors the Stormwater Hotline, documents all calls and refers all calls related to the City to the City Manager. Notice of the hotline is included on the City's web site.

3. Measurable goal(s): 100% Response to Stormwater Hotline Complaints

4. Documentation to be submitted with each annual report : Summary of the hotline calls received and response during the reporting period.

5. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): On-Going

6. Person (position) responsible for overall management and implementation of the BMP: City Manager

7. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the number and categories of calls received and the disposition of the calls.

Note: For those permittees with a population of less than 10,000, the MS4 should implement at least 2 BMPs. For those permittees with a population greater than 10,000, the SWMP must include at least four BMPs. For each additional BMP, you should attach an additional BMP page in the SWMP.

Illicit Discharge Detection and Elimination
Table 4.2.3 (a) of the Permit

A. BMP #1 – Legal Authority

1. Description of BMP: Legal Authority

2. Measurable goal(s): Evaluate the existing Illicit Discharge Ordinance (see Attachment 2). If the ordinance is revised during the reporting period, a copy of the adopted ordinance will be submitted with the annual report.

3. Documentation to be submitted with each annual report : Copy of any ordinance amendments adopted during the period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): July 2015

   c. Frequency of actions (if applicable): Annual Review
   d. Month/Year of each action (if applicable): Annual Review

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: Review ordinance annually to ensure all provisions are current and updated, as necessary.

SWMP Attachments:

- Illicit Discharge Detection and Elimination ordinance, showing adoption date.
- If you are located within the Metropolitan North Georgia Planning District (District), attach copies of all of the District ordinances, showing the adoption dates, to the SWMP.

B. BMP #2 – Outfall Map and Inventory

1. Description of BMP: Outfall Map and Inventory

2. Measurable goal(s): Continue to update the City's map and inventory of the location of all outfalls of the MS4 and the locations of all waters of the State that receive those outfalls (see Attachment 3).

3. Documentation to be submitted with each annual report : Outfall Map, and Inventory updates, number of outfalls added during the reporting period and the total number of outfalls in each annual report.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Completed

   c. Frequency of actions (if applicable): Annual Updates

   d. Month/Year of each action (if applicable): Each December

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: Updating and utilizing the map will provide staff with a valuable tool for detecting and eliminating illicit discharges within the City.

SWMP Attachments:

- Outfall inventory
- Outfall map showing the outfalls and the receiving streams, including stream names.

C. BMP #3 – IDDE Plan

1. Description of BMP: IDDE Plan
2. Measurable goal(s): Continue IDDE Plan described in the SWMP to detect and address non-stormwater discharges to the MS4 (see Attachment 4). Components of the plan are as follows:

    a. Conduct dry weather screening (DWS) inspections on 100% of the total outfalls (currently 60) within the 5-year permit term in accordance with procedures contained in the SWMP. At a minimum, DWS inspections on 5% of the outfalls will be conducted each year so that inspections are performed during each reporting period.
    b. Implement investigative procedures when the DWS indicates potential for an illicit discharge in accordance with procedures contained in the SWMP.
    c. Ensure identified illicit discharges are eliminated. Implement enforcement procedures described in the SWMP in accordance with the Enforcement Response Plan (ERP) included herein.

3. Documentation to be submitted with each annual report : Number of outfalls inspections conducted, and associated documentation (Dry Weather Outfall Screening Form included in Attachment 4). Information on illicit discharge detection activities performed. Information on any eliminated discharges or on any enforcement actions taken to eliminate illicit discharges.

4. Schedule:

    a. Interim milestone dates (if applicable): N/A
    b. Implementation date (if applicable): Continue BMP
    c. Frequency of actions (if applicable): On-Going
    d. Month/Year of each action (if applicable): On-Going

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by investigating and documenting any illicit discharge or illegal connections to the MS4 and summarizing the results in the annual report.

SWMP Attachments:

- Illicit Discharge Detection and Elimination Plan
- Outfall inspection form
- If using an alternate method in place of outfall inspections, the form to document activities
- Form to document source tracing
- Form to document illicit discharge elimination.
- Example table to track outfall inspections over the permit cycle.

D. BMP #4 – Education

1. Description of BMP: Education

2. Measurable goal(s): Continue City's program to educate the public, businesses, and government employees about the hazards of illicit discharges. This BMP includes an inventory of all businesses and industries located within the City limits used to track inspections, violations and educational activities. The business education and inspection program will include at least 20% of pollutant-generating businesses annually (see Attachment 5 for business inspection checklist and education materials).

3. Documentation to be submitted with each annual report : Documentation of education activities conducted during the reporting period to include the % of pollutant-generating businesses addressed.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the documentation and/or results of the education program activities.

E. BMP #5 – Complaint Response

1. Description of BMP:__ Complaint Response

2. Measurable goal(s): Continue procedures for receiving, investigating, and tracking the status of illicit discharge complaints (see Attachment 6).

3. 3. Documentation to be submitted with each annual report :_ Report of each illicit discharge related complaint received and investigated during the reporting period (e.g. complaint date, type of complaint, complaint status).

_

4. Schedule:

   a. Interim milestone dates (if applicable): _N/A _____

   b. Implementation date (if applicable): _Continue BMP

   c. Frequency of actions (if applicable): _On-Going

   d. Month/Year of each action (if applicable): _N/A _____

5. Person (position) responsible for overall management and implementation of the BMP: City Manager_____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ The City will base our evaluation of the effectiveness of the BMP by reviewing the nature and resolution of each complaint report.

SWMP Attachments:

- Complaint procedures, including receipt, investigation, and enforcement.
- Form used to document complaint receipt, handling, and resolution.

Construction Site Storm Water Runoff Control
Table 4.2.4 (a) of the Permit

A. BMP #1 – Legal Authority

1. Description of BMP: Legal Authority

2. 2. Measurable goal(s): Evaluate the existing E&S ordinance (see Attachment 7). Ensure the E&S or litter control ordinance (see Attachment 8) requires construction site operators to control waste at the construction site, such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste. If the ordinance is revised during the reporting period, a copy of the adopted ordinance will be submitted with the annual report.

3. 3. Documentation to be submitted with each annual report : Copy of any ordinance amendments adopted during the period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): June 14, 2010

   c. Frequency of actions (if applicable): N/A

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: Review ordinances annually to ensure all provisions are current and updated, as necessary.

SWMP Attachments:

- Erosion and Sedimentation ordinance, showing adoption date. If the required construction waste wording is contained in another ordinance (e.g. litter), then submit that adopted ordinance also.

B. BMP #2 - Site Plan Review Procedures

1. Description of BMP:_ Site Plan Review Procedures

2. Measurable goal(s): _ Continue site plan review procedures (see Attachment 9) described in the SWMP and in accordance with the Georgia Soil and Water Conservation Commission (GSWCC) requirements.

3. 3. Documentation to be submitted with each annual report :_ List of site plans received, and the number of site plans reviewed, approved, or denied during the reporting period.

4. Schedule:

   a. Interim milestone dates (if applicable): __N/A _____

   b. Implementation date (if applicable): _Continue BMP _____

   c. Frequency of actions (if applicable): _On-Going _____

   d. Month/Year of each action (if applicable): __N/A _____

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ The City will base our evaluation of the effectiveness of the BMP by inspecting and monitoring the stormwater management practices on construction sites on an on-going basis.

SWMP Attachments:

- Site plan review procedures
- Example plan review forms.
- Example plan review tracking log.

C. BMP #3 – Inspection Program

1. Description of BMP:_ Inspection Program

2. Measurable goal(s): _ Continue construction site inspection procedures (see Attachment 10) described in the SWMP and in accordance with Georgia Soil and Water Conservation Commission (GSWCC) requirements to ensure that structural and non-structural BMPs at construction sites are properly designed and maintained and that construction site waste is properly controlled.

3. 3. Documentation to be submitted with each annual report :_ List of active construction sites and any inspections conducted during the reporting period along with representative number of completed inspection forms.

4. Schedule:

   a. Interim milestone dates (if applicable): _N/A _____

   b. Implementation date (if applicable): _Continue BMP

   c. Frequency of actions (if applicable): _On-Going

   d. Month/Year of each action (if applicable): _N/A _____

5. Person (position) responsible for overall management and implementation of the BMP: City Manager_____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ The City will base our evaluation of the effectiveness of the BMP by reviewing the project records to ensure required inspections are conducted.

SWMP Attachments:

- Construction site inspection procedures
- Example inspection forms
- Example site inspection tracking log

D. BMP #4 – Enforcement Procedures

1. Description of BMP: Enforcement Procedures

2. Measurable goal(s): _ Continue enforcement procedures for E&S violations documented at construction sites as described in the SWMP and in accordance with the ERP required herein (see Appendix A),

3. Documentation to be submitted with each annual report :_ Provide documentation of any enforcement actions taken during the reporting period including the number and type (e.g. Notice of Violation, Stop Work Order, etc) and status of each action (e.g. pending, resolved)._

4. Schedule:

   a. Interim milestone dates (if applicable): _N/A _____

   b. Implementation date (if applicable): __Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): _N/A _____

5. Person (position) responsible for overall management and implementation of the BMP: City Manager_____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ The City will base our evaluation of the effectiveness of the BMP by reviewing the nature and resolution of each enforcement action.

SWMP Attachments:

- Example enforcement forms or letters (e.g. Stop Work Order, Warning Notice)
- Example enforcement action tracking log

E. BMP #5 – Complaint Response

1. Description of BMP: Complaint Response

2. Measurable goal(s): Continue E&S complaint receipt, investigation, response and tracking procedures (see Attachment 11).

3. Documentation to be submitted with each annual report : Documentation on each complaint received and investigated during the reporting period (e.g. complaint date, type of complaint, complaint status).

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

7. 6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the nature and resolution of each complaint reported.

SWMP Attachments:

- Complaint procedures, including receipt, investigation, and enforcement.
- Form used to document complaint receipt, handling, and resolution.

F. BMP #6 – Certification

1. Description of BMP: Certification

2. Measurable goal(s): Ensure MS4 staff involved in construction activities subject to CGPs are trained and certified in accordance with the rules adopted by the Georgia Soil and Water Conservation Commission.

3. Documentation to be submitted with each annual report : Number and type of current certifications held by MS4 staff to include certification # and expiration date and/or a copy of the certification card for each employee.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by ensuring MS4 staff are adequately trained and certified.

Post-Construction Storm Water Management in New Development and Redevelopment
Table 4.2.5 (a) of the Permit

A. BMP #1 – Legal Authority

1. Description of BMP: Legal Authority

2. Measurable goal(s): Evaluate, and if necessary, modify the existing post development stormwater ordinance (see Attachment 12). If the ordinance is revised during the reporting period, a copy of the adopted ordinance will be submitted with the annual report.

3. Documentation to be submitted with each annual report : Copy of any ordinance amendments adopted during the period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): November 14, 2005

   c. Frequency of actions (if applicable): N/A

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: Review ordinance annually to ensure all provisions are current and updated, as necessary.

SWMP Attachments:

- Post-Construction ordinance, showing adoption date.
- If the population exceeds 10,000, a completed worksheet or other method used to conduct the code and ordinance evaluation (e.g. Center for Watershed Protection's Code and Ordinance Worksheet, EPA's Scorecard)

B. BMP #2 - Inventory

1. Description of BMP:_ Inventory

2. Measurable goal(s): _ Maintain and update an inventory of all publicly owned post-construction storm water management structures (e.g, detention/retention ponds, water quality vaults) and only those privately owned structures designed after the December 9, 2008, deadline for adoption of the GSMM (i.e. new structures) – (see Attachment 13). Inventory shall include information on the number and type structures, and ownership (i.e. publicly owned or privately owned).__

3. Documentation to be submitted with each annual report :_ Updated inventory of post-construction stormwater management structures. _____

4. Schedule:

   a. Interim milestone dates (if applicable): N/A _____

   b. Implementation date (if applicable): Completed

   c. Frequency of actions (if applicable): _ Annual Updates

   d. Month/Year of each action (if applicable): _ Each December

5. Person (position) responsible for overall management and implementation of the BMP: City Manager_____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ Updating and utilizing the map will provide staff with a valuable tool for ensuring that stormwater management structures are properly identified, inspected and maintained._____

SWMP Attachments:

- Inventory of detention/retention ponds and water quality vaults

C. BMP #3 – Inspection Program

1. Description of BMP: Inspection Program

2. Measurable goal(s): Continue inspections of all post-construction stormwater management structures included on the inventory (BMP #E-2) so that 100% of the structures are inspected within the 5-year permit term. At a minimum, inspections must be completed on 5% of the structures annually. Schedule is included on Attachment 13 See Attachment 14 for inspection checklist. Inspection procedures and follow-up actions are included in Attachment 17.

3. Documentation to be submitted with each annual report : Completed inspection checklists of post-construction stormwater management structures inspected during the reporting period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the results of annual inspections and the maintenance performed.

SWMP Attachments:

- Inspection procedures
- Example inspection forms
- Example table for tracking inspections conducted over permit cycle.

D. BMP #4 – Maintenance Program

1. Description of BMP: Maintenance Program

2. Measurable goal(s): Continue the long-term operation and maintenance program for post-construction stormwater management structures included in the inventory (BMP # E-2). At a minimum, the maintenance program must address all permittee-owned structures, those owned by other publicly-owned structures by other entities, and those privately owned structures with construction completion after December 6, 2012. Maintenance will be performed to the MEP by the owner/operator of the structure in accordance with the stormwater maintenance agreements (template included in Attachment 15). Specific maintenance to be performed is included in Attachment 17 – Storm Sewer System Inspections, Operations and Maintenance Procedures.

3. Documentation to be submitted with each annual report : List of maintenance performed on publicly owned structures (type structure and maintenance activities performed). Summary list of maintenance agreements for privately owned along with any additions during the reporting period. _____

4. Schedule:

   a. Interim milestone dates (if applicable): N/A _____

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A _____

5. Person (position) responsible for overall management and implementation of the BMP:_____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the results of the maintenance performed.

SWMP Attachments:

- Example form for documenting maintenance.
- Example maintenance agreements
- List of maintenance agreements executed to date.
- Example letters to notify owners of maintenance deficiencies.

E. BMP #5 – GI/LID Program

1. Description of BMP: GI/LID Program

a. 2. Measurable goal(s): Implement the program for the inspection and maintenance of the GI/LID structures, including permittee-owned, publicly-owned structures owned by other entities, and privately-owned non-residential (e.g. who inspects, who maintains, inspection and maintenance schedule, method of documentation of the inspection and maintenance activities)

3. Documentation to be submitted with each annual report : Any revisions during the reporting period must be submitted.

4. Schedule:

a. Interim milestone dates (if applicable): N/A

b. Implementation date (if applicable): Continue BMP

c. Frequency of actions (if applicable): On-going

d. Month/Year of each action (if applicable): December Each Year

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by implementing the program.

SWMP Attachments:

- Inventory of all permittee-owned GI/LID structures, and structures publicly-owned by other entities and privately-owned non-residential constructed after 12/6/12.

F. BMP #6 – GI/LID Structure Inventory

1. Description of BMP: GI/LID Structures Inventory.
   a. 2. Measurable goal(s): _ Develop an inventory of water quality-related GI/LID structures located in the permitted area and, at a minimum, constructed after December 6, 2012, including the total number of each type of structure (e,g. bioswales, pervious pavement, rain gardens, cisterns, and green roofs).
   b. Track the addition of new water quality-related GI/LID structures through the plan review process and ensure the structures are added to the inventory. Provide an updated inventory, including those structures added during the reporting period in each annual report.

   3. 3. Documentation to be submitted with each annual report :_ The inventory and any annual updates.

4. Schedule:

   a. Interim milestone dates (if applicable): _N/A _____

   b. Implementation date (if applicable): _Continue BMP

   c. Frequency of actions (if applicable): _On-going

   d. Month/Year of each action (if applicable): _N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the number and impact of GI/LID structures installed.

SWMP Attachments:

- GI/LID Program, including example inspection forms and maintenance agreements.

G. BMP #7 – GI/LID Structure Inspection Program

1. Description of BMP: GI/LID Inspection Program

2. Measurable goal(s): Beginning in 2020, conduct inspections and/or ensure inspections are conducted on 100% of the GI/LID structures included in the inventory created in BMP #E-5 within a 5-year period. The inspections must be completed in accordance with the schedule submitted in the GI/LID program submitted in BMP #E-6.

Implement the inspection procedures in accordance with the GI/LID program submitted in BMP #E-6 for ensuring publicly owned structures owned by other entities and privately-owned structures owned by other entities and privately-owned residential GI/LID structures are inspected.

3. Documentation to be submitted with each annual report : . Documentation of inspections conducted.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): 2020

   c. Frequency of actions (if applicable): N/A

   d. Month/Year of each action (if applicable): N/A

   Person (position) responsible for overall management and implementation of the BMP: City Manager

5. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the results of GI/LID structures inspection and maintenance performed.

SWMP Attachments:

- Example inspection forms
- Example table for tracking inspections conducted over permit cycle.

H. BMP #8 – GI/LID Structure Maintenance Program

1. Description of BMP: GI/LID Structure Maintenance Program_

2. Measurable goal(s): _ Implement the maintenance procedures in accordance with the GI/LID program submitted in BMP #E-6 for ensuring publicly-owned structures owned by other entities and privately-owned structures owned by other entities and privately-owned residential GI/LID structures are maintained as needed. Conduct maintenance on the permittee-owned GI/LID structures as needed.

3. Documentation to be submitted with each annual report :_ The number of structures and percentage of the total structures maintained during the reporting period.

4. Schedule:

   a. Interim milestone dates (if applicable): _N/A_____

   b. Implementation date (if applicable): _2020_____

   c. Frequency of actions (if applicable): _Annually Update/ Review

   d. Month/Year of each action (if applicable): _N/A_____

5. Person (position) responsible for overall management and implementation of the BMP: City manager_____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the results of GI/LID structures inspection and maintenance performed._____

SWMP Attachments:

- Example form for documenting maintenance.
- Example maintenance agreements
- List of maintenance agreements executed to date.
- Example letters to notify owners of maintenance deficiencies.

Pollution Prevention/Good Housekeeping for Municipal Operations
Table 4.2.6 (a) of the Permit

A. BMP #1 – MS4 Structure Inventory and Map

1. Description of BMP: MS4 Control Structure Inventory and Map

2. Measurable goal(s): _ Continue to update the City's map and inventory of MS4 control structures (see Attachment 16 and Stormwater Atlas on enclosed CD). At a minimum, the inventory must include catch basins, ditches (miles or linear feet), detention/retention ponds, and storm drain lines (miles or linear feet)._

3. Documentation to be submitted with each annual report :_ Provide an updated map and inventory, number of structures added during the reporting period and the total number of structures in each annual report.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): _ Continue BMP

   c. Frequency of actions (if applicable): _ Ongoing

   d. Month/Year of each action (if applicable): Each December

5. Person (position) responsible for overall management and implementation of the BMP: City Manager _____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ Updating and utilizing the map and inventory will provide staff with a valuable tool for system inspections, operations, and maintenance.

SWMP Attachments:

- Inventory listing 4 structure types (catch basins, ditches, pipes, permittee-owned ponds)
- Map showing 4 structure types.

B. BMP #2 – MS4 Inspection Program

1. Description of BMP: MS4 Inspection Program

2. Measurable goal(s): Utilize Storm Sewer System Inspection, Operations, and Maintenance Procedure (see Attachment 17) to conduct inspections on MS4 control structures so that 100% of the structures are inspected within the 5-year period and to ensure at least one inspection is conducted each year. Inspection schedule and forms are included in Attachment 17.

3. Documentation to be submitted with each annual report : Number and percentage of structures inspected during the reporting period and copies of completed inspection forms for each type of MS4 control structure within the Storm Sewer System Inspection, Operation, and Maintenance Procedures.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the inspection activities and results annually.

SWMP Attachments:

- Inspection program, including implementation schedule
- Example inspection forms
- Example table for tracking inspections over the permit cycle

C. BMP #3 – MS4 Maintenance Program

1. Description of BMP: MS4 Maintenance Program

2. Measurable goal(s): Utilize Storm Sewer System Inspection, Operations, and Maintenance Procedure (see Attachment 17) to conduct maintenance on MS4 control structures as needed.

3. Documentation to be submitted with each annual report : Number and type of structures maintained during the reporting period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the maintenance activities and results annually.

SWMP Attachments:

- Maintenance procedures
- Example maintenance forms

D. BMP #4 – Street and Parking Lot Cleaning

1. Description of BMP: Street and Parking Lot Cleaning.

2. Measurable goal(s): Utilize Storm Sewer System Inspection, Operations, and Maintenance Procedure (see Attachment 17) to conduct street and parking lot cleaning by means of trash/litter removal.

3. Documentation to be submitted with each annual report : Summary of trash/litter removal activities during the reporting period to include total amount of waste collected and documentation of final disposal (i.e., waste tickets).

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the trash/litter removal activities annually and assessing the general appearance of City streets.

SWMP Attachments:

- Street sweeping procedures.
- Street sweeping log page or other form.
- Litter removal procedures
- Litter removal log page or other form

E. BMP #5 – Employee Training

1. Description of BMP: Employee Training

2. Measurable goal(s): Continue the employee training program. The training, at a minimum, must occur annually and include topics such as good housekeeping at municipal facilities, illicit discharge detection, construction site inspections, and green infrastructure.

3. Documentation to be submitted with each annual report : Summary of employee training accomplished during the reporting period to include an agenda, sign-in sheets, and copy of training presentation.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A _____

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A _____

5. Person (position) responsible for overall management and implementation of the BMP: City Manager _____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by observing the performance of City employees in accomplishing MS4 related tasks.

SWMP Attachments:

- Employee training program
- Example sign-in sheet or other documentation forms

F. BMP #6 – Waste Disposal

1. Description of BMP:_ Waste Removal.

2. 2. Measurable goal(s): Utilize Storm Sewer System Inspection, Operations, and Maintenance Procedure (see Attachment 17) to remove trash and debris from the MS4.

3. 3. Documentation to be submitted with each annual report :_ Summary of trash/litter removal disposal activities during the reporting period to include the total MS4 waste collected and documentation of final disposal (i.e., waste tickets).

4. Schedule:

   a. Interim milestone dates (if applicable): N/A _____

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A _____

5. Person (position) responsible for overall management and implementation of the BMP: City Manager _____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: _ The City will base our evaluation of the effectiveness of the BMP by reviewing the trash/litter disposal activities annually. _

SWMP Attachments:

- Waste disposal procedures
- Example form for tracking waste disposal.

G. BMP #7 – New Flood Management Projects

1. Description of BMP: New Flood Management Projects

2. Measurable goal(s): Ensure proposed flood management projects (e.g. detention and retention ponds) are assessed for water quality impacts during design phase. Utilize site plan review procedures in Attachment 9.

3. Documentation to be submitted with each annual report : Number of plans of flood management projects assessed for water quality impacts during the reporting period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the number of projects submitted annually.

SWMP Attachments:

- Procedures for assessing new plans for water quality impacts.
- Example forms used to document the assessment of new plans.

H. BMP #8 – Existing Flood Management Projects

1. Description of BMP: Existing Flood Management Projects

2. Measurable goal(s): When conducting MS4 control structures inspections utilizing the Storm Sewer System Inspection, Operations, and Maintenance Procedure (BMP #F-3 - Attachment 17-Storm Water Detention Pond Report of Findings), city staff will assess existing permittee-owned flood management projects (detention and retention ponds) for potential retrofitting to address water quality impacts. At a minimum, assess at least one structure annually if the permittee has less than 5 structures, then assess 100% within the 5-year reporting period. See Attachment 19 for this procedure.

3. Documentation to be submitted with each annual report : Information on any assessment activities of existing publicly owned flood management projects during the reporting period and any planned or completed retrofits.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A _____

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: City Manager _____

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the number of projects identified and assessed annually.

SWMP Attachments:

- Procedures for assessing existing flood management structures for potential retrofit.
- List of existing flood management structures
- Example forms used to document the assessment of existing structures.

I. BMP #9 – Municipal Facilities

1. Description of BMP: Municipal Facilities.

2. Measurable goal(s): Update the inventory of municipal facilities with a potential to cause pollution (see Attachment 18). Conduct inspections on 100% of municipal facilities within the 5 year permit term utilizing the inspection form in Attachment 5. At a minimum, the permittee must conduct inspections on 5% of the municipal facilities annually.

3. 3. Documentation to be submitted with each annual report : Updated inventory and copies of completed inspection forms for inspections conducted during the reporting period.

4. Schedule:

   a. Interim milestone dates (if applicable): N/A

   b. Implementation date (if applicable): Continue BMP

   c. Frequency of actions (if applicable): On-Going

   d. Month/Year of each action (if applicable): Update annually

5. Person (position) responsible for overall management and implementation of the BMP: City manager

6. How you will determine whether this BMP is effective in accordance with Part 5.1.4 of the Permit: The City will base our evaluation of the effectiveness of the BMP by reviewing the inspection results and taking appropriate action annually.

SWMP Attachments:

- Inventory of municipal facilities
- Procedures for conducting inspections.
- Example inspection forms
- Example table to track inspections over permit cycle.

Appendix A

Enforcement Response Plan

1. The MS4 was required to develop an Enforcement Response Plan (ERP) that describes the action to be taken for violations of the Stormwater Management Program during a previous permit iteration.

   A. Provide the date the ERP was approved by EPD: _November 7, 2013_____

   B. If the ERP has not yet been approved, provide the date submitted to EPD: _____

2. The ERP is to be evaluated annually and revised as needed. Provide the most recent version of the ERP as an attachment to this Appendix.

Appendix B

Impaired Waters

1. Population based on the latest U.S. Census: 5,975

   Date of the latest U.S. Census used: July 1, 2022

   If the population is less than 10,000, then see item #2 below.

   If the population exceeds 10,000, then see items #3 below.

2. If the population is less than 10,000, then the MS4 must develop an Impaired Waters Plan (IWP) (see Part 4.4.1 of the NPDES Permit) including:
   - A list of impaired waters and the pollutant(s) of concern;
   - A map showing the location of the impaired waters and all identified MS4 outfalls located on the impaired waters or occurring within one linear mile upstream of the waters;
   - BMPs that will be implemented to address each pollutant of concern; and
   - A schedule for implementing the BMPs.

3. If the population exceeds 10,000, then the MS4 must develop an Impaired Waters Plan/Monitoring and Implementation Plan (MIP) (see Part 4.4.2 of the NPDES Permit) including:

   - A list of impaired waters and the pollutant(s) of concern, including the date of the 303(d)-list used;
   - A map showing the location of the impaired waters, the monitoring location(s), and all identified MS4 outfalls located on the impaired waters or occurring within one linear mile upstream of the waters;
   - The sample location (instream or at the outfalls);
   - Information on the sample type, frequency, and any seasonal considerations;
   - Schedule for starting monitoring for any newly identified pollutants;
   - BMPs that will be implemented to address each pollutant of concern;
   - A schedule for implementing the BMPs; and
   - The information to be included in each annual report, including the monitoring data, as assessment of data trends, and an assessment of the effectiveness of the BMPs.

4. The IWP and MIP must be evaluated annually and revised as needed. The most recent version of the IWP or MIP must be submitted as an attachment to this appendix.

Appendix A - Enforcement Response Plan

The City of Oakwood was required, as part of the SWMP development, to implement an Enforcement Response Plan (ERP) which outlines procedures the City staff will follow to identify, document, and take enforcement for a violation of a local ordinance. The purpose of this ERP is to outline the actions and procedures that will be used by the City staff during instances of non-compliance. The components of the plan are outlined below with regards to the various aspects of the SWMP including the Illicit Discharge Detection and Elimination Program (IDDEP) and the Construction Site Management Program.

A.1 Definitions and Abbreviations

Accidental discharge - a discharge prohibited by this chapter into the city's separate storm sewer system, which occurs by chance and without planning or consideration prior to occurrence.

Approved stormwater discharge - a discharge of rainwater into the city's separate stormwater system approved in advance of connection by the public utilities department.

City - City of Oakwood, Georgia.

Drainage - a general term applied to the removal of surface or subsurface water from a given area either by gravity or by pumping; commonly applied herein to surface water.

Drainage system - the surface and subsurface system for the removal of water from the land, including both the natural elements of streams, marshes, swales, and ponds, whether of an intermittent or continuous nature, and the man-made element which includes culverts, ditches, channels, detention facilities, and the storm sewer system.

Illicit discharge - any direct or indirect non-stormwater discharge to the municipal separate storm sewer system, except as exempted in section 52-444 (b) of the City of Oakwood Code of Ordinances.

Illegal connection - either of the following:

(1) Any pipe, open channel, drain or conveyance, whether on the surface or subsurface, which allows an illicit discharge to enter the storm drain system including but not limited to any conveyances which allow any non-stormwater discharge including sewage, process wastewater, and wash water to enter the storm drain system, regardless of whether such pipe, open channel, drain or conveyance has been previously allowed, permitted, or approved by an authorized enforcement agency; or

(2) Any pipe, open channel, drain or conveyance connected to the municipal separate storm sewer system which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.

Industrial stormwater permit - a national pollutant discharge elimination system (NPDES) permit issued to an industry or group of industries which regulates the pollutant levels associated with industrial stormwater discharges or specifies on-site pollution control strategies.

Municipal (city's) separate storm sewer system (MS4) - any facility designed or used for collecting and/or conveying stormwater, including but not limited to any roads with drainage systems, highways, city streets, curbs, gutters, inlets, catch basins, piped storm drains, pumping facilities, structural stormwater controls, ditches, swales, natural and man-made or altered drainage channels, reservoirs, and other drainage structures, and which is not part of a publicly-owned treatment works.

Non-stormwater discharge - any discharge to the storm drain system that is not composed entirely of stormwater.

Owner - the person in who is vested the ownership, dominion, or title of property. This term shall also include a tenant, any agent of the owner, or tenant including a developer.

Person - any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, state agency, municipality or other political subdivision of this state, any interstate body, or any other legal entity.

Pollutant - anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; petroleum hydrocarbons; automotive fluids; cooking grease; detergents (biodegradable or otherwise); degreasers; cleaning chemicals; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, dirt, or other discarded or abandoned objects and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; liquid and solid wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; concrete and cement; excessive heat; and noxious or offensive matter of any kind.

Pollution - the contamination or other alteration of any water's physical, chemical or biological properties by the addition of any constituent and includes but is not limited to, a change in temperature, taste, color, turbidity, or odor of such waters, or the discharge of any liquid, gaseous, solid, radioactive, or other substance into any such waters as will or is likely to create a nuisance or render such waters harmful, detrimental or injurious to the public health, safety, welfare, or environment, or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses, or to livestock, wild animals, birds, fish or other aquatic life.

Premises - any building, lot, parcel of land, or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.

Planning and Development Department - the department of the city responsible for engineering, development permitting, and stormwater management program.

Public Works Department - the department of the city responsible for roads, drainage, traffic, sanitation, and public buildings and grounds.

Runoff - the portion of precipitation on the land which reaches the drainage system. Also known as stormwater runoff.

Sediment - solid material, both inorganic and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, ice or gravity; the product of erosion.

State waters - any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the state which are not entirely confined and retained completely upon the property of a single individual, partnership or corporation, as determined by the planning and development department.

Stormwater management - the collection, conveyance, storage, treatment and disposal of stormwater runoff in a manner intended to prevent increased flood damage, stream bank channel erosion, habitat degradation and water quality degradation, and to enhance and promote the public health, safety and general welfare.

Stormwater management ordinance administrator - the planning and development department of the city.

Stormwater management system - the entire set of structural and nonstructural stormwater management facilities and practices that are used to capture, convey and control the quantity and quality of the stormwater runoff from a premise.

Stream - a natural body of running water flowing continuously or intermittently in a channel on or below the surface of the ground.

Structural stormwater control - a structural stormwater management facility or device that controls stormwater runoff and changes the characteristics of that runoff including, but not limited to, the quantity and quality, the period of release or the velocity of flow of such runoff.

A.2 Illicit Discharge Detection and Elimination Program Enforcement Response Plan

A.2.1 Ordinance and Authorization

Part II, Chapter 52, Article III, Division 4 of the City of Oakwood Code of Ordinances provides the legal authority for stormwater management, definitions, and a description of the appeal/penalty processes. The Ordinance was designed to meet the following goals:

- Regulate the contribution of pollutants to the MS4 by any person.
- Prohibit illicit discharges and illegal connections to the MS4.
- Require owners of stormwater management systems to maintain the system such that said system functions as originally designed
- Prevent non-stormwater discharges, generated as a result of spills, inappropriate dumping or disposal, to the MS4.
- Establish legal authority to carry out all inspection, surveillance, monitoring and enforcement procedures necessary to ensure compliance.

A.2.2 Identify Potential Violations

A variety of accidental and illicit violations may occur resulting in noncompliance of the permit. Scenarios for noncompliance may include:

- Illicit connection to the MS4
- Accidental or illicit discharge of a pollutant into the MS4
- Not maintaining a stormwater management system in functional and working order as originally designed and constructed

Each of these scenarios constitutes a violation of the permit and must be corrected immediately. A discharge to the MS4 may be comprised of a variety of pollutants including but not limited to paints, solvents, pathogens, nutrients, detergents, fluoride, metals, sewage, automotive fluids, pesticides/herbicides, fertilizers, or other potential water quality pollutants.

A.2.3 Enforcement Mechanisms

This section describes the enforcement mechanisms available to the city are consistent with the provisions of Section 52-448 of the city code of ordinances.

A.2.3.1 Enforcement Actions

The process described below should be considered a progressive guideline that should be followed to the extent practicable. Public safety and welfare along with environmental protection will be the first priority in all situations and any enforcement mechanisms shall be escalated as necessary in order to mitigate potential damages.

A.2.3.1.1 Step 1 – Discovery and Notice of Violation

Whenever the city finds that a violation of Part II, Chapter 52, Article III, Division 4 of the City of Oakwood Code of Ordinances has occurred, the city may order compliance by written notice of violation.

(1) The notice of violation contains:

a) The name and address of the alleged violator;
b) The address when available or a description of the building, structure or land upon which the violation is occurring, or has occurred;
c) A statement specifying the nature of the violation;
d) A description of the remedial measures necessary to restore compliance with this chapter and a time schedule for the completion of such remedial action;
e) A statement of the penalty or penalties that shall or may be assessed against the person to whom the notice of violation is directed; and
f) A statement that the determination of violation may be appealed by filing a written notice of appeal within 30 days of service of notice of violation.

(2) The notice of violation may require:
a) The performance of monitoring, analyses, and reporting;
b) The elimination of illicit discharges and illegal connections;
c) That violating discharges, practices, or operations shall cease and desist;
d) The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
e) Payment of costs to cover administrative and abatement costs; and
f) The implementation of pollution prevention practices.

A.2.3.1.2 Step 2 – Appeal of Notice of Violation

Any notice of violation may be appealed. The notice of appeal must be received in writing by the city manager or city council within 30 days from the date of the notice of violation. Hearing on the appeal before the city council must take place within 15 days from the date of receipt of the notice of appeal. The decision of the city council is final.

A.2.3.1.3 Step 3 – Enforcement and Penalties

Any person violating the provisions of the code may be subject to the following penalties:

Enforcement measures after appeal. If the violation has not been corrected pursuant to the requirements set forth in the notice of violation or, in the event of an appeal, within ten days of the decision of the city council upholding the decision of the city manager, then representatives of the city may enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the representatives of the city or its designated contractor to enter upon the premises for the purposes set forth in the code.

Costs of abatement of the violation. Within 30 days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may

file a written protest objecting to the assessment or to the amount of the assessment within 15 days of such notice. If the amount due is not paid within 30 days after receipt of the notice or, if an appeal is taken, within 30 days after a decision on said appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment. Any person violating any of the provisions of this code shall become liable to the city by reason of such violation.

Civil penalties. In the event the alleged violator fails to take the remedial measures set forth in the notice of violation or otherwise fails to cure the violations described therein within ten days or such greater period as the city shall deem appropriate after the city has taken one or more of the actions described above, the city may impose a penalty not to exceed $1,000.00 (depending on the severity of the violation) for each day the violation remains unremedied after receipt of the notice of violation.

Criminal penalties. For intentional and flagrant violations of this division, the city, through its police department, may issue a citation to the alleged violator requiring such person to appear in the municipal court for the city to answer charges for such violation. Upon conviction, such person shall be punished by a fine not to exceed $500.00 or imprisonment for 90 days or both for each violation. Each act of violation and each day upon which any violation shall occur shall constitute a separate offense.

Violations deemed a public nuisance. In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this division is a threat to public health, safety, welfare and environment and is declared and deemed a nuisance and may be abated by injunctive or other equitable relief as provided by law.

Remedies not exclusive. The remedies listed in this division are not exclusive of any other remedies available under any applicable federal, state or local law, and the city may seek cumulative remedies. Additionally, the city may recover attorney's fees, court costs and other expenses associated with enforcement of this division including sampling and monitoring expenses.

A.2.4 Appropriate Responses

If the violation creates an immediate danger to public health or public safety, the city is authorized to enter the private property, without giving prior notice, to take any and all measures necessary to abate the violation and/or restore the property. If the violation involves the release of hazardous materials, emergency response agencies and/or other appropriate agencies shall be immediately notified.

A.2.5 Time Frames

Once the city has been notified of a violation, the city shall contact the violator/property owner immediately or within 24 hours. The violator/property owner shall be notified to take steps to immediately stop any ongoing violation and ensure that such a violation will not again occur. The

inspector will consider the following factors when determining the appropriate time frame for the enforcement response:

- Magnitude of the problem
- Duration of the problem
- Effects on State waters
- Effects on MS4
- Compliance History
- Good faith efforts
- City code provisions

Table A provides guidance on the appropriate enforcement response for probable instances of noncompliance/violations.

A.2.6 Tracking

The City of Oakwood Planning and Development Department will track information pertaining to any violation of the city code or other instances of noncompliance. A record of all actions is necessary to determine a violator's compliance history. The following items related to violations will be tracked and included in the annual report submitted to GA EPD:

- Name of owner/operator of facility and/or the location or address
- Type of site (IDDE, Construction, etc)
- Description of noncompliance
- Description of enforcement action(s) used
- Time frames for each step (investigation, corrective action, re-inspection, etc)
- Documentation of inspection and enforcement actions taken
- Documentation of referral to other departments or agencies
- Date of violation resolution

If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years. Said person shall also take immediate steps to ensure no recurrence of the discharge or spill.

Table A - IDDE

This table was created for the purpose of providing examples of probable instances of non-compliance/violations, appropriate response for such violation and appropriate response time frames for various circumstances an inspector might encountered. Violations, actions, responses that might occur are not limited to the listed items.

Instances of non-compliance/violations	Response	Time Frame Provided for Corrections	Possible Additional Steps to be taken.
Drain line discharge: e.g. washing machine	Educate and give NOV to stop practice and remove line.	Practice to stop immediately. 24 hrs to remove or cap line.	Follow up. If no actions issue Citation.
Discharging/dumping pollutants to the MS4: e.g. Paint, F.O.G, motor oil	Educate and give NOV to stop practice.	Practice to stop immediately. 24 hrs to remove pollutants from MS4 and cleanup.	Follow up. If no actions issue Citation.
Discharging/dumping pollutants to the MS4: e.g. grass clippings	Educate and give NOV to stop practice.	Practice to stop immediately. 24 hrs to remove pollutants from MS4 and cleanup.	Follow up. If no actions issue Citation.
Leaking Dumpster	Educate and give NOV	24 hrs stop using dumpster and request to have dumpster removed and replaced.	Consider time for replacement of dumpster. Suggested 5 business days. Follow up. If no actions issue Citation.
Exposed, leaking containers	Educate and give NOV- protect/ cover exposed containers and move with secondary containment.	Practice to stop immediately. 24 hrs to move to covered protected secondary container and remove/ replace leaking containers	Follow up. Suggested 5 business days. If no actions issue Citation.
Dry weather outfall discharge	Investigate source and discharge. If needed, grab sample for testing. Educate and give NOV to stop practice.	Practice to stop immediately. 24 hrs to remove pollutants from MS4 and cleanup.	Follow up. If no actions issue Citation.
Business or Industry practice of hosing floors, surrounding to MS4 system.	Educate and give NOV to stop practice.	Practice to stop immediately. 24 hrs to remove, if any, pollutants from MS4 and cleanup.	Follow up. If no actions issue Citation.

A.3 Construction Site Activity Enforcement Response Plan

Any person subject to a NPDES stormwater discharge permit associated with construction site activity shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the city prior to allowing discharges to the city's separate storm sewer system.

A.3.1 Ordinances and Authorization

Construction site activity is subject to requirements and provisions within Part 2, Chapter 20, Article V of the Oakwood Municipal Code covering soil erosion, sedimentation and pollution control. This ordinance was designed to prevent or control erosion, sedimentation and pollution during all stages of land disturbing activity through the use of various minimum requirements and best management practices.

A.3.2 Enforcement Mechanisms

The City shall periodically inspect all sites of land-disturbing activities for which permits have been issued to determine if activities are being conducted in accordance with the plan and if the measures required in the plan are effective in controlling erosion and sedimentation. If it is deemed that a person engaged in land-disturbing activities has failed to comply with the approved plan, with permit conditions, or with provisions of Part 2, Chapter 20, Article V, a written notice to comply shall be served upon that person.

If it is determined that a person engaged in land-disturbing activities has failed to comply with the approved plan, a written notice to comply shall be served upon that person. The notice shall set forth necessary measures to achieve compliance with the plan and shall state the time within which such measures must be completed. If the person engaged in the land-disturbing activity fails to comply within the time specified, he shall be deemed in violation of article Part 2, Chapter 20, Article V and, in addition to other penalties, may be deemed to have forfeited his performance bond for erosion, sedimentation and pollution control, if required to post one. The city may call the bond or any part thereof to be forfeited and may use the proceeds to hire a contractor to stabilize the site of the land-disturbing activity and bring it into compliance.

If a person commences land-disturbing activities without first obtaining a permit, the person shall be subject to revocation of his business license, work permit or other authorization for the conduct of a business and associated work activities within the city.

A.3.2.1 Stop Work Order

For the first and second violations of the provisions of Part 2, Chapter 20, Article V, the GAEPD director or the City shall issue a written warning to the violator. The violator shall have five (5) days to correct the violation. If the violation is not corrected within five (5) days, the GAEPD director or the city may issue a stop-work order requiring that land-disturbing activities be stopped until necessary corrective action or mitigation has occurred; provided, however, that, if the violation presents an imminent threat to public health or waters of the state or if the land-disturbing activities are conducted without obtaining the necessary permit, the GAEPD director or the City may issue an immediate stop-work order in lieu of a warning. For a third and each subsequent violation, the GAEPD director or the City may issue an immediate stopwork order. All stop-work orders are to be effective immediately upon issuance and shall be in effect until the necessary corrective action or mitigation has occurred.

A.3.2.2 Penalties

Any person who violates any provision of Part 2, Chapter 20, Article V, or any permit condition or limitation established pursuant to the article, or who negligently or intentionally fails or refuses to comply with any final or emergency order of the city or the EPD director issued as provided in the article shall be liable for a civil penalty not to exceed two thousand five hundred dollars ($2,500.00) per day. For the purpose of enforcing the provisions of Part 2, Chapter 20, Article V, notwithstanding any provisions in any City Charter or ordinance to the contrary, the municipal court of the city shall be authorized to impose a penalty not to exceed two thousand five hundred dollars ($2,500.00) for each violation. Notwithstanding any limitation of law as to penalties which can be assessed for violations, each day during which violation or failure or refusal to comply continues shall be a separate violation.

A.3.3 Appropriate Responses and Time Frames

Once the city has been notified of a violation, the city shall contact the violator/property owner immediately or within 24 hours. The violator/property owner shall be notified to take steps to immediately stop any ongoing violation and ensure that such a violation will not again occur. The inspector will consider the following factors when determining the appropriate time frame for the enforcement response:

- Magnitude of the problem
- Duration of the problem
- Effects on State waters
- Effects on MS4
- Compliance History
- Good faith efforts
- City code provisions

Table B provides guidance on the appropriate enforcement response for probable instances of noncompliance/violations.

A.3.4 Tracking

The City of Oakwood Planning and Development Department will track information pertaining to any violation of the city code or other instances of noncompliance. A record of all actions is necessary to determine a violator's compliance history. The following items related to violations will be tracked and included in the annual report submitted to GA EPD:

- Name of owner/operator of facility and/or the location or address
- Type of site (IDDE, Construction, etc)
- Description of noncompliance
- Description of enforcement action(s) used
- Time frames for each step (investigation, corrective action, re-inspection, etc)
- Documentation of inspection and enforcement actions taken
- Documentation of referral to other departments or agencies
- Date of violation resolution

Table B – Construction Site Activity

This table was created for the purpose of providing examples of probable instances of non-compliance/violations, appropriate response for such violation and appropriate response time frames for various circumstances an inspector might encountered. Violations, actions, responses that might occur are not limited to the listed items.

Instances of non-compliance/violations	Response	Time Frame Provided for Corrections	Possible Additional Steps to be taken.
Use of BMP not approved on the E&S Plan: e.g. wrong sediment barrier	Verbal Warning: install appropriate BMP.	30 Days	If no action, issue NOV and STOP WORK order. Issue Citation.
Disturbing land without a permit or a riparian buffer.	NOV and STOP WORK order.	24 hrs Violator to take remedial actions to protect disturbed area and file for permits.	A Citation to be issued if no action is taken.
Required number of BMPs not installed	STOP WORK order and Verbal Warning to install additional BMPs.	24 hrs	If no action, issue NOV. Issue Citation.
Silt fence no longer functional: broken or sediment filled	STOP WORK order and Verbal Warning to correct violation	24 hrs	If no action, issue NOV. Issue Citation.
Sediment on the road.	STOP WORK order and Verbal Warning to correct violation	24 hrs	If no action, issue NOV. Issue Citation.
Sediment on a waterway.	NOV and STOP WORK order.	24 hrs Violator to take remedial actions to stop source and start clean up.	Citation to be issued if no action is taken.
Debris filled site/ Overflowing waste containers.	Verbal Warning to cleanup site and add, if necessary, additional dumpster.	30 Days	If no action, issue NOV and STOP WORK order. Consider possible Citation.
Concrete Pit: Inappropriate location/unprotected.	Verbal Warning to protect pit and if necessary move to new location.	30 Days	If no action, provide NOV and STOP WORK order. Consider possible Citation.
Site lacking stabilization	NOV and STOP WORK	24 hrs	Issue a citation.

Appendix B - Impaired Waters Plan

The City of Oakwood was required, as part of the SWMP development, to develop an impaired waters plan to include the following:

1. A list of impaired waters and the pollutant(s) of concern;
2. A map showing the location of the impaired waters and all identified MS4 outfalls located on the impaired waters or occurring within one linear mile upstream of the waters;
3. BMPs that will be implemented to address each pollutant of concern; and
4. A schedule for implementing the BMPs.

B.1 List of Impaired Waters and the Pollutants of Concern

The two impaired waters located within the limits of the Oakwood MS4 are Balus Creek and Mud Creek (both are located in the Chattahoochee River Basin). The pollutant of concern for both creeks is fecal coliform bacteria. GA EPD has developed TMDLs for fecal coliform in each of these streams (see attached documents). Based on GA EPD's November 2008 TMDL Evaluation Report, both impaired waters partially support the designated use of "fishing".

B.2 Impaired Waters Map

The impaired waters within the Oakwood MS4 and all identified MS4 outfalls located on the impaired waters or occurring within one linear mile upstream of the waters are included on the Oakwood Stormwater Atlas.

B.3 BMPs to Control and Reduce Pollutants of Concern

Some of the potential pollutant sources for fecal coliform include MS4 discharges, leaks and overflows of sanitary sewers, illicit discharges of sanitary waste and leaking septic systems, and animals waste. BMPs utilized by the City to control and reduce the pollutants of concern include the following:

- NPDES permit compliance: Following the MCMs and BMPs set forth in the City of Oakwood SWMP.
- Illicit Discharge Detection and Elimination Program: On-going execution of the IDDE program set forth in the City of Oakwood SWMP (See BMPs C1 thru C5).
- Sewer Line Inspections: Performed through partnerships with City of Flowery Branch and City of Gainesville.
- Public Education and Cleanup Activities: Provide awareness and understanding on the actions that can cause degradation of the City's waterways as well as an understanding of the rules, inspections and enforcement actions.

B.4 Schedule for Implementing BMPs

BMPs are on-going.

INTERGOVERNMENTAL AGREEMENT

Dated and effective as of this 1st day of July, 2005
Between
Hall County, Georgia
A Political Subdivision of the State of Georgia
And
City of Gainesville, Georgia
A Municipal Corporation
And
City of Flowery Branch, Georgia
A Municipal Corporation
And
City of Oakwood, Georgia
A Municipal Corporation

THIS INTERGOVERNMENTAL AGREEMENT (hereinafter referred to as the "Agreement"), is made and entered into as of the 1st day of July, 2005, by and between HALL COUNTY, GEORGIA, a political subdivision of the State of Georgia, by and through its duly authorized governing authority, the Board of Commissioners of Hall County, Georgia (hereinafter referred to as "Hall County"); CITY OF GAINESVILLE, GEORGIA, a municipal corporation by and through its duly authorized governing authority, the City Council of Gainesville, Georgia (hereinafter referred to as "Gainesville"); CITY OF FLOWERY BRANCH, GEORGIA, a municipal corporation by and through its duly authorized governing authority the City Council of Flowery Branch, Georgia (hereinafter referred to as "Flowery Branch"); and CITY OF OAKWOOD, GEORGIA, a municipal corporation by and through its duly authorized governing authority the City Council of Oakwood, Georgia (hereinafter referred to as "Oakwood").

WITNESSETH:

WHEREAS, Hall County, Gainesville, Flowery Branch, and Oakwood have areas that are designated as urban areas by the State of Georgia; and

WHEREAS, these governments must file for compliance with the State of Georgia General Permit for Small Municipal Separate Storm Sewer Systems; and

WHEREAS, the permit requires that each governmental body utilize specific best management practices for permit compliance and are more specifically described in Attachments "A", "B", and "C" hereto; and

WHEREAS, this Agreement was presented and approved at meetings of the governing authorities; and

NOW, THEREFORE, incorporating the foregoing recitals, and in consideration of the mutual promises, covenants and undertakings of the parties hereinafter set forth, and for the public purposes herein contained and provided for, Hall County, Gainesville, Flowery Branch, and Oakwood covenant, agree and bind themselves as follows:

1. Term. Unless sooner terminated or renewed as provided herein, this Agreement shall be for a term of twelve (12) months, commencing on the date hereof and expiring, at midnight, on the 1st day of July, 2005. The Agreement shall automatically renew annually until such time as it is terminated by the parties, not to exceed fifty (50) years.

2. Early Termination. This Agreement may be terminated at the election of either governing authority upon the giving of ninety (90) days written notice of its intent to so-terminate.

3. Services Provided by Government Entities. Hall County and the City of Gainesville will be responsible for the preparation, implementation, operation and maintenance of the best management practice(s) described in *Attachment "A"*. The City of Gainesville will be responsible for the preparation, implementation, operation and maintenance of the best management practice(s) described in *Attachment "B"*. Hall County will be responsible for the preparation, implementation, operation and maintenance of the best management practice(s) described in *Attachment "C"*.

4. Amendments, Etc. No amendment, modification, termination, or waiver of any provision of this Agreement, nor consent to any departure by the parties, shall in any event be effective unless the same shall be in writing and signed by all parties, and then such waiver or consent shall be effective only in the specific instance and for the specific purpose for which given.

5. Entire Agreement. This Agreement contains the entire understanding of the parties with respect to the subject matter hereof, and no representations, inducements, promises or agreements, oral or otherwise, between the parties not embodied herein shall be of any force or effect.

6. Severability of Provisions. If any term, covenant, condition or provision of this Agreement, or the application thereof to any person or circumstance, shall ever be held to be invalid, then in each such event the remainder of this Agreement or the application of such term, covenant, condition or provision to any other person or any other circumstance (other than those as to which it shall be invalid) shall not be thereby affected, and each term, covenant, condition and provision hereof shall remain valid.

8. Relationship of Parties. Notwithstanding anything in this Agreement to the contrary, the parties are not and shall not be considered as joint venturers, partners, or agents of the other, and no party shall have the power to bind or obligate the other except as expressly set forth in this Agreement.

9. Survival of Representations. All terms, conditions, covenants, representations, and warranties contained in this Agreement, or any certificate or other writing delivered pursuant hereto or in connection herewith shall survive indefinitely (or for any lesser period stated herein) any investigation made by the parties and the expiration or termination of this Agreement.

IN WITNESS WHEREOF, Hall County, City of Gainesville, City of Flowery Branch, and City of Oakwood have caused this Agreement to be executed in their respective names and their respective official seals to be hereunto affixed and attested by their duly authorized officials, all as of the date first above written.

HALL COUNTY, GEORGIA, a
Political subdivision of the State of Georgia

(OFFICIAL SEAL)

By: _____
Commission Chairman

Attest: Debbie Gwallwood
Commission Clerk

Signed, sealed and delivered
In the presence of:

Jessica D. York
Unofficial Witness

Heather Bates
Notary Public, My Commission
Expires:

HEATHER BATES
NOTARY PUBLIC
Hall County
State of Georgia
My Comm. Expires June 25, 2005

CITY OF GAINESVILLE, a
Municipal Corporation

(OFFICIAL SEAL)

By: George Wangemann
Mayor

Attest: Denise O. Jordan
City Clerk

Signed, sealed and delivered
In the presence of:

Bonnie Parrish
Unofficial Witness

Donna T. Callahan
Notary Public, My Commission
Expires: August 9, 2005

CITY OF FLOWERY BRANCH, a
Municipal Corporation

(OFFICIAL SEAL)

By: _____
Mayor

Attest: _____
City Clerk

Signed, sealed and delivered
In the presence of:

_____
Unofficial Witness

_____
Notary Public, My Commission
Expires: _____

CITY OF OAKWOOD, a
Municipal Corporation

(OFFICIAL SEAL)

By: Tamara Scoggins
Mayor

Attest: _____
City Clerk

Signed, sealed and delivered
In the presence of:

_____
Unofficial Witness

_____
Notary Public, My Commission
Expires: _____

Notary Public, Hall County, Georgia
My Commission Expires Oct. 14, 2007

Attachment "A"
Annual Government Channel Program on CH 18 TV

As part of this Memorandum of Agreement (MOA), Hall County and the City of Gainesville hereby agree to implement this Minimum Control Measure #1 (MCM #1), Best Management Practice(s) #1 (BMP #1) by jointly producing or acquiring programs. These programs will fill the needs of MCM #1 for all four governmental entities involved.

Attachment "B"
Dry Weather Screening

As part of this Memorandum Of Agreement (MOA) the City of Gainesville hereby agrees to implement Minimum Control Measure #3 (MCM #3), Best Management Practice(s) #1 (BMP #1) by performing dry weather screening. The City will distribute information acquired by the screening to appropriate entities. Once information is received, the entities can take appropriate measures to maintain compliance with the Notice Of Intent (NOI). The City of Flowery Branch is not a portion of this MOA.

Attachment "C"
Illicit Discharge/Illegal Dumping Hotline

As part of this Memorandum Of Agreement (MOA), Hall County hereby agrees to implement Minimum Control Measure #3 (MCM #3), Best Management Practice(s) #2 (BMP #2) by providing County staff to receive calls and distribute messages and concerns to the appropriate entity. Additionally, Hall County agrees to show Hotline on CH 18 TV.

FIRST READING:	03/14/2005
PUBLISHED:	03/18/2005
PASSED:	07/11/2005
PUBLIC HEARING:	04/11/2005

AN ORDINANCE
No. 431

AN ORDINANCE TO REGULATE NON-STORMWATER DISCHARGES TO THE CITY OF OAKWOOD SEPARATE STORM SEWER SYSTEM TO BE KNOWN AS "THE ILLICIT DISCHARGE AND ILLEGAL CONNECTION ORDINANCE" FOR THE PURPOSE OF PROTECTING THE PUBLIC HEALTH, SAFETY, ENVIRONMENT AND GENERAL WELFARE; TO PROVIDE FOR METHODS OF CONTROLLING INTRODUCTION OF POLLUTANTS INTO THE CITY OF OAKWOOD SEPARATE STORM SEWER SYSTEM; TO PROVIDE FOR COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PROCESS; TO PROVIDE FOR PROHIBITION OF ILLICIT DISCHARGES AND ILLEGAL CONNECTIONS; TO PROVIDE FOR ACCESS AND INSPECTION OF PROPERTIES AND FACILITIES; TO PROVIDE FOR NOTIFICATION OF ACCIDENTAL DISCHARGES AND SPILLS; TO PROVIDE FOR VIOLATIONS, ENFORCEMENT AND PENALTIES; TO PROVIDE FOR THE APPLICABILITY AND ADMINISTRATION HEREOF; TO PROVIDE FOR SEVERABILITY OF THE PROVISIONS HEREOF; TO PROVIDE FOR AN EFFECTIVE DATE; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES AND FOR OTHER PURPOSES.

THE CITY COUNCIL OF THE CITY OF OAKWOOD, GEORGIA HEREBY ORDAINS AND IT IS HEREBY ORDAINED BY THE AUTHORITY OF SAME as follows:

Section 101. **Findings, Purpose and Intent.**

A. **Findings.**

It is hereby determined by the City Council of the City of Oakwood, Georgia that:

1. Discharges to the City of Oakwood separate storm sewer system that are not composed entirely of stormwater runoff contribute to increased nonpoint source pollution and degradation of receiving waters.
2. These non-stormwater discharges occur due to spills, dumping and improper connections to the City of Oakwood separate storm sewer

system from residential, industrial, commercial or institutional establishments.

3. These non-stormwater discharges not only impact waterways individually but geographically dispersed, small volume non-stormwater discharges can have cumulative impacts on receiving waters.
4. The impacts of these discharges adversely affect public health and safety, drinking water supplies, recreation, fish and other aquatic life, property values and other uses of lands and waters.
5. These impacts can be minimized through the regulation of spills, dumping and discharges into the City of Oakwood separate storm sewer system.
6. Localities in the State of Georgia are required to comply with a number of state and federal laws, regulations and permits which require a locality to address the impacts of stormwater runoff quality and non-point source pollution due to improper non-stormwater discharges to the City of Oakwood separate storm sewer system.

B. Purpose and Intent

The purpose of this ordinance is to protect the public health, safety, environment and general welfare through the regulation of non-stormwater discharges to the City of Oakwood separate storm sewer system to the maximum extent practicable as required by federal law. This ordinance establishes methods for controlling the introduction of pollutants into the City of Oakwood separate storm sewer system in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this ordinance are to:

(1) Regulate the contribution of pollutants to the City of Oakwood separate storm sewer system by any person;

(2) Prohibit illicit discharges and illegal connections to the City of Oakwood separate storm sewer system;

(3) Prevent non-stormwater discharges generated as a result of spills, inappropriate dumping or disposal to the City of Oakwood separate storm sewer system; and,

(4) To establish legal authority to carry out all inspection, surveillance, monitoring and enforcement procedures necessary to ensure compliance with this ordinance.

Section 201. **Definitions.**

"Accidental Discharge" means a discharge prohibited by this ordinance that occurs by chance and without planning or thought prior to occurrence.

"Clean Water Act" means the Federal Water Pollution Control Act (33 U.S.C. § 1251, et seq.) and any subsequent amendments thereto.

"Construction Activity" means activities subject to the Georgia Erosion and Sedimentation Control Act or NPDES General Construction Permits. These include construction projects resulting in land disturbance. Such activities include, but are not limited to, clearing and grubbing, grading, excavating and demolition.

"Illicit Discharge" means any direct or indirect non-stormwater discharge to the City of Oakwood separate storm sewer system except as exempted in Section 301 of this ordinance.

"Illegal Connection" means either of the following:

a) Any pipe, open channel, drain or conveyance, whether on the surface or subsurface, which allows an illicit discharge to enter the storm drain system including, but not limited to, any conveyances which allow any non-stormwater discharge including sewage, process wastewater and wash water to enter the storm drain system regardless of whether such pipe, open channel, drain or conveyance has been previously allowed, permitted or approved by an authorized enforcement agency; or

b) Any pipe, open channel, drain or conveyance connected to the City of Oakwood separate storm sewer system that has not been documented in plans, maps or equivalent records and approved by an authorized enforcement agency.

"Industrial Activity" means activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26 (b)(14).

"National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit" means a permit issued by the Georgia EPD under authority delegated pursuant to 33 USC § 1342(b) that authorizes the discharge of pollutants to waters of the United States whether the permit is applicable on an individual, group or general area-wide basis.

"City of Oakwood Separate Storm Sewer System" means any facility designed or used for collecting and/or conveying stormwater including, but not limited to, any roads with drainage systems, highways, City of Oakwood streets, curbs, gutters, inlets, catch basins, piped storm drains, pumping facilities, structural stormwater controls, ditches, swales, natural and man-made or altered drainage channels, reservoirs and other drainage structures and which is:

a) Owned or maintained by the City of Oakwood;
b) Not a combined sewer; and
c) Not part of a publicly owned treatment works.

"Non-Stormwater Discharge" means any discharge to the storm drain system that is not composed entirely of stormwater.

"Person" means, except to the extent exempted from this ordinance, any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, city, county or other political subdivision of the state, any interstate body or any other legal entity.

"Pollutant" means anything that causes or contributes to pollution. Pollutants may include but are not limited to: paints, varnishes and solvents; petroleum hydrocarbons; automotive fluids; cooking grease; detergents (biodegradable or otherwise); degreasers; cleaning chemicals; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter or other discarded or abandoned objects and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides and fertilizers; liquid and solid wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; concrete and cement; and noxious or offensive matter of any kind.

"Pollution" means the contamination or other alteration of any water's physical, chemical or biological properties by the addition of any constituent and includes, but is not limited to, a change in temperature, taste, color, turbidity or odor of such waters or the discharge of any liquid, gaseous, solid, radioactive or other substance into any such waters as will or is likely to create a nuisance or render such waters harmful, detrimental or injurious to the public health, safety, welfare or environment or to domestic, commercial, industrial, agricultural, recreational or other legitimate beneficial uses or to livestock, wild animals, birds, fish or other aquatic life.

"Premises" mean any building, lot, parcel or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.

"State Waters" means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells and other bodies of surface and subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State of Georgia which are not entirely confined and retained completely upon the property of a single person.

"Stormwater Runoff" or **"Stormwater"** means any surface flow, runoff and drainage consisting entirely of water from any form of natural precipitation and resulting from such precipitation.

"Structural Stormwater Control" means a structural stormwater management facility or device that controls stormwater runoff and changes the characteristics of that runoff

including, but not limited to, the quantity and quality, the period of release or the velocity of flow.

Section 301. Prohibitions

A. Prohibition of Illicit Discharges

No person shall throw, drain or otherwise discharge, cause or allow others under its control to throw, drain or otherwise discharge into the City of Oakwood separate storm sewer system any pollutants or waters containing any pollutants other than stormwater.

The following discharges are exempt from the prohibition provision above:

(1) Water line flushing performed by a government agency, other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising ground water, ground water infiltration to storm drains, uncontaminated pumped ground water, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, natural riparian habitat or wetland flows and any other water source not containing pollutants; and

(2) Discharges or flows from fire fighting and other discharges specified in writing by the City of Oakwood as being necessary to protect public health and safety.

The prohibition provision above shall not apply to any non-stormwater discharge permitted under an NPDES permit or order issued to the discharger and administered under the authority of the State and the Federal Environmental Protection Agency provided that the discharger is in full compliance with all requirements of the permit, waiver or order and other applicable laws and regulations and provided that written approval has been granted for any discharge to the City of Oakwood separate storm sewer system.

B. Prohibition of Illegal Connections

The construction, connection, use, maintenance or continued existence of any illegal connection to the City of Oakwood separate storm sewer system is prohibited.

(1) This prohibition expressly includes, without limitation, illegal connections made in the past regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.

(2) A person violates this ordinance if the person connects a line conveying sewage to the City of Oakwood separate storm sewer system or allows such a connection to continue.

(3) Improper connections in violation of this ordinance must be disconnected and redirected, if necessary, to an approved onsite wastewater management system or the sanitary sewer system upon approval of the City Manager or his designee.

(4) Any drain or conveyance that has not been documented in plans, maps or equivalent and which may be connected to the storm sewer system shall be located by the owner or occupant of that property upon receipt of written notice of violation from the City of Oakwood requiring that such locating be completed. Such notice will specify a reasonable time period within which the location of the drain or conveyance is to be completed, that the drain or conveyance be identified as storm sewer, sanitary sewer or other, and that the outfall location or point of connection to the storm sewer system, sanitary sewer system or other discharge point be identified. Results of these investigations are to be documented and provided to the City of Oakwood.

Section 401. Industrial or Construction Activity Discharges.

Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the City of Oakwood prior to allowing discharges to the City of Oakwood separate storm sewer system.

Section 501. Access and Inspection of Properties and Facilities.

Representatives of the City of Oakwood shall be permitted to enter and inspect properties and facilities at reasonable times as often as may be necessary to determine compliance with this ordinance.

A. If a property or facility has security measures in force that require proper identification and clearance before entry into its premises, the owner or operator shall make the necessary arrangements to allow access to representatives of the City of Oakwood.

B. The owner or operator shall allow the representatives of the City of Oakwood ready access to all parts of the premises for the purposes of inspection, sampling, photography, videotaping, examination and copying of any records that are required under the conditions of an NPDES permit to discharge stormwater.

C. The City of Oakwood shall have the right to set up on any property or facility such devices as are necessary in the opinion of the representatives of the City of Oakwood to conduct monitoring and/or sampling of flow discharges.

D. The City of Oakwood may require the owner or operator to install monitoring equipment and perform monitoring as necessary and make the monitoring data available to the City of Oakwood. This sampling and monitoring equipment shall

be maintained at all times in a safe and proper operating condition by the owner or operator at his/her own expense. All devices used to measure flow and quality shall be calibrated to ensure their accuracy.

E. Any temporary or permanent obstruction to safe and easy access to the property or facility to be inspected and/or sampled shall be promptly removed by the owner or operator at the written or oral request of the City of Oakwood and shall not be replaced. The costs of clearing such access shall be borne by the owner or operator.

F. Unreasonable delays in allowing the representatives of the City of Oakwood access to a facility is a violation of this ordinance.

G. If representatives of the City of Oakwood have been refused access to any part of the premises from which stormwater is discharged and the City of Oakwood is able to demonstrate probable cause to believe that there may be a violation of this ordinance or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this ordinance or any order issued hereunder or to protect the overall public health, safety, environment and welfare of the community, then the City of Oakwood may seek issuance of a search warrant from any court of competent jurisdiction.

Section 601. Notification of Accidental Discharges and Spills.

Notwithstanding other requirements of law, as soon as any person responsible for a facility, activity or operation or responsible for emergency response for a facility, activity or operation has information of any known or suspected release of pollutants or non-stormwater discharges from that facility or operation which are resulting or may result in illicit discharges or pollutants discharging into stormwater, the City of Oakwood separate storm sewer system, state waters or waters of the United States, said person shall take all necessary steps to ensure the discovery, containment and cleanup of such release so as to minimize the effects of the discharge.

Said person shall notify the authorized enforcement agency in person or by phone, facsimile or in person no later than 24 hours of the nature, quantity and time of occurrence of the discharge. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the City of Oakwood within three business days of the phone or in person notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years. Said person shall also take immediate steps to ensure no recurrence of the discharge or spill.

In the event of such a release of hazardous materials, emergency response agencies and/or other appropriate agencies shall be immediately notified.

Failure to provide notification of a release as provided above is a violation of this ordinance.

Section 701. Violations, Enforcement and Penalties.

A. Violations.

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this ordinance. Any person who has violated or continues to violate the provisions of this ordinance may be subject to the enforcement actions outlined in this section or may be restrained by injunction or otherwise abated in a manner provided by law.

In the event the violation constitutes an immediate danger to public health or public safety, representatives of the City of Oakwood are authorized to enter upon the subject private property, without giving prior notice, to take any and all measures necessary to abate the violation and/or restore the property. The City of Oakwood is authorized to seek costs of the abatement as outlined in subsection E hereof.

B. Notice of Violation.

Whenever the City of Oakwood finds that a violation of this ordinance has occurred, the City of Oakwood may order compliance by written notice of violation.

1. The notice of violation shall contain:

(a) The name and address of the alleged violator;

(b) The address when available or a description of the building, structure or land upon which the violation is occurring, or has occurred;

(c) A statement specifying the nature of the violation;

(d) A description of the remedial measures necessary to restore compliance with this ordinance and a time schedule for the completion of such remedial action;

(e) A statement of the penalty or penalties that shall or may be assessed against the person to whom the notice of violation is directed; and

(f) A statement that the determination of violation may be appealed to the Oakwood City Council by filing a written notice of appeal within 30 days of service of notice of violation.

2. Such notice may require without limitation:

(a) The performance of monitoring, analyses, and reporting;

(b) The elimination of illicit discharges and illegal connections;

(c) That violating discharges, practices, or operations shall cease and desist;

(d) The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;

(e) Payment of costs to cover administrative and abatement costs; and,

(f) The implementation of pollution prevention practices.

C. Appeal of Notice of Violation.

Any person receiving a Notice of Violation may appeal the determination of the City Manager or his designee to the Oakwood City Council. The notice of appeal must be received within 30 days from the date of the Notice of Violation. Hearing on the appeal before the Oakwood City Council shall take place within 15 days from the date of receipt of the notice of appeal. The decision of the Oakwood City Council shall be final.

D. Enforcement Measures After Appeal.

If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation or, in the event of an appeal, within ten days of the decision of the Oakwood City Council upholding the decision of the City Manager, then representatives of the City of Oakwood may enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the representatives of the City of Oakwood or its designated contractor to enter upon the premises for the purposes set forth above.

E. Costs of Abatement of the Violation.

Within 30 days after abatement of the violation, the owner of the property will be notified of the cost of abatement including administrative costs. The property owner may file a written protest objecting to the assessment or to the amount of the assessment within 15 days of such notice. If the amount due is not paid within 30 days after receipt of the notice or, if an appeal is taken, within 30 days after a decision on said appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment.

Any person violating any of the provisions of this article shall become liable to the City of Oakwood by reason of such violation.

F. Civil Penalties.

In the event the alleged violator fails to take the remedial measures set forth in the notice of violation or otherwise fails to cure the violations described therein within ten days or such greater period as the City of Oakwood shall deem appropriate after the City of Oakwood has taken one or more of the actions described above, the City of Oakwood may impose a penalty not to exceed $1,000 (depending on the severity of the violation) for each day the violation remains un-remedied after receipt of the notice of violation.

G. Criminal Penalties.

For intentional and flagrant violations of this ordinance, the City of Oakwood through its police department may issue a citation to the alleged violator requiring such person to appear in the Municipal Court for the City of Oakwood to answer charges for such violation. Upon conviction, such person shall be punished by a fine not to exceed $500.00 or imprisonment for 90 days or both for each violation. Each act of violation and each day upon which any violation shall occur shall constitute a separate offense.

H. Violations Deemed a Public Nuisance.

In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this ordinance is a threat to public health, safety, welfare and environment and is declared and deemed a nuisance and may be abated by injunctive or other equitable relief as provided by law.

I. Remedies Not Exclusive.

The remedies listed in this ordinance are not exclusive of any other remedies available under any applicable federal, state or local law and the City of Oakwood may seek cumulative remedies. Additionally, the City of Oakwood may recover attorney's fees, court costs and other expenses associated with enforcement of this ordinance including sampling and monitoring expenses.

Section 801. Applicability.

The provisions of this ordinance shall apply throughout the corporate limits of the City of Oakwood.

Section 802. Compatability with Other Regulations.

This ordinance is not intended to modify or repeal any other ordinance, rule, regulation or other provision of law. The requirements of this ordinance are in addition

to the requirements of any other ordinance, rule, regulation or other provision of law and where any provision of this ordinance imposes restrictions different from those imposed by any other ordinance, rule, regulation or other provision of law whichever provision is more restrictive or imposes higher protective standards for human health or the environment shall control.

Section 803. Severability.

If the provisions of any section, subsection, paragraph, subdivision or clause of this ordinance shall be adjudged invalid by a court of competent jurisdiction, such judgment shall not affect or invalidate the remainder of any section, subsection, paragraph, subdivision or clause of this ordinance.

Section 804. Responsibility for Administration.

The City Manager or his designee shall administer, implement and enforce the provisions of this ordinance.

Section 805. Effective date.

This ordinance shall be effective immediately upon approval by the City Council for the City of Oakwood.

City Of
OAKWOOD

H. LAMAR SCROGGS
MAYOR

RON McFARLAND
MONTIE ROBINSON, SR.
SAM EVANS
TOM ADAM
MARTHA COLLINS

DONALD T. HUNT
CITY ATTORNEY

STAN BROWN
CITY MANAGER

PATTI J. DOSS-LUNA
ASST. CITY MANAGER

JENNIFER MOON
CITY CLERK

GEORGIA, HALL COUNTY

I, JENNIFER MOON, Clerk of the City of Oakwood, Hall County, Georgia do hereby certify that the attached ordinance which appears of record in the minutes proceedings of the City of Oakwood, Hall County, Georgia known as an Ordinance No. 431 entitled "Illicit discharge & Illegal Connection" was passed on the 11th day of July 2005 same is true and correct copy of said ordinance.

WITNESS, my official signature and seal of the City of Oakwood, Hall County, Georgia on the 12th day of July 2005.

Jennifer Moon
City Clerk
City of Oakwood, Georgia

Post Office Box 99
4035 Walnut Circle
Oakwood, Georgia 30566

770-534-2365
Fax: 770-297-3223

Oakwood Stormwater

Impaired Streams

Outfalls

Pond Designed Prior To Dec. 9, 2008

No

Yes

Streams

Streets

Parcels

City Limits

Oakwood

Other Cities

CITY OF OAKWOOD

BUILDING THE FUTURE TOGETHER

0 0.125 0.25 0.5 0.75 1 Miles

Date: 2/14/2023

OUTFALL LOCATIONS

Unique_ID	Street_Num	Street_Nam	Street_Des	BASIN
A10306	0	MCEVER	Rd	
B12175	4712	FLAT CREEK	Rd	
B20119	4420	PRESTWICK	Other	
B20122	4436	PRESTWICK	Other	
B20206	0	BRANCH	Rd	
B20424	0	CRESTHILL	Other	
B12604	4510	PRESTWICK	Dr	
D10001	0			
A10069	0	MCEVER	Rd	
A10070	0	MCEVER	Rd	
B12001	2822	FRONTAGE	Rd	
A10320	5059	TIMBER HILLS	Way	
C10306	0	OAKWOOD	Rd	
C10357	0	SKYLINE	St	
C10404	0	LANIER MILL	Rd	
A10323	4810	TIMBER HILL	Other	
A20017	0	RAFE BANKS	Dr	
A20005	0	MCEVER	Rd	
C10808	0	OAKLY	Ave	
A20010	0	RAFE BANKS	Dr	
A20129	5659	SOUTHFIELD	Dr	
C10900	0	MUNDY MILL	Rd	
A10018	0	MCEVER	Rd	
A10241	0	OLD OAKWOOD	Rd	
C10453	0	MUNDY MILL	Rd	
C10458	0	LANIER MILL	St	
A10379	0	CREEKVIEW	Trl	
A10384	0	CREEKSIDE	Pl	
A10386	0	CREEKSIDE	Pl	
A10374	0	CREEK SIDE	Pl	
A10346	0	TIMBER HILLS	Way	
C10580	0	FRONTAGE	Rd	
B12118	3704	OLD OAKWOOD	Rd	
B12137	4781	CRAWFORD OAKS	Dr	
B12280	5405	RAFE BANKS	Dr	
A20065	5350	MCEVER	Rd	
A20098	0	HF REED IND	Pkwy	
A20076	5362	NCEVER	Rd	
B20349	0	MUNDY MILL	Rd	
B20350	0	MUNDY MILL	Rd	
C10893	0	HUDSON	Dr	
C10901	4757	CRAWFORD OAKS	Dr	
B20136	0	SMITHSON	Blvd	
B20141	0	SMITHSON	Blvd	
B20175	0	LANIER	Pkwy	
B20189	0	BLACK SHEAR CHURCH	Dr	
A10334	4727	POPLAR RIDGE	Ct	
A10068	0	MCEVER	Rd	
A10309	0	MCEVER	Rd	
C10175	0	PEBBLE CREEK	Other	
A10243	0	OLD OAKWOOD	Rd	
	0	ENTERPRISE	Way	
B12398	4535	CANDLESTICK	Ln	
B12166	5004	MCEVER	Rd	
B12612	4455	PRESTWICK	Dr	
B20428	0	HILLCREST	Dr	
B20431	0	HILLCREST	Dr	
B20494	0	CEDAR RIDGE	Dr	
B20087	0	THURMOND TANNER	Pkwy	
B20112	0	CHAMBLEE	Rd	
B20330	0	MUNDY MILL	Rd	

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PLAN

City of Oakwood, Georgia

As a part of the City of Oakwood's Stormwater Management Program, the City must implement a screening program to help identify and eliminate illicit discharges or illegal connection to the City's stormwater management system. Illicit discharges include both non-stormwater and contaminated and/or sediment-laden stormwater discharges to the City system. Contaminated stormwater discharges may include stormwater runoff carrying sewerage, oils/greases, sediments, pesticides, etc. as such levels that are detrimental to human health, wildlife, and aquatic life.

The City has elected to perform outfall screenings to help identify potential illicit discharges. Screening for illegal connections will take place during dry weather conditions to identify the presence of illicit flows. The City will follow up on reports of contaminated and/or sediment-laden stormwater discharges and potential illicit connections immediately after they are reported.

The initial screening will evaluate all outfalls within the City. Once the initial screening is complete, on-going monitoring will be performed based on a rotational schedule in commercial and industrial areas, as well as, those outfalls that were determined to be locations of potential illegal/illicit discharge connections, or in response to public problem/complaint reporting. Screening will include:

1. Checking the observed discharge for color, turbidity, oil sheen, and odor:
2. Measuring the pH, temperature, and conductivity in the discharge:
3. Sampling the flow for fluoride, detergents/surfactants, and fecal coliform if any of the in-situ measurements indicate presence of a potential illicit connection.

OVERVIEW

Illicit discharges are defined as any un-permitted, non-stormwater or contaminated and/or sediment-laden stormwater discharge to the MS4. One of the goals of the NPDES MS4 monitoring program is to identify any existing illicit discharges in order that they may ultimately be eliminated. This screening program is two-fold:

- Dry weather screening is performed to identify potential illegal connections at individual outfalls, or at points in the drainage system where several outfalls are combined, and
- Residents are encouraged to report any potential observed contaminated and/or sediment-laden stormwater runoff such as heavy siltation or sanitary sewer overflows. If a report of contaminated and/or sediment-laden stormwater is made, the City will immediately dispatch a technician to the area to observe the flow and take samples.

Outfall

Outfall Selection Criteria

Another requirement of the City's NPDES program is to complete a stormwater management system inventory. An initial outfall screening will occur simultaneously with the mapping effort, ensuring that all outfalls are inspected. After the initial screening, a rotational schedule will be established, focusing on the industrial and commercial areas where the potential for illicit discharge is much greater. The rotational

schedule will ensure that all outfalls in high priority areas are inspected at least once a year during dry weather conditions.

The following steps will be used to prioritize stormwater outfalls within the City of Oakwood dry weather screening of potential illicit connections:

1. Review records of previously screened outfalls to identify any subset of outfalls that have previously, and consistently, had illicit dry weather flows
2. Identify and new outfalls, or outfalls not previously screened, or outfalls identified by documented complaints
3. Identify outfalls that have significant industrial land use or discharge to streams with water quality concerns without obvious point sources
4. Rank previously screened outfalls by years since last screening
5. Prioritize the set of outfalls for yearly screening by adding the number of problem outfalls to the number of previously unscreened outfalls

For areas where many outfalls are suspected, stream walks may be elected to be performed. The extent of stream to be walked will depend on the following:

- Finding suspected illicit discharges when reported
- Surrounding environs of the stream
- Number of outfalls near stream
- Details needing more explanation as it pertains to stormwater mapping
- Weather
- Safety of conditions

Inspection Procedures

All stormwater outfalls will be inspected during dry weather conditions. Dry weather conditions are defined as having a rainfall of less the 0.1 inches per day for at least 72 hours. Prior to any sampling visit, check local rain gages to ensure that the conditions are appropriate for dry weather in-situ sampling.

Before leaving for field sampling, the field team will perform health/safety checks and gather and check all of the necessary equipment for field sampling. At this time, the team will perform the pre-calibration of field meters (the pH meter and the conductivity meter). The field team will be responsible for the following sampling and data collection activities in the field:

- Making field observation (odor, color, record "no flow" if appropriate, etc.)
- Measuring conductivity, pH, fluoride, and temperature at each of the outfalls with flow
- Collecting grab samples for each of identified outfalls with flow

The standard City of Oakwood Illicit Discharge Detection Checklist, included at the end of this document, will be used for all inspections. Information recorded on those forms will include the following details for each location:

- Sampling information including location, sampling dates and times, sampler names, sample identification numbers, and sample observations (i.e., color, odor, oil sheen, turbidity, etc.)
- Results of water quality measurements performed in the field, such as pH, temperature, fluoride, and conductivity
- Results of duplicate analyses on field measurements

- Weather observations

For purposes of dry weather screening for illicit connections, it is important to note that a sampling location determined to have "no flow" is as valid a result as a location where flow is observed. If no flow is observed during the outfall screening, the result will be recorded as "no observed dry weather flow." If dry weather flow is observed, visual observations will be recorded for the following:

- Flow depth
- Sheen
- Color
- Odors
- Floatable
- Surfactant-type bubbling

Also, if dry weather flow is observed, or a citizen or agency reports a suspected illicit discharge, on-site field equipment and test kits will used to identify any suspicious constituents in the water. Portable meters will be used to measure pH, temperature, and conductivity. Affordable, compact and easy-to-use field test kits with appropriate test strips/test discs will be used to detect the presence of fluoride in the water. The manufacturer's instructions will be followed when using these test kits.

If the results from the field tests indicate the potential presence of an illicit discharge, per table 1, additional samples will be taken and sent to a laboratory for further analysis. Grab samples will be taken using the procedures listed in the following section and analyzed for fluoride, surfactants, and fecal coliform. (Note: fecal coliform holding time is 6 hours.)

If flow is observed, but no illicit discharge is suspected based on the parameters tested, the result will be recorded on the inspection form as "no illicit discharge".

Table 1 Parameters to be Sampled and Explanation

Parameter	Explanation
pH	The normal pH range for stormwater is between 6-8.5, with a few excursions down to 5.5. A higher or lower range indicates the presence of either acid or base contamination.
Temperature	The normal temperature will be ambient (not exceed 32° C/90° F). A higher temperature might indicate a presence of steam condensate.
Conductivity	Good quality stormwater will have a low conductivity (under 300 mho/cm.) A high conductivity indicates high dissolved solids content in the water, perhaps from an illicit connection or cross contamination with sanitary wastewater.
Fluoride	There will no traces of fluoride in the stormwater. Presence might indicate a cross connection with potable water.

SAMPLE COLLECTION

Grab Sample Collection

A manual grab sample will be taken of dry weather flow at outfall locations where there is a potential for illicit discharge based on a reported complaint or where pollutant concentrations identified from field tests indicate a potential presence. This is accomplished by inserting a container (either plastic or glass depending on the parameter – see Table 2) under or down current of a discharge with the container

opening facing upstream. In most cases, the sample container itself will be used to collect the sample. Less accessible outfalls will require the use of poles and buckets to collect the grab sample. To ensure that the manual grab samples are representative, the following procedures will be followed. If phenols, surfactants, or fecal coliform is suspected, adhere to proper sampling protocol.

- Label sample containers before the sampling event.
- Take a cooler with ice to the sampling point.
- Take the grab from the horizontal and vertical center of the outfall.
- Avoid touching the inside of the container to prevent contamination (e.g., sterile and sealed bacteriological bottles will be used to sample fecal coliform).
- Keep the sample free from uncharacteristic floating debris.
- Transfer samples into proper containers (e.g., from bucket to sample container). However, fecal coliform and phenols will remain in the original containers.
- Deep samples separate and labeled clearly.

All of the equipment and containers that come into contact with the sample will be cleaned between sites in order to avoid contamination. Additionally, sample collection equipment and container materials will be totally non-reactive to prevent leaching of pollutants. Proper cleaning procedures will be followed in an effort to achieve clean-catch grab sampling.

Sample Handling

The grab sample bottle type, preservation requirements, and holding time requirement for those parameters being tested are listed in Table 2. Proper preservation and maintenance of the holding times for each parameter is essential for the integrity of the monitoring program. The preservation techniques required for screening the parameters is cooling the samples to 40° C and pH adjustment to <2. Fecal coliform has a short holding time of six hours and must be returned to the lab for analysis within this time or the results may be unrepresentative of the outfall.

A sample numbering system will be used to ensure that each sample is uniquely identified in the field and tracked on field data collection forms. The sample numbering will be as follows:

###-MMDDYY-HH:MM
= A unique number for each sample location
MMDDYY = Month, Day Year
JJ:MM = Time in military units

All of the samples collected at the site will be placed in the appropriate sample containers for preservation and shipment to the designated laboratory. Each sample will be identified with a separate identification label. A waterproof, gummed label will be attached to each sampling container. Information to be recorded on the label will include the following:

1. Site name
2. Sample number
3. Analysis to be performed
4. Preservation used and any other field preparation of the sample
5. Date and time of collection
6. Initials of field crew collecting the sample

Table 2 Modified Handling Requirements for Samples

Parameter	Container Type 1	Sample Volume (g)	Sample Preservation	Maximum Holding Time
Field Measurements				
pH	P, G	N/A	none	Analyze in field
Conductivity	P, G	N/A	none	Analyze in field
Temperature	P, G	N/A	none	Analyze in field
Surfactants (detergents)	P	500 ml	Cool, 4° C	48 hours
Fluoride	P, G	500 ml	none	28 days
Total Coliform 2	P	100 ml	Cool, 4° C	6 hours

1. Polyethylene (P) or Glass (G)
2. De-chlorinate the sample with sodium thiosulphate, and cool to < 4° C, Add 1 ml if 10 percent sodium thiosulphate solution to 100 ml sample. This amount is sufficient to treat a sample containing 15mg/L of residual chlorine.

Analytical Laboratory Coordination and Sample Delivery

The samples will be packed in coolers with ice (or ice packs) to ensure they maintain the required temperature of less than or equal to 4° C during transport to the designated laboratory. Contact the laboratory prior to sampling to assure that the samples will be analyzed within their holding time. Samples may be placed in individual one-gallon re-sealable bags as a precaution to avoid spilling the way to the lab. These samples may be placed in a large trash bag inside a cooler (to ensure against the sample leaking) with ice completely covering the samples.

A chain-of-custody (COC) from will accompany all samples. The purpose of the COC form is to provide a mechanism for tracking each sample submitted for laboratory analysis. The information on the COC form must be identical to the information of the sample label. A COC form will be prepared by the sample collector for each set of samples submitted for laboratory analysis. The form will be placed in a re-sealable bag (to keep the form dry) and sealed inside each sample cooler. When transferring possession of the samples, the individual relinquishing and receiving samples will sign, date, and note the time on the COC form. This record documents the transfer of custody from the sampler to another person, to/from a secure storage area, and to the laboratory. Copies of the COC forms will be kept in the files.

QUALITY ASSURANCE/QUALITY CONTROL

This section describes the elements of the field quality assurance quality control (QA/QC) program. The overall QA/QC objective for the sampling program is to ensure that the sampling data collected are of good quality.

Field QA/QC

The field equipment will be calibrated appropriately prior to leaving for the sampling site to ensure proper performance of the equipment. This includes the pH meter, conductivity meter, and thermometer. The pH meter will be calibrated using two buffers that bracket the expected pH range (typically 4 and 7). The conductivity meter is calibrated by rotating the probe below the surface in a standard potassium chloride solution in a circular motion. The readings must be within 10 percent to be acceptable. The thermometers used will be accurate to +58C.

If the sample is suspect, field blanks will be incorporated into the procedures. Quality control blanks will be used in the field to determine potential sample contamination during sample collection, handling,

shipment, storage, or laboratory handling an analysis. Reagent grade water will be used for the quality control blanks.

Laboratory QA/QC

The laboratories will follow the Georgia Environmental Protection Division (GaEPD) approved methods, and routinely perform quality control checks during laboratory analysis, including calibration standards, blanks and laboratory control samples.

DATA MANAGEMENT AND ANALYSIS

The laboratory will conduct quality assurance reviews for all analytical data. The data reported to the GaEPD under the illicit discharge detection program will be limited to useable data that has passed all data quality objectives.

Analytical reports will be prepared and submitted in compliance with the requirements of the quality assurance project plan. The laboratory report will contain the following information:

- Project identification
- Field sample number(s)
- Laboratory sample number(s)
- Sample matrix description
- Date and time of sample collection
- Analytical method number
- Individual parameter results
- Date and time of analysis
- Detection limits achieved
- Precision, accuracy, and completeness data for each parameter
- Identification of problem conditions and corrective measure (if applicable)
- The laboratory quality assurance officer, as part of the validation process, confirms that documentation is complete and legible; qualitative identification are accurate; calculations are accurate; results are expressed in the appropriate units and number of significant figures; and the required quality control checks were run and met acceptance criteria.

SOURCE IDENTIFICATION

Any time dry weather flow is observed at an outfall, the flow will be followed from the location where it is first observed in an upstream direction along the conveyance system. For below ground systems, flow will be followed upstream from the outfall to the next manhole with a junction. The upstream assessment will be performed as far as possible to reasonably minimize the potential sources.

If the source cannot be directly traced (e.g. it disappears between manholes; the pipe, network, or channel terminates, etc.) field staff will inspect the contributing area draining to the last outfall observed with dry weather flow and record land use, type of operation, and/or any relevant information. Specific areas to include in the upstream inspection include:

- Gutters, catch-basins, and streets – Check and gutters between manholes for evidence of flows such as runoff from steam-cleaning operations, car washing, irrigation runoff, etc.
- Parking lots, garages, and behind buildings and warehouses – Check these areas for evidence of dumping, such as wet or stained pavement.

If initially unable to locate the source of flow through field inspection, alternate sources will be considered, such as illegal industrial connections or new illicit connections to the system.

Industrial facilities in the drainage area will be identified and a facility inspection performed. During inspection, the following methods can be used to assess illegal connections:

- Water Discharges. This involves discharging water from a potential source and noting the location of the downstream discharge to establish a hydraulic connection between the source and the discharge connection.
- Dye Testing. Dye testing can also be conducted to confirm hydraulic connections. This involves discharging fluorescent dye at the source of a potential illegal connection

If a sanitary sewer connection is suspected, recent construction activities in the drainage area will be identified. Field crews will look for areas in the road that have been dug up and re-paved. The City of Oakwood stormwater coordinator will also coordinate with the City wastewater department to note any recent work that may have been performed in the area.

ENFORCEMENT AND FOLLOW UP

Once the source of an illicit discharge has been determined, the procedure for enforcement will be as follows:

- Stormwater Coordinator (or other qualified personnel) will identify the properties that discharge to a given outfall where potential illicit discharge has been identified by walking the outfall pipe to identify its source(s).These facilities will be immediately inspected to identify the source of the potential discharge. Dye tests may be utilized in facility floor or other sanitary drains to ensure they are not illegally connected to the stormwater management system.
- If a problem is identified during the inspection, the owner of property will be given immediate verbal notice followed up by a letter stating the demand of immediate disconnection of said discharge. A written letter of violation will be issued within 24 hours of the problem identification.
- Stormwater Department will cc: the Police Department to communicate details of the situation in case compliance is not met within a two-week time period.
- If compliance is not met, the Stormwater office will request that the Police issue citations and coordinate further legal action depending on the nature of the case. Fines will be based on penalties section of the stormwater ordinance, i.e. not to exceed $1,000.00, 60 days in jail, or both, and will come under the authority of the Municipal Court if prosecution is necessary.

Verification of Elimination

The office of Stormwater Management will verify compliance of illicit discharge elimination by follow up with property owner, deadline dates, and final inspection with photographic evidence of elimination. If compliance is insufficient (or unsatisfactory), Stormwater Management office will schedule a follow-up inspection date.

NPDES ANNUAL REPORTING

Any illicit connections identified and corrected are an indication of program effectiveness. All data collected for this program will be summarized for annual reporting purposes including:

- Number of outfalls identified with potential illicit connections
- Number of illicit connections identified
- Number of violations issued
- Number of illicit connections corrected

The Data Tracking Form included in these procedures will be filled out monthly to compile all data collected. This form will be submitted with the City's annual NPDES compliance report.

Dry Weather Outfall Screening Form	
Name of City or County:	**Data Sheet Number:**
Date of screening (MM/DD/YY):	Time of screening:
Weather conditions:	
Sampling performed by:	

Outfall Description	
Outfall Location:	Outfall I.D. Number:
Outfall Type/Material: ❒ Closed Pipe (circle): RCP CMP PVC HDPE Other: _____ ❒ Open Channel (circle): Concrete Earthen Grassy Other: _____	Outfall Diameter/Dimensions:
Receiving stream and watershed name:	
Land use/industries in drainage area:	
GPS Coordinates:	Photo numbers:

Field Observations and Measurements
Flow from outfall? ❒ Yes ❒ No Flow Description: ❒ Trickle ❒ Moderate ❒ Substantial
Odor: ❒ None ❒ Sewage ❒ Sulfide (rotten eggs) ❒ Petroleum/gas ❒ Rancid/sour ❒ Other _____ Relative severity: ❒ 0-None ❒ 1-Faint ❒ 2-Easily Detected ❒ 3-Noticable from a distance
Color: ❒ Clear ❒ White ❒ Gray ❒ Orange/Rust ❒ Red ❒ Yellow ❒ Green ❒ Brown/Black ❒ Other Relative severity: ❒ 0-None ❒ 1-Faint ❒ 2-Clearly visible in bottle ❒ 3-Clearly visible in flow _____
Turbidity: ❒ None ❒ Cloudy ❒ Opaque ❒ Silty ❒ Muddy ❒ Other _____ Relative severity: ❒ 0-None ❒ 1-Slight cloudiness ❒ 2-Cloudy ❒ 3-Opaque
Floatables: ❒ None ❒ Sewage ❒ Petroleum (oil sheen) ❒ Suds ❒ Other _____ Relative severity: ❒ 0-None ❒ 1-Few/slight ❒ 2-Some ❒ 3-Heavy
Flow Temperature (°C):
Flow pH: pH meter calibrated? ❒ Yes ❒ No
Flow Conductivity (µmho/cm): Conductivity meter calibrated? ❒ Yes ❒ No

Water Quality Sampling			
Field Test Kit Manufacturer:		Model:	
Fluoride (mg/L):		**Fecal Coliform (MPN/100ml):**	
Surfactants (mg/L):		**Analysis Comments:**	
Grab sample for lab? (fluoride/surfactants) ❒ Yes ❒ No		Bacteria Grab sample for lab? (fecal coliform) ❒ Yes ❒ No	
Grab Sample ID:		Bacteria Grab Sample ID:	

Outfall Potential for Illicit Discharge:

❒ Unlikely - or- No Flow ❒ Possible (presence of two or more indicators)

❒ Suspect (one or more indicators with severity of 2 or 3) ❒ Obvious - or- Confirmed

NOTE: Water quality sampling (using a field test kit and/or grab samples) is required for a dry weather flow that meets any of the following criteria: Visible sewage or sewage odor; physical indicator of potential illicit discharge (color, odor, turbidity or floatables); pH lower than 6.5 or higher than 7.5; or specific conductivity greater than 300 µmho/cm.

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

City of Oakwood
P.O. Box 99
4035 Walnut Circle
Oakwood GA 30566
770-534-2365

SECTION A: FACILITY DESCRIPTION

Business Name: _____ Phone: _____

Address: _____

Description of Business: _____

Owner/Operator: _____ Title_____ Phone: _____

Inspector: _____ Title_____ Phone: _____

Inspection Date: _____ Time: _____ Initial or Follow-up Inspection: _____

SECTION B: SITE SCREENING CHECKLIST

	VIOLATION	YES	NO	DESCRIPTION
1.	SPILLS OR STAINS PRESENT			
2.	GREASE			
3.	SUSPICIOUS DISCHARGE			
4.	OPEN, UNMARKED AND/OR LEAKING CONTAINERS OF HAZARDOUS MATERIAL			
5.	LITTER			
6.	POTENTIAL SEWAGE DISCHARGE			
7.	ILLEGAL DUMPING			
8.	STORMWATER STRUCTURE REQUIRES MAINTENANCE.			
9.	FAILURE TO SHOW ISW PERMIT AND/OR SWPPP (IF ELIGIBLE)			
10.	OTHER			

Notes: _____

_____

_____

_____

Signature of owner/operator indicating receipt of completed inspection form.

ATCH 5

Stormwater Management

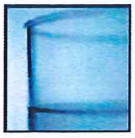


In 2003, the City of Oakwood responded to an environmental mandate from Georgia's Environmental Protection Division (EPD) to develop a comprehensive stormwater management program to protect water quality in the state's waterways. This required program was necessary to comply with the National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Permit regulations of the federal Environmental Protection Agency.

It is the mission of the City of Oakwood Stormwater Management Program to:

- Protect the health and safety of both the public and the environment;
- Address both stormwater quality and stormwater quantity concerns, and,
- Meet or exceed Federal and state mandates regarding stormwater.

What is stormwater pollution? Stormwater is the runoff that comes from parking lots, roads and rooftops and flows into our storm drains and streams during and/or immediately after a rainstorm. Stormwater carries nutrient laden sediment, heavy metals, oils, and other materials which have accumulated on the land between rain events and flushes them into streams, rivers, and lakes carrying silt, debris, fertilizer and other pollutants with it. Since stormwater runoff is untreated, pollutants end up in our lakes and other water resources.



Stormwater pollution can impact our drinking water sources, cause adverse impacts to habitat for fish, macroinvertebrates and wildlife, and pose a threat to humans due to the presence of elevated fecal coliform levels. In addition to adding pollutants to stormwater, urban development increases the amount and velocity of runoff that occurs, so that downstream properties are flooded, channels and streams become eroded over time, and natural beauty and habitat are lost. Uncontrolled stormwater pollution affects the way a stream or other water body looks and smells, making it unpleasant to be near. This can impact the quality of life for everyone living in and around a community.



Sources of Stormwater Pollution - There are many different types and sources of stormwater pollution. Examples include:

- **Commercial businesses** that are retail oriented or perform services for customers. Examples include auto service shops, gas stations, restaurants and lawn care services. Motor oil, antifreeze, oil filters and cleaners can all be potentially harmful to the environment if not recycled. Oil and grease contain hydrocarbon

compounds, some of which can injure or kill aquatic life even at low concentrations.

- **Industrial facilities** that are engaged in manufacturing, production, transportation and/or construction-related activities. Waste generated at an industrial site, when exposed to rain or outdoor watering, can wash into rivers, streams and lakes.

- **Residential areas and neighborhoods** can significantly impact rivers, lakes and streams due to improper disposal of yard clippings, fertilizer, pesticides, and herbicides as well as vehicle washing on impervious surfaces that result in the runoff of soapy water and other cleaning chemicals down the street into a storm drain and the nearest stream. Household hazardous wastes in and around a home can cause harm to family members and pets and can also be toxic to local wildlife and fish. Dog waste can be especially problematic and known to contaminate nearby streams, rivers and lakes with unhealthy levels of bacteria

- **Institutions** such as schools, universities, hospitals, churches and government facilities can cause water pollution in the same way that businesses and residents can generate it. The types of waste are similar to that of any home or work environment and if not disposed of or managed properly can cause adverse effects on the environment.

Preventing Stormwater Problems

City of Oakwood is involved in a number of activities designed to educate local school children, residents, business owners and operators as well as municipal employees on the importance of preventing stormwater runoff. Example projects are listed below.

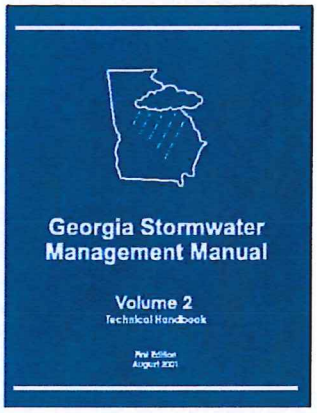
Elachee Nature Center - Elachee Nature Science Center, one of the premier nature centers in Georgia, provides environmental education programs in the form of school field trips for students and also as workshops, camps, and events for the general public. The Nature Science Center serves over 35,000 students from more than 35 school systems and an additional 50,000 visitors to the museum and preserve each year. Located in the 1,500-acre Chicopee Woods Nature Preserve in North Georgia, Elachee is celebrating more than 28 years of building environmental literacy for Georgians through quality educational experiences, museum exhibitions, special programs, and resources for schools and the general public. For more information on the many activities at the Center, visit http://www.elachee.org.





City Employee Training Program – City managers and staff are committed to ensuring that all public facilities and operations employ pollution prevention practices to prevent polluted stormwater runoff. City of Oakwood recently completed a compliance survey that identified additional measures to be taken to further eliminate potential sources of pollution from all City facilities and operations.

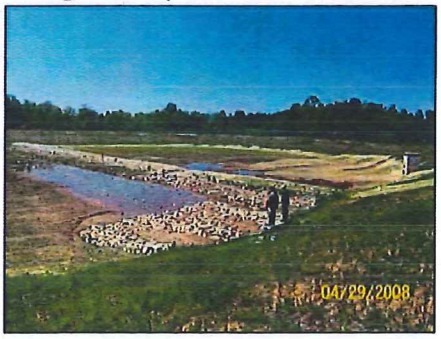
Development Services - New commercial and residential development is occurring in the City of Oakwood. All construction activities in the City are required to prevent polluted stormwater runoff during construction and to utilize various structural and/or vegetative approaches to control and treat large volumes of stormwater runoff after construction is complete. Design engineers and contractors must utilize the Georgia Stormwater Management Manual in addition to other required technical regulations and best management practices to prevent polluted stormwater runoff from new development both during and after construction.



Improving Water Quality

Dry Weather Outfall Screening Program – City of Oakwood conducts field inspections of outfalls located throughout the City to identify and eliminate suspicious discharges that could impact stream and lake biota. Examples of potential problem discharges include: oil, soapy water, grease, and sediment. Once identified, all illicit discharges are eliminated as soon as possible through education and enforcement activities, if needed.

Business Inspection Program - In 2008, the City will initiated a Business Education and Inspection Program designed to encourage owners and operators of local businesses and industries utilize best management practices to eliminate polluted stormwater runoff from their sites. Pollutants of greatest concern are: grease, oil, soap, sediment and trash.



Inspection, Operations and Maintenance Program – The City actively inspects both public and private storm sewer systems and facilities, such as detention ponds to ensure they function as designed to reduce stormwater velocity and improve the quality of stormwater entering local streams and

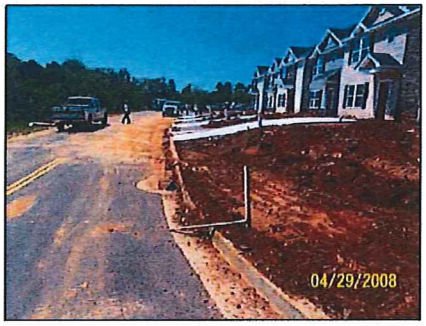
lakes. Owners of private detention ponds are responsible for maintaining their storm sewer system and stormwater management facilities which may include ponds, ditches, pipes, inlets, catch basins, etc.

How You Can Help

Pollution Prevention at Home – City residents can help protect local streams and lakes by following the simple practices listed below.

- *Never dump anything down a storm drain or drainage ditch.*
- *Recycle motor oil and other vehicle fluids.*
- *Throw litter in its place.*
- *Clean up after your pet.*
- *Check your vehicles for leaks (repair them!)*
- *Reduce the amount of household hazardous wastes generated at home.*
- *Compost yard clippings.*
- *Use fertilizer and pesticide only when needed. (Read the label!)*
- *If you wash your vehicle at home, do so on the lawn rather than on pavement.*
- *Tell a friend or neighbor about how to prevent stormwater pollution and get involved in your community.*

Report a Problem



To report a stormwater problem, such as: illegal dumping; suspicious discharge; muddy runoff; clogged drainage structures; flooding; and/or structure repairs, please contact:

Joe Hayes
Code Enforcement Officer
770-534-2365
jhayes@cityofoakwood.net

All reported problems will be addressed during the hours of: 8:00 am - 4:00 pm Monday Through Friday. Please call 911 to report immediate emergencies.

Additional Resources

- **Metropolitan North Georgia Water Planning District**
  http://www.northgeorgiawater.com/
- **Center for Watershed Protection**
  http://www.cwp.org/

- **Stormcenter**
  http://www.stormwatercenter.net/
- **Stormwater Outreach Materials**
  http://cfpub.epa.gov/npdes/stormwatermonth.cfm
- **Low Impact Development Center**
  http://www.lowimpactdevelopment.org/
- **Environmental Compliance for Auto Recyclers**
  http://www.epa.gov/npdes/pubs/ecar_center_announcement.pdf
- **Georgia Stormwater Management Manual**
  http://www.georgiastormwater.com/
- **American Rivers**
  http://www.americanrivers.org/site/PageServer



Kids Corner

Check out these great links to find streams in your community, games, experiments and more!

- **Surf Your Watershed**
  http://www.epa.gov/surf/
- **Non-point Source Pollution Kids Page**
  http://www.epa.gov/OWOW/NPS/kids/index.html
- **Environmental Kids Club**
  http://www.epa.gov/kids/
- **Clean Water Campaign**
  http://www.cleanwatercampaign.com/kids/index.html
- **Kid's Playhouse**
  http://www.stormwatercoalition.org/html/playhouse/index.html
- **Stormwater Quality Lesson Plans and Activities**
  http://www.stormwatercoalition.org/html/et/index.html

- **Make a Water Filter**
  http://pbskids.org/zoom/activities/sci/waterfilter.html
- **Droplet and the Water Cycle**
  http://kids.mtpe.hq.nasa.gov/droplet.html
- **Concentration Game**
  http://www.lbstormwater.org/kidz/concentration/index.html
- **Center for Watershed Protection**
  http://www.cwp.org/whats_a_watershed.htm
- **Sacramento California Stormwater Kid's Page**
  http://www.sacstormwater.org/fun/kids.htm
- **USGS Water Science for schools**
  http://ga.water.usgs.gov/edu/index.html
- **The Water Guardian Chopper Ride**
  http://www.stormwatersmart.org/chopper/chopper.html

Thank you for helping protect the City of Oakwood's critical water resources!

Attachment 6
IDDE COMPLAINT RESPONSE PROCEDURES

1. When a complaint is received, it is documented, tracked and addressed in accordance with the attached City of Oakwood Customer Service Request Program Standard Operating Policy and Procedures (CSR).

2. City Staff will investigate the complaint and document findings in accordance with the IDDE plan (see Attachment 4).

3. When it is deemed that the person has failed to comply with the provisions of the Illicit Discharge and Illegal Connection Ordinance (see Attachment 2), a written notice to comply (see attached notice) shall be served on that person. The notice shall set forth the necessary measures to achieve compliance with the plan and shall state the time within which such measures must be completed.

4. If the person fails to comply within the timeframe specified in the written notice, he shall be deemed in violation of City Code and will be subject to the enforcement provisions of the Code, the IDDE Plan, and the Enforcement Response Plan (see Appendix A).

5. City will track the complaint in accordance with the CSR SOP until the complaint is closed out.

6. In accordance with the CSR SOP, upon closeout, the complainant is notified of the action taken.

CITY OF OAKWOOD
STANDARD OPERATING POLICIES AND PROCEDURES

POLICY NUMBER: GA-002

TITLE: Customer Service Request Program

DATE: September 20, 2012

PURPOSE:

The purpose of the within standard operating policies and procedures is to provide written guidelines for receiving and addressing requests for City services. Any requests for variations or exceptions should be submitted in writing and approved by City management.

POLICIES AND PROCEDURES:

1. Requestor completes Section I and II of the Customer Service Request (CSR) and forwards it to the City Clerk. For all requests related to private property, the customer must sign the request.

2. City Clerk logs in the CSR (files the request by date in the CSR Notebook under the "Pending" Tab and updates the CSR log sheet) and forwards the CSR to the City Manager (or designee) who then completes Section III of the CSR.

3. City Manager (or designee) approves course of action, and assigns the task to the appropriate staff.

4. Staff communicates with the requestor when appropriate, takes action, completes Section IV of the CSR, and returns it to the City Clerk.

5. City Clerk files the completed CSR by request date in the CSR Notebook under the "Completed" Tab and updates the CSR log sheet. The CSR copy filed in the "Pending" Tab is removed and discarded.

6. City Clerk notifies the requestor of action taken.

7. City Clerk distributes the CSR log sheet of all open items to the City Manager and Department Directors at the end of each month.

Approved by: _____ Date: 9/20/12

Stan Brown, City Manager
City of Oakwood, Georgia

CITY OF OAKWOOD

BUILDING THE FUTURE TOGETHER

Customer Service Request

I. Requestor Information

Name: _____ **Phone:** _____

Address: _____

City/State/Zip: _____

Email: _____

Requestor Signature: _____ **Date:** _____

II. Description of Request (___Attachments Included)

_____

_____

_____

III. Staff Assessment (___Attachments Included) **Received By**_____

___ **Emergency (Immediate)** ___ **Urgent (within 48 hrs)** ___ **Routine (scheduled work)**

_____

_____

Work Approved By: _____ **Date:** _____

Assigned to: _____

IV. Action Taken (___Attachments Included)

_____

_____

Action Completed By: _____**Date:** _____

Please complete Section I & II and forward the request to the City Clerk
Fax # 770-297-3223, or City of Oakwood, P.O. Box 99, Oakwood, GA 30566

Customer Service Request Procedure

1. **Requestor completes Section I and II of the Customer Service Request (CSR) and forwards it to the City Clerk. <u>For all requests related to private property, the customer must sign the request.</u>**

2. **City Clerk logs in the CSR (files the request by date in the CSR Notebook under the "Pending" Tab and updates the CSR log sheet) and forwards the CSR to the City Manager (or designee) who then completes Section III of the CSR.**

3. **City Manager (or designee) approves course of action, and assigns the task to the appropriate staff.**

4. **Staff communicates with the requestor as appropriate, takes action, completes Section IV of the CSR, and returns it to the City Clerk.**

5. **City Clerk files the completed CSR by request date in the CSR Notebook under the "Completed" Tab and updates the CSR log sheet. The CSR copy filed in the "Pending" Tab is removed and discarded.**

6. **City Clerk notifies the requestor of the action taken.**

7. **City Clerk distributes the CSR log sheet of all open items to the City Manager and Department Directors at the end of each month.**

Please complete Section I & II and forward the request to the City Clerk
Fax # 770-297-3223, or City of Oakwood, P.O. Box 99, Oakwood, GA 30566

Original

Customer Service Request Log

CSR #	Requestor	Description	Assigned to	Close Out Date	Remarks/Status

NOTICE TO COMPLY

☐ Mailed ☐ Personal Delivery

CITY OF OAKWOOD
P.O. BOX
4035 WALNUT CIRCLE
OAKWOOD, GEORIA 30566
770-534-2365 * FAX 770-297-3223

DATE _____

PROPERTY OWNER _____

ADDRESS OF NON-COMPLIANCE _____

AN APPARENT NON-COMPLIANCE OF OAKWOOD CITY CODES EXISTS ON THE PREMISES AS FOLLOWS:

☐ INOPERABLE VEHICLE
☐ EXTERIOR PREMISES
☐ RUBBISH AND GARBAGE
☐ EXCESSIVE NOISE
☐ EROSION CONTROL
☐ TENANT COMPLAINT
☐ OTHER _____

YOU ARE HEREBY NOTIFIED TO:

☐ CONTACT THE CODE OFFICER NOTED ON THIS NOTICE

☐ OTHER _____

FAILURE ON YOUR PART TO COMPLY WITH THIS NOTICE ON OR BEFORE _____ MAY SUBJECT YOU TO ENFORCEMENT ACTIONS AND PENALITES PRESCRIBED BY LAW.

INVESTIGATOR: _____ PHONE: _____

☐ RECEIPT ACKNOWLEDGED

_____ SIGNATURE

_____ DATE

First Reading: 03/13/2017
Final Reading: 04/10/2017

Ordinance No. 2017-CO-03-748
An Amendment to Section 20-150 (Definitions) of Division I (General) of Article V (Soil Erosion, Sedimentation and Pollution Control) of Chapter 20 (Environment) of the Oakwood City Code

AN AMENDMENT TO SECTION 20-150 (DEFINITIONS) OF DIVISION I (GENERAL) OF ARTICLE V (SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL) OF CHAPTER 20 (ENVIRONMENT) OF THE OAKWOOD CITY CODE BY DELETING SECTION 20-150 IN ITS ENTIRETY AND SUBSTITUTING IN LIEU THEREOF A NEW SECTION 20-150 TO PROVIDE REVISED DEFINITIONS; TO PROVIDE FOR AN EFFECTIVE DATE; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES AND FOR OTHER PURPOSES.

THE CITY COUNCIL OF THE CITY OF OAKWOOD, GEORGIA HEREBY ORDAINS AND IT IS HEREBY ORDAINED BY THE AUTHORITY OF SAME as follows:

-1-

Section 20-150 (Definitions) of Division I (General) of Article V (Soil Erosion, Sedimentation and Pollution Control) of Chapter 20 (Environment) of the Oakwood City Code is hereby amended by deleting "Sec. 20-150 - Definitions" and inserting in lieu thereof the following:

Sec. 20-150. - Definitions.

The following definitions shall apply in the interpretation and enforcement of this article unless otherwise specifically stated:

Best management practices (BMP's) shall include sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the 'Manual for Erosion and

Sediment Control in Georgia' published by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. See O.C.G.A. § 12-7-6(b).

Board means the Board of Natural Resources.

Buffer means the area of land immediately adjacent to the banks of state waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.

Certified personnel mean a person who has successfully completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission.

Commission means the Georgia Soil and Water Conservation Commission (GSWCC).

CPESC means a Certificated Professional in Erosion and Sediment Control with current certification by Envirocert, Inc., which is also referred to as CPESC or CPESC, Inc.

Cut means a portion of land surface or area from which earth has been removed or will be removed by excavation; the depth below original ground surface to excavated surface. The term "cut" is also known as excavation.

Department means the Department of Natural Resources (DNR).

Design professional means a professional licensed by the State of Georgia in the field of engineering, architecture, landscape architecture, forestry, geology or land surveying; or a person that is Certified Professional in Erosion and Sediment Control (CPESC) with a current certification by Envirocert, Inc. Design Professionals shall practice in a manner that complies with applicable Georgia law governing professional licensure.

Director means the director of the Environmental Protection Division (EPD) or an authorized representative.

District means the Hall County Soil and Water Conservation District.

Division means the Environmental Protection Division (EPD) of DNR.

Drainage structure means a device composed of a virtually nonerodible material such as concrete, steel, plastic or other such material that conveys water from one place to another by intercepting the flow and carrying it to a release point for storm water management, drainage control, or flood control purposes.

Erosion means the process by which land surface is worn away by the action of wind, water, ice or gravity.

Erosion and sedimentation control plan means a plan required by the Erosion and Sedimentation Act, O.C.G.A. ch. 12-7 that includes, as a minimum, protections at least as stringent as the state general permit, best management practices and requirements in section 20-172 hereof.

Fill means a portion of land surface to which soil or other solid material has been added; the depth above the original ground surface or an excavation.

Final stabilization means all soil disturbing activities at the site have been completed and that, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscape areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region). Final stabilization applies to each phase of construction.

Finished grade means the final elevation and contour of the ground after cutting or filling and conforming to the proposed design.

Grading means altering the shape of ground surfaces to a predetermined condition; this includes stripping, cutting, filling, stockpiling and shaping or any combination thereof and shall include the land in its cut or filled condition.

Ground elevation means the original elevation of the ground surface prior to cutting or filling.

Land disturbing activity means any activity which may result in soil erosion from water or wind and the movement of sediments into state waters or onto lands within the state, including, but not limited to, clearing, dredging, grading, excavating, transporting, and filling of land, but not including agricultural practices as described in section 20-151(5).

Larger common plan of development or sale means a contiguous area where multiple separate and distinct construction activities are occurring under one plan of development or sale. For the purposes of this definition, the term "plan" means an announcement; piece of documentation such as a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request or computer design or physical demarcation such as boundary signs, lot stakes or surveyor markings indicating that construction activities may occur on a specific plot.

Local issuing authority means the governing authority of any county or municipality which is certified pursuant to O.C.G.A. § 12-7-8(a).

Metropolitan River Protection Act (MRPA) means a state law referenced as O.C.G.A. § 12-5-440 et seq., which addresses environmental and developmental matters in certain metropolitan river corridors and their drainage basins.

Natural ground surface means the ground surface in its original state before any grading, excavation or filling.

Nephelometric turbidity units (NTU) means numerical units of measure based upon photometric analytical techniques for measuring the light scattered by finely divided particles of a substance in suspension. This technique is used to estimate the extent of turbidity in water in which colloidally dispersed particles are present.

NOI means a notice of intent form provided by EPD for coverage under the state general permit.

NOT means a notice of termination form provided by EPD to terminate coverage under the state general permit.

Operator means the party that has:

(1) Operational control of construction project plans and specifications including the ability to make modifications to those plans and specifications or

(2) Day-to-day operational control of those activities that are necessary to ensure compliance with an erosion, sedimentation and pollution control plan for the site or other permit conditions such as a person authorized to direct workers at a site to carry out activities required by erosion., sedimentation and pollution control plan or comply with other permit conditions.

Outfall means the location where storm water in a discernible, confined and discrete conveyance leaves a facility or site or, if there is receiving water on site, becomes a point source discharging into that receiving water.

Permit means the authorization necessary to conduct a land disturbing activity under the provisions of this article.

Person means any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, state agency, municipality or other political subdivision of the State of Georgia, any interstate body or any other legal entity.

Phase or phased means the sub-parts or segments of construction projects where the sub-part or segment is constructed and stabilized prior to completing construction activities on the entire construction site.

Project means the entire proposed development project regardless of the size of the area of land to be disturbed.

Properly designed means designed in accordance with the design requirements and specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the GSWCC as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the Manual as approved by the Commission as of the date of NOI submittal.

Roadway drainage structure means a device such as a bridge, culvert or ditch composed of a virtually nonerodible material such as concrete, steel, plastic or other such material that conveys water under a roadway by intercepting the flow on one side of a traveled roadway consisting of one or more defined lanes, with or without shoulder areas, and carrying water to a release point on the other side.

Sediment means solid material, both organic and inorganic, that is in suspension, is being transported or has been moved from its site of origin by air, water, ice or gravity as a product of erosion.

Sedimentation means the process by which eroded material is transported and deposited by the action of water, wind, ice or gravity.

Soil and water conservation district approved plan means an erosion, sedimentation and pollution control plan approved in writing by the Hall County Soil and Water Conservation District.

Stabilization means the process of establishing an enduring soil cover of vegetation by the installation of temporary or permanent structures for the purpose of reducing to a minimum the erosion process and the resultant transport of sediment by wind, water, ice or gravity.

State general permit means the National Pollution Discharge Elimination System general permit or permits for storm water runoff from construction activities as is now in effect or as may be amended or reissued in the future pursuant to the state's authority to implement the same through federal delegation under the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq., and O.C.G.A. § 12-5-30.

State waters means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the state which are not entirely confined and retained completely upon the property of a single individual, partnership or corporation.

Structural erosion, sedimentation and pollution control practices means practices for the stabilization of erodible or sediment-producing areas by utilizing the mechanical properties of matter for the purpose of either changing the surface of the land or storing, regulating or disposing of runoff to prevent excessive sediment loss. Examples of structural erosion and sediment control practices are riprap, sediment basins, dikes, level spreaders, waterways or outlets, diversions, grade stabilization structures and sediment traps, etc. Such practices can be found in the Manual for Erosion and Sediment Control in Georgia.

Trout streams means all streams or portions of streams within the watershed as designated by the Wildlife Resources Division of DNR under the provisions of the Georgia Water Quality Control Act, O.C.G.A. § 12-5-20 et seq., in the rules and regulations for Water Quality Control, Chapter 391-3-6 at www.gaepd.org. Streams designated as primary trout waters are defined as water supporting a self-sustaining population of rainbow, brown or brook trout. Streams designated as secondary trout waters are those in which there is no evidence of natural trout reproduction but are capable of supporting trout throughout the year. First order trout waters are streams into which no other streams flow except springs.

Vegetative erosion and sedimentation control measures means measures for the stabilization of erodible or sediment-producing areas by covering the soil with:

(1) Permanent seeding, sprigging or planting, producing long-term vegetative cover;

(2) Temporary seeding, producing short-term vegetative cover; or

(3) Sodding, covering areas with a turf of perennial sod-forming grass.

Such measures can be found in the publication Manual for Erosion and Sediment Control in Georgia.

Watercourse means any natural or artificial watercourse, stream, river, creek, channel, ditch, canal, conduit, culvert, drain, waterway, gully, ravine or wash in which water flows

either continuously or intermittently and which has a definite channel, bed and banks and including any area adjacent thereto subject to inundation by reason of overflow or floodwater.

Wetlands means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas.

-2-

All ordinances or parts of ordinances of the City of Oakwood, Georgia in conflict with this ordinance shall be and the same are hereby repealed in their portions so in conflict.

-3-

The within ordinance shall become effective in accordance with Section 2.17 of the Oakwood City Charter of 2007.

Approved by the Mayor of the City of Oakwood, Georgia this 10th day of April, 2017.

Lamar Scroggs

Mayor Lamar Scroggs
City of Oakwood, Georgia

CITY OF
OAKWOOD
BUILDING THE FUTURE TOGETHER

GEORGIA, HALL COUNTY

I, Tangee Puckett, Certified Clerk of the of the City of Oakwood, Hall County, Georgia do hereby certify that the attached ordinance which appears of record in the minute's proceedings of the City of Oakwood, Hall County, Georgia known as an Ordinance No. 2017-CO-03-748 entitled "Amendment to Chapter 20 (Environment) of the Code of the City of Oakwood – Soil Erosion, Sedimentation and Pollution Control" was passed on the 10th day of April 2017 same is true and correct copy of said ordinance.

WITNESS, my official signature and seal of the City of Oakwood, Hall County, Georgia on the 11th day of April 2017.

Tangee B. Puckett
Certified City Clerk
City of Oakwood, Georgia

H. Lamar Scroggs
MAYOR

Sam Evans

Pat Jones

Todd Wilson

Dwight Wood

Sheri Clark Millwood

Donald T. Hunt
CITY ATTORNEY

Stan Brown
CITY MANAGER

Tangee Puckett
CITY CLERK

Post Office Box 99
4035 Walnut Circle
Oakwood, GA 30566

770.534.2365
f: 770.297.3223
CityOfOakwood.net

First Reading: 08/12/13

Final Reading: 08/22/13

Ordinance No. 2013-CO-08-714

An Amendment to Division 2 (Litter Control) of Article III (Nuisances) of Chapter 30 (Offenses and Miscellaneous Provisions) of the Oakwood City Code

AN AMENDMENT TO DIVISION 2 [ENTITLED "LITTER CONTROL"] OF ARTICLE III [ENTITLED "NUISANCES"] OF CHAPTER 30 [ENTITLED "OFFENSES AND MISCELLANEOUS PROVISIONS"] OF THE OAKWOOD CITY CODE FOR THE PURPOSE OF AMENDING SAID DIVISION 2 TO PROVIDE FOR A NEW SECTION 30-83 [ENTITLED "CONSTRUCTION SITE LITTER CONTROL"] AND RE-NUMBERING THE EXISTING SECTION 30-83 AND FOLLOWING SECTIONS ACCORDINGLY; TO PROVIDE FOR AN EFFECTIVE DATE; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES AND FOR OTHER PURPOSES.

THE CITY COUNCIL OF THE CITY OF OAKWOOD, GEORGIA HEREBY ORDAINS AND IT IS HEREBY ORDAINED BY THE AUTHORITY OF SAME as follows:

-1-

Division 2 (entitled "Litter Control") of Article III (entitled "Nuisances") of Chapter 30 (entitled "Offenses and Miscellaneous Provisions") of the Oakwood City Code is hereby amended by inserting a new Sec. 30-83 to read as follows:

Sec. 30-83. – Construction site litter control.

Construction site operators shall control waste such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste to prevent it from entering or causing adverse impacts to the City Separate Storm Sewer System or state waters.

-2-

The existing Sec. 30-83 and remaining sections of Division 2 are re-numbered accordingly.

All ordinances or parts of ordinances of the City of Oakwood, Georgia in conflict with this ordinance shall be and the same are hereby repealed in their portions so in conflict.

-4-

The within ordinance shall become effective in accordance with Section 2.17 of the Oakwood City Charter of 2007.

Approved by the Mayor of the City of Oakwood, Georgia this 22nd day of August, 2013.

Lamar Scraggs

Mayor Lamar Scroggs
City of Oakwood, Georgia

CITY OF OAKWOOD

BUILDING THE FUTURE TOGETHER

GEORGIA, HALL COUNTY

I, Tangee Puckett, Certified Clerk of the of the City of Oakwood, Hall County, Georgia do hereby certify that the attached ordinance which appears of record in the minutes proceedings of the City of Oakwood, Hall County, Georgia known as an Ordinance No. 2013-CO-08-714 entitled "Amendment to the Oakwood City Code, Chapter 30 – Construction Site Litter Control" was passed on the 22nd day of August 2013 same is true and correct copy of said ordinance.

WITNESS, my official signature and seal of the City of Oakwood, Hall County, Georgia on the 23rd day of August 2013.

Tangee B. Puckett

Tangee B. Puckett
Certified City Clerk
City of Oakwood, Georgia

H. Lamar Scroggs
MAYOR

Ron McFarland

Montie Robinson, Sr.

Sam Evans

Martha Collins

Todd Wilson

Donald T. Hunt
CITY ATTORNEY

Stan Brown
CITY MANAGER

Tangee Puckett
CITY CLERK

Post Office Box 99
4035 Walnut Circle
Oakwood, GA 30566

770.534.2365
f: 770.297.3223
CityOfOakwood.net

City Of OAKWOOD

SITE DEVELOPMENT PROCEDURES

A. PLAN REVIEW PROCEDURES

1. A set of plans drafted by a design professional is submitted to Oakwood Planning Department along with a review fee.

2. The plans are distributed for review for compliance with the Post Development Stormwater Management and E&S ordinances.

3. While reviewing plans for compliance with E&S, staff looks at all aspects of the proposed plan including existing conditions, types of soils, critical areas, such as streams or wetlands, types of BMPs proposed, and stormwater management.

4. Other departments review the plans for consistency with other local codes.

5. The plans are then given back to the design professional with redlined comments that need corrections.

6. Once the corrections are made, the plans can be signed off, and the work may begin after a pre-construction meeting. The pre-construction meeting gives the Oakwood staff a chance to discuss what is expected of the developer and gives the developer a chance to ask questions. A copy of the checklist used by the Planning Department when reviewing the plans for conformance to the E&S ordinance is attached.

7. Work may begin after the plans are officially approved and the pre-construction meeting has occurred.

STORMWATER PLAN REVIEW CHECKLIST
CITY OF OAKWOOD, GEORGIA

Plan Reviewer _____ **Date** _____

I. General Information

- ☐ Common address and legal description of site.
- ☐ Vicinity map.

Notes: _____

_____

II. Existing Conditions Hydrologic Analysis

- ☐ Topographic map of existing site conditions with the drainage basin boundaries indicated.
- ☐ Acreage.
- ☐ Soil types and land cover of areas for each sub-basin affected by the project.
- ☐ All perennial and intermittent streams and other surface water features.
- ☐ All existing stormwater conveyances and structural control facilities.
- ☐ Direction of flow and exits from the site.
- ☐ Analysis of runoff provided by off-site areas upstream of the project site.
- ☐ Methodologies, assumptions, site parameters and supporting design calculations used in analyzing the existing conditions site hydrology.

Notes: _____

_____

III. Post-Development Hydrologic Analysis

- ☐ Topographic map of developed site conditions with the post-development drainage basin boundaries indicated.
- ☐ Total area of post-development impervious surfaces and other land cover areas for each sub-basin affected by the project.
- ☐ Calculations for determining the runoff volumes that need to be addressed for each sub-basin for the development project to meet the post-development stormwater management performance criteria in the GA Stormwater Management Design Manual.
- ☐ Location and boundaries of proposed natural feature protection and conservation areas.
- ☐ Documentation and calculations for any applicable site design credits that are being utilized.
- ☐ Methodologies, assumptions, site parameters and supporting design calculations used in analyzing the existing conditions site hydrology.

Notes: _____

_____

IV. Stormwater Management System

- ☐ A map and/or drawing or sketch of the stormwater management facilities, including the location of nonstructural site design features and the placement of existing and proposed structural stormwater controls, including design water surface elevations, storage volumes available from zero to maximum head, location of inlet and outlets, location of bypass and discharge systems, and all orifice/restrictor sizes.
- ☐ A narrative describing how the selected structural stormwater controls will be appropriate and effective.
- ☐ Cross-section and profile drawings and design details for each of the structural stormwater controls in the system, including supporting calculations to show that the facility is designed according to the applicable design criteria.
- ☐ A hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms (including stage-storage or outlet rating curves, and inflow and outflow hydrographs).
- ☐ Documentation and supporting calculations to show that the stormwater management system adequately meets the post-development stormwater management performance criteria in the GA Stormwater Management Design Manual.
- ☐ Drawings, design calculations, elevations and hydraulic grade lines for all existing and proposed stormwater conveyance elements including stormwater drains, pipes, culverts, catch basins, channels, swales and areas of overland flow.
- ☐ Where applicable, a narrative describing how the stormwater management system corresponds with any watershed protection plans and/or local greenspace protection plan.

Notes: _____

_____

V. Post-Development Downstream Analysis

- ☐ A downstream peak flow analysis which includes the assumptions, results and supporting calculations to show safe passage of post-development design flows downstream.
- ☐ The analysis of downstream conditions in the report shall address each and every point or area along the project site's boundaries at which runoff will exit the property.
- ☐ The analysis shall focus on the portion of the drainage channel or watercourse immediately downstream from the project.
- ☐ This area shall extend downstream from the project to a point in the drainage basin where the project area is 10 percent of the total basin area.
- ☐ The analysis shall be in accordance with the stormwater design manual.

Notes: _____

_____

VI. Erosion and Sedimentation Plan

- ☐ An erosion and sedimentation control plan in accordance with the City of Oakwood Erosion and Sedimentation Ordinance or NPDES Permit for Construction Activities.
- ☐ The plan shall also include information on the sequence/phasing of construction and temporary stabilization measures and temporary structures that will be converted into permanent stormwater controls.

Notes: _____

_____

VIII. Operations and Maintenance Plan

☐ Identify the parts or components of a stormwater management facility or practice that need to be regularly or periodically inspected and maintained, and the equipment and skills or training necessary.

☐ Include an inspection and maintenance schedule, maintenance tasks, responsible parties for maintenance, funding, access and safety issues.

☐ Provisions for the periodic review and evaluation of the effectiveness of the maintenance program and the need for revisions or additional maintenance procedures shall be included in the plan.

Notes: _____

_____

IX. Maintenance Access Easements

☐ The applicant must ensure access from public right-of-way to stormwater management facilities and practices requiring regular maintenance at the site for the purpose of inspection and repair by securing all the maintenance access easements needed on a permanent basis. Such access shall be sufficient for all necessary equipment for maintenance activities. Upon final inspection and approval, a plat or document indicating that such easements exist shall be recorded and shall remain in effect even with the transfer of title of the property.

Notes: _____

_____

X. Inspection and Maintenance Agreements

☐ Unless an on-site stormwater management facility or practice is dedicated to and accepted by the City of Oakwood, the applicant must execute an easement and an inspection and maintenance agreement binding on all subsequent owners of land served by an on-site stormwater management facility or practice.

Notes: _____

_____

XI. Evidence of Other Applicable Permits

☐ The applicant shall certify and provide documentation to the City of Oakwood that all other federal and state environmental permits (e.g., Preconstruction Notification to COE Section 404, GA EPD Stream Buffer Variance, etc.) have been acquired for the site prior to approval of the stormwater management plan.

Notes: _____

_____

_____

B. SITE INSPECTION PROCEDURES

1. City personnel inspect all construction sites for compliance using the attached Site Inspection Checklist. If a major deficiency is found, such as a buffer violation, lack of permit and/or monitoring records, and/or mud in a stream, a Stop Work Order is immediately issued. If a minor deficiency is found such as maintenance of silt fence needed, the developer is given a Notice to Comply and asked to immediately correct the deficiency. Should the problem not be corrected within 5 days, the developer will be issued a Notice of Violation, citation and/or a stop work order depending upon the severity of the infraction and history of non-compliance. The City Code allows for monetary penalties of up to $2500 per day, and jail time of up to 60 days. The prioritization method utilized for determining the site inspection schedule is based on the following factors:

    - Phase of Construction
    - Potential of Site to Develop E&S Problems (topography, soil type, etc.)
    - Size of Construction Site
    - History of E&S Problems at Site
    - Weather (current and forecast)

2. The schedule of site inspections can change on a daily basis based on a combination of the factors above. Problem sites are often inspected on a daily basis, or even several times each day if necessary to ensure compliance with the E&S Ordinance.

2. The public can have input into our program of dealing with construction site runoff control by calling the planning department, working with their City Council representative, or by involvement in various City meetings which allow public input. The Planning Department often receives calls from the public regarding potential E&S problems at specific construction sites. Planning responds to all such public reports of E&S problems within one business day of receiving the report by inspecting the site and then requiring the contractor to complete any necessary remedial actions to bring the site into compliance with the E&S Ordinance. Planning tracks all such E&S complaints received by the public by use of the attached complaint form.

City Of OAKWOOD

SITE INSPECTION CHECKLIST

Project Name: _____

Developer: _____ **Phone:** _____

Inspection Date: _____ **Time:** _____ **Inspected By:** _____

Supervisor on Site _____

Y	N	N/A	**Note: *Immediate stop work if not in compliance**
☐	☐	☐	* Copy of Erosion and Sediment Control Plan on site?
☐	☐	☐	* Copy of Monitoring Program and Records on site?
☐	☐	☐	* Copy of Land Disturbance Permit and NPDES Permit on site?
☐	☐	☐	* Copy of the 404 Permit(s) obtained from the COE for all stream crossings, piping of streams and/or wetland fills on site and no exceedences of permits occurring?
☐	☐	☐	* Is all sediment kept out of streams, buffers, wetlands, ponds, lakes and public roads?
☐	☐	☐	* Is there no "in-stream" retention occurring on site? (i.e., no detention ponds in live streams)
☐	☐	☐	* Is a functioning portable restroom facility located on site and cleaned weekly?
☐	☐	☐	Is at least one inspector on-site with Level 1A or Level 1B Certification?
☐	☐	☐	Are there two rows of type C silt fence installed along all stream buffers?
☐	☐	☐	Are buffers undisturbed to a distance of 100 feet from top of stream bank?
☐	☐	☐	Are no impervious surfaces located within 150 feet from top of stream bank?
☐	☐	☐	Are soil stock piles adequately stabilized or protected?
☐	☐	☐	Are inlet sediment traps (Sd2) installed properly?
☐	☐	☐	Is all trash being cleaned up daily?
☐	☐	☐	Is all cement backwash controlled on site and transferred off-site for proper disposal?
☐	☐	☐	Is no burial of construction waste occurring on site?

☐ ☐ ☐ Is dust control used where needed?

☐ ☐ ☐ Is all silt fence (Sd1) installed properly (not in areas of concentrated flow) and less than ½ full?

☐ ☐ ☐ Are finished cut & fill slopes adequately stabilized (e.g., surface roughing and/or matting)?

☐ ☐ ☐ Are sediment slopes (Sd3) inlets and outlets adequately protected with rip-rap stone?

☐ ☐ ☐ Have all disturbed areas requiring temporary or permanent stabilization been stabilized? Seeded? Yes/No Mulched? Yes/No Graveled w/fabric? Yes/No

☐ ☐ ☐ Are stormwater conveyance channels adequately stabilized with channel lining and/or outlet protection?

☐ ☐ ☐ Are sediment basins (Sd3) slopes grassed and/or 3:1 slopes and greater matted?

☐ ☐ ☐ Are construction exits (Co) sized as 20' by 50' with stone size 1 ½ by 3 ½ and geotextile underlay?

☐ ☐ ☐ Are all temporary stream channel crossings stabilized?

Inspection Conclusion:

☐ **Satisfactory** ☐ **Notice to Comply** ☐ **Notice of Violation** ☐ **Citation** ☐ **Stop Work Order**

_____

Signature of Developer/Builder indicating receipt of completed checklist.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

Attachment 11
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL COMPLAINT RESPONSE PROCEDURES

1. When a complaint is received, it is documented, tracked and addressed in accordance with the attached City of Oakwood Customer Service Request Program Standard Operating Policy and Procedures (CSR).

2. City Staff will investigate the complaint and document findings in accordance with inspection procedures (see Attachment 10).

3. When it is deemed that the person engaged in land disturbing activities has failed to comply with the approved plan, with permit conditions, or with provisions of the Soil Erosion and Sedimentation Control Ordinance (see Attachment 7), a written notice to comply (see attached notice) shall be served on that person. The notice shall set forth the necessary measures to achieve compliance with the plan and shall state the time within which such measures must be completed.

4. If the person fails to comply within the timeframe specified in the written notice, he shall be deemed in violation of City Code and will be subject to the enforcement provisions of the Code and the Enforcement Response Plan (see Appendix A).

5. City will track the complaint in accordance with the CSR SOP until the complaint is closed out.

6. In accordance with the CSR SOP, upon closeout, the complainant is notified of the action taken.

CITY OF OAKWOOD
STANDARD OPERATING POLICIES AND PROCEDURES

POLICY NUMBER: GA-002

TITLE: Customer Service Request Program

DATE: September 20, 2012

PURPOSE:

The purpose of the within standard operating policies and procedures is to provide written guidelines for receiving and addressing requests for City services. Any requests for variations or exceptions should be submitted in writing and approved by City management.

POLICIES AND PROCEDURES:

1. Requestor completes Section I and II of the Customer Service Request (CSR) and forwards it to the City Clerk. For all requests related to private property, the customer must sign the request.

2. City Clerk logs in the CSR (files the request by date in the CSR Notebook under the "Pending" Tab and updates the CSR log sheet) and forwards the CSR to the City Manager (or designee) who then completes Section III of the CSR.

3. City Manager (or designee) approves course of action, and assigns the task to the appropriate staff.

4. Staff communicates with the requestor when appropriate, takes action, completes Section IV of the CSR, and returns it to the City Clerk.

5. City Clerk files the completed CSR by request date in the CSR Notebook under the "Completed" Tab and updates the CSR log sheet. The CSR copy filed in the "Pending" Tab is removed and discarded.

6. City Clerk notifies the requestor of action taken.

7. City Clerk distributes the CSR log sheet of all open items to the City Manager and Department Directors at the end of each month.

Approved by: _____ Date: 9/20/12

Stan Brown, City Manager
City of Oakwood, Georgia

CITY OF OAKWOOD

BUILDING THE FUTURE TOGETHER

Customer Service Request

I. Requestor Information

Name: _____ **Phone:** _____

Address: _____

City/State/Zip: _____

Email: _____

Requestor Signature: _____ **Date:** _____

II. Description of Request (___Attachments Included)

_____

_____

_____

III. Staff Assessment (___Attachments Included) **Received By**_____

___ **Emergency (Immediate)** ___ **Urgent (within 48 hrs)** ___ **Routine (scheduled work)**

_____

_____

Work Approved By: _____ **Date:** _____

Assigned to: _____

IV. Action Taken (___Attachments Included)

_____

_____

Action Completed By: _____**Date:** _____

Please complete Section I & II and forward the request to the City Clerk
Fax # 770-297-3223, or City of Oakwood, P.O. Box 99, Oakwood, GA 30566

Customer Service Request Procedure

1. **Requestor completes Section I and II of the Customer Service Request (CSR) and forwards it to the City Clerk. <u>For all requests related to private property, the customer must sign the request.</u>**

2. **City Clerk logs in the CSR (files the request by date in the CSR Notebook under the "Pending" Tab and updates the CSR log sheet) and forwards the CSR to the City Manager (or designee) who then completes Section III of the CSR.**

3. **City Manager (or designee) approves course of action, and assigns the task to the appropriate staff.**

4. **Staff communicates with the requestor as appropriate, takes action, completes Section IV of the CSR, and returns it to the City Clerk.**

5. **City Clerk files the completed CSR by request date in the CSR Notebook under the "Completed" Tab and updates the CSR log sheet. The CSR copy filed in the "Pending" Tab is removed and discarded.**

6. **City Clerk notifies the requestor of the action taken.**

7. **City Clerk distributes the CSR log sheet of all open items to the City Manager and Department Directors at the end of each month.**

Please complete Section I & II and forward the request to the City Clerk
Fax # 770-297-3223, or City of Oakwood, P.O. Box 99, Oakwood, GA 30566

Customer Service Request Log

CSR #	Requestor	Description	Assigned to	Close Out Date	Remarks/Status

NOTICE TO COMPLY

☐ Mailed ☐ Personal Delivery

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

CITY OF OAKWOOD
P.O. BOX
4035 WALNUT CIRCLE
OAKWOOD, GEORIA 30566
770-534-2365 * FAX 770-297-3223

DATE _____

PROPERTY OWNER _____

ADDRESS OF NON-COMPLIANCE _____

AN APPARENT NON-COMPLIANCE OF OAKWOOD CITY CODES EXISTS ON THE PREMISES AS FOLLOWS:

☐ INOPERABLE VEHICLE
☐ EXTERIOR PREMISES
☐ RUBBISH AND GARBAGE
☐ EXCESSIVE NOISE
☐ EROSION CONTROL
☐ TENANT COMPLAINT
☐ OTHER _____

YOU ARE HEREBY NOTIFIED TO:

☐ CONTACT THE CODE OFFICER NOTED ON THIS NOTICE

☐ OTHER _____

FAILURE ON YOUR PART TO COMPLY WITH THIS NOTICE ON OR BEFORE _____ MAY SUBJECT YOU TO ENFORCEMENT ACTIONS AND PENALITES PRESCRIBED BY LAW.

INVESTIGATOR: _____ PHONE: _____

☐ RECEIPT ACKNOWLEDGED

_____ SIGNATURE

_____ DATE

First Reading: 11/09/2020

Final Reading: 11/30/2020

ORDINANCE NO. 2020-10-805

AN AMENDMENT TO AMEND SECTION 40-43 [ENTITLED "PERMIT APPLICATION REQUIREMENTS"] OF DIVISION 2 [ENTITLED "PERMIT PROCEDURES AND REQUIREMENTS"] OF ARTICLE II [ENTITLED "POST DEVELOPMENT STORMWATER MANAGEMENT"] OF CHAPTER 40 [ENTITLED "STORMWATER"] OF THE OAKWOOD CITY CODE TO PROVIDE FOR AN INFEASIBLITY DETERMINATION BASED ON THE OAKWOOD INFEASIBILITY POLICY; TO AMEND SECTION 40-70 [ENTITLED "WATER QUALITY AND RUNOFF REDUCTION"] OF DIVISION 3 [ENTITLED "POST DEVELOPMENT STORMWATER MANAGEMENT PERFORMANCE CRITERIA"] OF ARTICLE II [ENTITLED "POST DEVELOPMENT STORMWATER MANAGEMENT"] OF CHAPTER 40 [ENTITLED "STORMWATER"] OF THE OAKWOOD CITY CODE TO PROVIDE FOR RATES FOR RUNOFF REDUCTION AND WATER QUALITY; TO PROVIDE FOR SEVERABILITY; TO PROVIDE FOR AN EFFECTIVE DATE; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES AND FOR OTHER PURPOSES.

THE CITY COUNCIL OF THE CITY OF OAKWOOD, GEORGIA HEREBY ORDAINS AND IT IS HEREBY ORDAINED BY THE AUTHORITY OF THE SAME as follows:

-1-

Section 40-43 (Permit Application Requirements) of Division 2 (Permit Procedures and Requirements) of Article II (Post Development Stormwater Management) of Chapter 40 of the Oakwood City Code is amended hereby by adding an additional subparagraph to read as follows:

Sec. 40-43. – Permit application requirements.

(6) A preliminary determination of infeasibility, as applicable, prepared in accordance with the City's infeasibility policy.

-2-

Section 40-70 (Water Quality and Runoff Reduction) of Division 3 (Post Development Stormwater Management Performance Criteria) of Article II (Post Development Stormwater Management) of Chapter 40 of the Oakwood City Code is amended hereby by deleting said section in its entirety and substituting in lieu thereof the following:

Sec. 40-70. - Water quality and Runoff Reduction.

For development with a stormwater management plan submitted on or after December 6, 2020, the applicant shall choose (1) Runoff Reduction and additional water quality shall not be required. To the extent (1) Runoff Reduction has been determined to be infeasible for all or a portion of the site using the city's infeasibility policy, then (2) Water Quality shall apply for the remaining runoff from a 1.2 inch

rainfall event and must be treated to remove at least 80% of the calculated average annual post-development total suspended solids (TSS) load or equivalent as defined in the GSMM.

(1) Runoff Reduction – The stormwater management system shall be designed to retain the first 1.0 inch of rainfall on the site using runoff reduction methods, to the maximum extent practicable; .

(2) Water Quality – The stormwater management system shall be designed to remove at least 80% of the calculated average annual post-development total suspended solids (TSS) load or equivalent as defined in the GSMM for runoff from a 1.2-inch rainfall event.; and

If a site is determined to be a hotspot, the city may require the use of specific or additional components for the stormwater management system to address pollutants of concern generated by that site.

-3-

All ordinances or parts of ordinances of the City of Oakwood, Georgia in conflict herewith shall be and the same are hereby repealed in their portions so in conflict.

-4-

The within ordinance shall become effective in accordance with Section 2.17 of the Oakwood City Charter of 2007.

Approved by the Mayor of the City of Oakwood, Georgia this 30th day of November, 2020.

Lamar Scroggs.

Mayor Lamar Scroggs
City of Oakwood, Georgia

ATTEST:

Mai Chang

Mai Chang, Clerk
City of Oakwood, Georgia

Location	Watershed	Tax parcel Number (s)	Facility Type	Public or Private	Design Date	Maintenance Agreement	Agreement Date	Deed Book/Page	Owner	Last Inspection Date	Maint Required ?	Maint Response	Next Inspection Notice Date
					Design Date after Dec 9, 2008								
4619 Woodlane Drive	Balus Creek	08051 001012	Detention Pond	Private	6/18/2010	y	6/18/2010		Oakwood Family Partners, LLLP	3/16/2018	yes	in progress	3/16/2023
3126 Atlanta Highway	Balus Creek	08046 003006	Detention Pond	Private	6/18/2010	y	6/18/2010		Tom Cheek	11/17/2017	yes	completed	11/17/2022
4080 Enterprise Way	Mud Creek	08068 000043	Detention Pond	Private	4/11/2012	Y	4/11/2012		Bitzer us, Inc.	11/27/2017	yes	completed	11/27/2022
5350 McEver Road	Mud Creek	08091 000015	Detention Pond	Private	4/18/2012	Y	4/18/2012		Hamilton State Bank/Pattillo Lumber Co.	11/27/2017	yes	completed	11/27/2022
4402 McBrayer Road	Mud Creek	08074 000021	Detention Pond	Private	5/9/2013	Y	7/23/2013		5 Dollar Yo	1/29/2014	No-Initial	N/A	1/29/2019
5425 Aloha Way	Mud Creek	08091 000024	Detention Pond	Private	11/6/2013	Y	12/4/2013		King's Hawaiian	12/10/2014	No-Initial	N/A	12/10/2019
3150 Milton Martin Toyota Way	Balus Creek	08046 003006 08046 003006H	Detention Pond	Private	5/7/2014	Y	4/30/2014		Martin Bros Investment, LLC	3/16/2018	No	N/A	3/16/2023
4409 McBrayer Road	Mud Creek	08074 000032	Detention Pond	Private	6/16/2014	Y	8/27/2014		RAM	8/6/2015	No-Initial	N/A	8/6/2020
5385 Rafe Banks Drive	Mud Creek	08090 000013	Detention Pond	Private	7/21/2015	Y	7/21/2015		Stone Mtn Ind Park, Inc	6/21/2016	No-Initial	N/A	6/21/2021
2975 Old Oakwood Road	Balus Creek	08025 000004	Detention Pond	Private	9/9/2015	Y	9/9/2015		SACC Properties LLC	4/27/2016	No-Initial	N/A	4/27/2021
4107 Flat Creek Rd	Balus Creek	08053 004020	Detention Pond	Private	6/20/2016	Y	6/20/2016		Capable Express	11/2/2016	No-Initial	N/A	11/2/2021
3719 Winder Hwy	Caney Fork Creek	15036 B000017	Detention Pond	Private	10/26/2015	Y	10/26/2015		Key Storage	11/15/2017	No-Initial	N/A	11/15/2022
3500 Old Oakwood Rd	Balus Creek	08029 000003 08029 000001A	Detention Pond	Private	8/4/2016	Y	8/4/2016		PFG	3/22/2017	No-Initial	N/A	3/22/2022
5459 Aloha Way	Mud Creek	08091 000001	Detention Pond	Private	5/4/2016	Y	8/18/2015		Gwinnett Industies	8/17/2018	No-Initial	N/A	8/17/2023
3428 Atlanta Hwy	Balus Creek	08046 002001	Detention Pond	Private	5/12/2016	Y	4/14/2016		BPBC	12/17/2018	No-Initial	N/A	12/17/2023
5152 McEver Rd	Mud Creek	08066 002002C	Detention Pond	Private	6/3/2016	Y	4/25/2016		McEver Rd Storage	6/6/2018	No-Initial	N/A	6/6/2023
4125 W.White Rd	Mud Creek	08068 000045	Detention Pond	Private	7/29/2016	Y	6/29/2016		Crane Transport	1/31/2018	No-Initial	N/A	1/31/2023
3585 Wallis Rd	Balus Creek	08045 004009	Detention Pond	Private	1/31/2017	Y	1/12/2017		JW Trucks	12/31/2018	No-Initial	N/A	12/31/2023
4018 Mundy Mill Rd	Balus Creek	08030 000008	Detention Pond	Private	2/9/2017	Y	1/30/2017		Harpsie Holding	2/1/2018	No-Initial	N/A	2/1/2023
4195 Shubert Rd	Caney Fork Creek	15036 B000013	Detention Pond	Private	2/20/2017	Y	1/4/2017		Lanier Nursery	2/23/2018	No-Initial	N/A	2/23/2023
3288 Poplar Springs Rd	Caney Fork Creek	15036C000004	Detention Pond	Private	10/5/2017	Y	9/5/2017		Woodland Asset Mgt	11/20/2018	No-Initial	N/A	11/20/2023
Mundy Mill Rd (Mundy Mill Center)	Balus Creek	08030 000018	Detention Pond	Private	2/8/2018	Y	7/7/2017		Darryl Wiley	4/3/2018	No-Initial	N/A	4/3/2023
3640,3656 Southland Dr	Balus Creek	08047 001014, 08047 001015, 008047001016	Detention Pond	Private	3/16/2018	Y	11/29/2016		Siluria	10/11/2018	No-Initial	N/A	10/11/2023
3707 Old Oakwood	Balus Creek	08044 002008B	Detention Pond	Private	7/12/2018	Y	6/21/2018		ABC Storage Yard	12/31/2018	No-Initial	N/A	12/31/2023
3917 Old Flowery Branch Rd	Balus Creek	08042 000054	Detention Pond	Private			9/25/2018	8173/742	Clemlake				
McEver Rd	Balus Creek	08042A000561	Detention Pond	Private	3/29/2018				McEver Mill				
2988 Frontage Rd	Balus Creek	08028 000015D	Detention Pond	Private	11/11/2018				NGAC LLC (University Commons)				
5511 Rafe Ct	Mud Creek		Detention Pond	Private	8/30/2018				OSIP 7				
3469 Atlanta Hwy	Mulberry Creek	15045 000013, 15045 000014	Detention Pond	Private	10/11/2018	Y	8/24/2020		Peaks of Oakwood	N/A	New Construction		8/24/2025
3640,3656 Southland Dr	Balus Creek		Detention Pond	Private	3/16/2018				Siluria				
Mountainview Rd	Balus Creek		Detention Pond	Private	10/17/2018				Townhomes @ Mundy Mill				
McEver Rd	Mud Creek		Detention Pond	Private	11/1/2018				Westbrook Glen				
4515 Allen St	Balus Creek		Detention Pond	Private					Oakwood Townhomes				
J Crow Rd/McClure Drive		08067 000004, 08067 000007	Detention Pond	Private	43472				The Cook and Company	N/A	New Construction		12/1/2025

Oakwood Stormwater

Impaired Streams

Outfalls

Pond Designed Prior To Dec. 9, 2008

No

Yes

Streams

Streets

Parcels

City Limits

Oakwood

Other Cities

CITY OF OAKWOOD

BUILDING THE FUTURE TOGETHER

0 0.125 0.25 0.5 0.75 1 Miles

Date: 2/14/2023

STORMWATER DETENTION POND

REPORT OF FINDINGS

Contact Name: _____ **Inspector:** _____

_____

_____

Address: _____ **Date:** _____

Phone: _____

Location: _____ **ID No.:** _____

_____

The City of Oakwood, GA's Stormwater Management for Post-Construction Ordinance requires regular inspections of all structural water quality detention ponds to ensure that they are being properly maintained and are functioning as originally designed.

The results of this year's inspection are as follows:

☐ **Visual inspection found no apparent problems with the structure.**

☐ **Please complete the following repairs and/or maintenance items within 90 days of this report.**

EARTHEN DAM OR RETAINING WALL
___Remove trees and woody vegetation.
___Remove/trap burrowing animals
___Re-seed and repair bare areas or gullies.
___Repair holes, depressions, and/or cracks.
___Repair seepage, leakage, and/or "piping".

PRINCIPAL AND WATER QUALITY SPILLWAYS
___Remove trash and/or debris from trash rack.
___Clear obstructed water quality orifice(s).
___Repair leaking and/or damaged riser/barrel.
___Repair leaking and/or damaged concrete spillway.
___Repair eroded or blocked outlet pipe.
___Replace or unclog filter gravel around riser.

EMERGENCY SPILLWAY
___Remove trees and woody vegetation.
___Re-seed and repair bare areas or gullies.
___Replace or repair displaced rip-rap.
___Remove obstructions from spillway.

GENERAL POND MAINTENANCE
___Repair eroded inlet channel.
___Re-seed and/or repair bare areas or gullies.
___Replace or repair rip-rap at inlet pipe(s).
___Remove trash and/or debris from pond area.
___Remove accumulated sediment from pond.
___Mow and regularly maintain vegetation.

Additional Comments and Maintenance Concerns: _____

_____

_____

_____

Proper operation and maintenance are the sole responsibility of the property owner, and a vital part of ensuring the effectiveness of your detention pond. If you fail to complete the above maintenance in a timely manner, please be advised that the City of Oakwood reserves the right to complete the maintenance, and assess the owner for any costs or damages incurred. You will be notified if the City chooses to pursue this action.

Please inform this office of the date when work is completed, and if you should have any questions or comments concerning these items or future maintenance issues, please contact Joe Hayes, City of Oakwood Code Enforcement Officer at 770-534-2365.

Mail to: City of Oakwood
Post Office Box 99
Oakwood, Georgia 30566

City of Oakwood Storm Water Facility Maintenance Agreement

THIS AGREEMENT, made and entered into this _____ day of _____, 20___ by and between _____ hereinafter called the "Landowner", and the Mayor and Council of Oakwood, Georgia, hereinafter called the "City". WITNESSETH, that WHEREAS, the Landowner is the owner of certain real property described as Tax Map/Parcel Identification Number _____ as recorded by deed in the land records of Hall County, Georgia, Deed Book _____ Page _____, hereinafter called the "Property".

WHEREAS, the Landowner is proceeding to build on and develop the property; and WHEREAS, the Site Plan/Subdivision Plan known as _____, hereinafter called the "Plan", which is expressly made a part hereof, as approved or to be approved by the City, provides for detention of stormwater within the confines of the property; and

WHEREAS, the City and the Landowner, its successors and assigns, including any homeowners association, agree that the health, safety, and welfare of the residents of the City of Oakwood, Georgia, require that on-site stormwater management/BMP facilities be constructed and maintained on the Property; and

WHEREAS, the City requires that on-site stormwater management/BMP facilities as shown on the Plan be constructed and adequately maintained by the Landowner, its successors and assigns, including any homeowners association.

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

1. The on-site stormwater management/BMP facilities shall be constructed by the Landowner, its successors and assigns, in accordance with the plans and specifications identified in the Plan.

2. The Landowner, its successors and assigns, including any homeowners association, shall adequately maintain the stormwater management/BMP facilities. This includes all pipes and channels built to convey stormwater to the facility, as well as all structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate maintenance is herein defined as good working condition so that these facilities are performing their design functions. The Stormwater Structural Control Maintenance Checklists (from the Georgia Stormwater Management Manual) are to be used to establish what good working condition is acceptable to the City.

3. The Landowner, its successors and assigns, shall inspect the stormwater management/BMP facility and submit an inspection report annually. The purpose of the inspection is to assure safe and proper functioning of the facilities. The inspection shall cover the entire facilities, berms, outlet structure, pond areas, access roads, etc. Deficiencies shall be noted in the inspection report.

4. The Landowner, its successors and assigns, hereby grant permission to the City, its authorized agents and employees, to enter upon the Property and to inspect the stormwater management/BMP facilities whenever the City deems necessary. The purpose of inspection is to follow-up on reported deficiencies and/or to respond to citizen complaints. The City shall provide the Landowner, its successors and assigns, copies of the inspection findings and a directive to commence with the repairs if necessary.

5. In the event the Landowner, its successors and assigns, fails to maintain the stormwater management/BMP facilities in good working condition acceptable to the City, the City may enter upon the Property and take whatever steps necessary to correct deficiencies identified in the inspection report and to charge the costs of such repairs to the Landowner, its successors and assigns. This provision shall not be construed to allow the City to erect any structure of permanent nature on the land of the Landowner outside of the easement for the stormwater management/BMP facilities. It is expressly understood and agreed that the City is under no obligation to routinely maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the City.

6. The Landowner, its successors and assigns, will perform the work necessary to keep these facilities in good working order as appropriate. In the event a maintenance schedule for the stormwater management/BMP facilities (including sediment removal) is outlined on the approved plans, the schedule will be followed.

7. In the event the City pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like, the Landowner, its successors and assigns, shall reimburse the City upon demand, within thirty (30) days of receipt thereof for all actual costs incurred by the City hereunder.

8. This Agreement imposes no liability of any kind whatsoever on the City and the Landowner agrees to hold the City harmless from any liability in the event the stormwater management/BMP facilities fail to operate properly.

9. This Agreement shall be recorded among the land records of Hall County, Georgia, and shall constitute a covenant running with the land, and shall be binding on the Landowner, its administrators, executors, assigns, heirs and any other successors in interests, including any homeowners association. Landowner or any successors in interest shall be released from the obligations hereunder if and only when the Landowner or any successor in interest demonstrates that said Landowner or successor in interest is in compliance herewith and a valid transfer of said interest is made to a successor in interest who shall be liable for the obligations assumed hereunder by Landowner and any successors in interest.

WITNESS the following signatures and seals:

_____
Company/Corporation/Partnership Name (Seal)

By: _____

Print Name: _____

Title: _____

The foregoing Agreement was acknowledged before me this ____ day of _____, 20___, by

_____.

_____
NOTARY PUBLIC

My Commission Expires: _____

CITY OF OAKWOOD, GEORGIA

By: _____

Print Name: _____

Title: _____

The foregoing Agreement was acknowledged before me this ____ day of _____, 20___, by

_____.

_____
NOTARY PUBLIC

My Commission Expires: _____

CITY OF OAKWOOD

BUILDING THE FUTURE TOGETHER

[Year]

Green Infrastructure and Low Impact Development Program



Sandy Weinel

[Company name]

[Date]

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1. INTRODUCTION

As part of the General National Pollutant Discharge Elimination System (NPDES) Permit No. GAG 610000, the City of Oakwood is required to develop a Green Infrastructure/Low Impact Development (GI/LID) program. The City of Oakwood is located Hall County and as of 2018, has an approximate population of 5,975.

The primary objective of this plan is to meet the General NPDES Permit requirement and to encourage and track the use of GI/LID stormwater best management practices (BMPs). GI/LID is a sustainable approach to stormwater management that utilizes the landscape to absorb storm runoff, reducing offsite flows that can contribute to flooding and infrastructure costs. Increased stormwater runoff is directly related to the amount of impervious surfaces in a given area and to how land is developed and improved. Improvements in managing stormwater can have multiple benefits for cities and their residents and businesses.

Direct Benefits

- Detains stormwater close to its source, potentially reducing runoff volume and velocity downstream.
- Collects sediment and reduces pollutants in stormwater runoff.
- Utilizes stormwater to support native vegetation and landscape improvements.

Indirect Benefits

- Reduces irrigation water requirements for landscape areas.
- Provides and sustains habitat for wildlife.
- Complements site improvements for human activities.
- Provides multiple-use opportunities, such as open space.
- Reduces impacts on existing stormwater infrastructure and the need for new channels and pipes.
- Is compatible with the protection and restoration of natural systems, which supports climate resiliency.
- Supports tree canopy growth for increased shade, which can decrease urban heat-island effects.
- Adds value to property through efficient use of space and resources.

2. PHASE II PERMIT REQUIREMENTS

The City's Phase II Municipal Separate Storm Sewer System (MS4) permit describes what the City is expected to do when reporting on its GI/LID activities. Table 1 below outlines the GI/LID program elements within the permit.

GI/LID PROGRAM ELEMENTS	MEASURABLE GOALS
Legal Authority	Evaluate, and if necessary, modify existing ordinance(s). If a revision has been made during the reporting period, a copy of the adopted ordinance(s) will be submitted.
GI/LID Program	Develop a GI/LID program describing the techniques and practices to be implemented by the permitee. The program will include procedures for evaluating the feasibility and site applicability of different GI/LID practices and various structures and practices to be considered. The program must be submitted to EPD by February 15, 2020.
GI/LID Structure Inventory	The City will annually update an inventory of water quality-related GI/LID structures located within the permitted area and at a minimum, constructed December 6, 2012, including the total number of each type of structure (e.g. bioswales, pervious pavement, rain gardens, cisterns, and green roofs). At a minimum, the inventory will include permittee-owned structures owned by other entities and privately-owned non-residential GI/LID structures. The City will provide an updated GI/LID inventory which will include the total number of each type of structure in each annual report.
Inspection Program	The City will conduct inspections and/or ensure that inspections are conducted on 100% of the GI/LID inventory structures within a 5-year period, beginning in 2020. The City will provide documentation of all inspections and maintenance activities. The number of structures and the percentage of total structures maintained by the City will be submitted in each annual report.

3. GI/LID PRACTICES & STRUCTURES

The City identified five structures in its Stormwater Management Program (SWMP) which included bioswales, pervious pavement, rain gardens, cisterns, and green roofs. All structures have been outlined in Table 2 below. When necessary, the Stormwater Manager has the authority to consider additional structures/practices to be included into the GI/LID Program and Inventory.

An inventory of public and privately-owned GI/LID structures constructed after December 6, 2012 will be updated annually and submitted with the MS4 annual report. Inventory will contain the following information:

GI/LID Type	Ownership	Location	Date Recorded/GPS	Class

The City will provide documentation of all inspections and maintenance activities. The number of structures and percentage of total structures maintained by the City will be updated and submitted in each annual report.

GI/LID Inspection and Maintenance Program

1. Permit Requirements

Permit Requirement: Beginning in 2020, conduct inspections and/or ensure inspections are conducted on 100% of the GI/LID structures, included in the inventory, within a 5-year period. Provide documentation of the inspections conducted during the reporting period in each annual report.

Conduct maintenance on the permittee-owned GI/LID structures, as needed. Provide the number of structures and percentage of the total structures maintained during the reporting period in each annual report.

Implement the maintenance procedures for ensuring publicly-owned structures owned by other entities and privately-owned non-residential GI/LID structures are maintained as needed. Provide documentation of these activities in each annual report.

2. Inventory

An inventory of all the GI/LID structures in the permit area will be maintained as part of the City's Stormwater Management Plan. The inventory will be updated annually and provided in the annual report.

3. Inspections & Maintenance: Permitee-Owned Facilities

City staff or designee will inspect at least 5% per year of GI/LID structures included in the inventory such that over a five-year period 100% of all structures will be inspected. Maintenance will be performed by City staff or the City's designee. These activities will be conducted using the Operations & Maintenance Guidance Document, Appendix E of the Georgia Stormwater Management Manual (GSMM).

4. Inspection & Maintenance: Publicly Owned and Privately-Owned Non-Residential Facilities

All other non-permittee owned structures (publicly owned by other entities and nonresidential privately-owned) will be inspected and maintained by the owner in accordance with executed stormwater maintenance agreements. Copies of inspections and maintenance records for these facilities will be submitted with the annual report.

City staff or the City's designee will review the GI/LID inventory and inspection/maintenance records to verify that a minimum of 5% per year and 100% per 5 years of facilities have been inspected and maintained.

If the City finds that an owner fails to comply with the terms of the stormwater maintenance agreement with respect to inspection and maintenance, the City will follow the enforcement

procedures provided in the agreement. Records of any enforcement-related communication and/or activity will be provided in the annual report.

5. GI/LID Practices

The following table includes some examples of GI/LID techniques that may be encouraged and the inspection procedures:

LID Technique	Inspection Procedures
Green Roofs	Inspect waterproof membrane for leaks.
	Inspect outflow and overflow areas for sediment accumulation.
	Inspect green roof for dead or dying vegetation
Permeable Pavement Systems	Inspect to ensure that the permeable pavement surface is clear of sediment and debris.
	Check the permeable pavement system for excessive ponding and dead or dying vegetation (if applicable).
	Inspect permeable pavement system for drawdown following rainfall events. (Failure to drawdown within 72 hours after the end of a rainfall event may indicate permeable pavement system failure.)
	Inspect permeable pavement surface for deterioration or breaking/flaking.
Vegetated Filter Strips and other Infiltration Practices	Inspect vegetated filter strip following rainfall events for presence of erosion, trash, and debris.
	Inspect level spreader for clogging and sediment accumulation.
	Inspect vegetated filter strip for dead or dying vegetation.
Grass Channels/Swales	Inspect vegetated grass channel following rainfall events for presence of trash and debris.
	Inspect grass channel for sediment accumulation. Sediment should not fill more than 25% of the original channel cross-section.
	Inspect grass channel for the formation of rills and gullies.
	Inspect grass channel for dead or dying vegetation.
Simple Downspout Disconnections	Inspect to ensure that downspout directs water away from impervious surfaces such as driveways, sidewalks, and streets.
	Inspect the pervious areas located below simple downspout disconnections following rainfall events for erosion.
Rain Gardens/ Bioretention Cells	Inspect inflow area for sediment accumulation.
	Inspect rain garden for erosion and the formation of rills and gullies.
	Inspect rain garden for dead or dying vegetation.
Stormwater Planters	Inspect inflow and outflow areas for sediment accumulation, trash and debris.
	Inspect stormwater planter for dead or dying vegetation.

LID Technique	Inspection Procedures
Dry Wells	If used to “receive” non-rooftop runoff, ensure that the contributing drainage area is stabilized.
	Inspect vegetative cover on the surface of the dry well following rainfall events for evidence of erosion.
	Inspect gutters and downspouts that direct runoff to dry well for accumulated leaves and debris.
	Inspect dry well following rainfall events. Check observation well to ensure that complete drawdown has occurred within 72 hours after the end of a rainfall event. Failure to drawdown within this timeframe may indicate dry well failure.
	If applicable, inspect pretreatment devices for sediment accumulation.
	Inspect storage tank screens and pretreatment devices. Inspect top layer of filter fabric for sediment accumulation.
Rainwater Harvesting Systems/Rain Barrels	Inspect gutters and downspouts for accumulated leaves or debris.
	Inspect storage tank screens.
	Inspect pretreatment devices for sediment accumulation.
	Inspect storage tank for algal blooms.
	Inspect overflow areas for erosion and the formation of rills and gullies.

Unique_	Feature_Ty	Feature	Outfall
2801	CB	CB	N
2802	CB	CB	N
2805	CB	CB	N
2817	CB	CB	N
2818	CB	CB	N
2819	CB	CB	N
2820	CB	CB	N
2822	CB	CB	N
2823	CB	CB	N
2826	CB	CB	N
2827	CB	CB	N
2830	CB	CB	N
2831	CB	CB	N
3203	CB	CB	N
3205	CB	CB	N
3206	CB	CB	N
3207	CB	CB	N
3208	CB	CB	N
3209	CB	CB	N
3210	CB	CB	N
3211	CB	CB	N
3212	CB	CB	N
3213	CB	CB	N
3214	CB	CB	N
3215	CB	CB	N
3216	CB	CB	N
3217	CB	CB	N
3218	CB	CB	N
3219	CB	CB	N
3220	CB	CB	N
3221	CB	CB	N
3222	CB	CB	N
3223	CB	CB	N
3224	CB	CB	N
3225	CB	CB	N
3226	CB	CB	N
3227	CB	CB	N
3228	CB	CB	N
3229	CB	CB	N
3230	CB	CB	N
3231	CB	CB	N
3232	CB	CB	N
3233	CB	CB	N
3234	CB	CB	N
3240	CB	CB	N
3610	CB	CB	N

4002	CB	CB	N
4003	CB	CB	N
4004	CB	CB	N
4005	CB	CB	N
4006	CB	CB	N
4008	CB	CB	N
4009	CB	CB	N
4016	CB	CB	N
4017	CB	CB	N
4021	CB	CB	N
4022	CB	CB	N
4023	CB	CB	N
4024	CB	CB	N
4026	CB	CB	N
4029	CB	CB	N
4030	CB	CB	N
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4037	CB	CB	N
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4834	CB	CB	N
4835	CB	CB	N
4837	CB	CB	N
4839	CB	CB	N
4850	CB	CB	N
5201	CB	CB	N
5202	CB	CB	N
5204	CB	CB	N
5205	CB	CB	N
5207	CB	CB	N
5208	CB	CB	N
5211	CB	CB	N

5212	CB	CB	N
5219	CB	CB	N
5220	CB	CB	N
5601	CB	CB	N
5602	CB	CB	N
5603	CB	CB	N
5606	CB	CB	N
5607	CB	CB	N
5608	CB	CB	N
5609	CB	CB	N
5610	CB	CB	N
5613	CB	CB	N
5614	CB	CB	N
5615	CB	CB	N
5616	CB	CB	N
5617	CB	CB	N
5618	CB	CB	N
5621	CB	CB	N
5622	CB	CB	N
5624	CB	CB	N
5625	CB	CB	N
5626	CB	CB	N
5631	CB	CB	N
5638	CB	CB	N
6005	CB	CB	N
6006	CB	CB	N
6007	CB	CB	N
6015	CB	CB	N
6016	CB	CB	N
6017	CB	CB	N
6018	CB	CB	N
6019	CB	CB	N
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6027	CB	CB	N
6028	CB	CB	N
6029	CB	CB	N
6031	CB	CB	N
6032	CB	CB	N
6033	CB	CB	N
6036	CB	CB	N
6037	CB	CB	N
6041	CB	CB	N
6042	CB	CB	N
6043	CB	CB	N
6044	CB	CB	N

6047	CB	CB	N
6048	CB	CB	N
6057	CB	CB	N
6058	CB	CB	N
6059	CB	CB	N
6060	CB	CB	N
6062	CB	CB	N
6063	CB	CB	N
6073	CB	CB	N
6074	CB	CB	N
6075	CB	CB	N
6076	CB	CB	N
6079	CB	CB	N
6083	CB	CB	N
6084	CB	CB	N
6090	CB	CB	N
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Total Structures = 553

City of Oakwood MS4
Ditch Inventory 2021

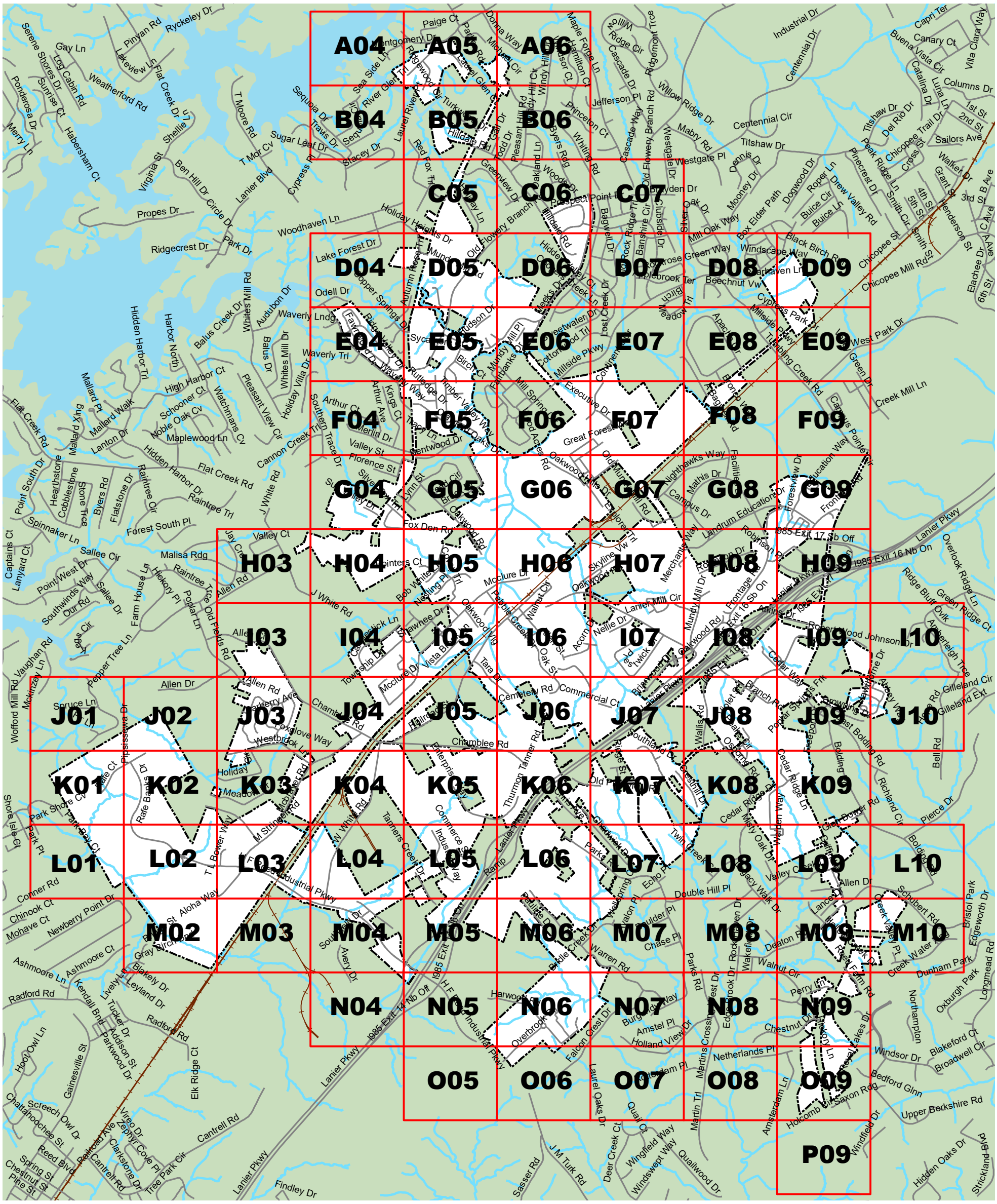
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47	44.37
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66	260.29
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199	934.44
203	242.87
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276	908.13
281	372.17
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408	1105.35
415	766.92
417	617.92
418	335.75
425	664.11
428	240.33
429	246.63
430	616.39
434	301.20
444	560.21
446	106.07
447	485.38
448	231.63
TOTAL	**92360.63**
	17.5 miles

Oakwood Stormwater Atlas


A04
A05
A06
B04
B05
B06
C05
C06
C07
D04
D05
D06
D07
D08
D09
E04
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F04
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N04
N05
N06
N07
N08
N09
O05
O06
O07
O08
O09
P09
Paige Ct
Donna Way
Michael Cir
Maple Forge Ln
Hamilton Ct
Willow Ridge Cir
Cascade Dr
Ridgemont Trce
Industrial Dr
Centennial Dr
Capri Ter
Canary Ct
Buena Vista Cir
Villa Clara Way
Catalina Dr
Luna Ln
Columns Dr
1st St
2nd St
Sailors Ave
Walker Dr
Grant St
Tenderson St
3rd St
4th St
5th St
Smith St
Smith Cir
Cross St
Chicopee Trail Dr
Peak Ridge Ln
Del Rio Dr
Titshaw Dr
Pinecrest Dr
Dogwood Dr
Roper Ln
Drew Valley Rd
Buice Cir
Buice Ln
Box Elder Path
Mooney Dr
Dennis Dr
Mabry Rd
Centennial Cir
Willow Ridge Dr
Jefferson Pl
Princeton Ct
Whiting Rd
Byers Rdg
Pleasant Hill Rd
Windy Hill Ct
Hamilton Ct
Cascade Way
Old Flowery Branch Rd
Westgate Dr
Westgate Pl
Oakland Ln
Woods Dr
Prospect Point Dr
Bagwell Dr
Banshire Cir
Silver Oak Dr
Mill Oak Way
Windscape Way
Black Birch Run
Chicopee St
Chicopee Mill Rd
Elachee Dr
6th St
A Ave
B Ave
C Ave
Gilleland Cir
Gilleland Ext
Abbey Village Dr
Aldersleigh Tree
Green Ridge Ct
Overlook Ridge Ln
Ridge Bluff Ovlk
Robert Wood Johnson Dr
Lanier Pkwy
1985 Exit 16 Nb On
1985 Exit 16 Sb On
1985 Exit 17 Sb Off
Frontage Rd
Robinson Pl
Merchants Way
Landrum Education Dr
Forestview Dr
Education Way
Campus Dr
Mathis Dr
Nighthawks Way
Facility Dr
Explorer Trl
Old Mundy Mill Rd
Oakwood Hills Dr
Great Forest Dr
Pod Acres Rd
Executive Dr
Millside Pkwy
Tumbling Creek Rd
Green Dr
Creek Mill Ln
Cypress Pointe Dr
West Park Dr
Meadow Trl
Lost Creek Dr
Continental Dr
Apache Dr
Apache Trl
Cherokee Way
Cottonwood Trl
Creekwater Dr
Fairbanks Dr
Mundy Mill Pl
Birch Ct
Timber Valley Way
Rutledge Dr
Kings Ct
Arthur Ave
Arthur Ct
Merlin Dr
Tracy Ln
Valley St
Florence St
Lynn St
Brentwood Dr
Oak Dr
Oakwood Rd
Fox Den Rd
Pointers Ct
Bob White Ct
Nesting Pl Trl
Mcclure Dr
Pebble Creek Ln
Walnut Cir
Lanier Mill Cir
Nellie Dr
Acorn Dr
Oak St
Mundy Mill Dr
Arkins Dr
Oakwood Rd
Oakwood Vlg
Shawnee Dr
Township Dr
Vista Blvd
Tara Dr
Cemetery Rd
Commercial Ct
Briarwood Dr
Lanier Pkwy
Cedar Way
Dawsonville Hwy
Poplar Springs Frk
Browning Dr
Lewis Mill Rd
Freeport Rd
Bell Rd
East Bolding Rd
Bolding Rd
Richland Cir
Pierce Dr
Cedar Ridge Dr
Cedar Ridge Ln
Misty Oak Dr
Glen Bower Rd
Green Bower Rd
Windscape Way
Black Birch Run
Beechnut Vw
Applebrook Ter
Rose Green Way
Silver Oak Dr
Banshire Cir
Old Flowery Branch Rd
Bagwell Dr
Prospect Point Dr
Woods Dr
Oakland Ln
Hilldale Rd
Hilldale Dr
Red Fox Trl
Greenview Dr
Todd Dr
Gail Dr
Pleasant Hill Rd
Windy Hill Ct
Hamilton Ct
Maple Forge Ln
Princeton Ct
Whiting Rd
Byers Rdg
Jefferson Pl
Willow Ridge Dr
Mabry Rd
Centennial Cir
Titshaw Dr
Dennis Dr
Mooney Dr
Dogwood Dr
Roper Ln
Drew Valley Rd
Buice Cir
Buice Ln
Box Elder Path
Pinecrest Dr
Peak Ridge Ln
Chicopee Trail Dr
Del Rio Dr
Titshaw Dr
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Smith Cir
Smith St
5th St
4th St
Grant St
Walker Dr
Tenderson St
3rd St
Sailors Ave

Oakwood Stormwater Atlas

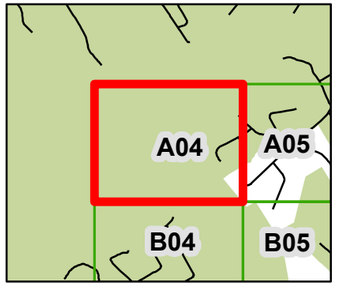


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



A04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

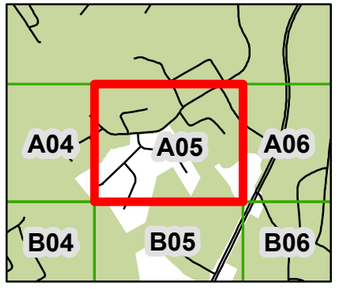
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



A05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

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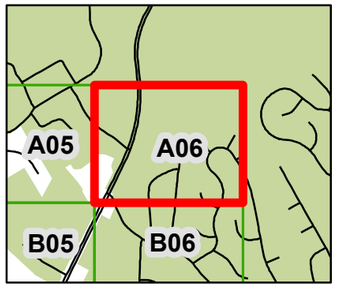
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



A06

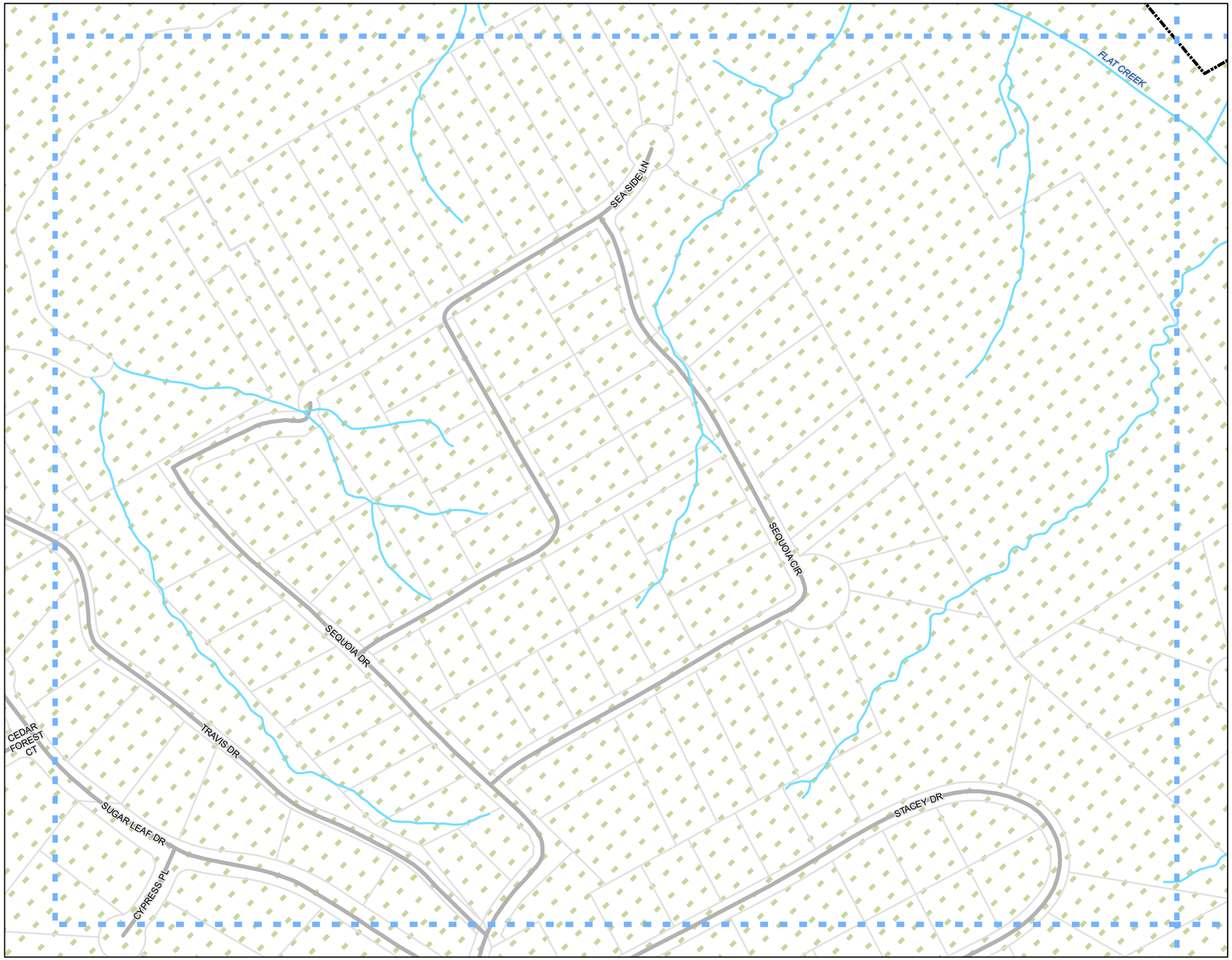
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

DONNA WAY
MCEVER RD
MCEVER RD
FLAT CREEK
Flat Creek
HAMILTON CT
MAPLE FORGE LN
LEXINGTON CT
MOUNT VERNON CT
WINDY HILL CIR
WINDY HILL DR
WINDSOR CT
WHITING RD
A10006
A10004
A10007
A10003
A10005
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A10012
A10013

Oakwood Stormwater Atlas

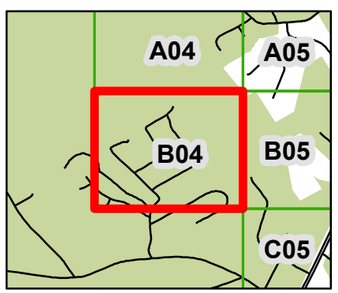


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



B04

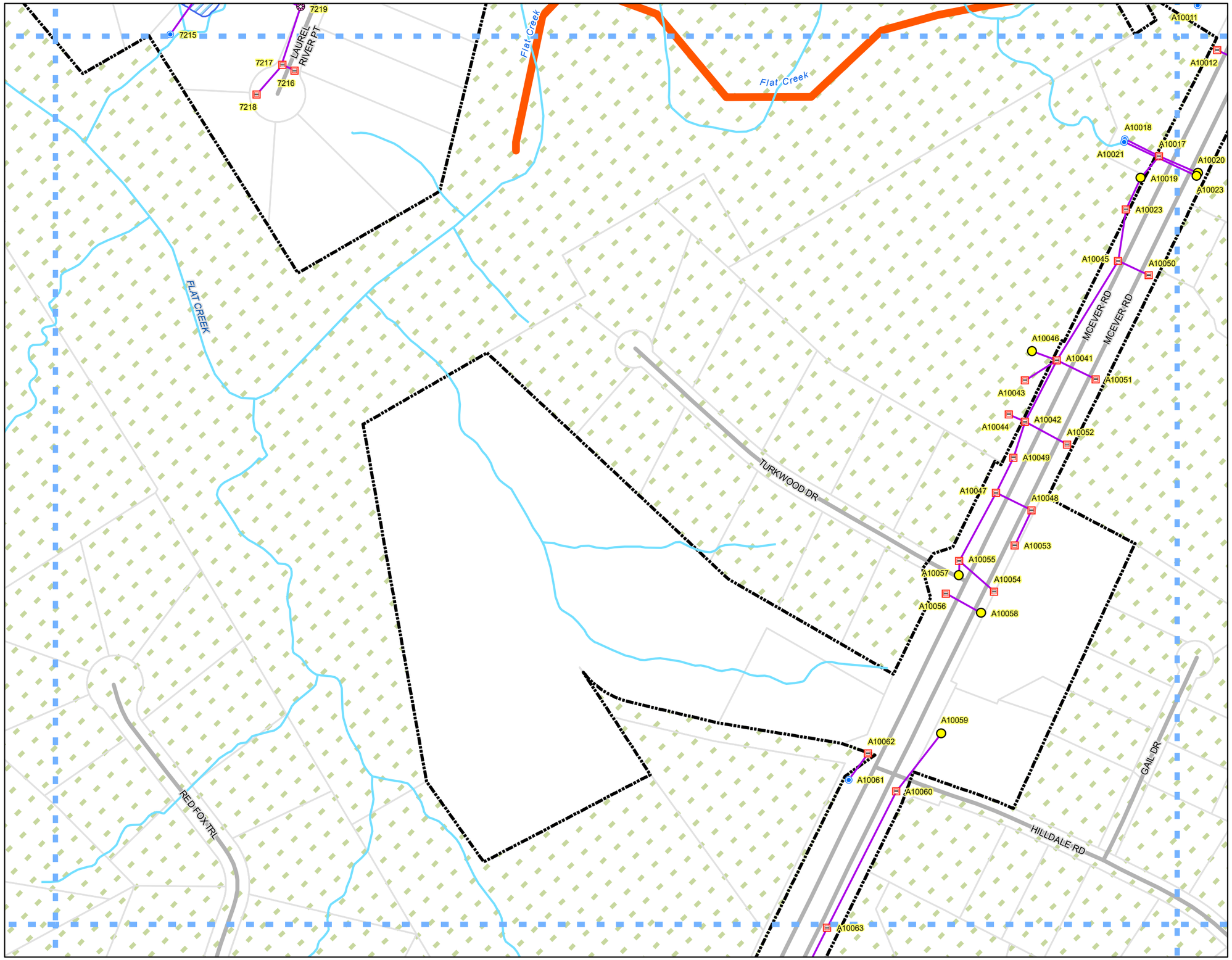
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

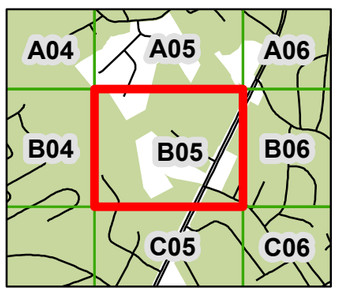


Legend

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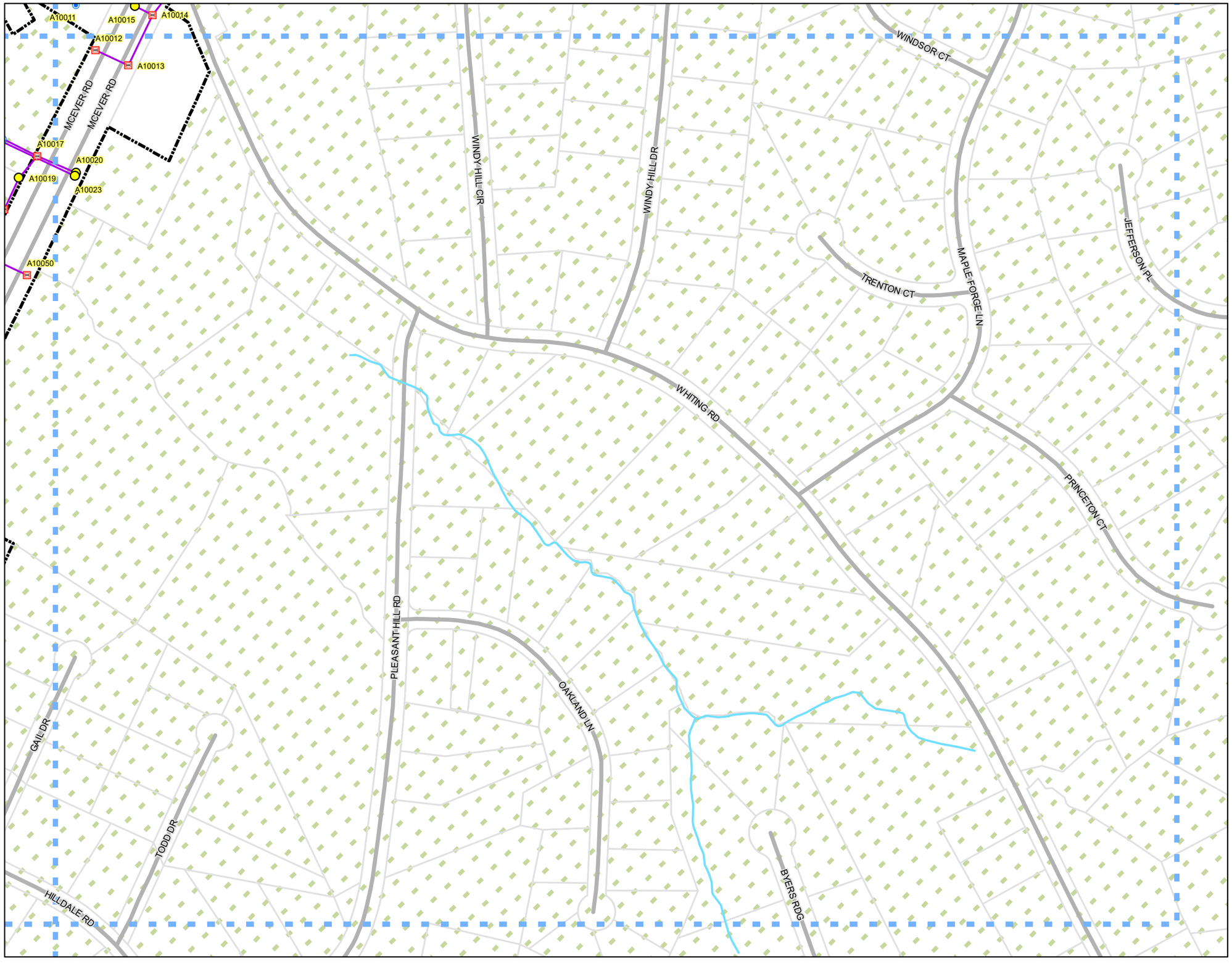
B05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

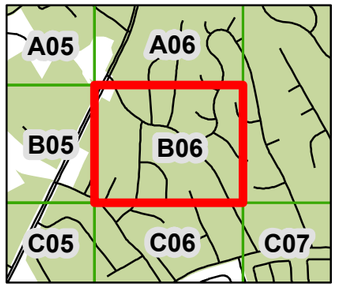


Legend

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B06

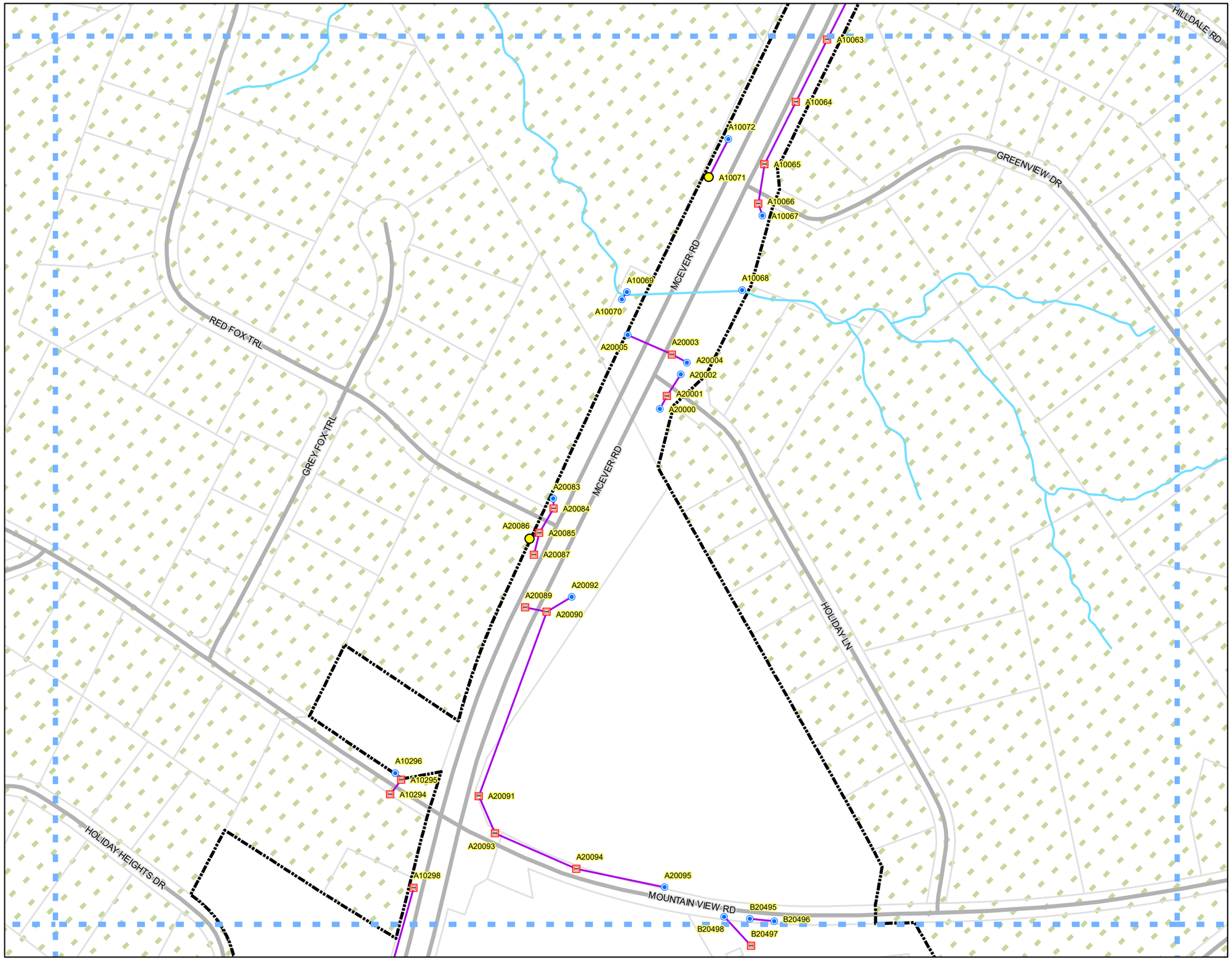
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

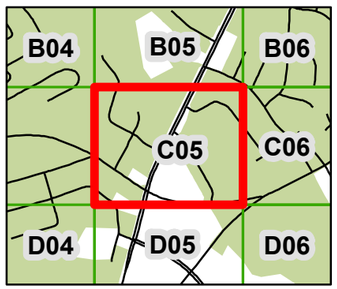


Legend

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C05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

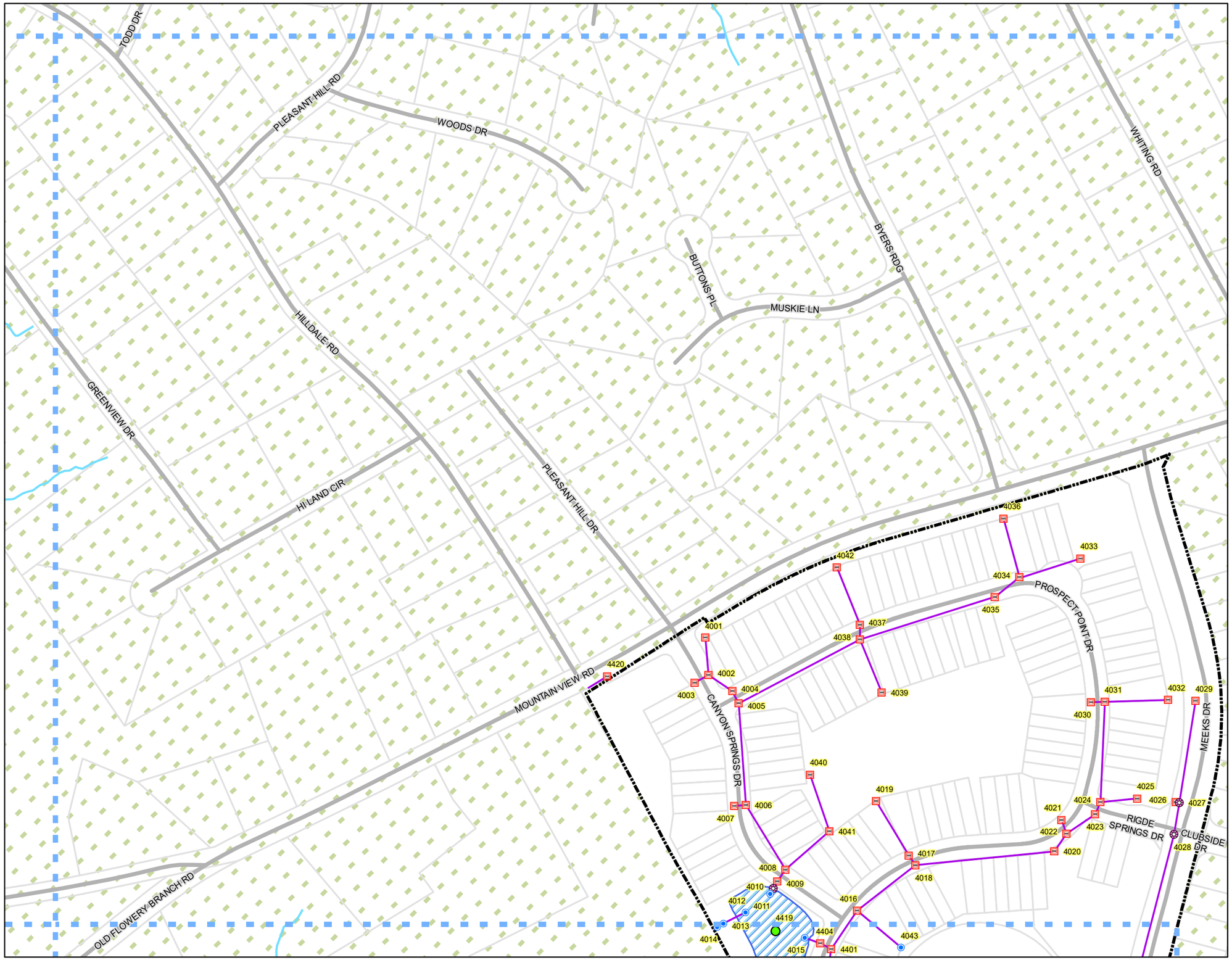
N

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

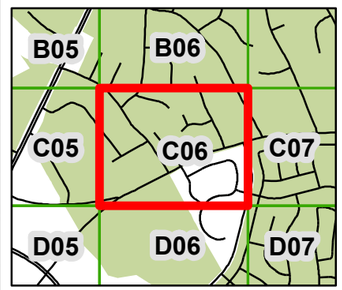


Legend

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C06

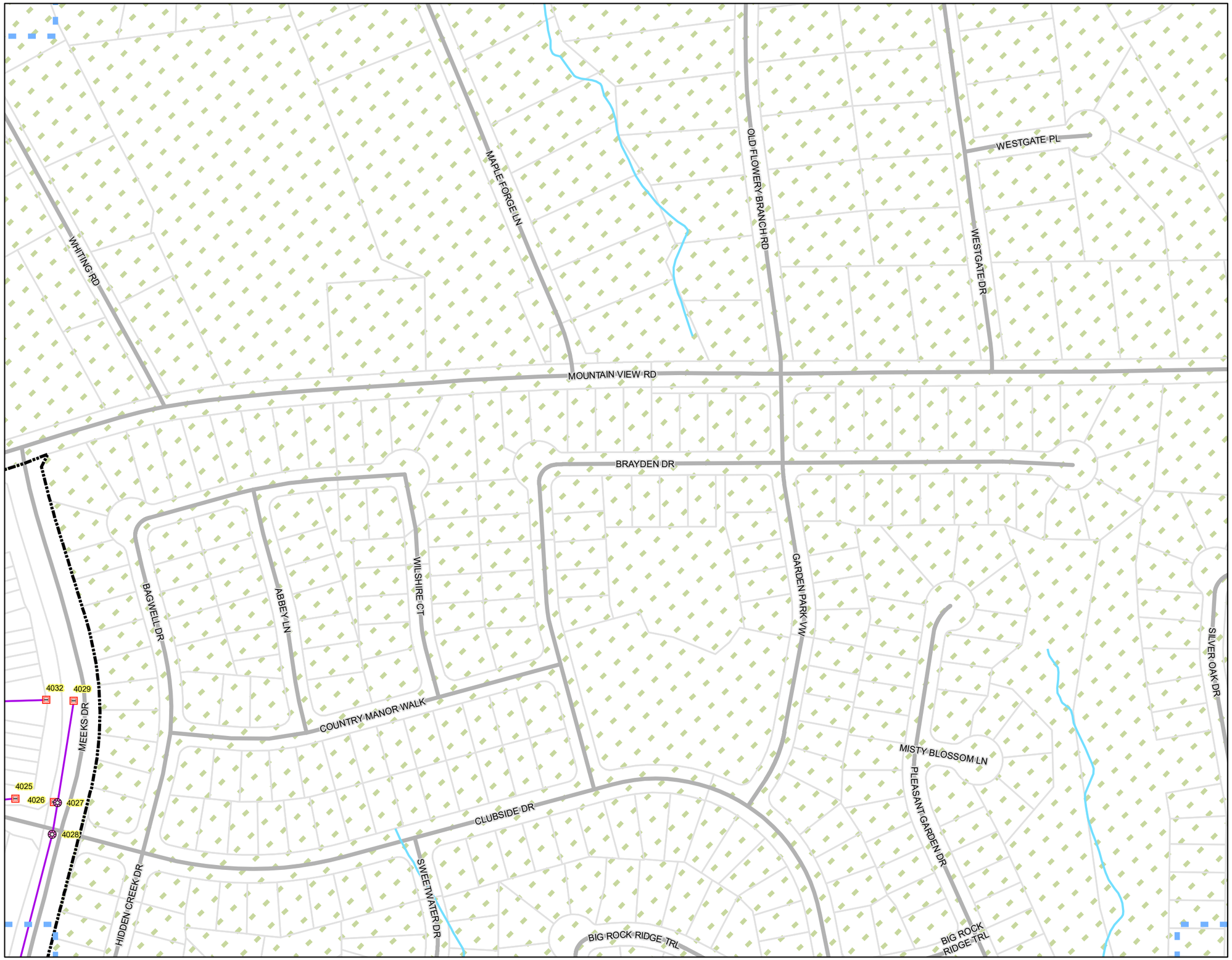
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

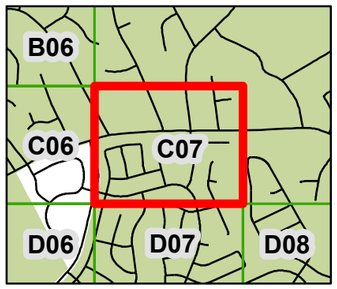


Legend

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C07

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

HOLIDAY HEIGHTS DR

LAKE FOREST DR

BALUS CREEK

Balus Creek

ODELL DR

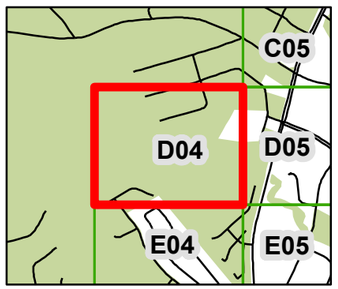
WAVERLY WAY

Legend

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D04

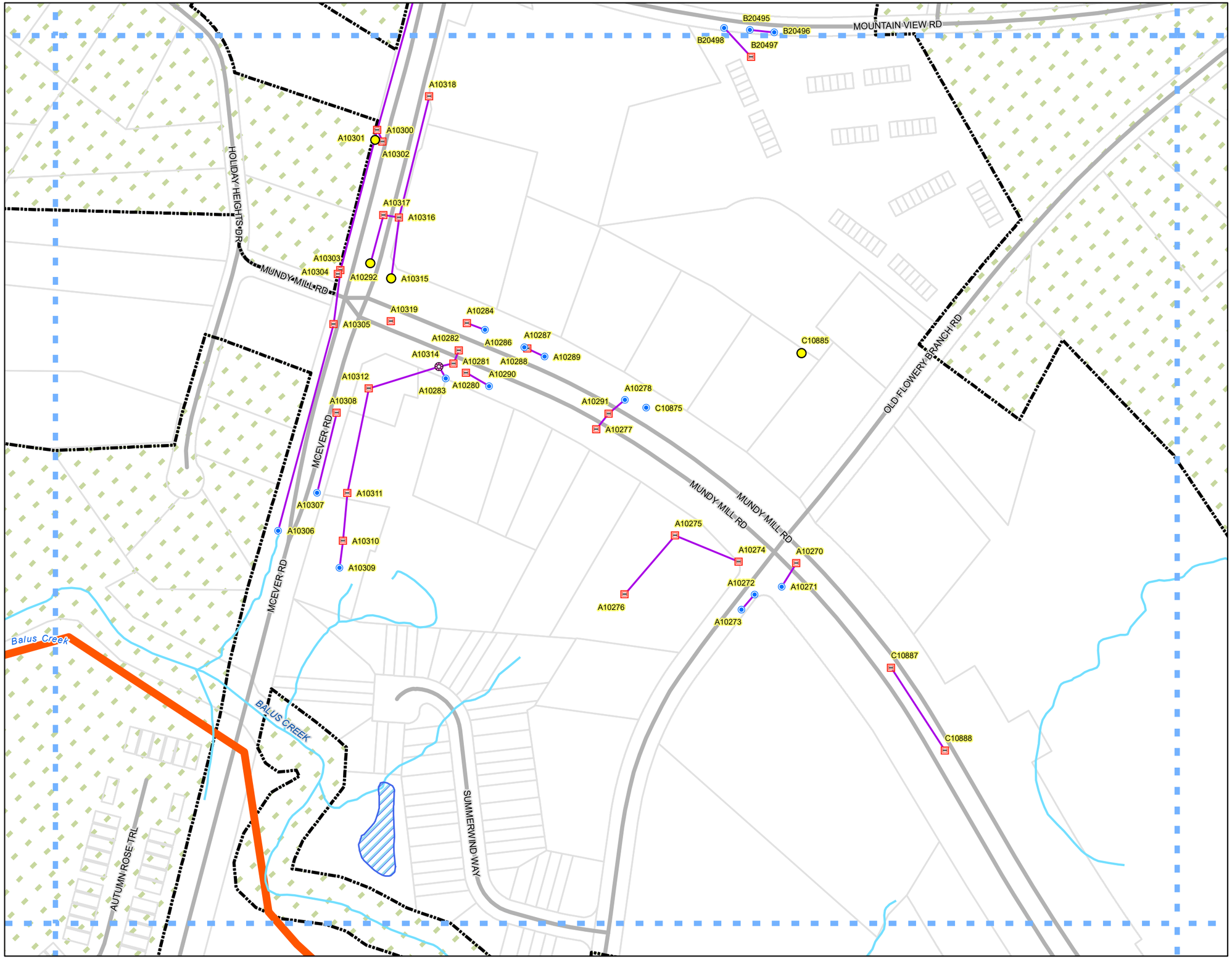
CITY OF OAKWOOD
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Gainesville - Hall County GIS

1 in = 200 ft

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Oakwood Stormwater Atlas

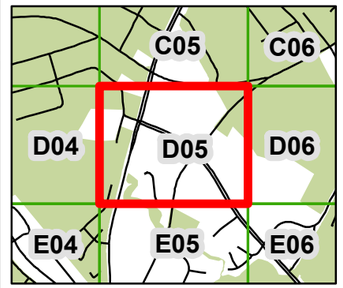


Legend

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D05

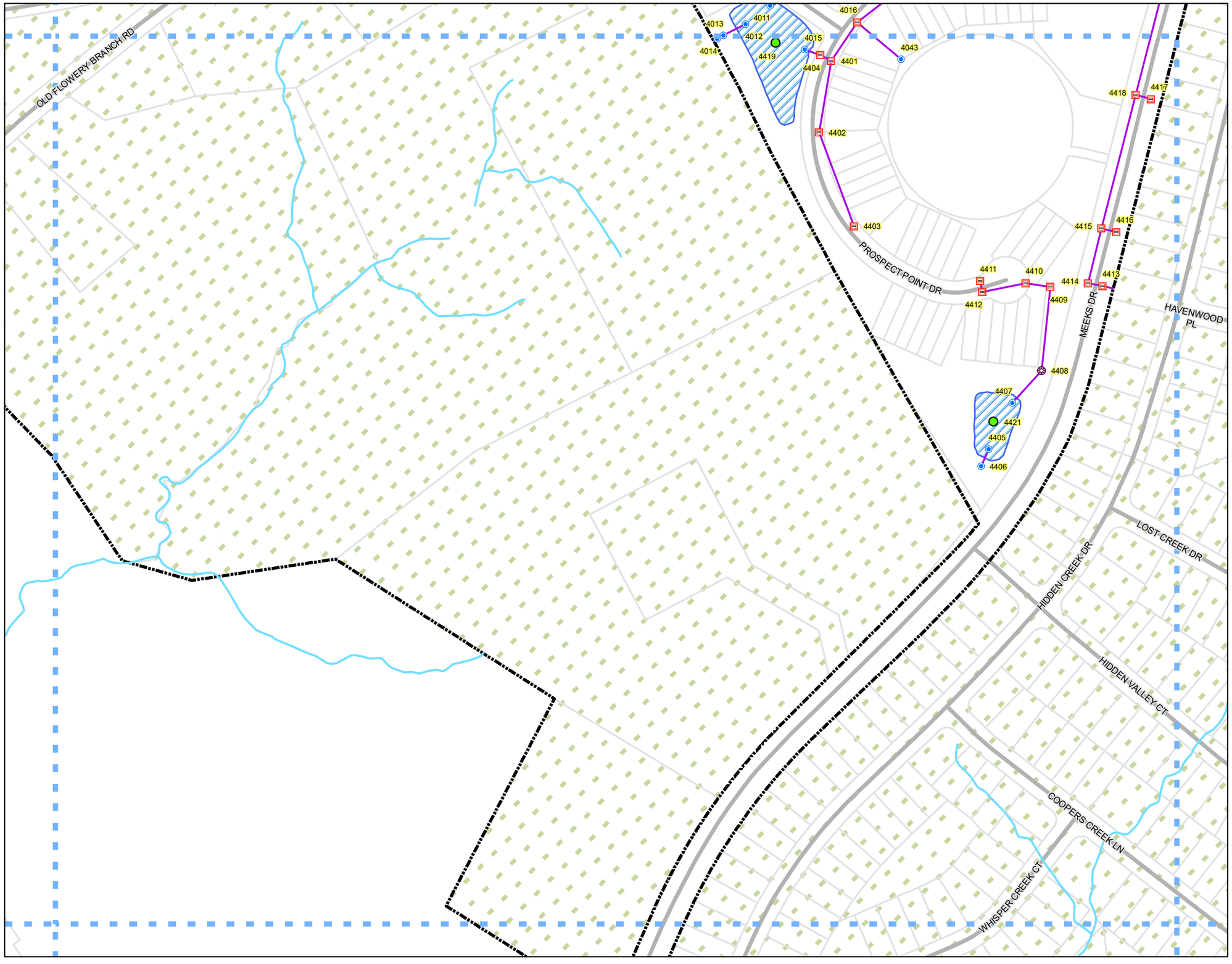
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

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Oakwood Stormwater Atlas

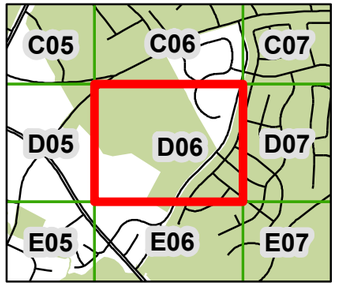


Legend

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D06

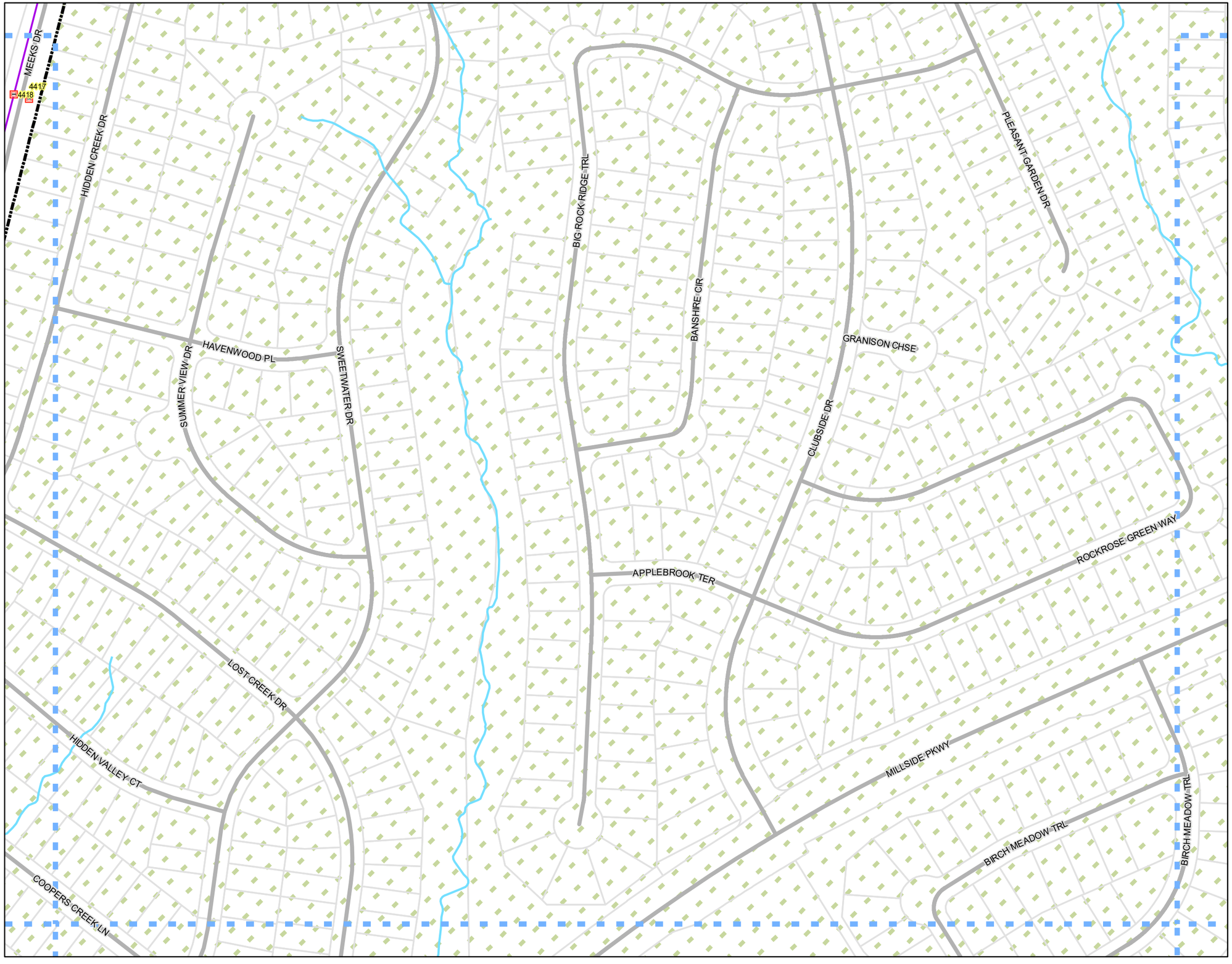
CITY OF OAKWOOD
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Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

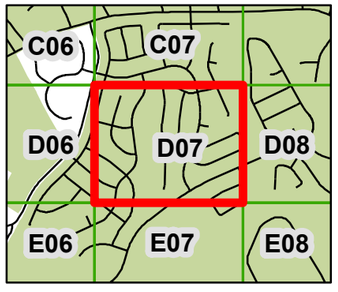


Legend

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D07

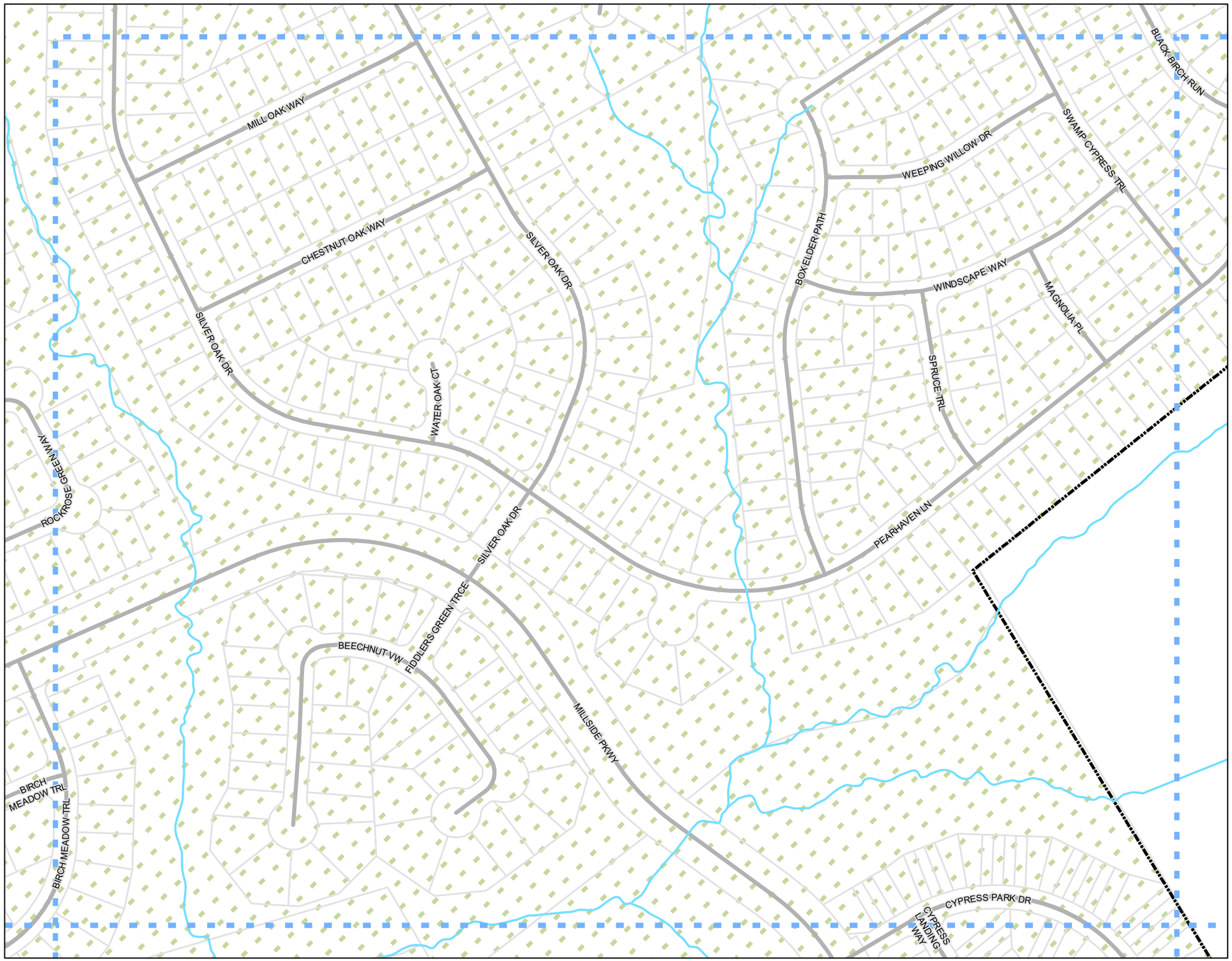
CITY OF OAKWOOD
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Gainesville - Hall County GIS

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Oakwood Stormwater Atlas

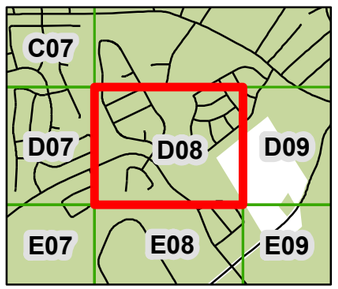


Legend

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D08

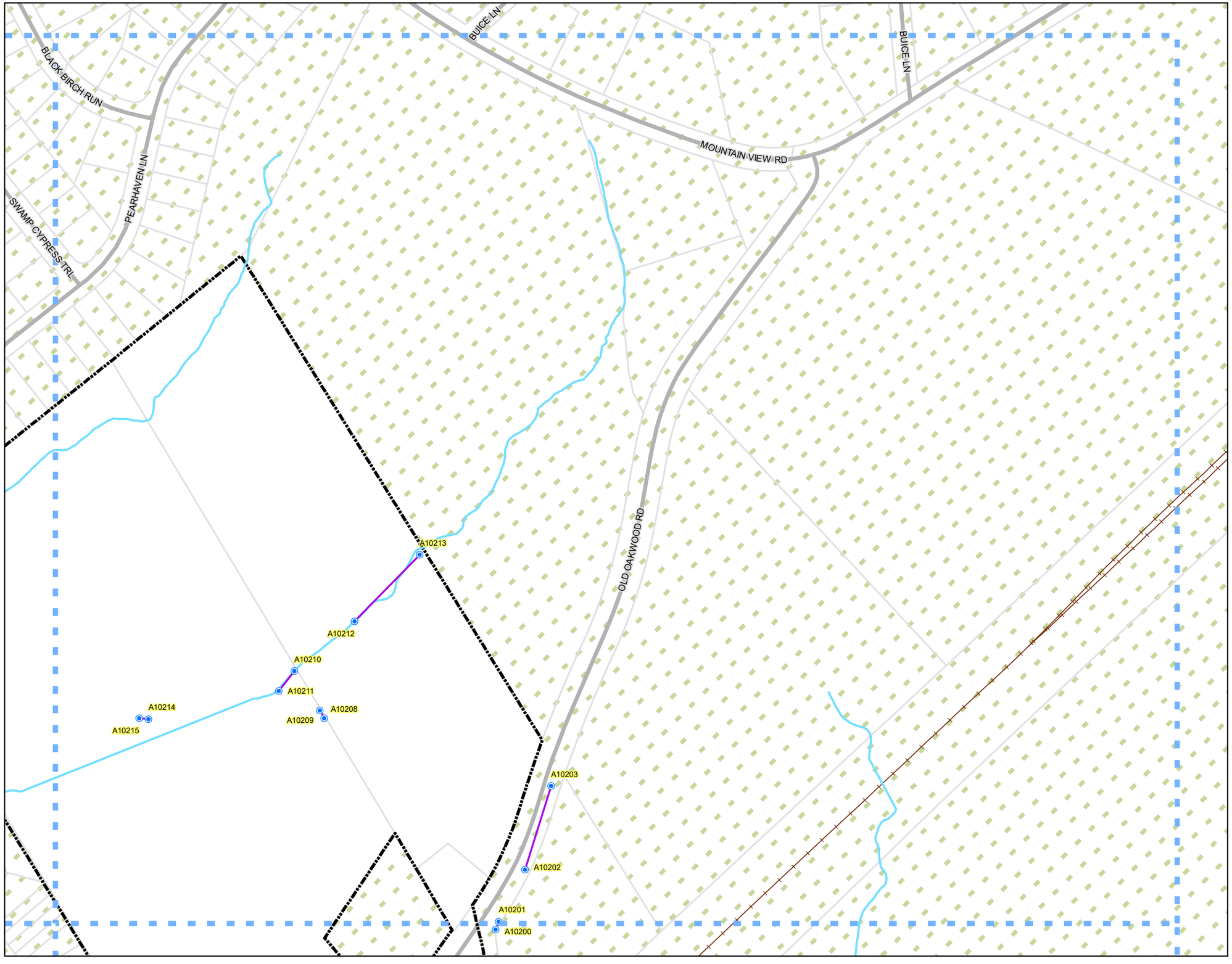
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

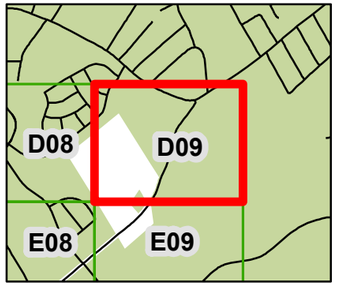


Legend

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D09

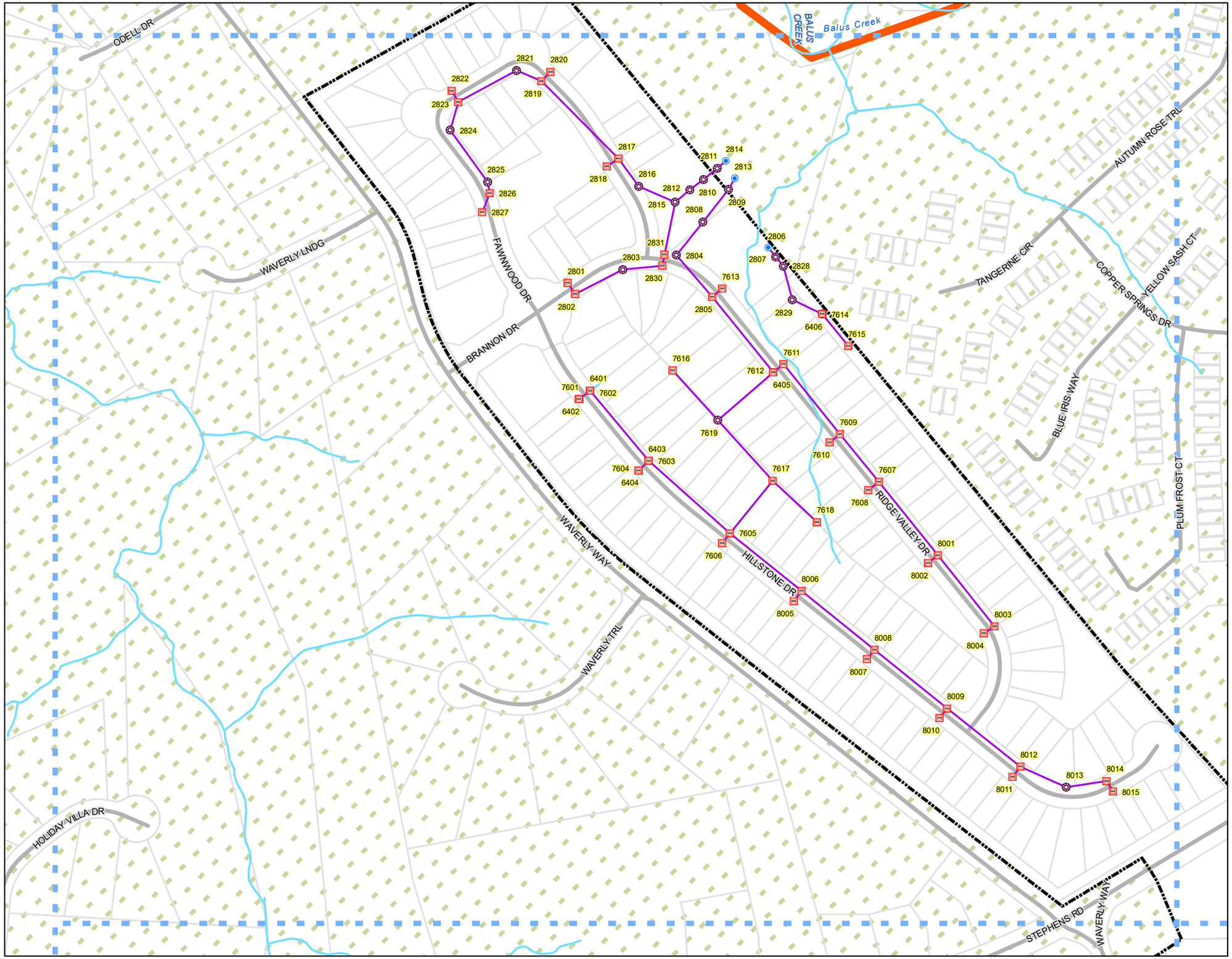
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

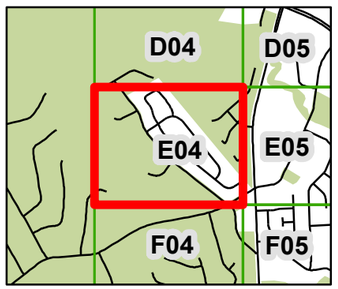


Legend

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E04

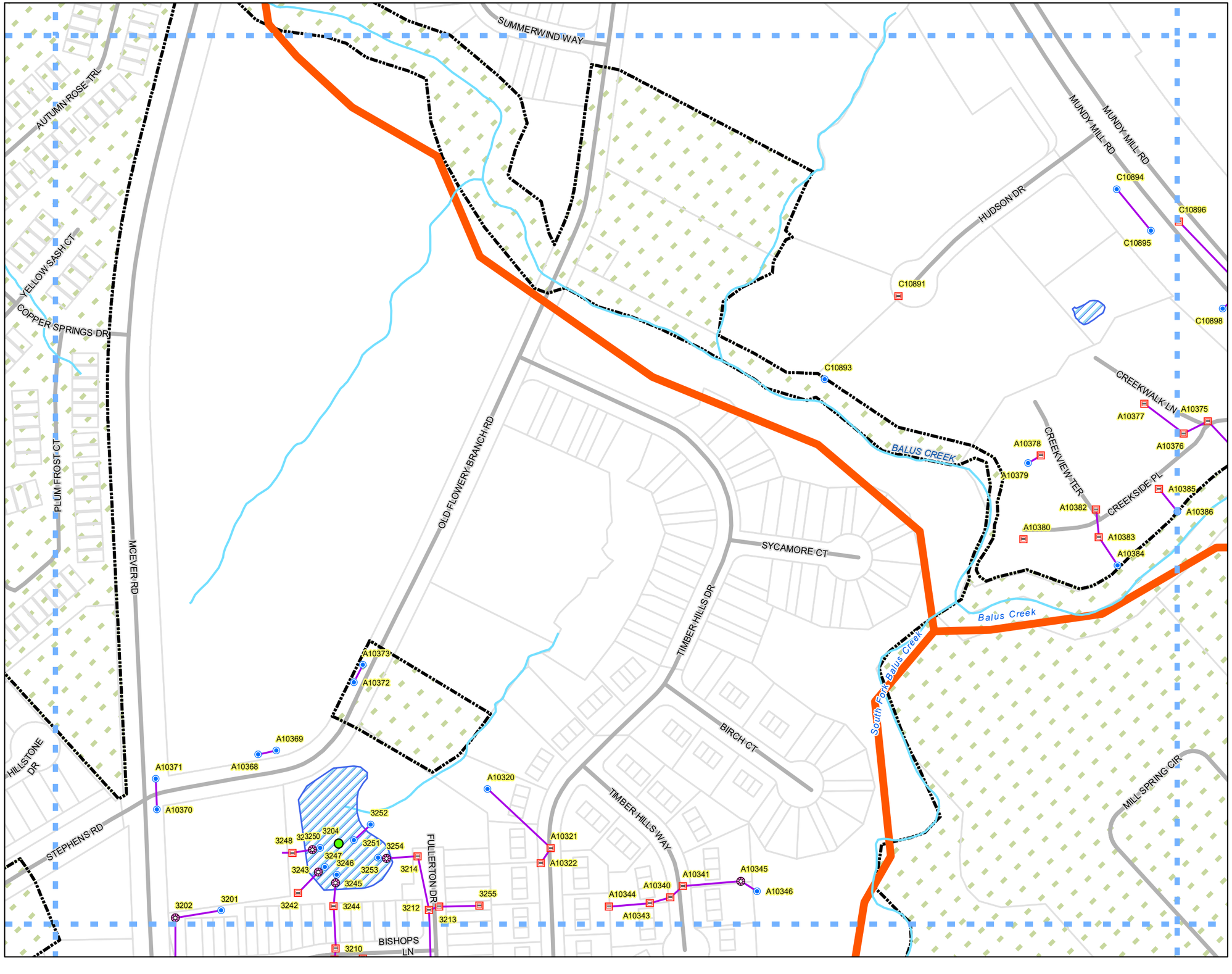
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

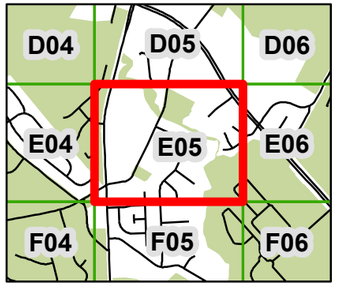


Legend

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E05

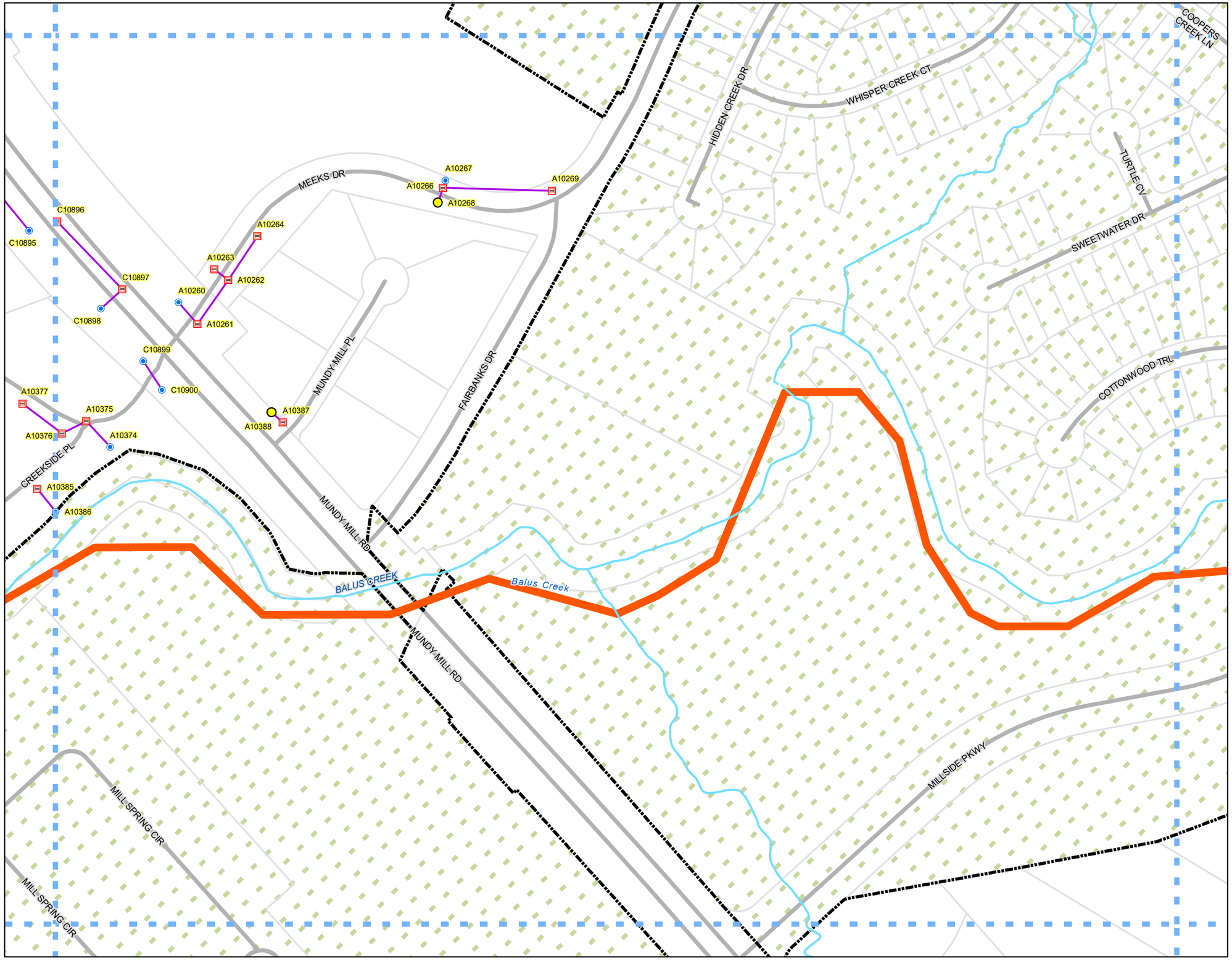
CITY OF OAKWOOD
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Gainesville - Hall County GIS

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Oakwood Stormwater Atlas

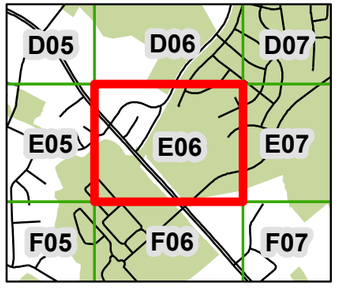


Legend

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E06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

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Oakwood Stormwater Atlas

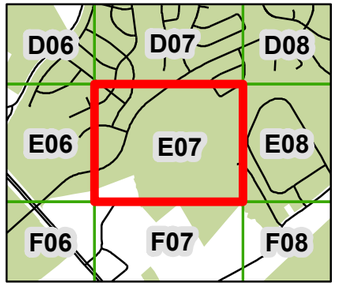


Legend

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E07

CITY OF OAKWOOD
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Gainesville - Hall County GIS

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Oakwood Stormwater Atlas

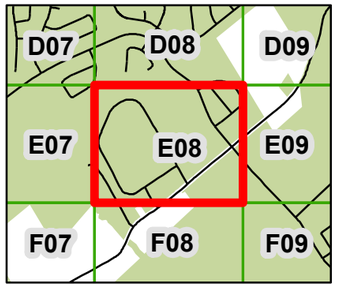


Legend

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E08

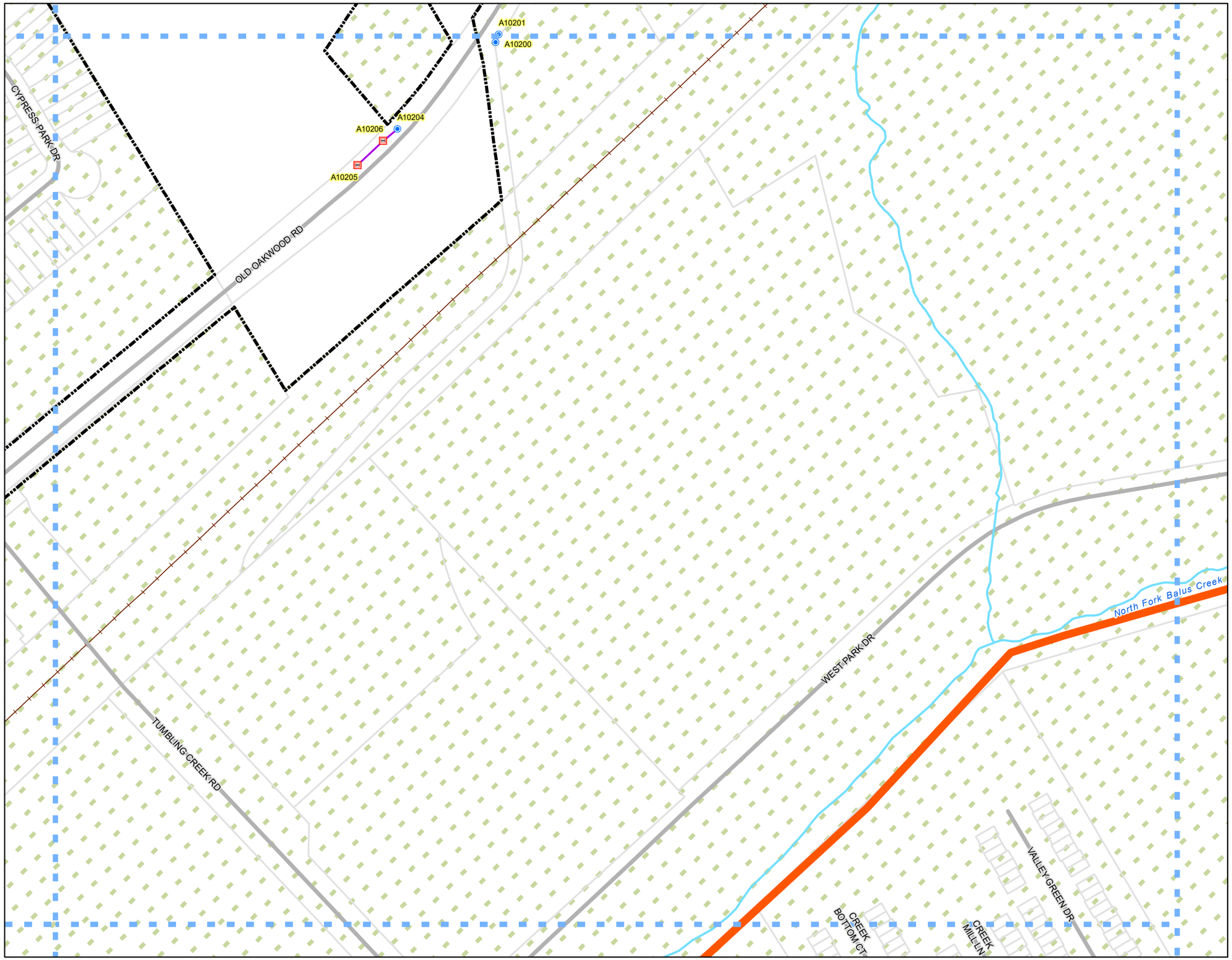
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

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Oakwood Stormwater Atlas

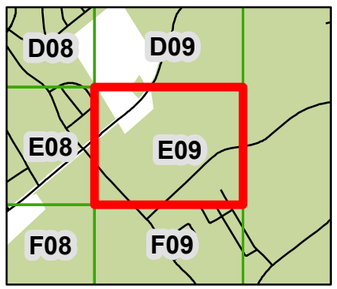


Legend

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E09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

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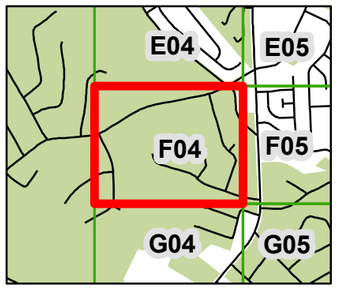
Oakwood Stormwater Atlas

Legend

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F04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

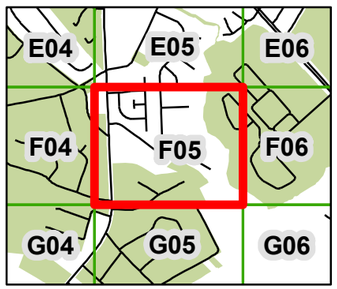
Oakwood Stormwater Atlas

Legend

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F05

CITY OF OAKWOOD
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Oakwood Stormwater Atlas

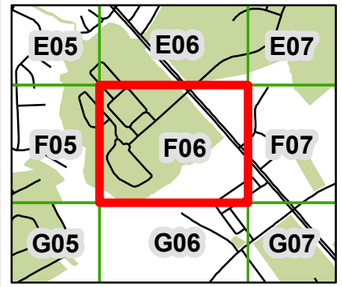


Legend

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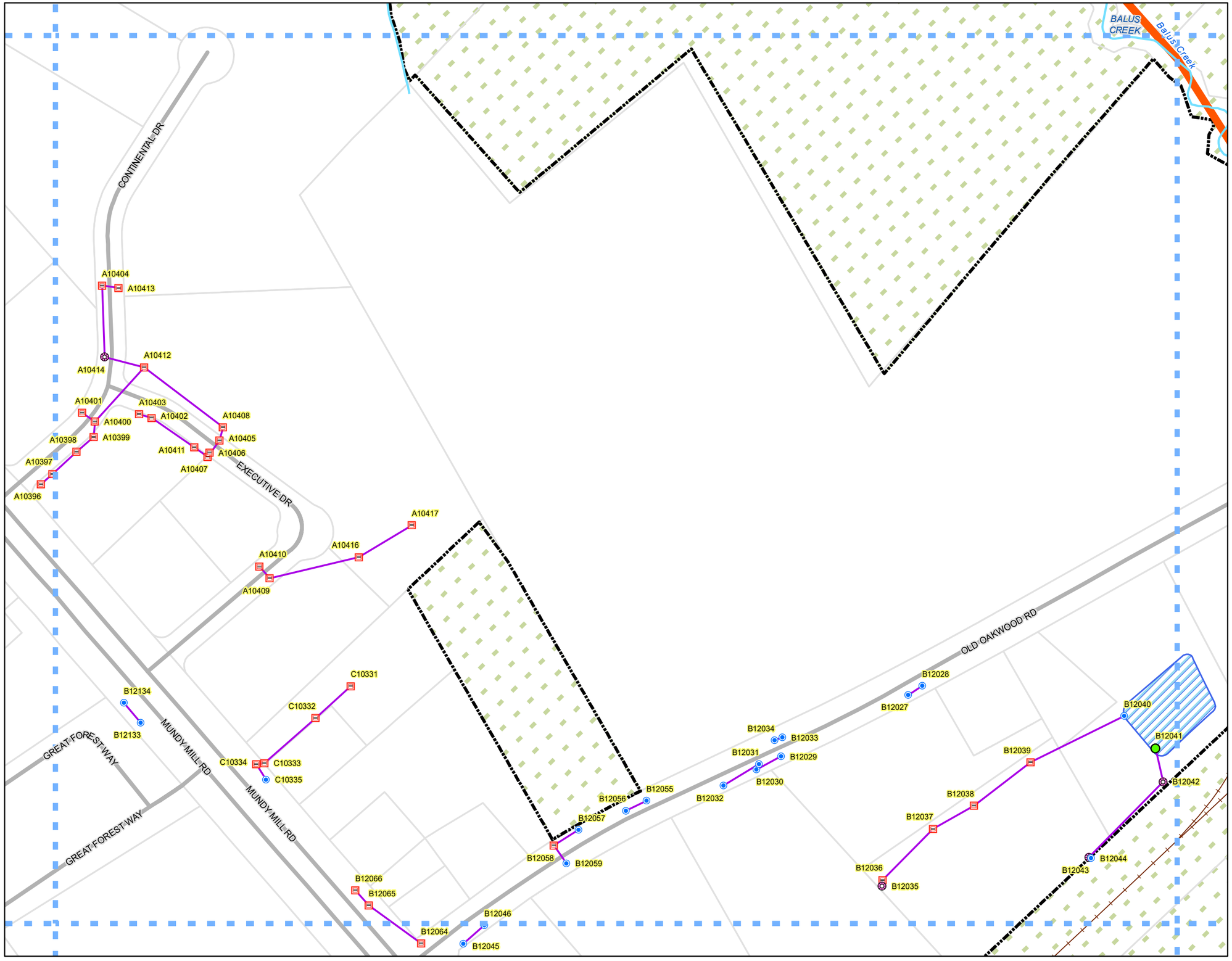
F06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

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Date: 2/14/2023

Oakwood Stormwater Atlas

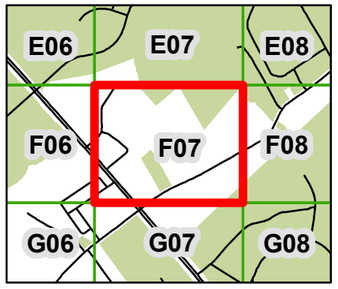


Legend

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F07

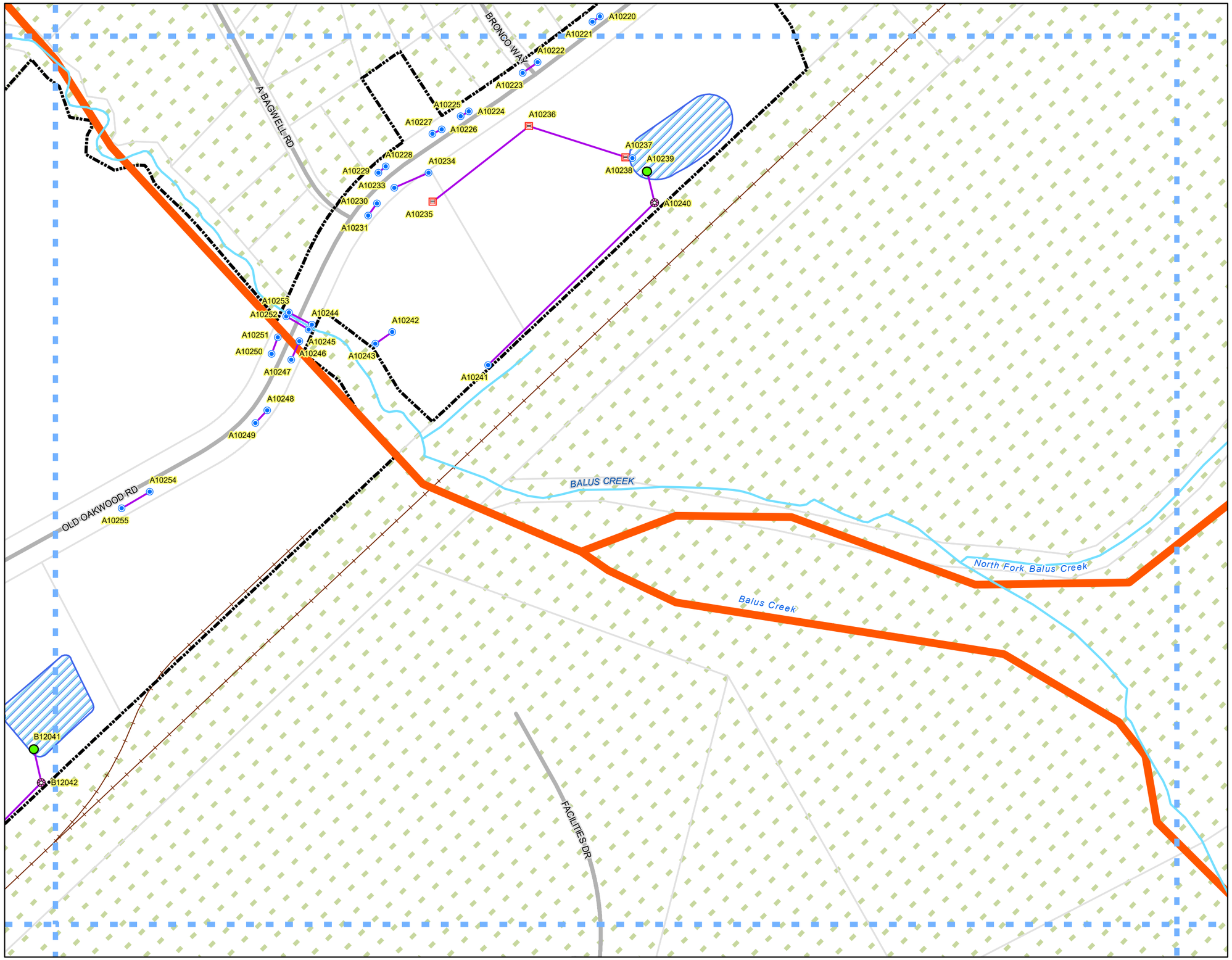
CITY OF OAKWOOD
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Gainesville - Hall County GIS

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Date: 2/14/2023

Oakwood Stormwater Atlas

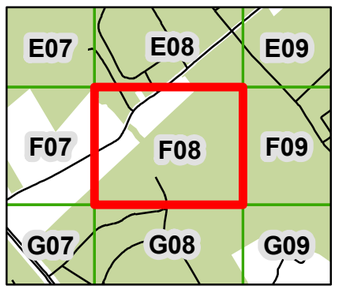


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



F08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas



Legend

- Catch Basin
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- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel

F09

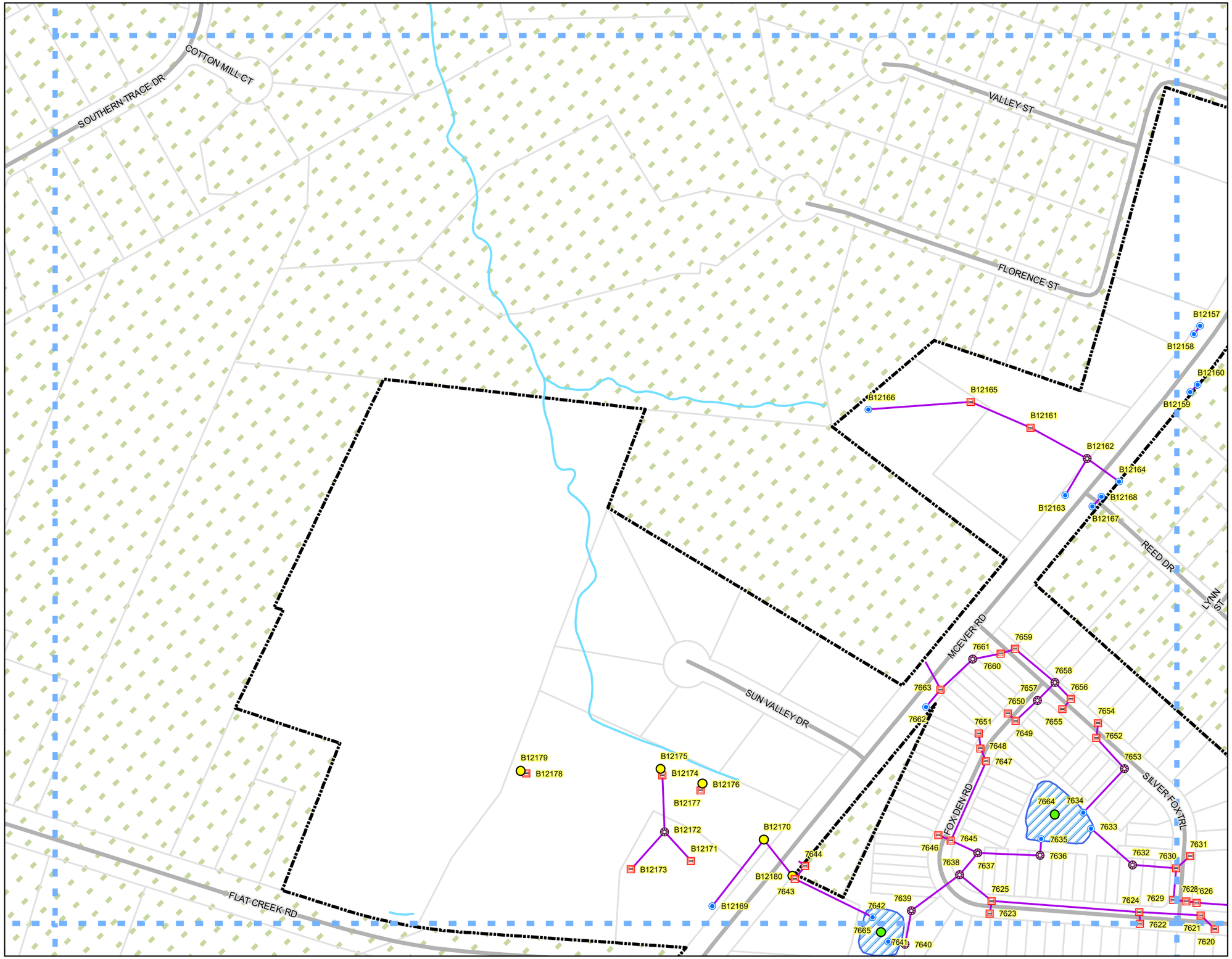
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

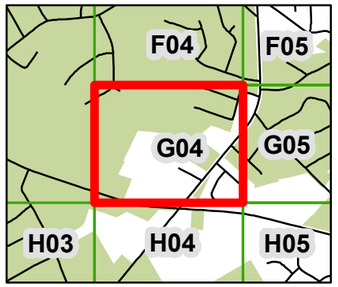


Legend

- Catch Basin
- Difficult Access
- Junction Box
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- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
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- Parcel



G04

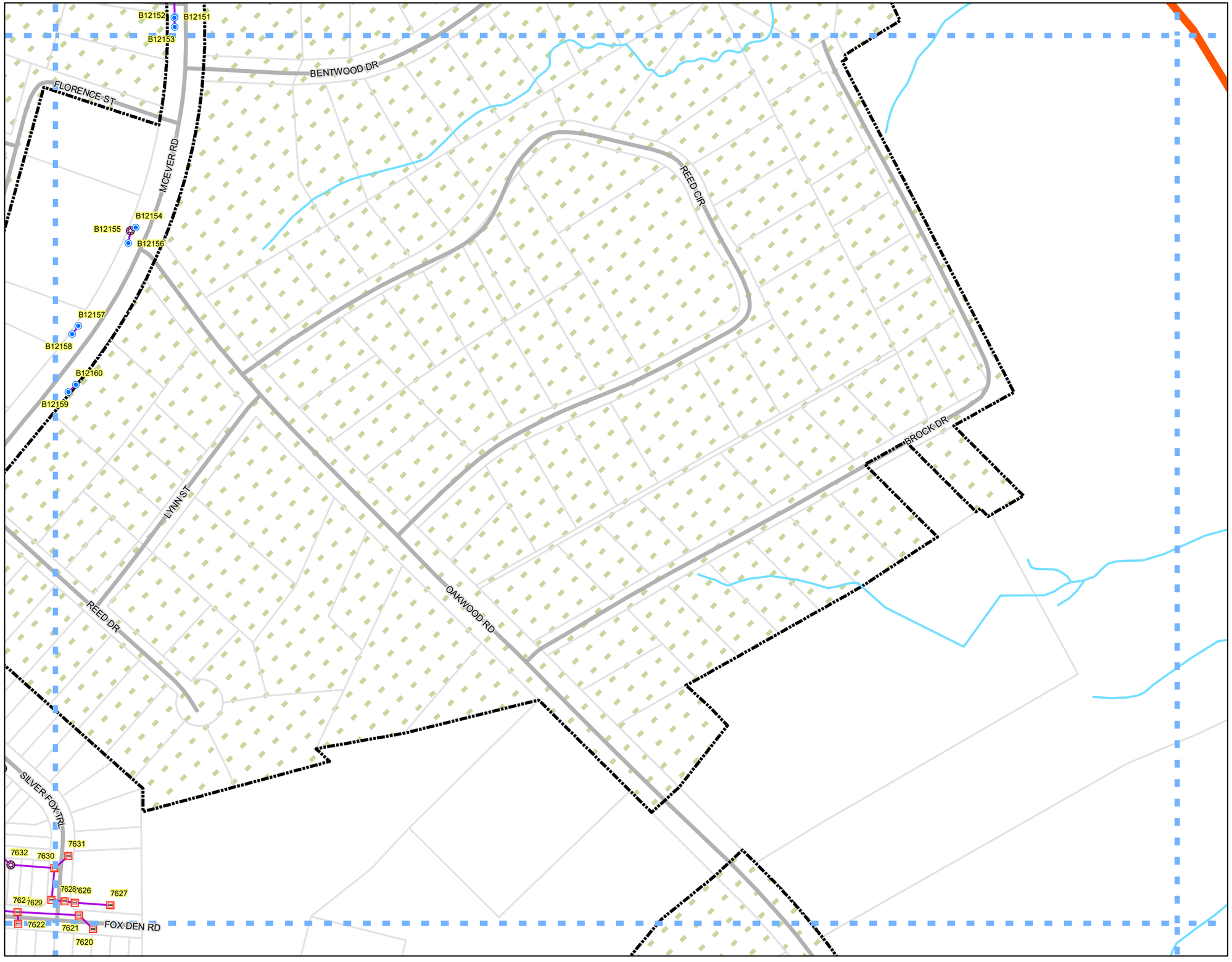
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

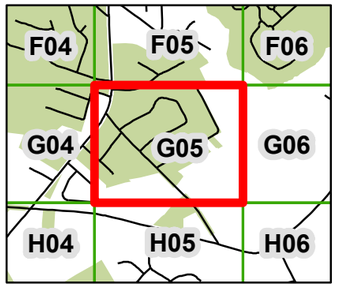


Legend

- Catch Basin
- Difficult Access
- Junction Box
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- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
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- Parcel



G05

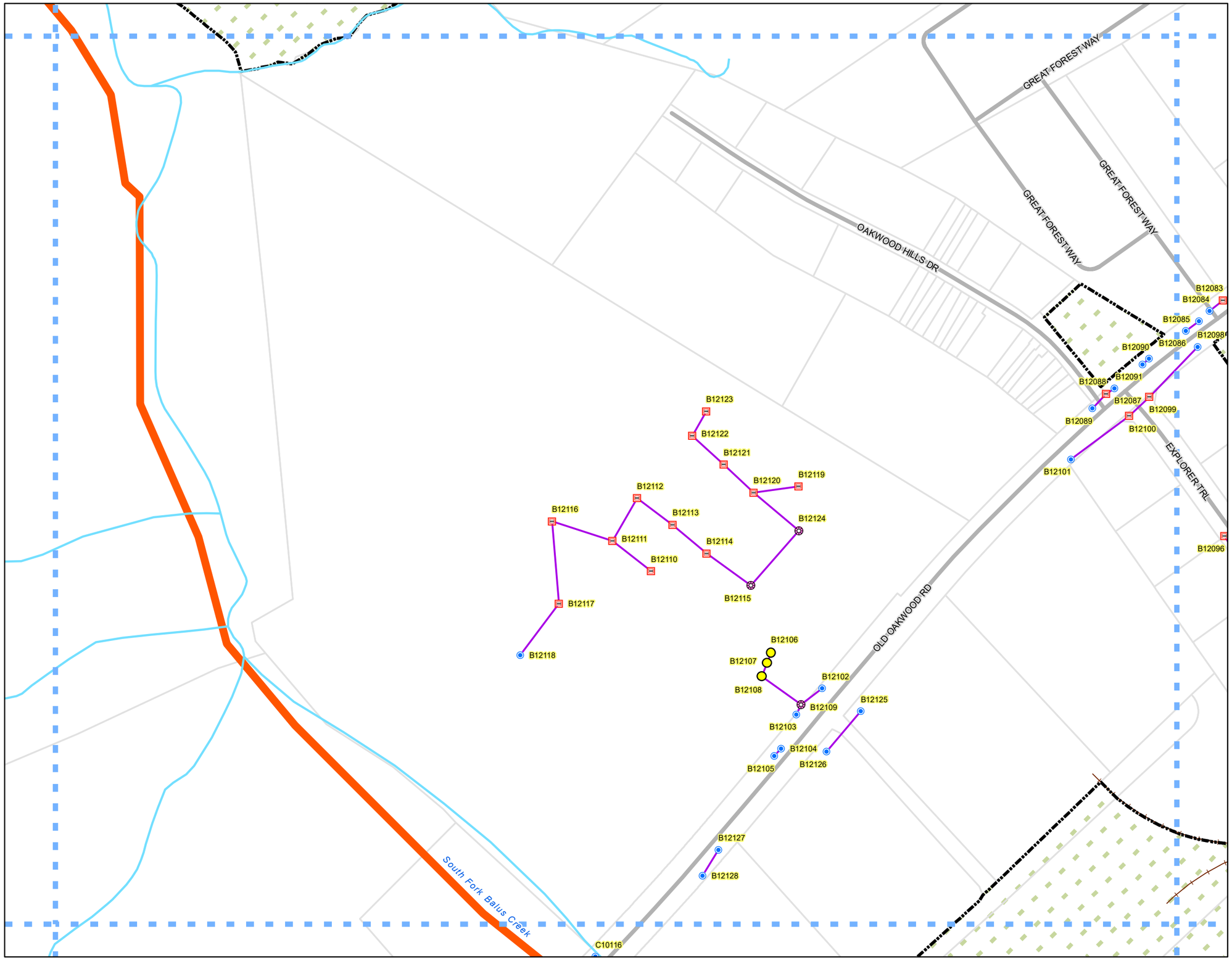
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

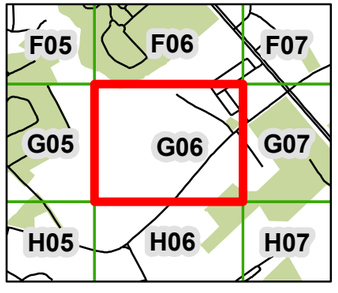


Legend

- Catch Basin
- Difficult Access
- Junction Box
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- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
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G06

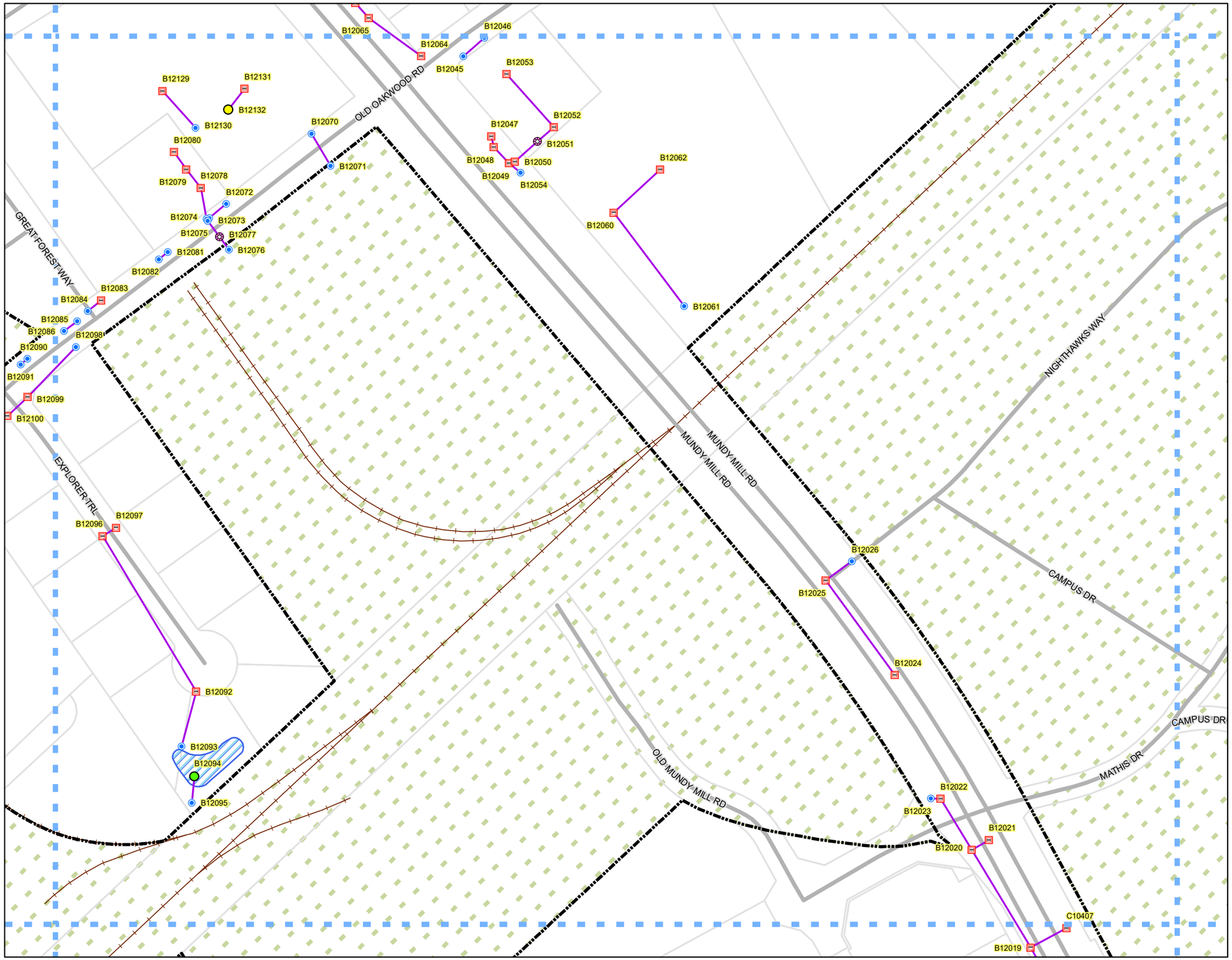
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

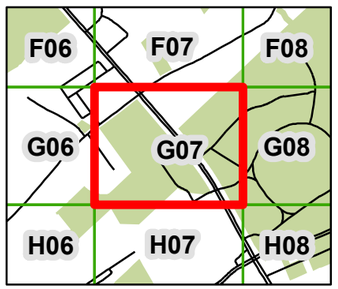


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



G07

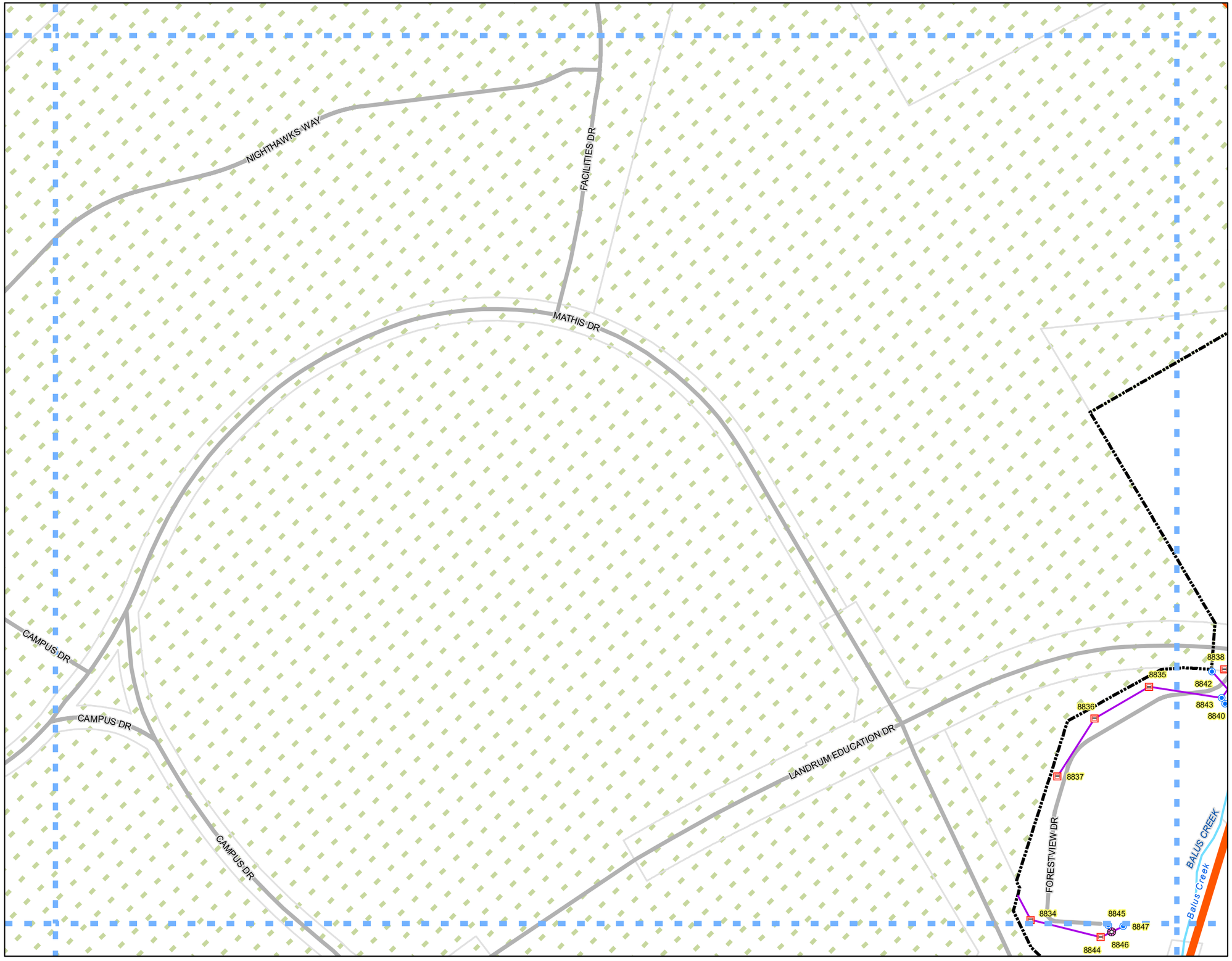
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

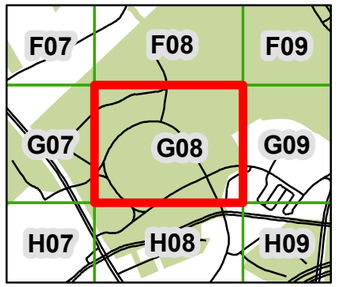


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

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- Parcel



G08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

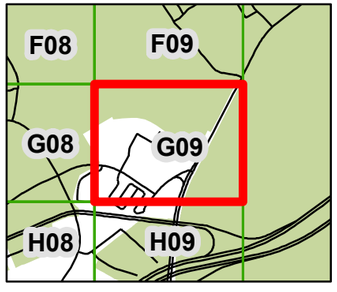
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
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- Pond Structure
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- Storm_Pond
- Streams

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G09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

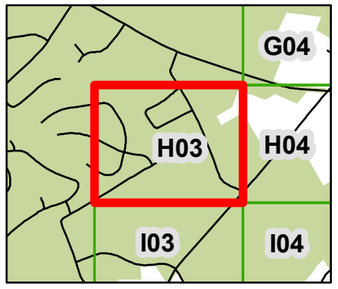
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
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- Streams

Impared Streams

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- Parcel



H03

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

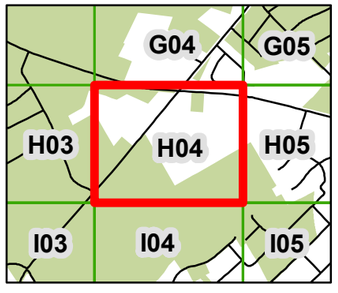
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
- City Limits
- Parcel



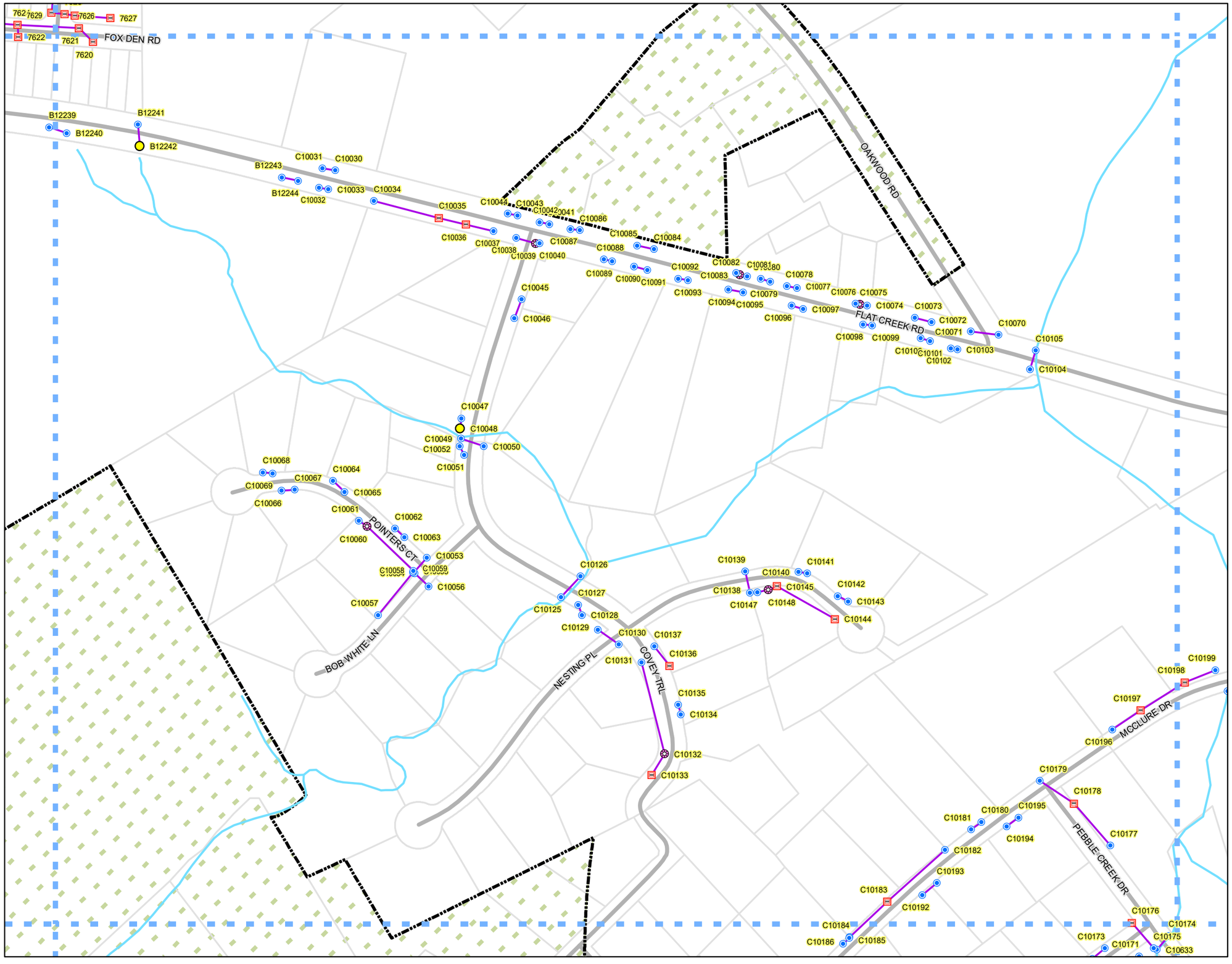
H04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

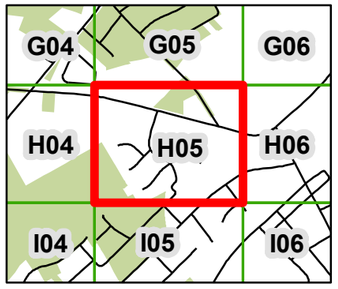


Legend

- Catch Basin
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- Pond Structure
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- Storm_Pond
- Streams

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H05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

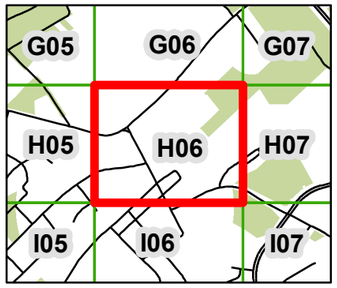
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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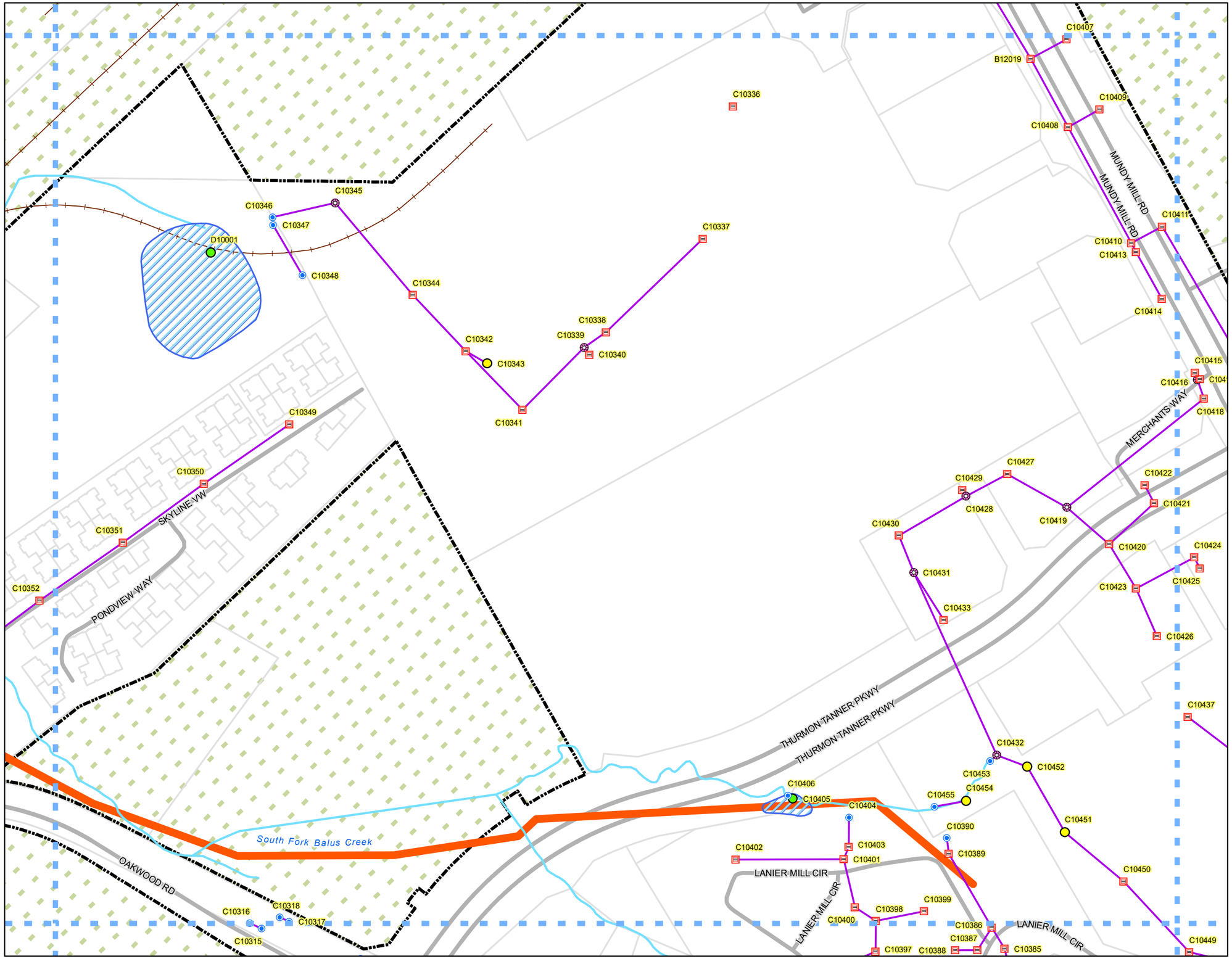
H06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

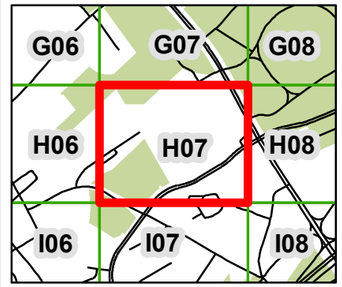


Legend

- Catch Basin
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- Junction Box
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- Pond Structure
- PIPES
- Storm_Pond
- Streams

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- Parcel



H07

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

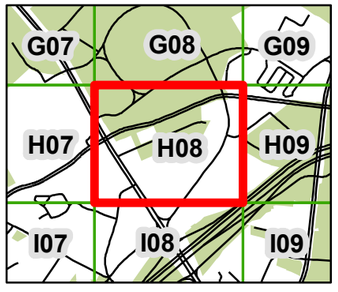
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
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- PIPES
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H08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

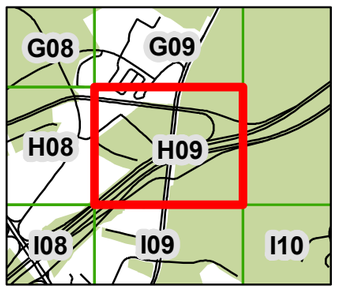
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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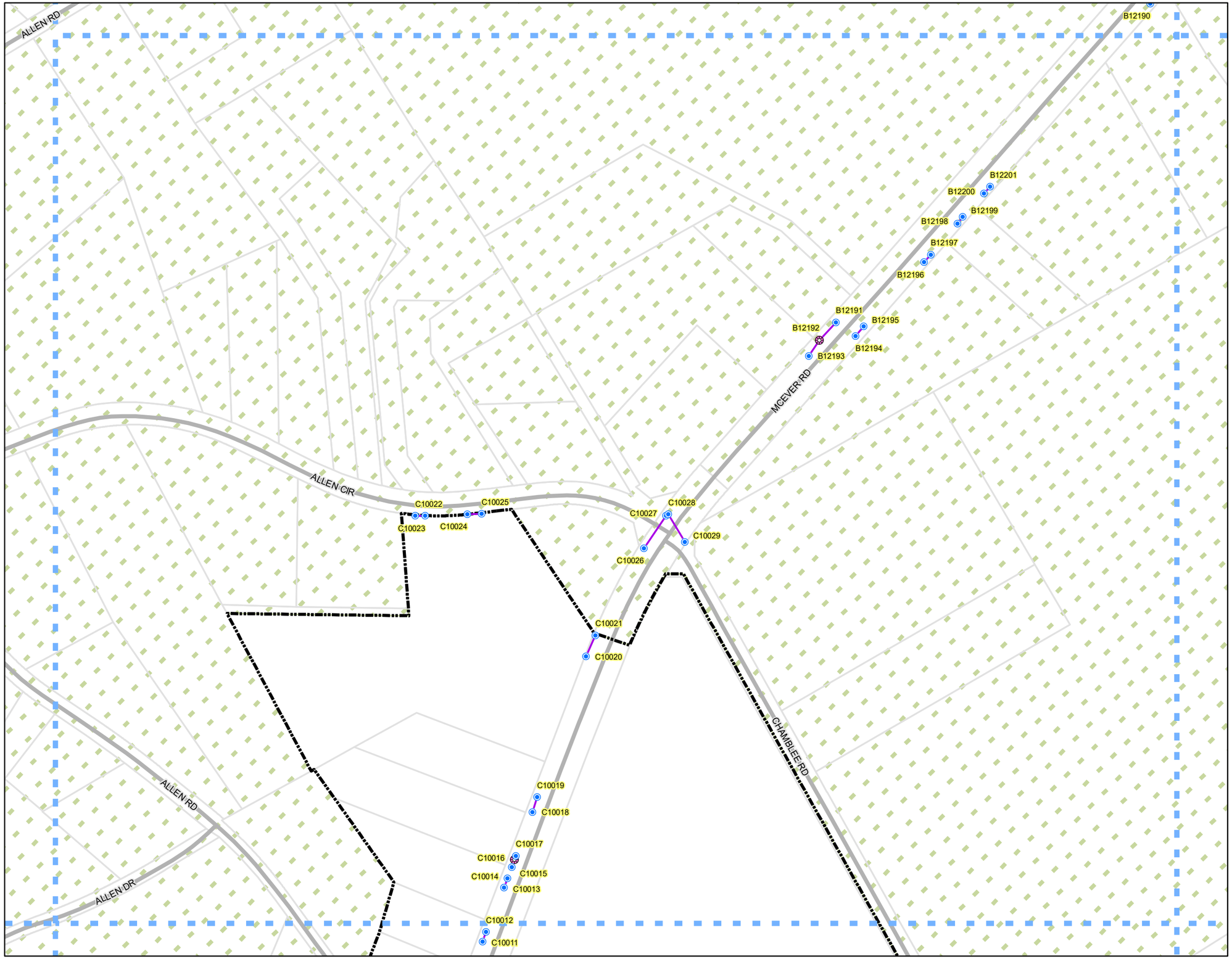
H09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

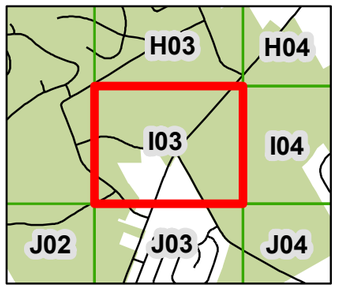


Legend

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I03

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

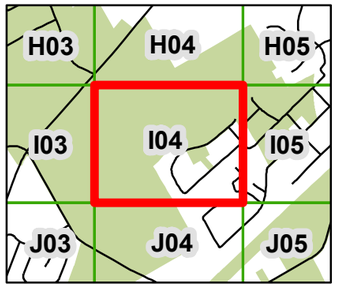
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

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- Parcel



I04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

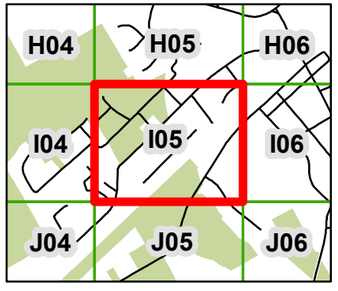
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
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Impared Streams

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I05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

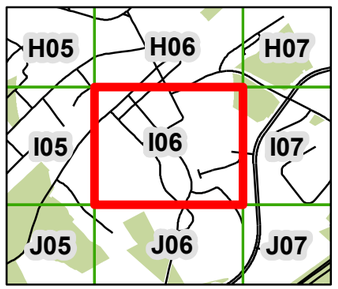
Oakwood Stormwater Atlas

Legend

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- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
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I06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

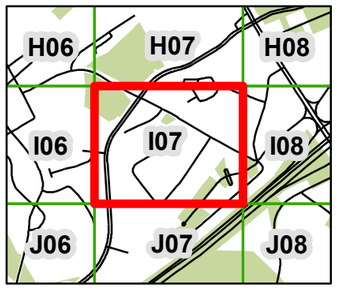
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
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Impared Streams

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- Parcel



I07

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

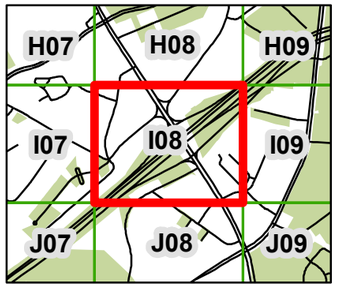
Oakwood Stormwater Atlas

Legend

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- Storm_Pond
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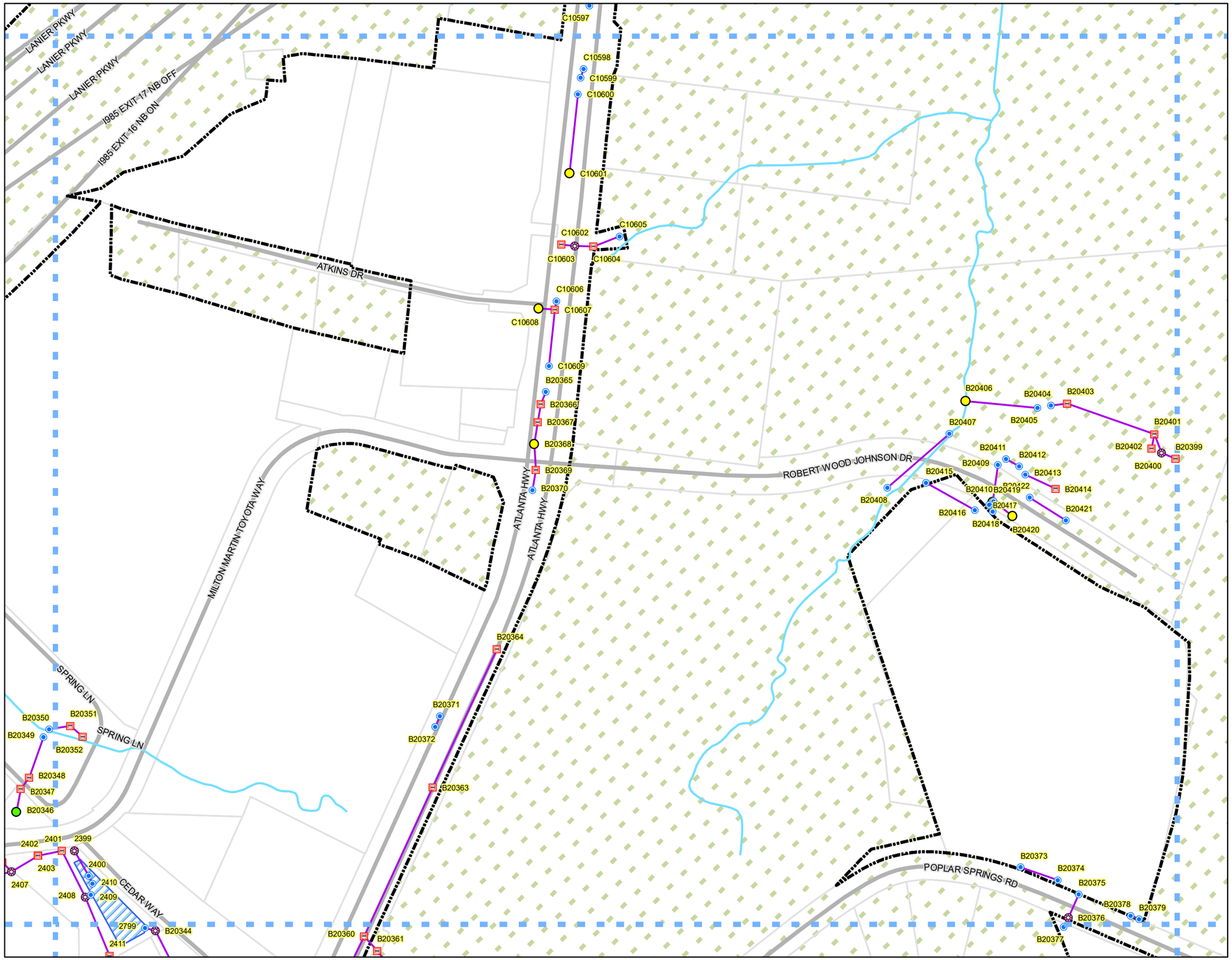
I08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

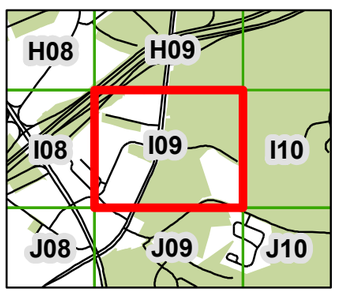


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Parcel



I09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

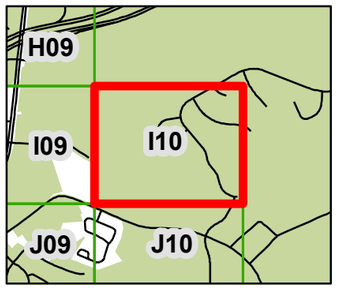
Oakwood Stormwater Atlas

Legend

- Catch Basin
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- Junction Box
- Pipe End
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- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Parcel



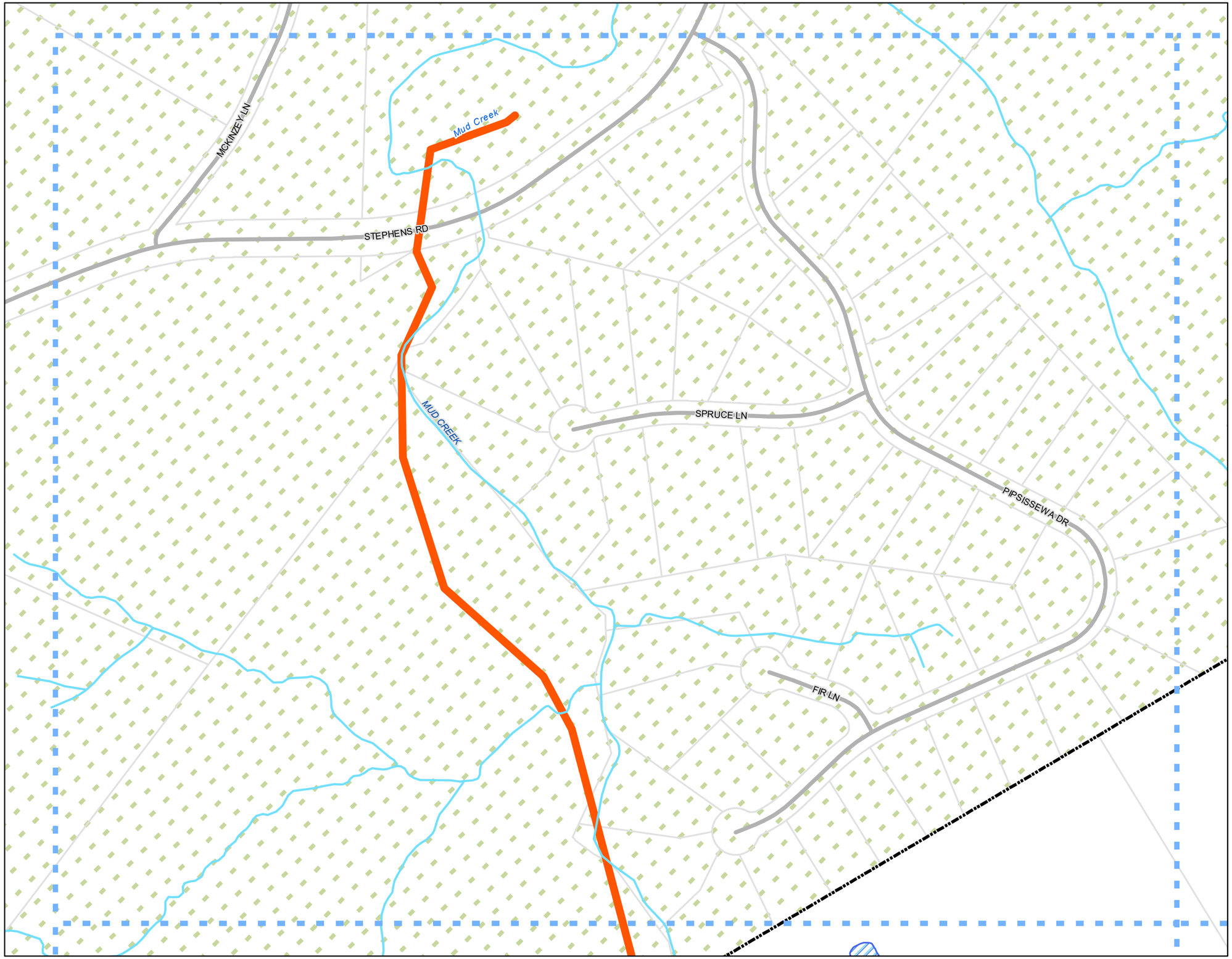
I10

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

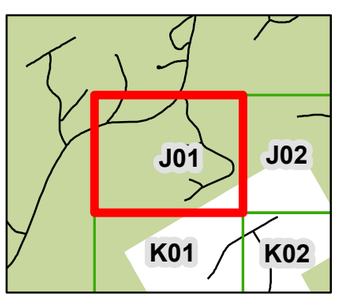


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
- City Limits
- Parcel



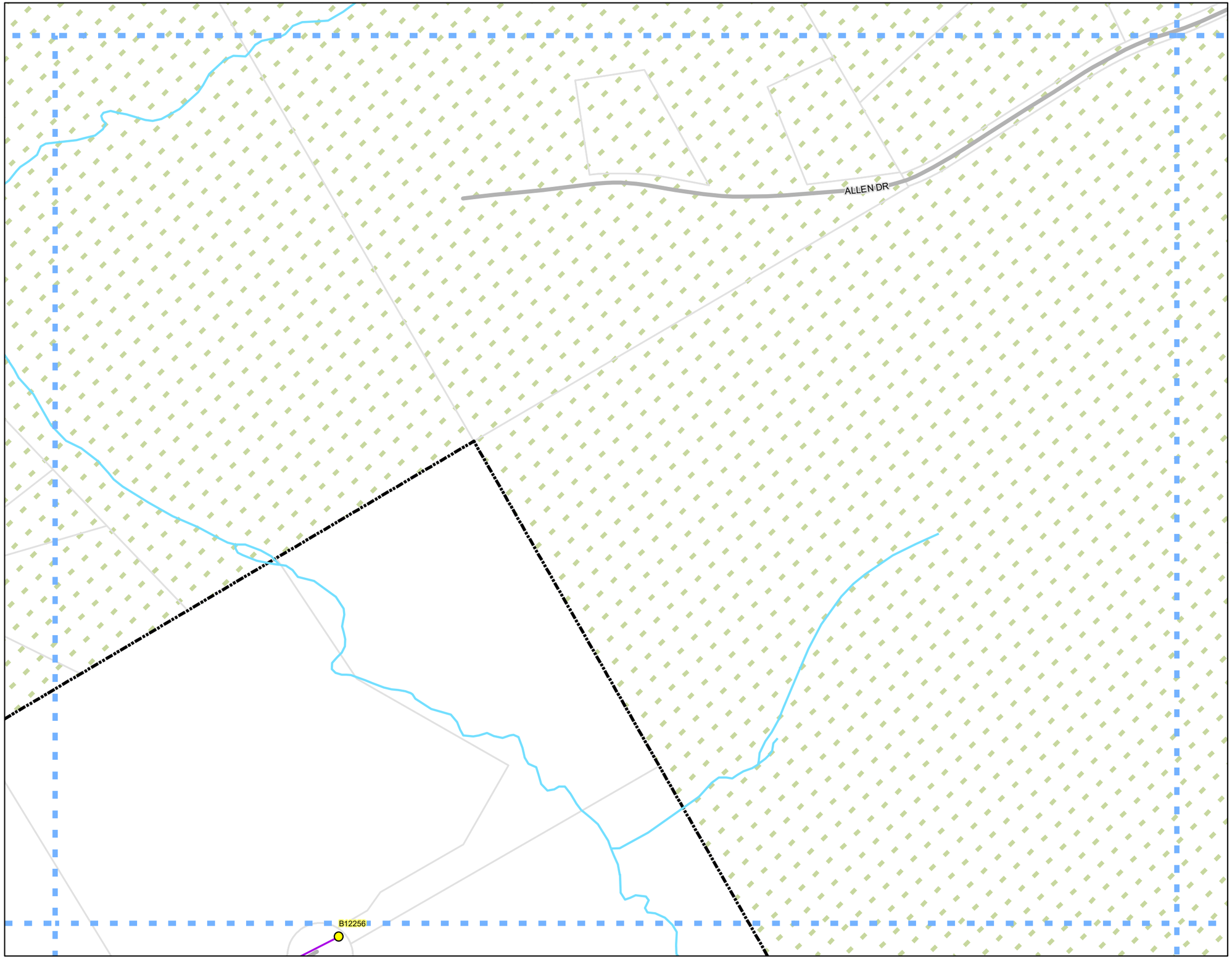
J01

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

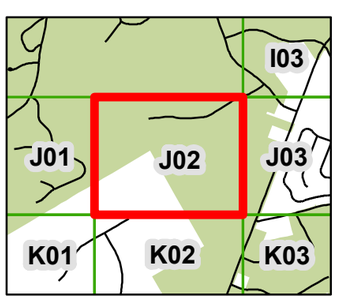


Legend

- Catch Basin
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- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
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Impared Streams

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- Supporting
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- Parcel



J02

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

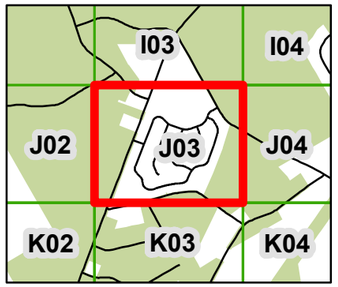
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



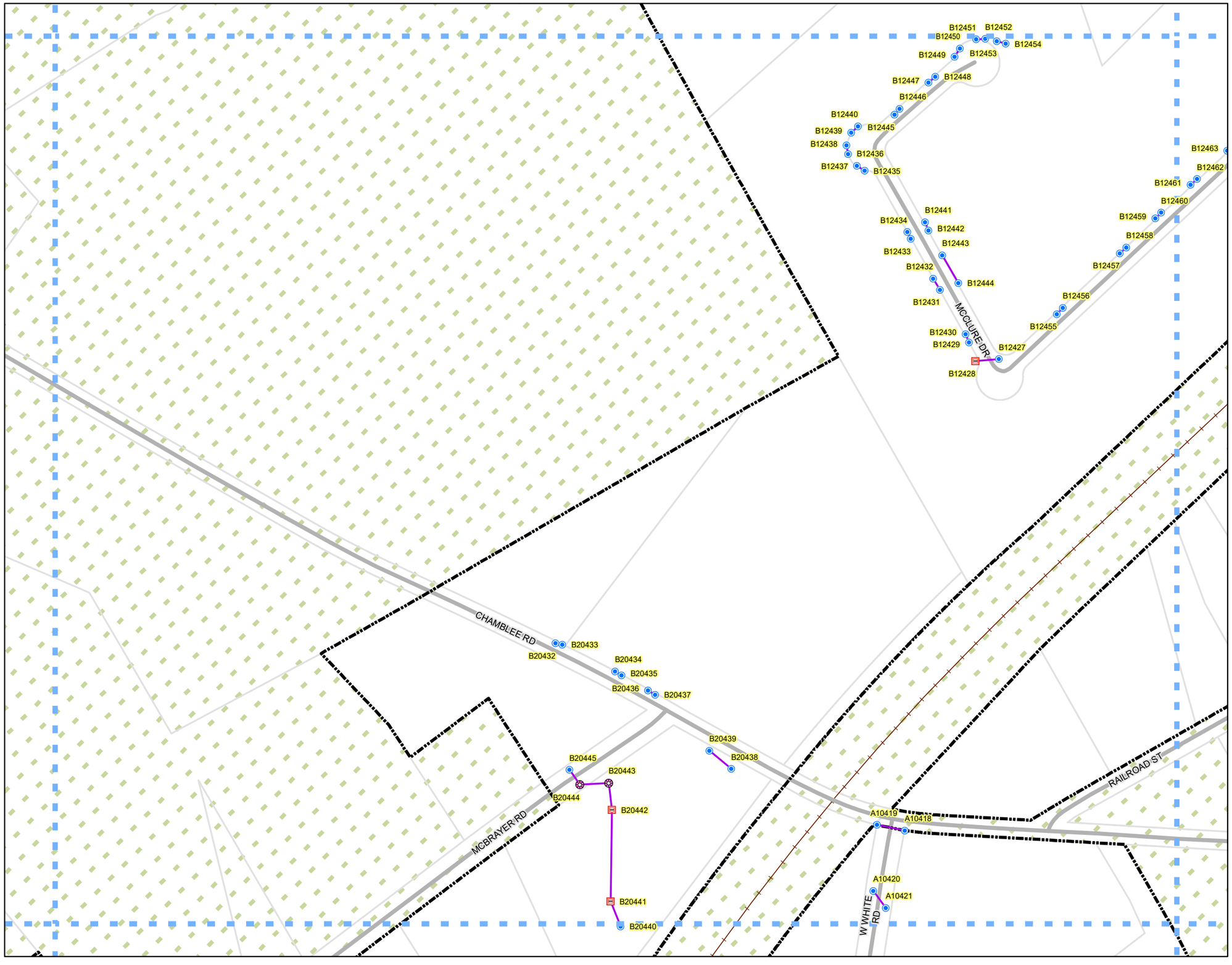
J03

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

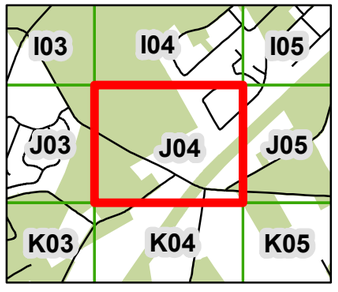


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



J04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

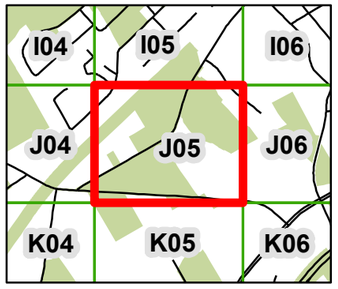
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



J05

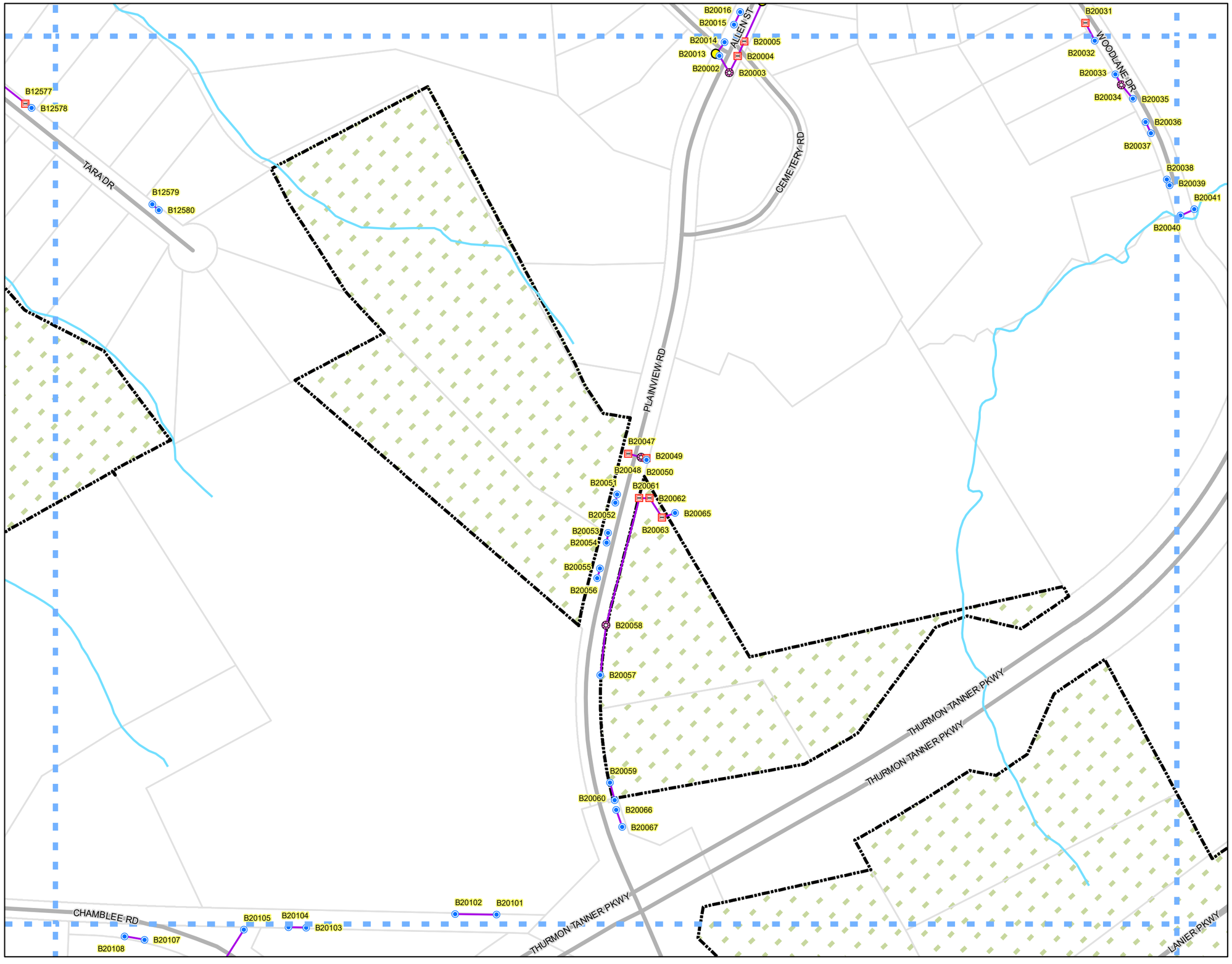
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

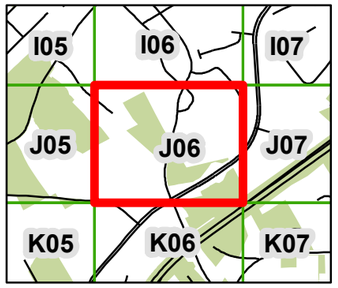


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



J06

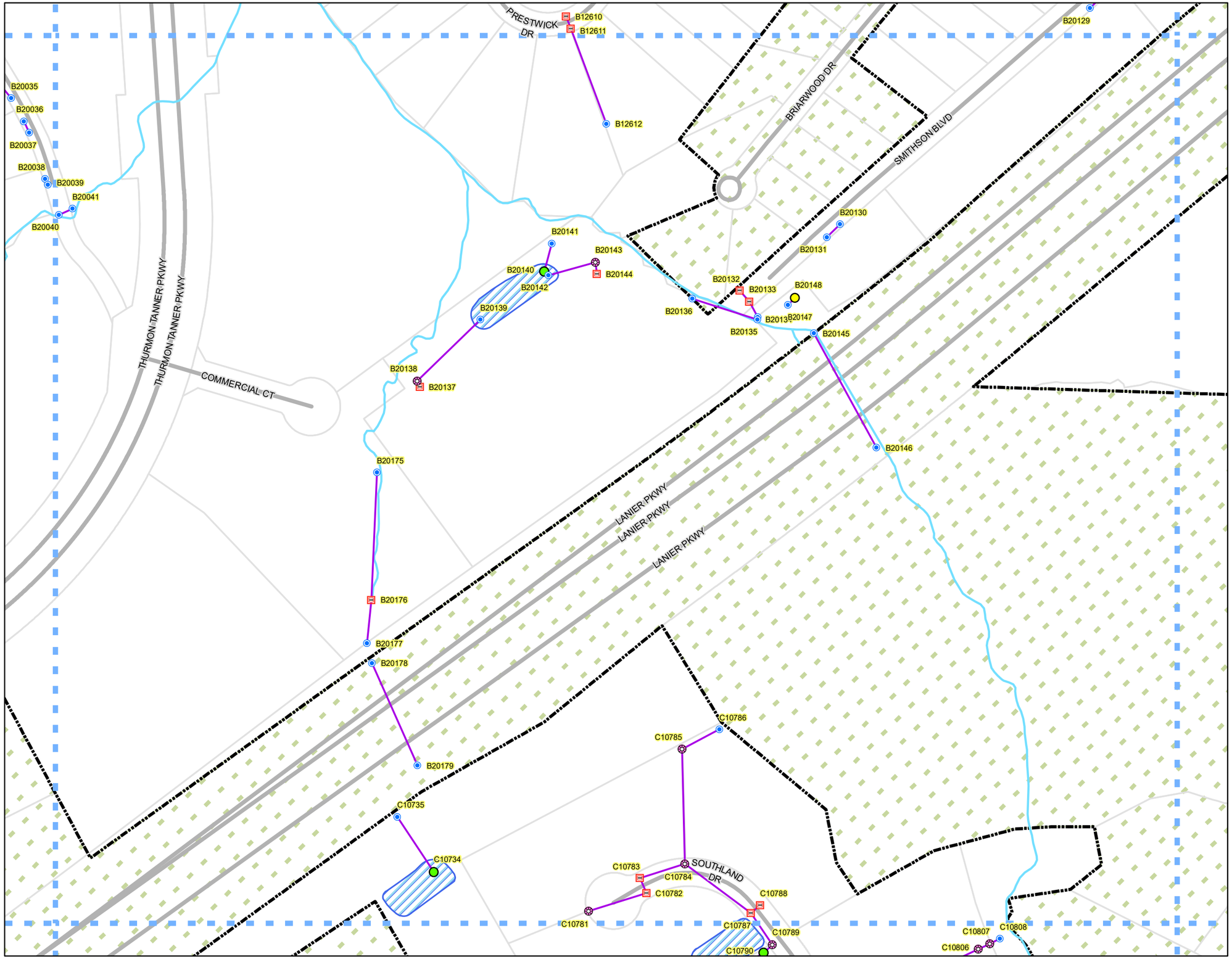
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

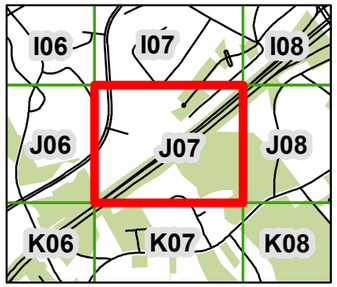


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



J07

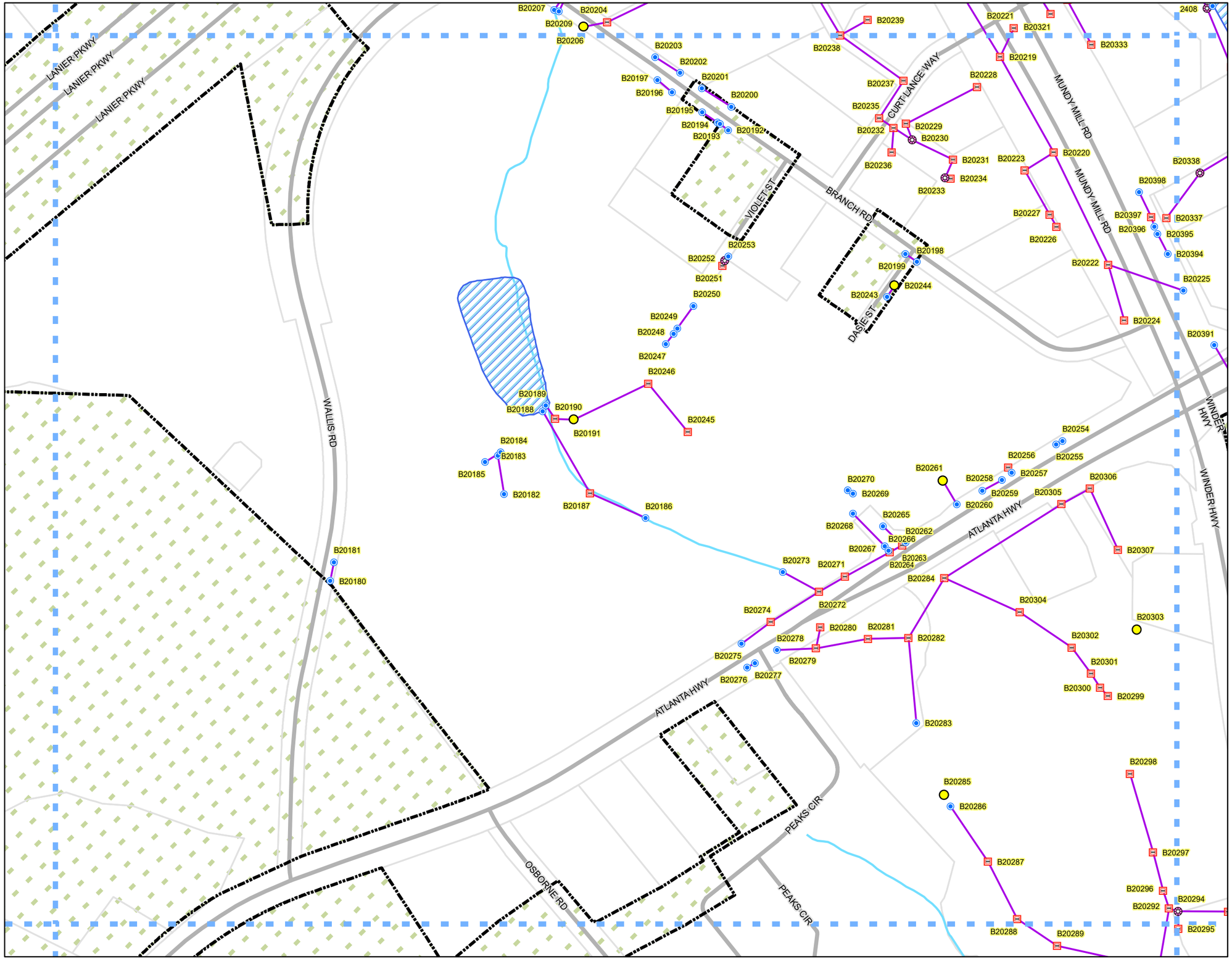
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

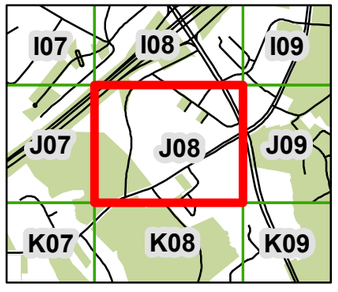


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



J08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

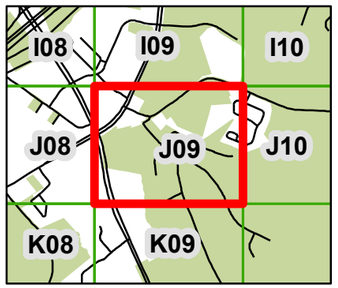
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



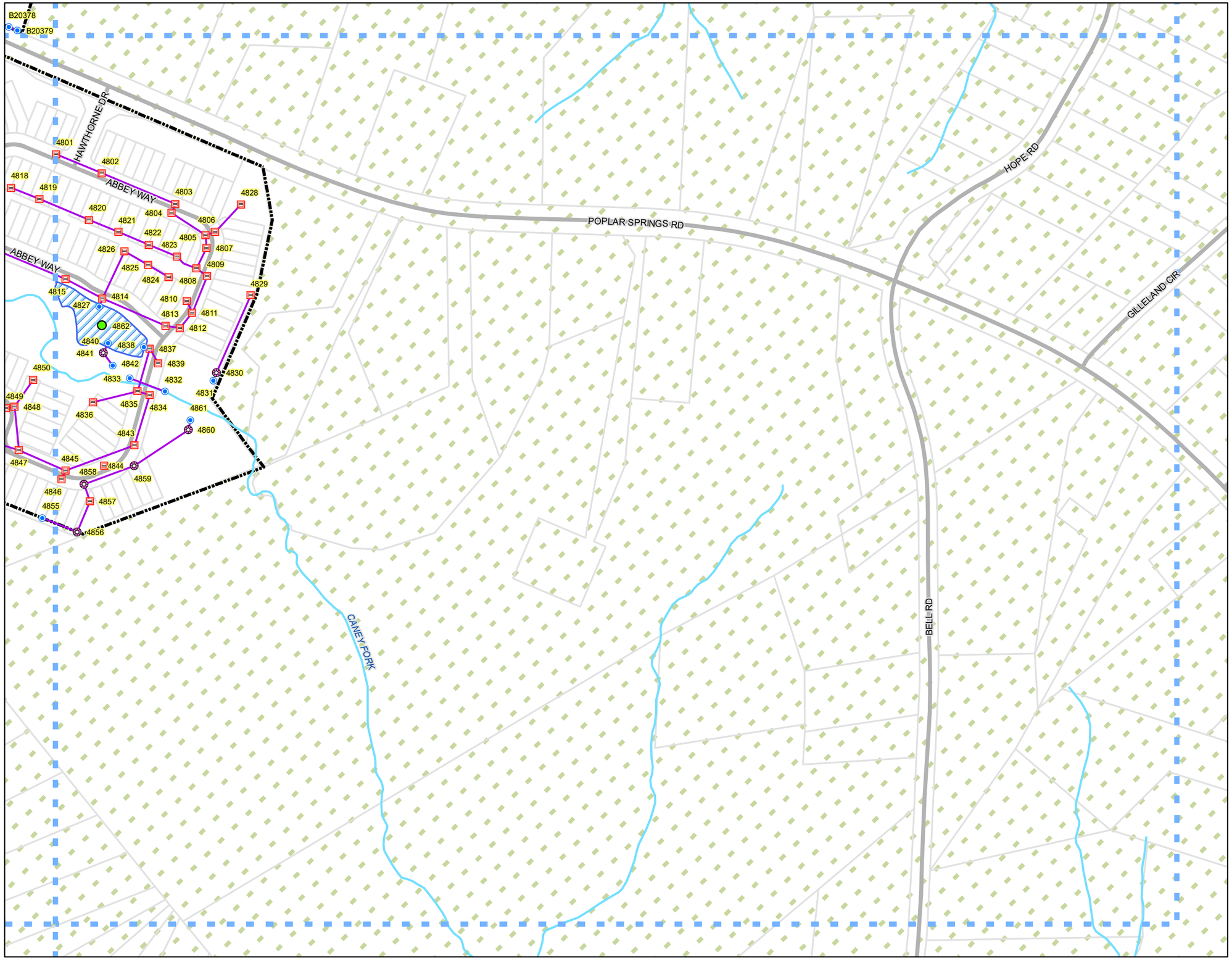
J09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

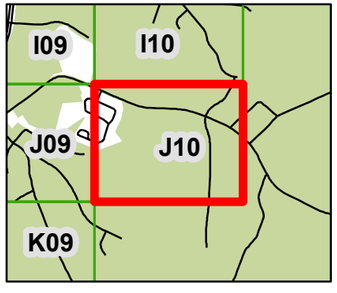


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



J10

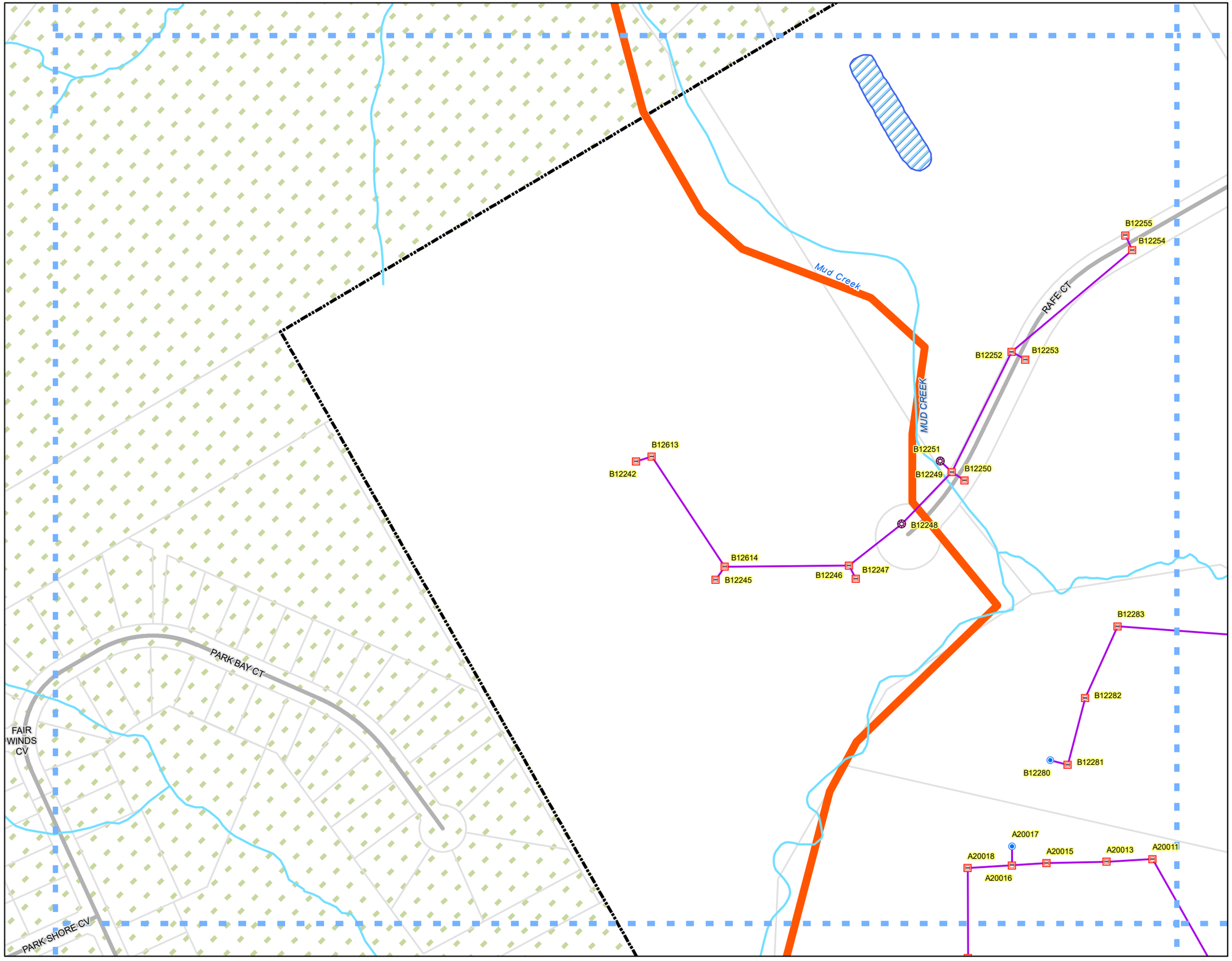
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

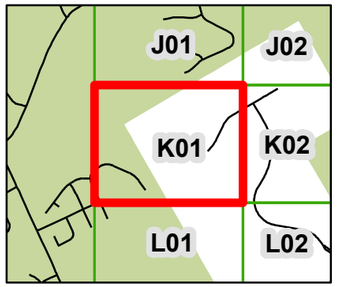


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



K01

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

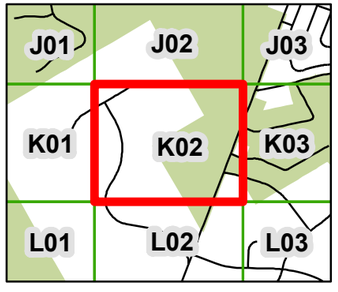
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



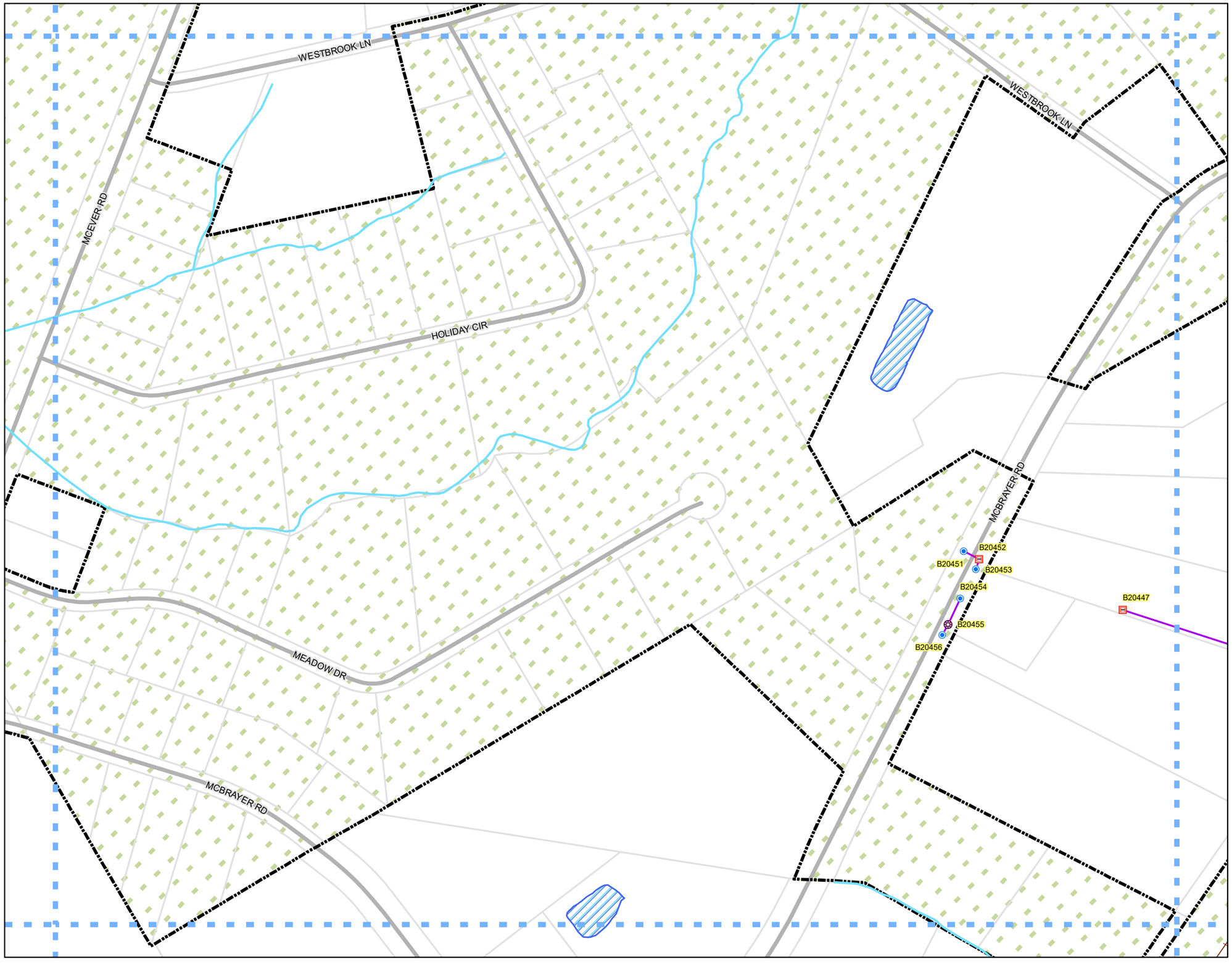
K02

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

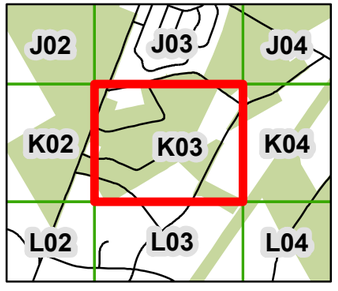


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



K03

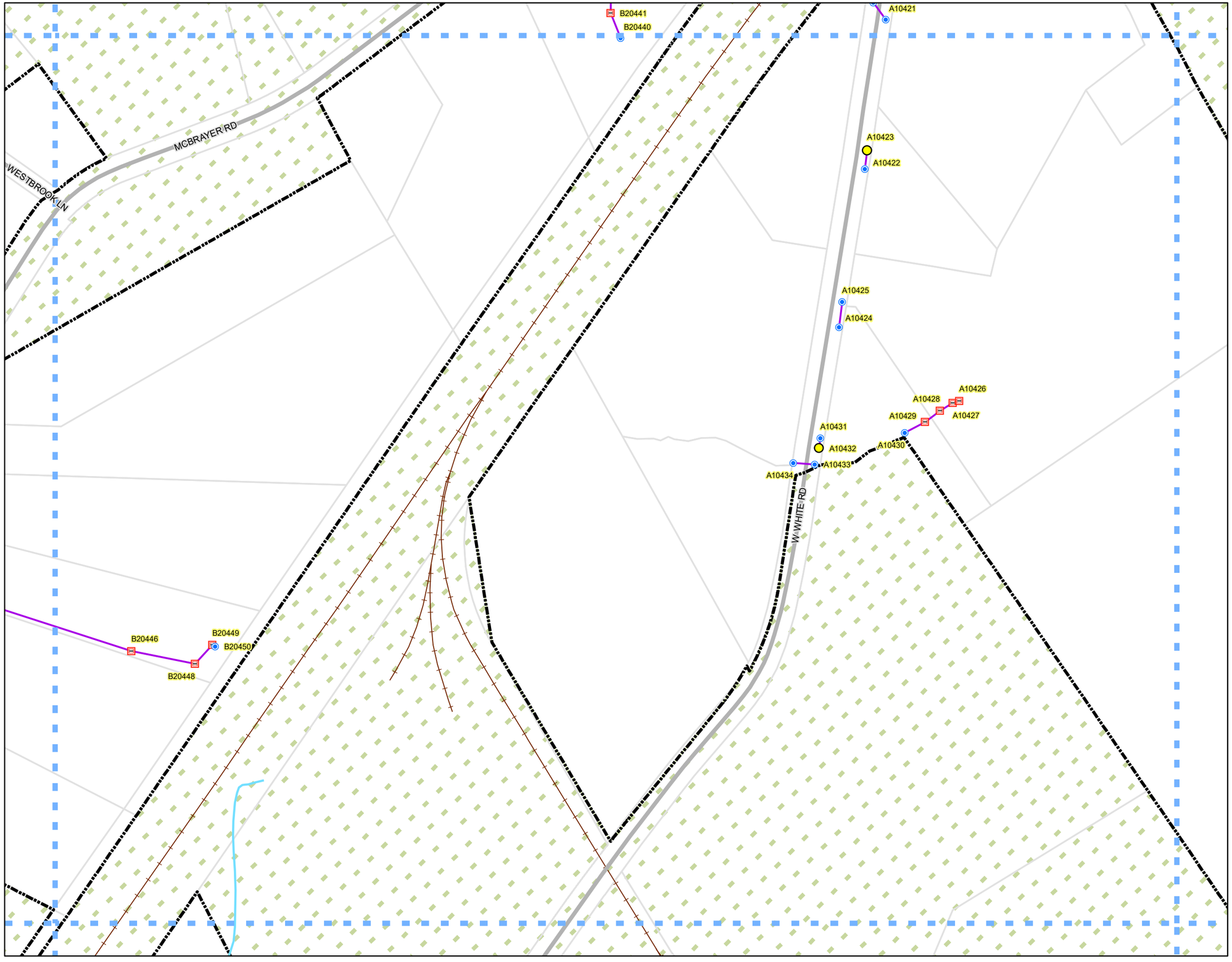
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

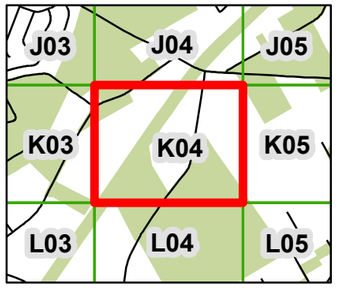


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



K04

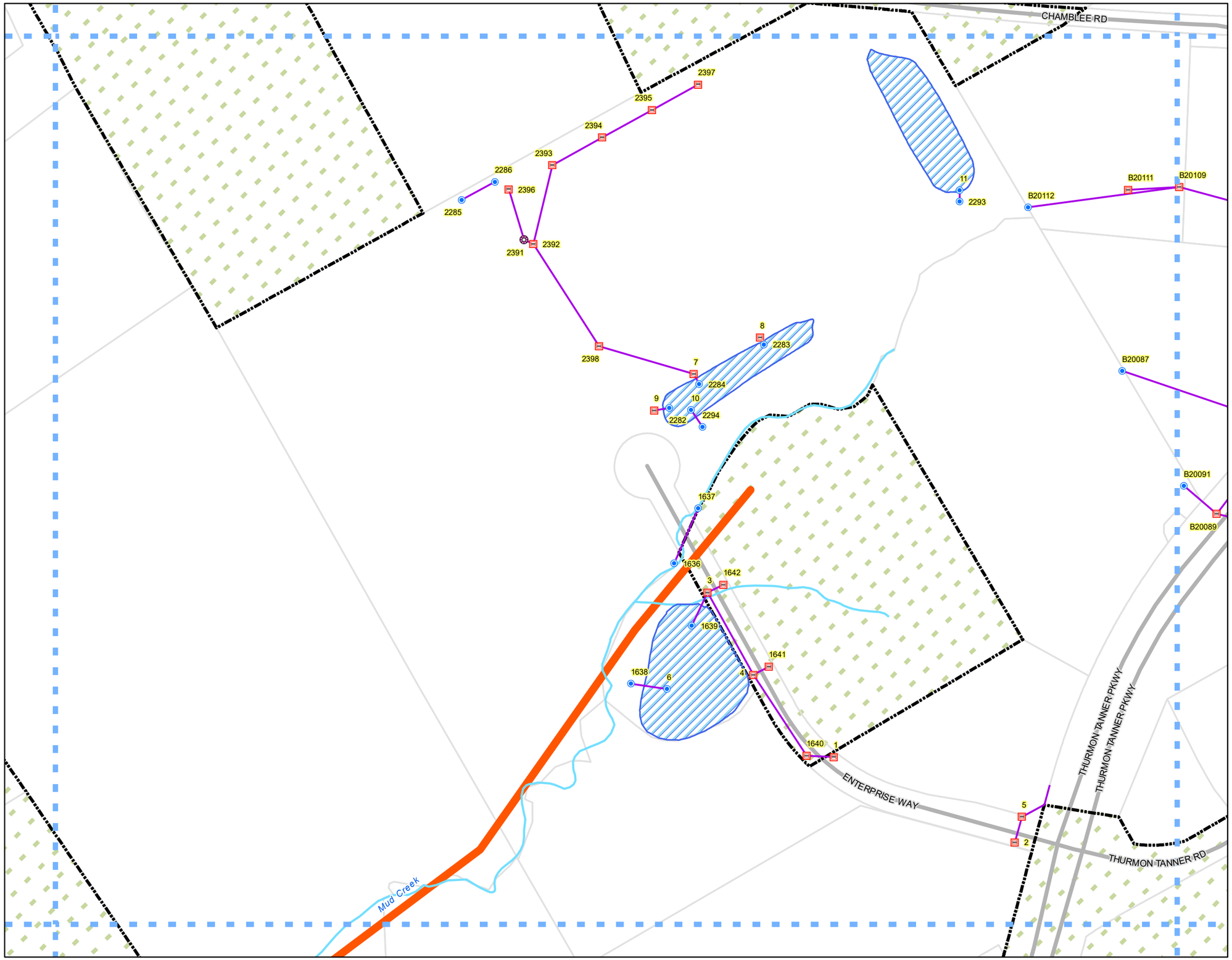
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

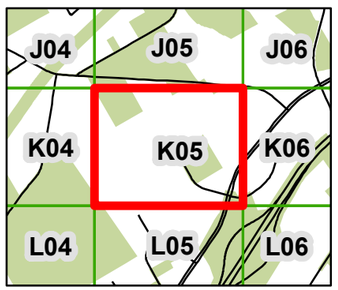


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



K05

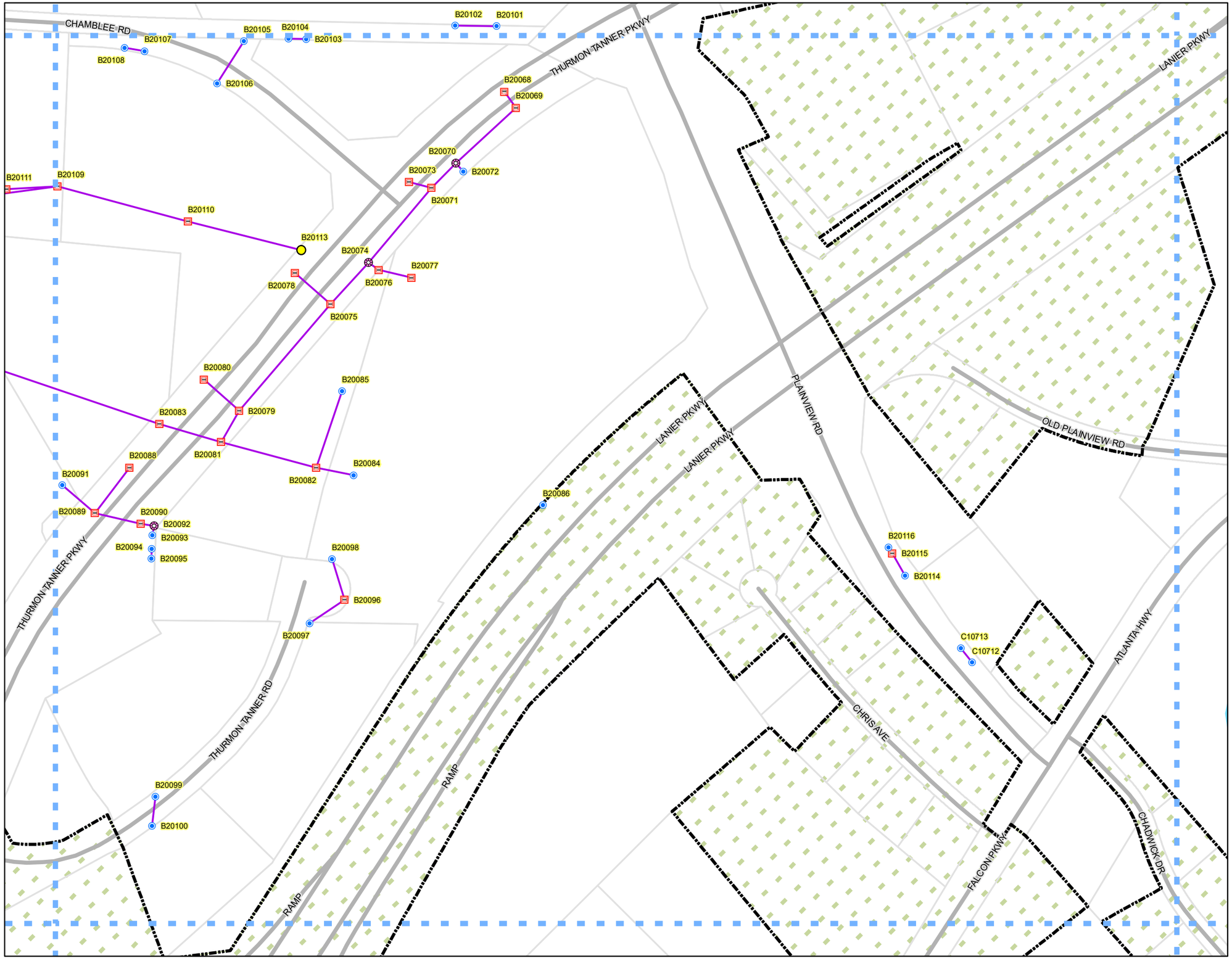
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

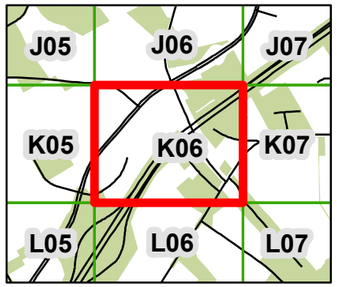


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



K06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

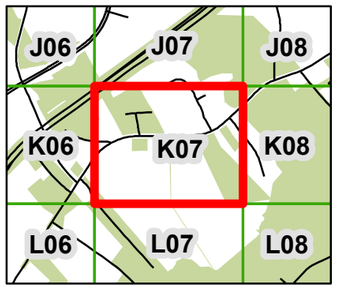
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



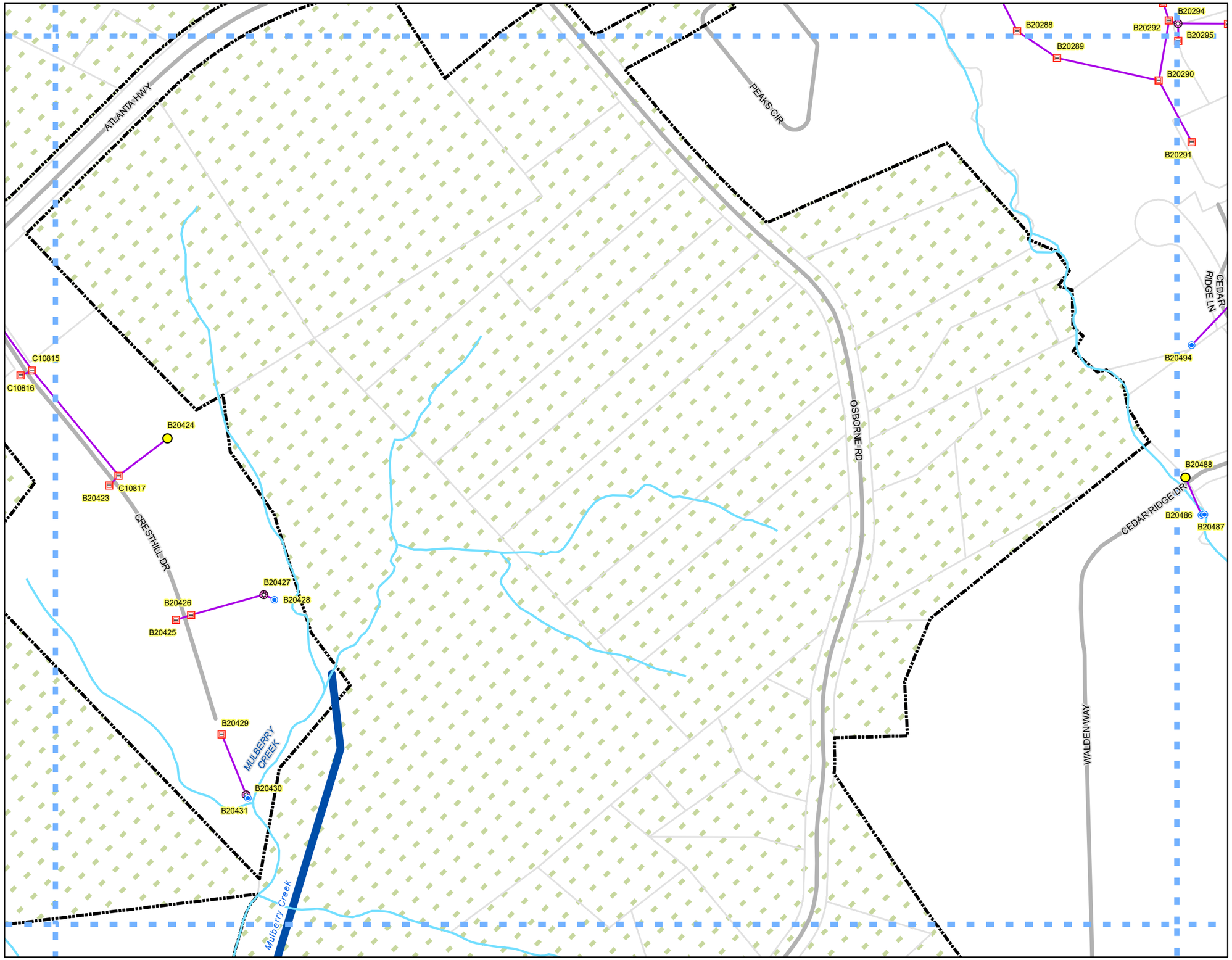
K07

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

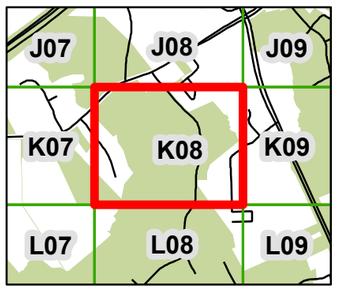


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



K08

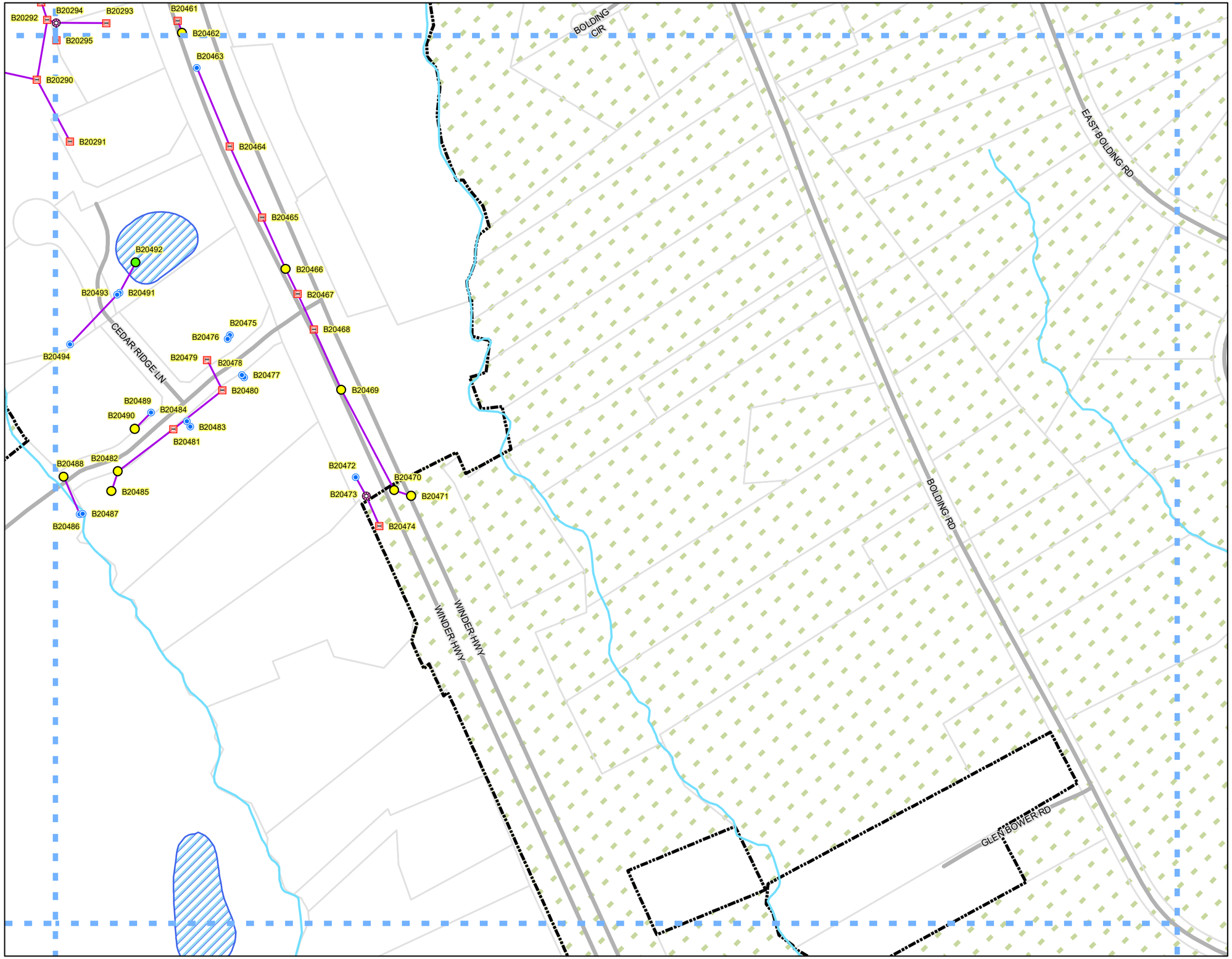
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

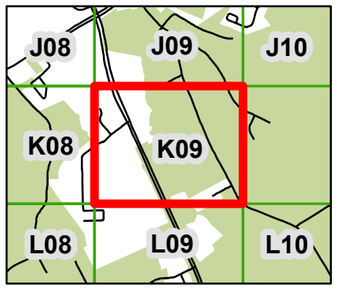


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
- City Limits
- Parcel



K09

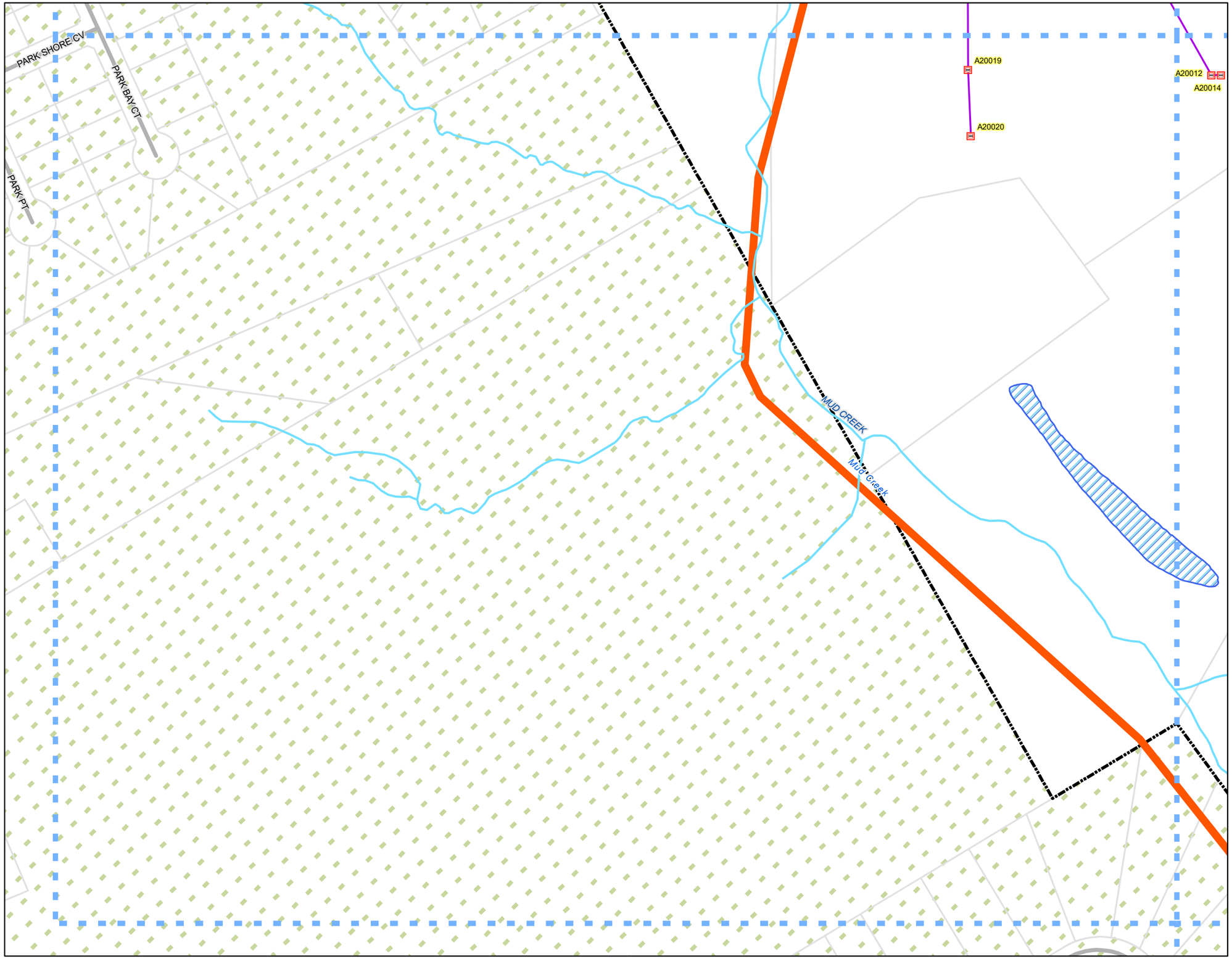
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

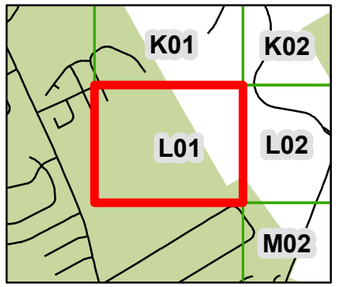


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
- City Limits
- Parcel



L01

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

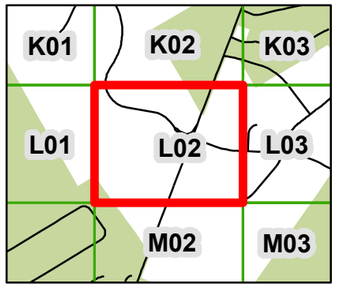
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
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- City Limits
- Parcel



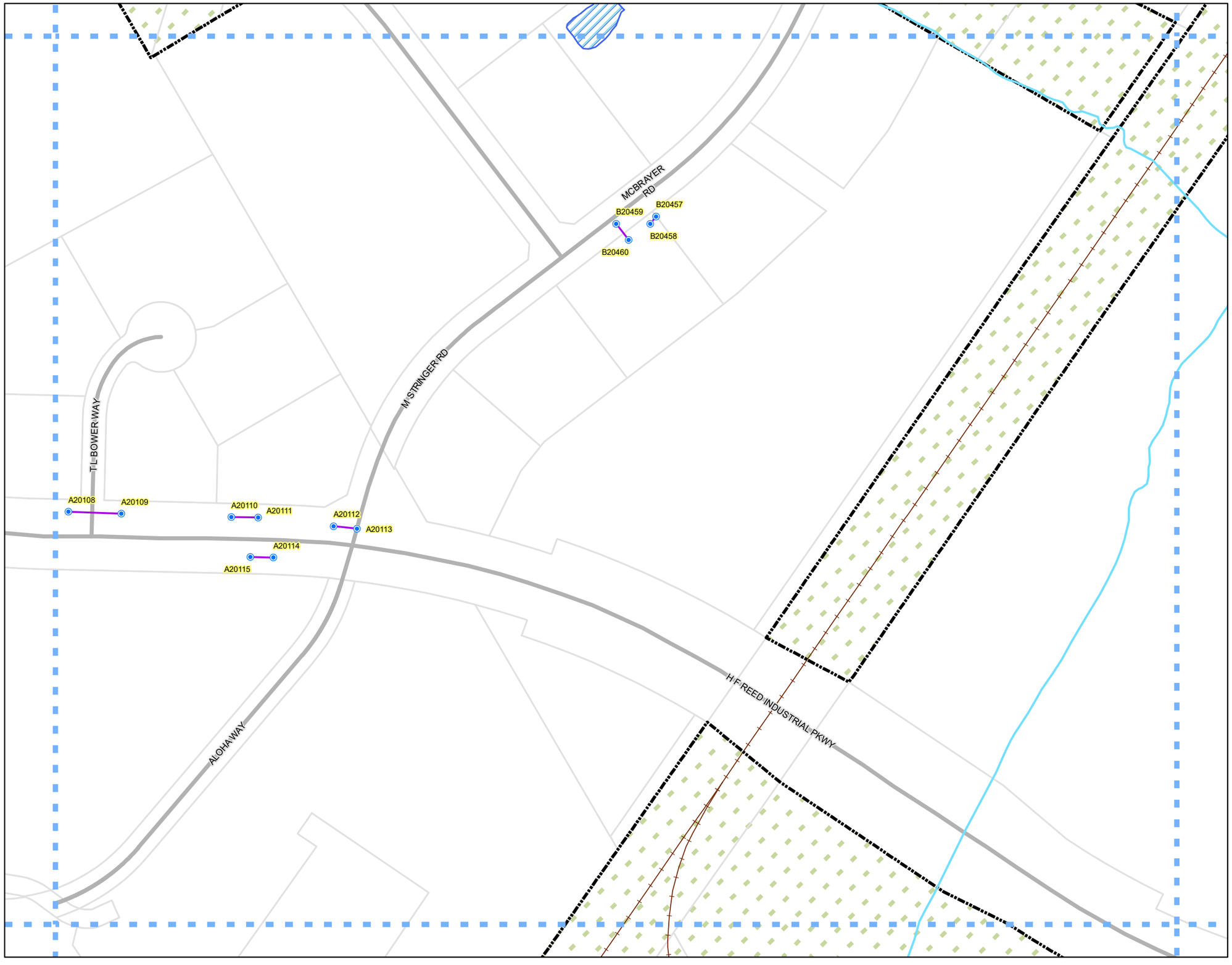
L02

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

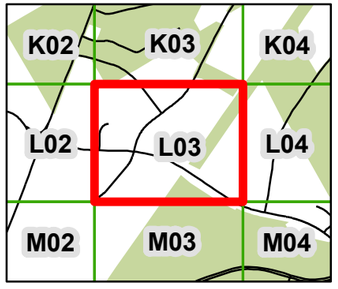


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
- City Limits
- Parcel



L03

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

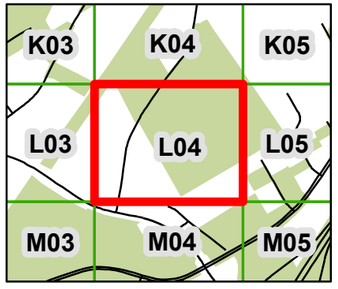
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Parcel



L04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

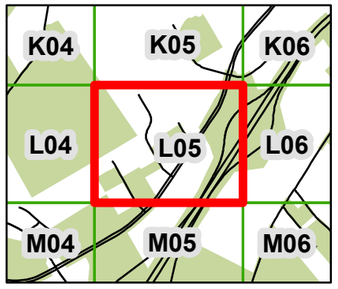
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



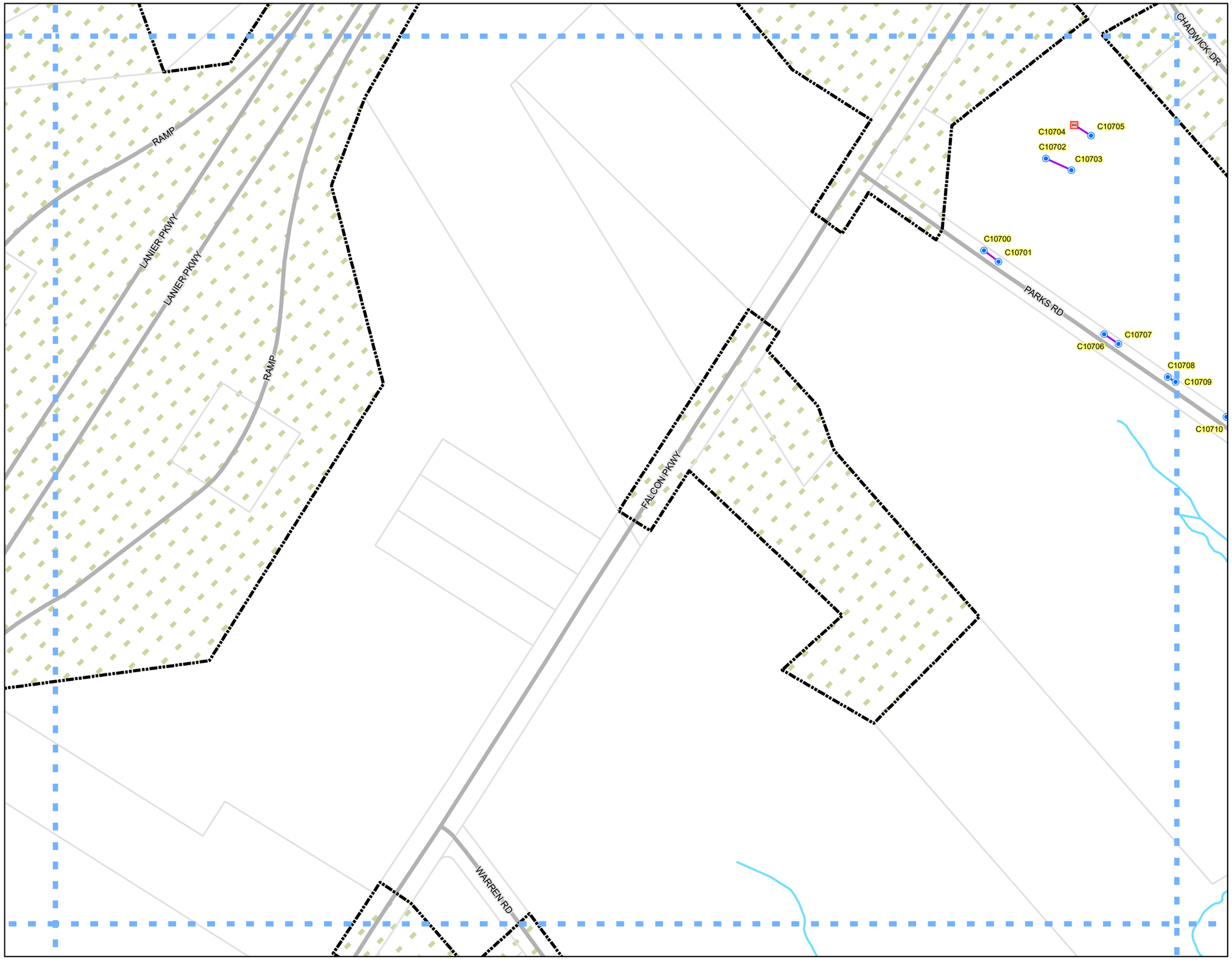
L05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

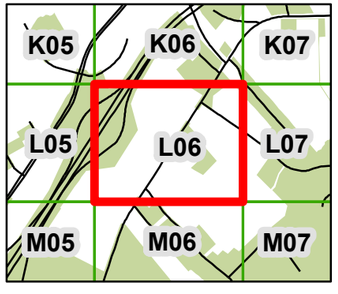


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



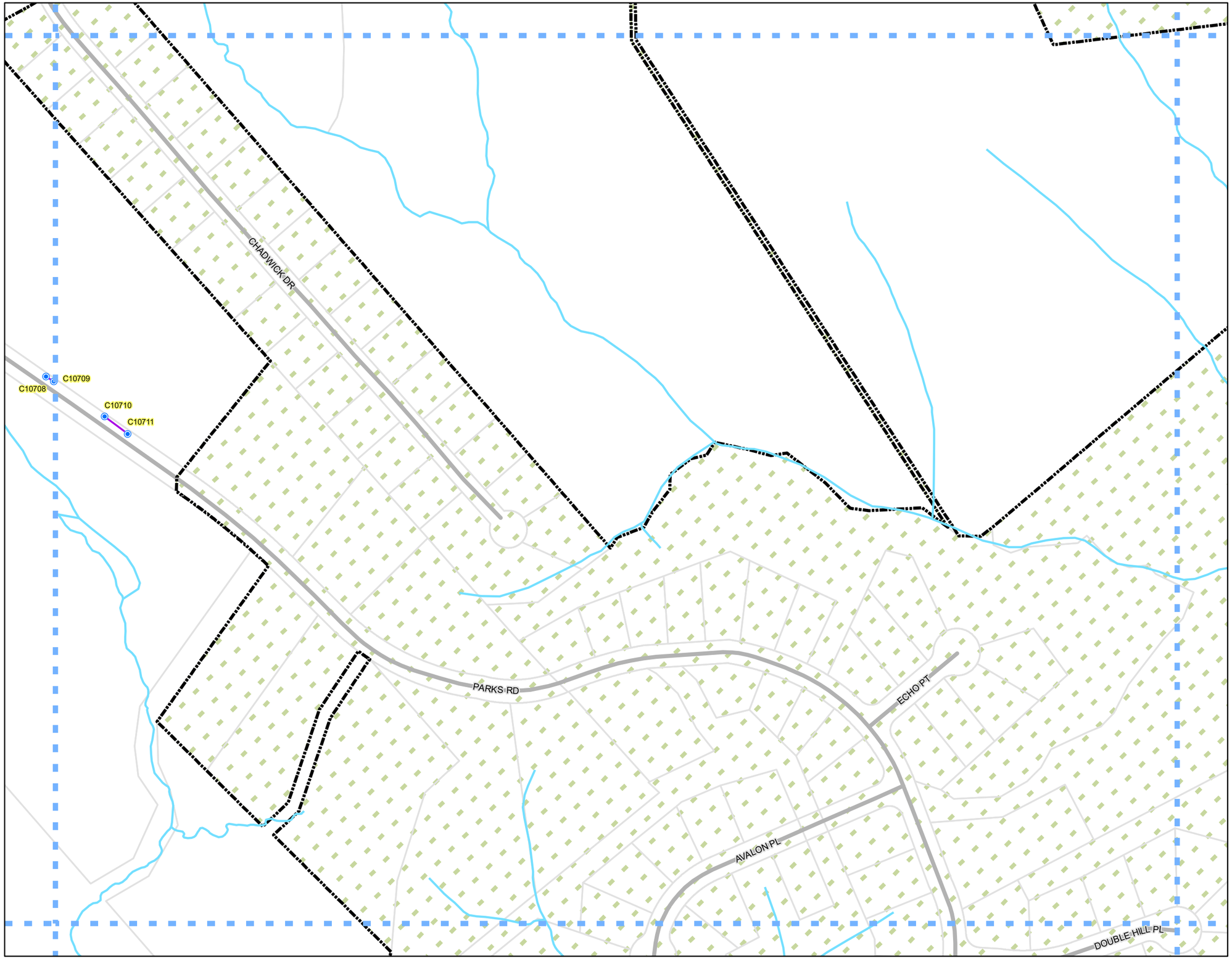
L06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

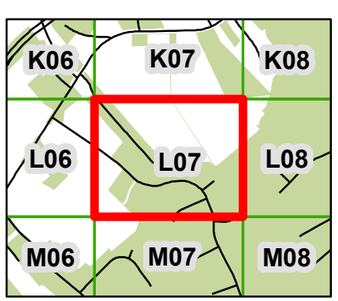


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



L07

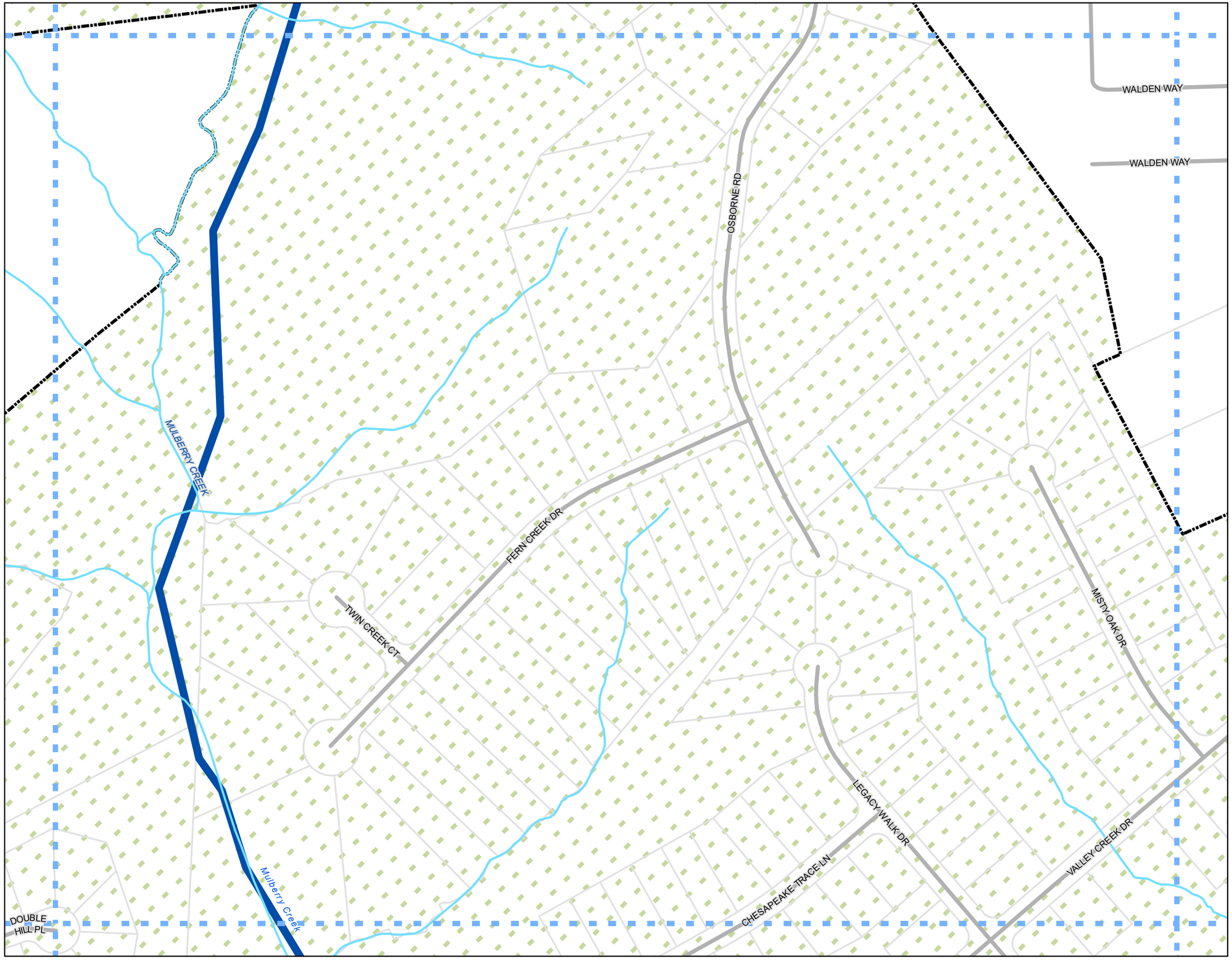
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

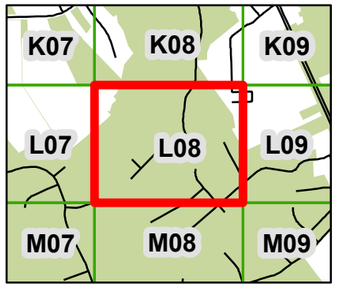


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



L08

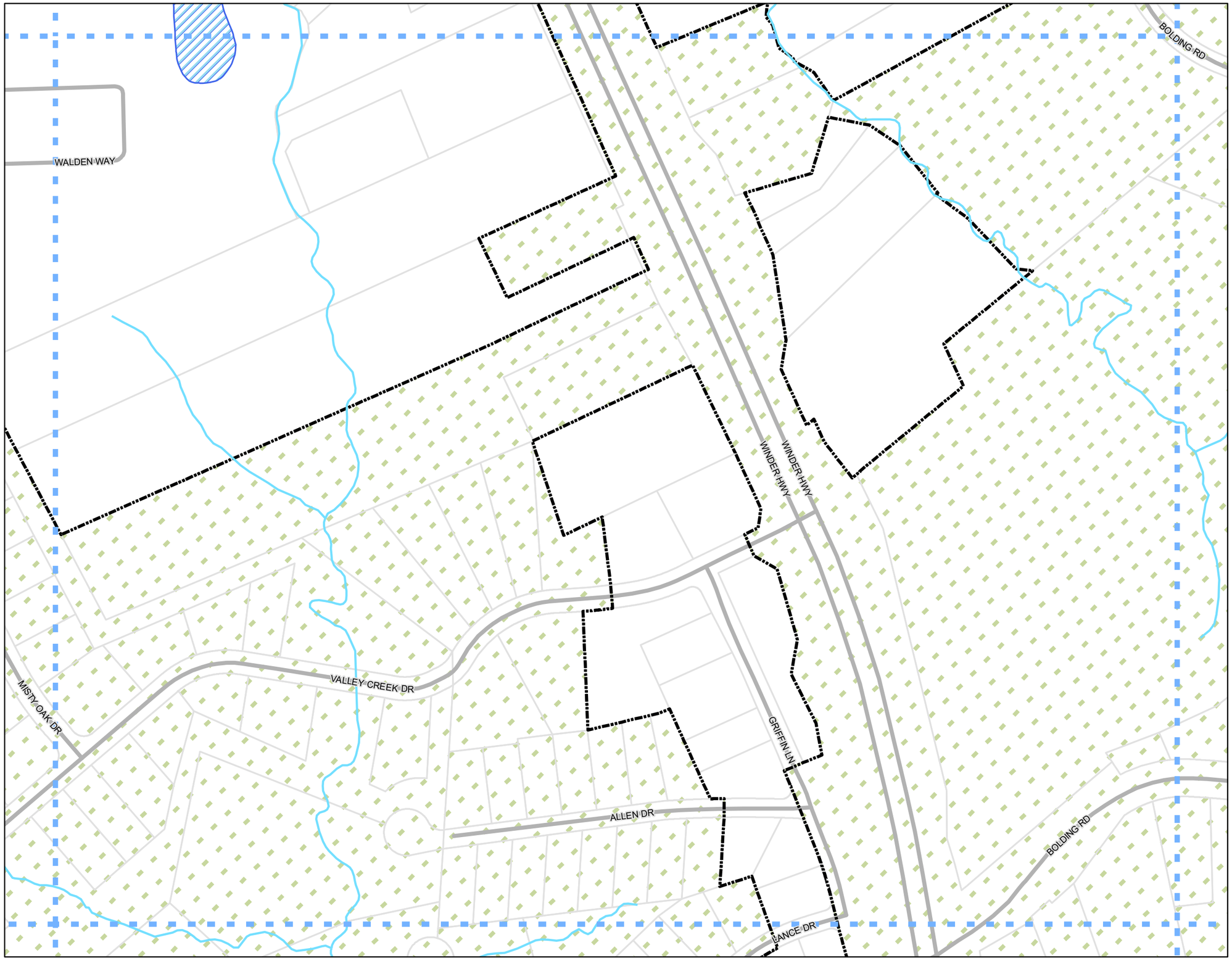
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

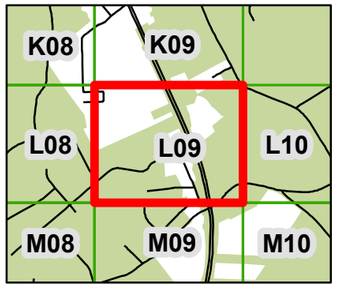


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
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- Parcel



L09

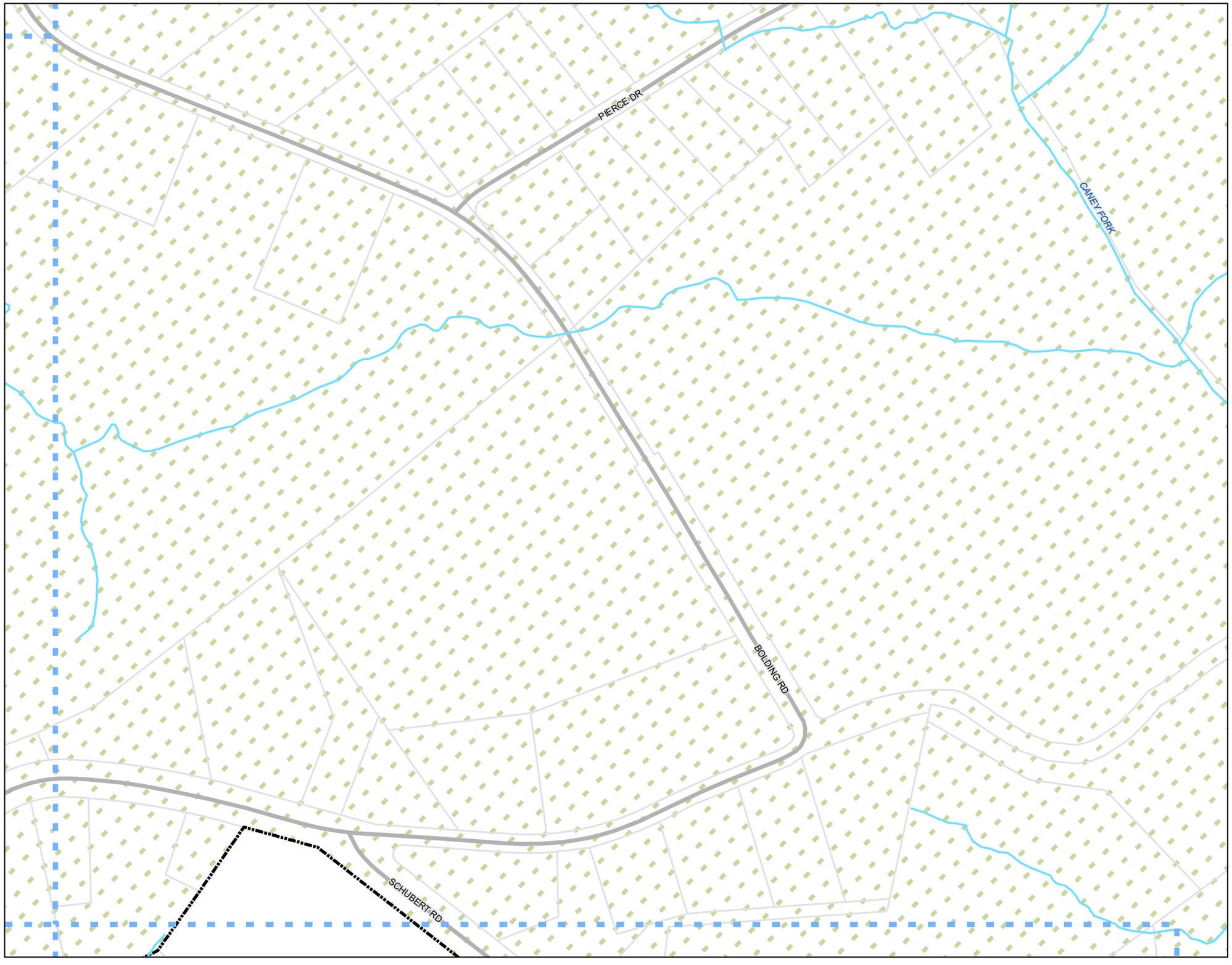
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

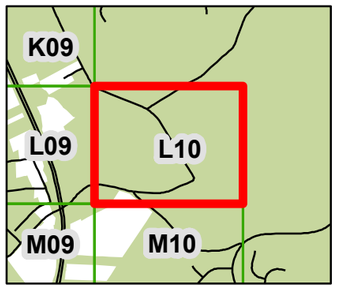


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



L10

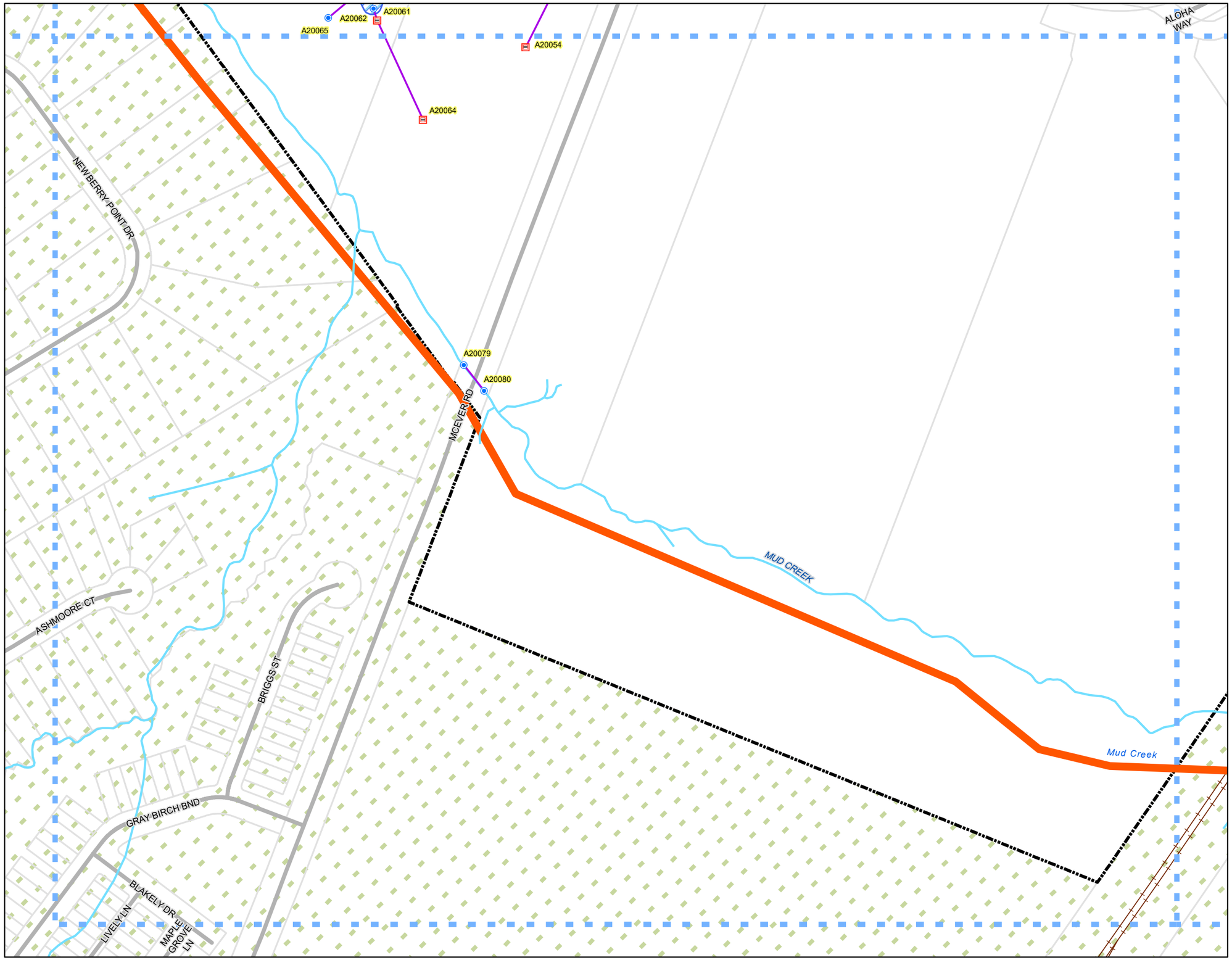
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

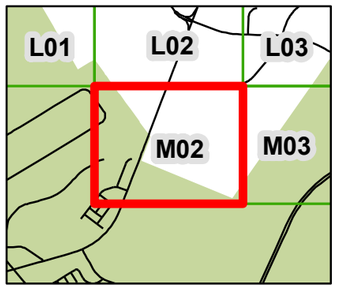


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



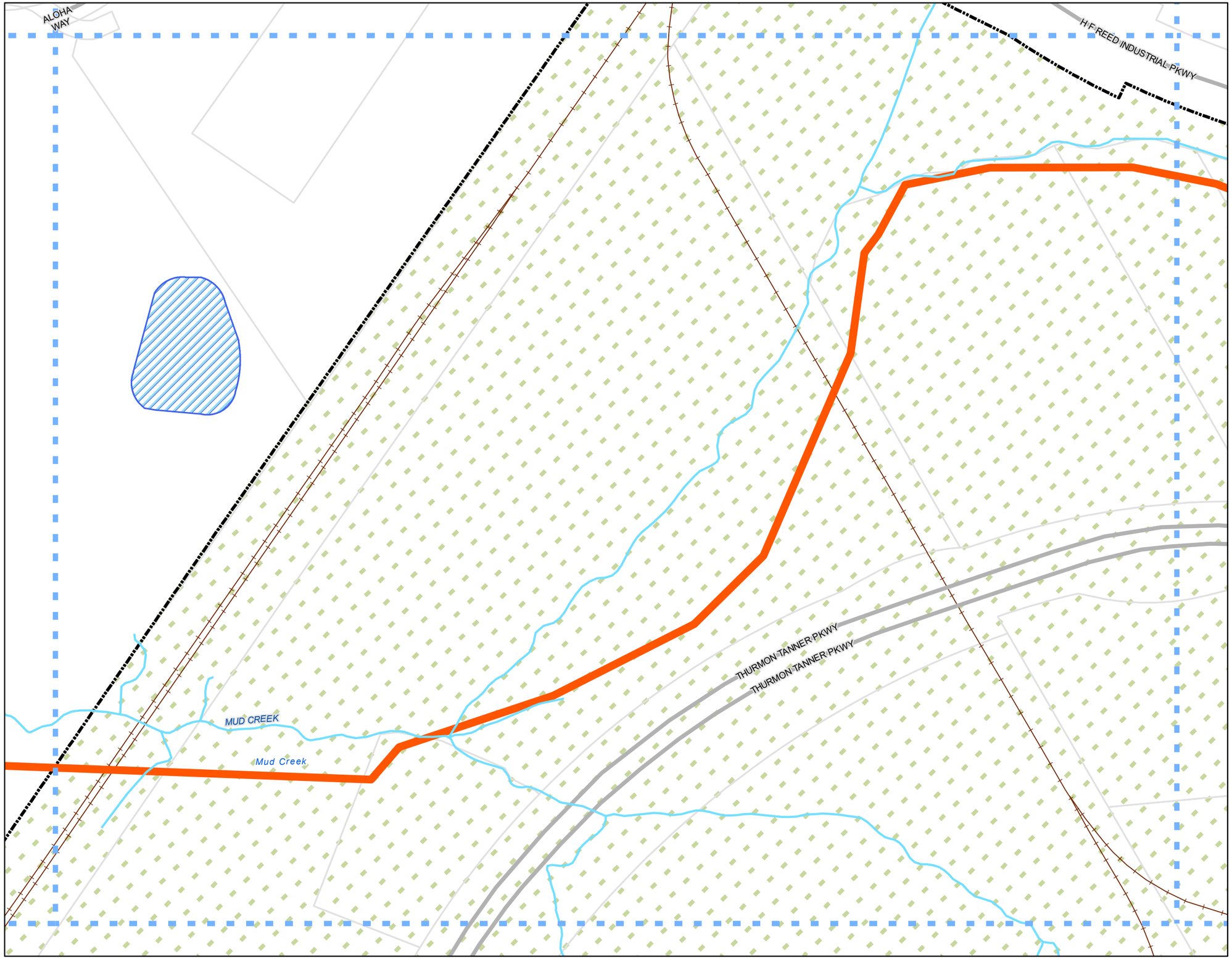
M02

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

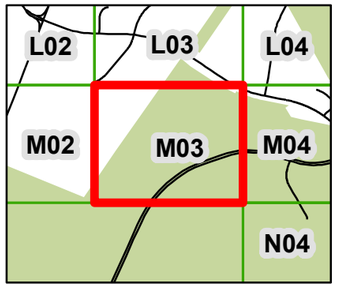


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



M03

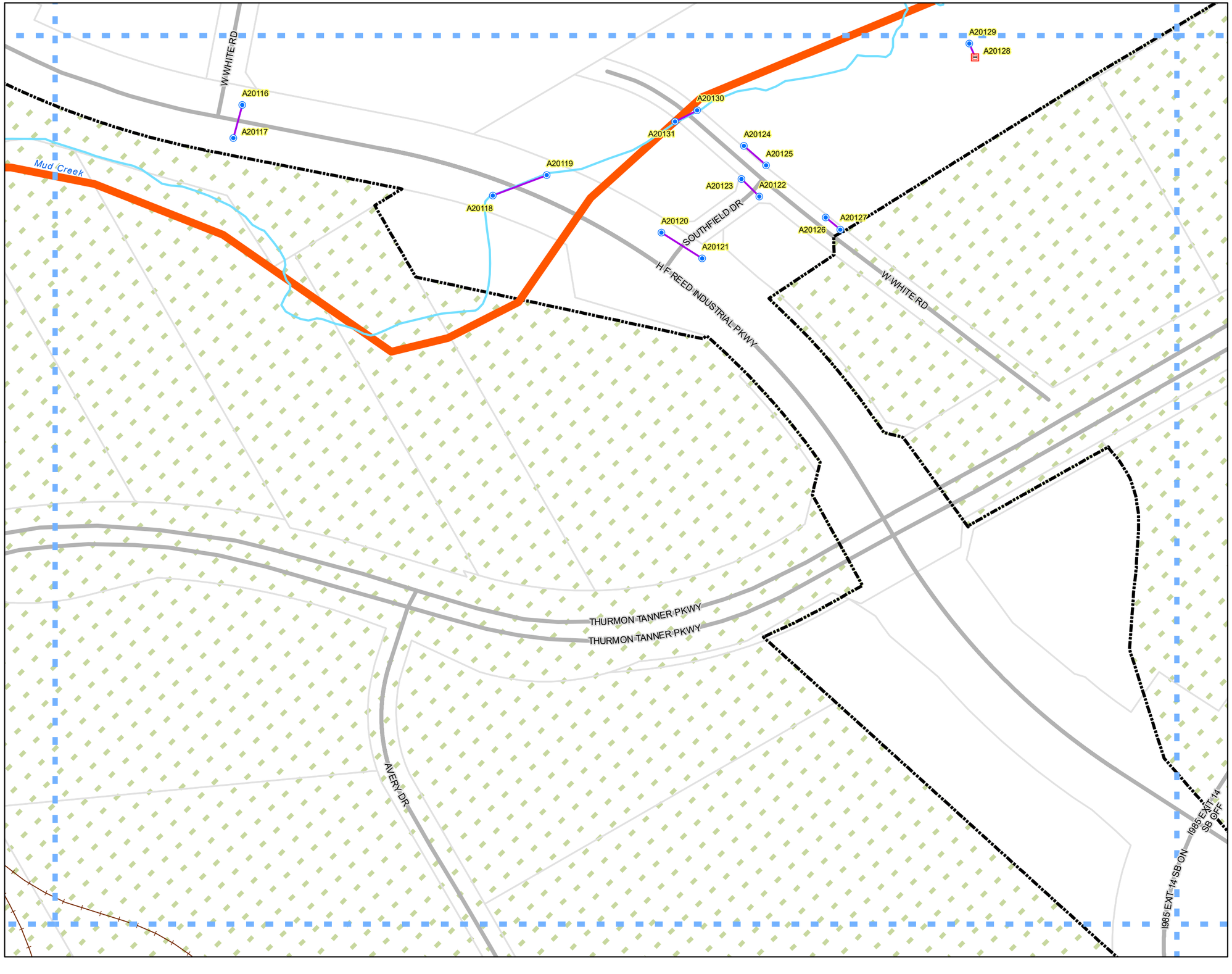
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

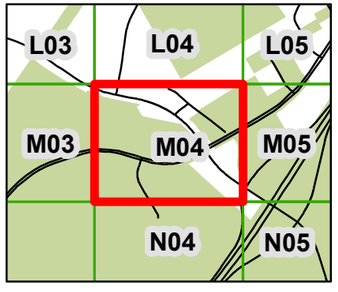


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
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- Parcel



M04

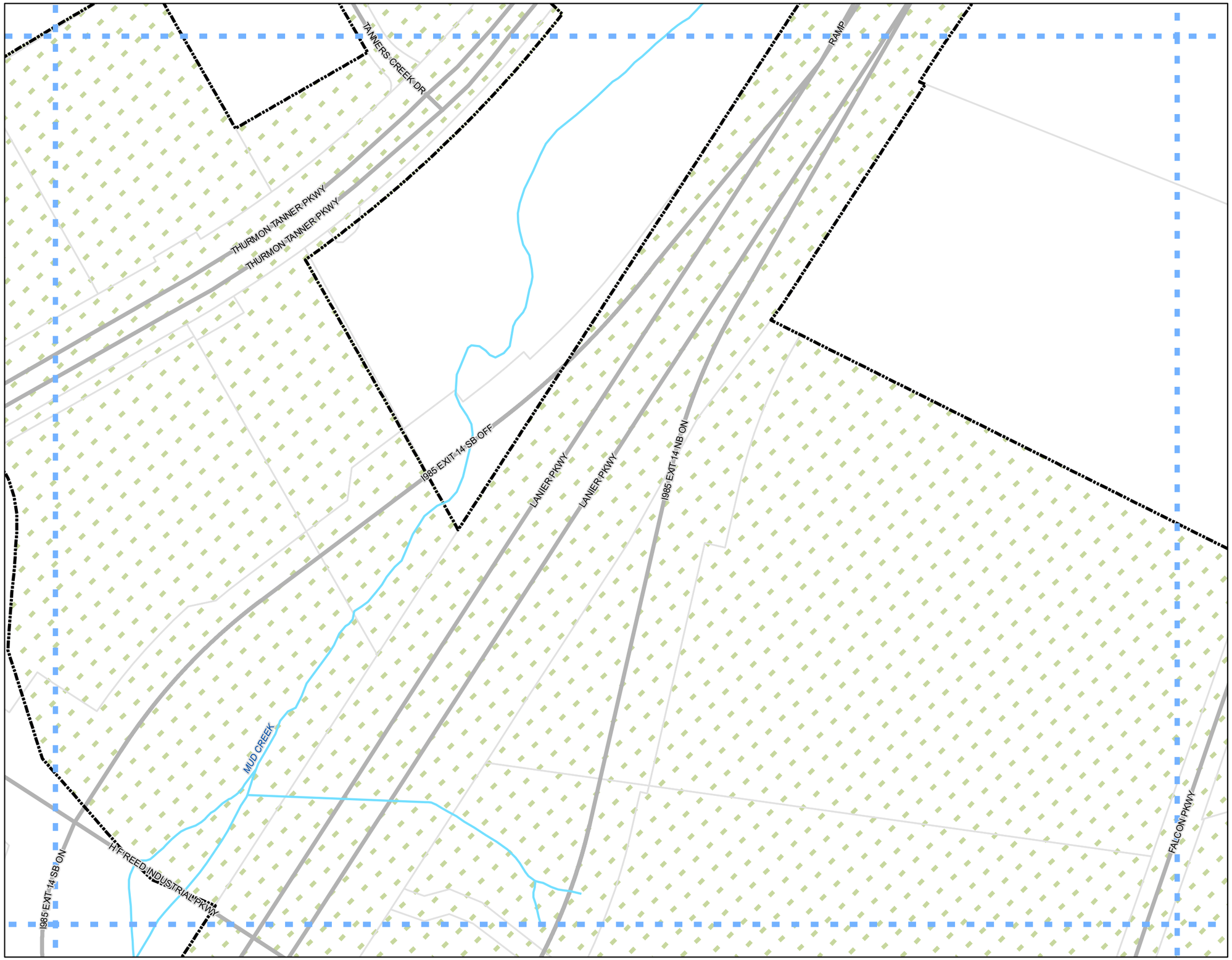
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

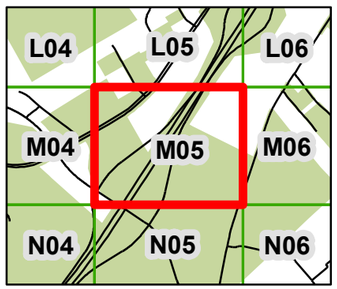


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
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- Parcel



M05

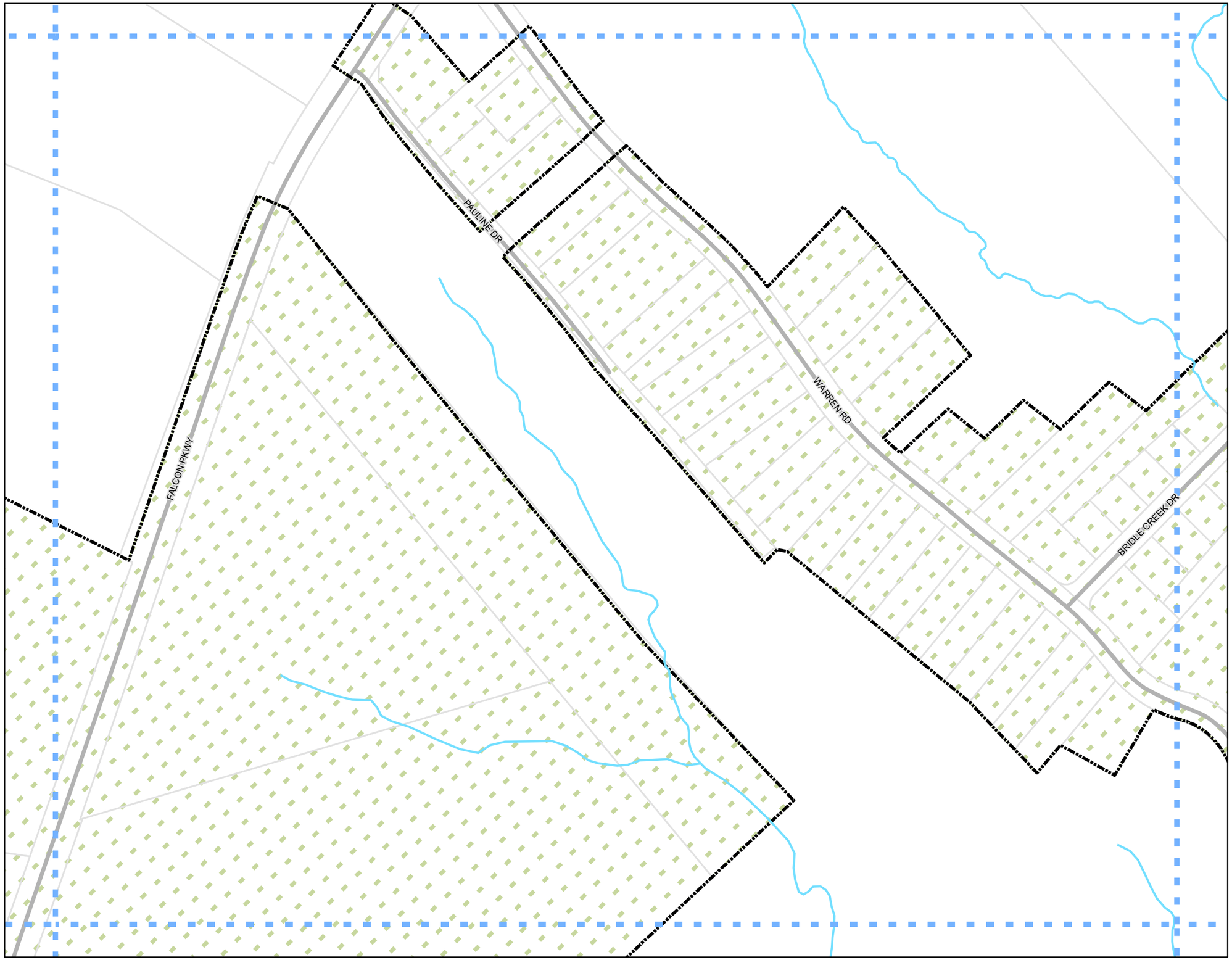
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

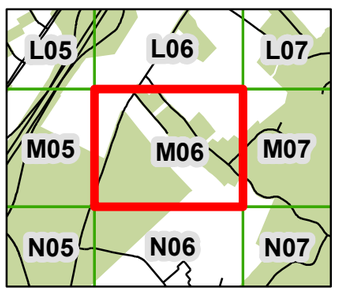


Legend

- Catch Basin
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- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Supporting
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- Parcel



M06

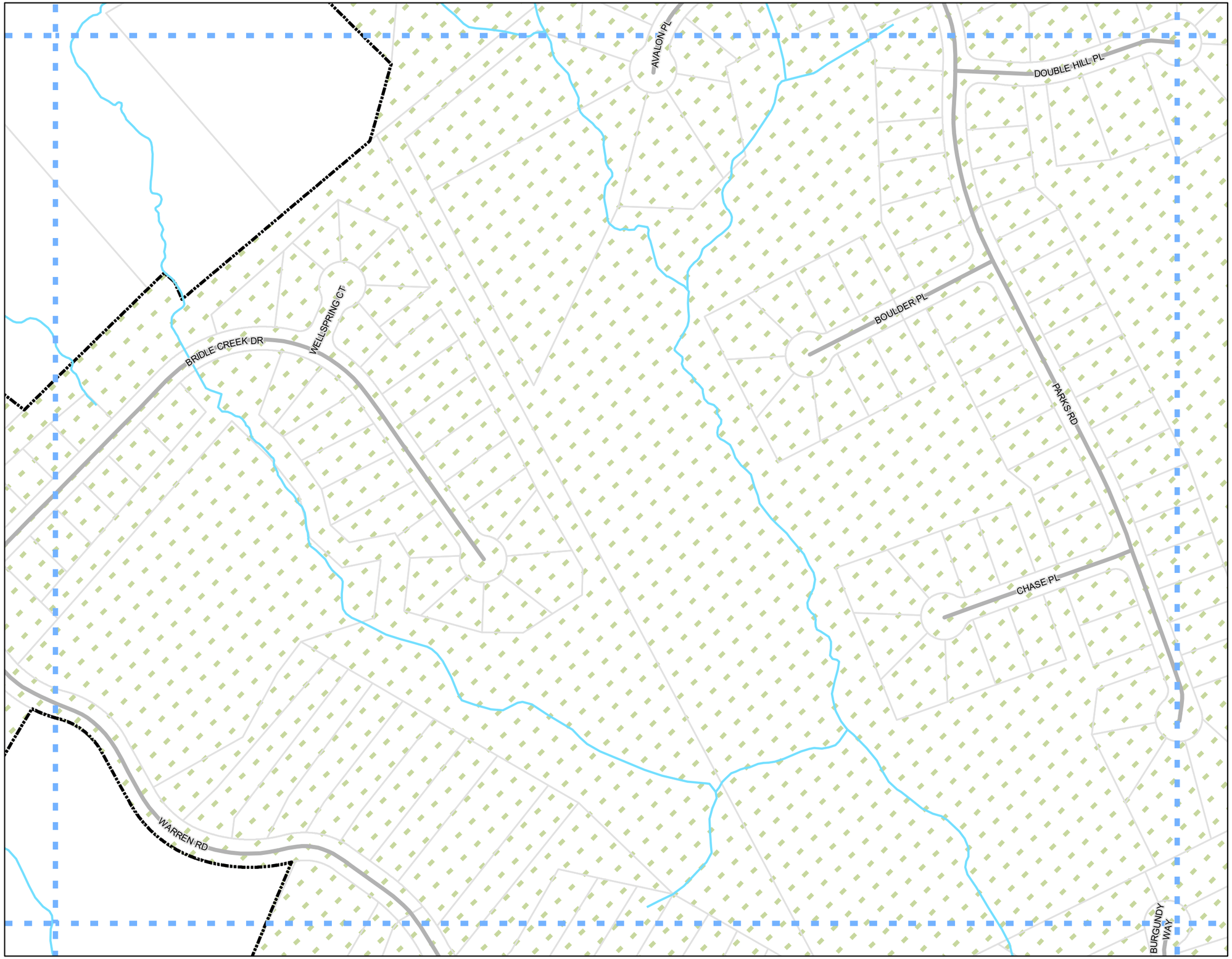
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

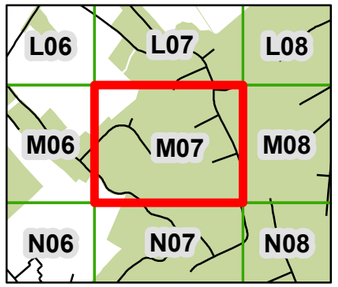


Legend

- Catch Basin
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- Junction Box
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- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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M07

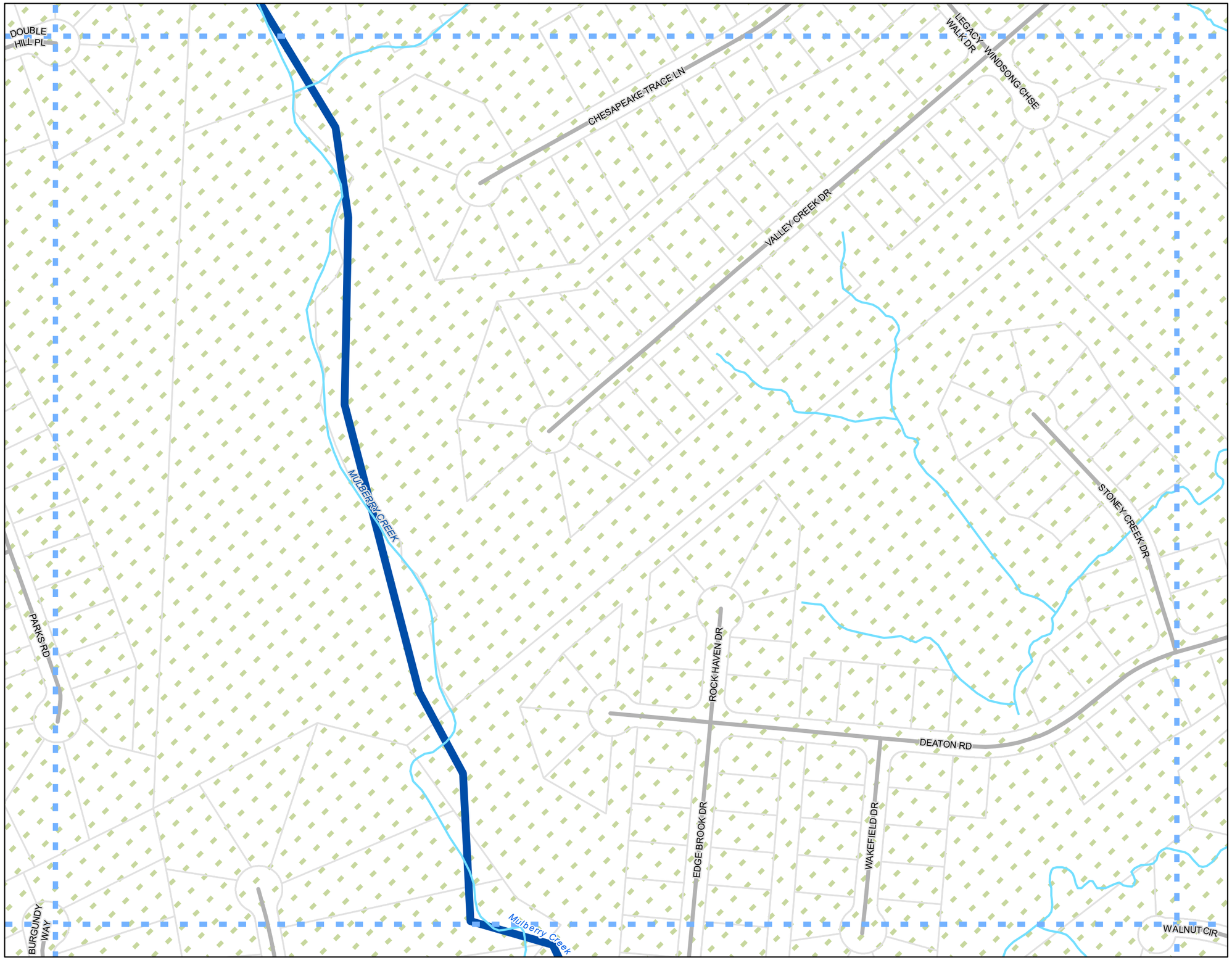
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

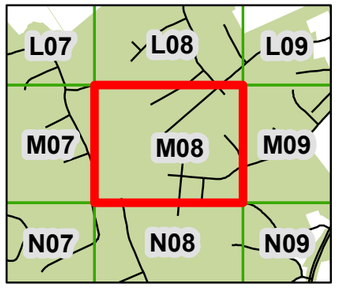


Legend

- Catch Basin
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- Junction Box
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- Pond Structure
- PIPES
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- Streams

Impared Streams

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- Supporting
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- Parcel



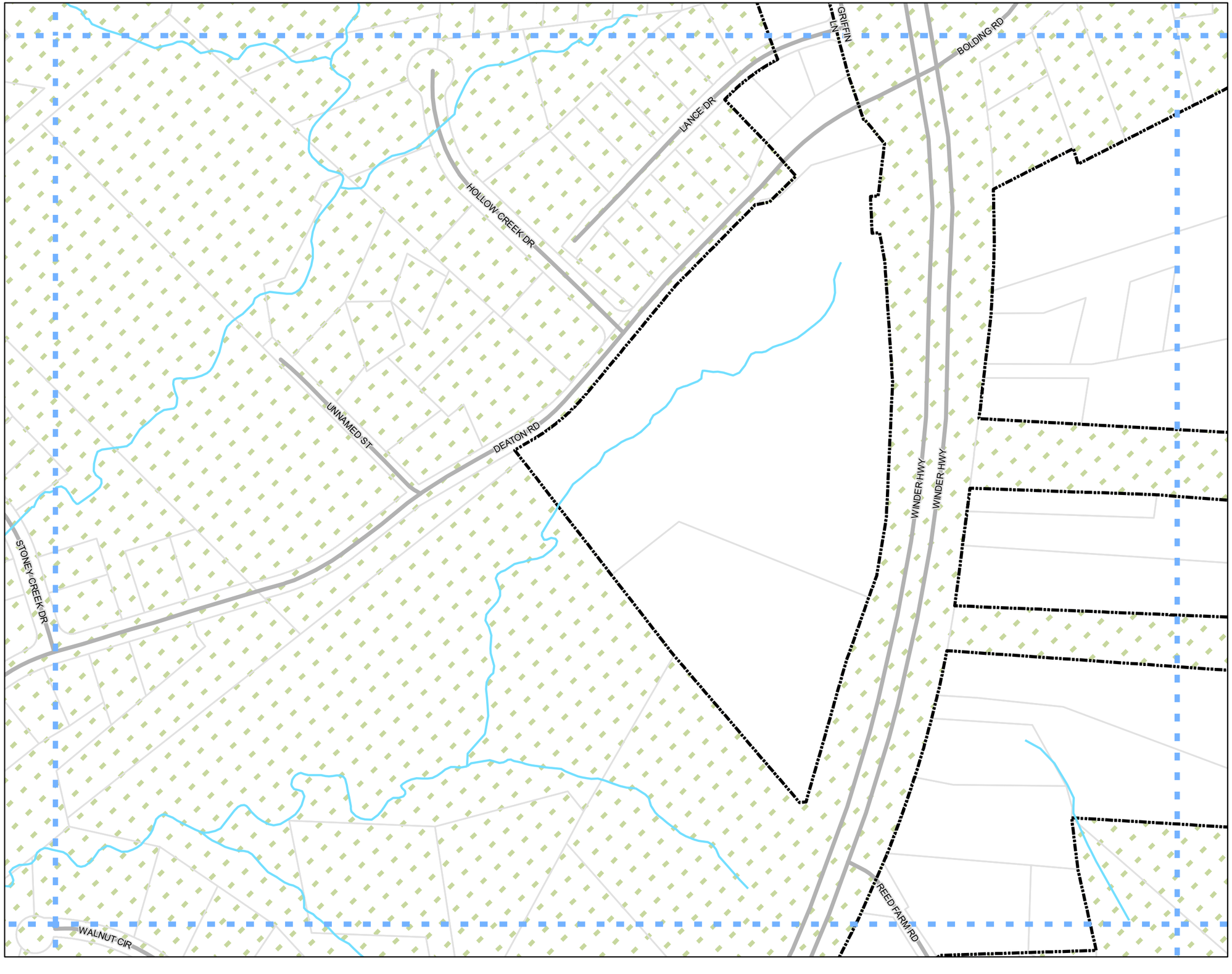
M08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

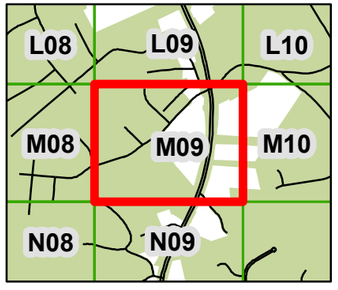


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- City Limits
- Parcel



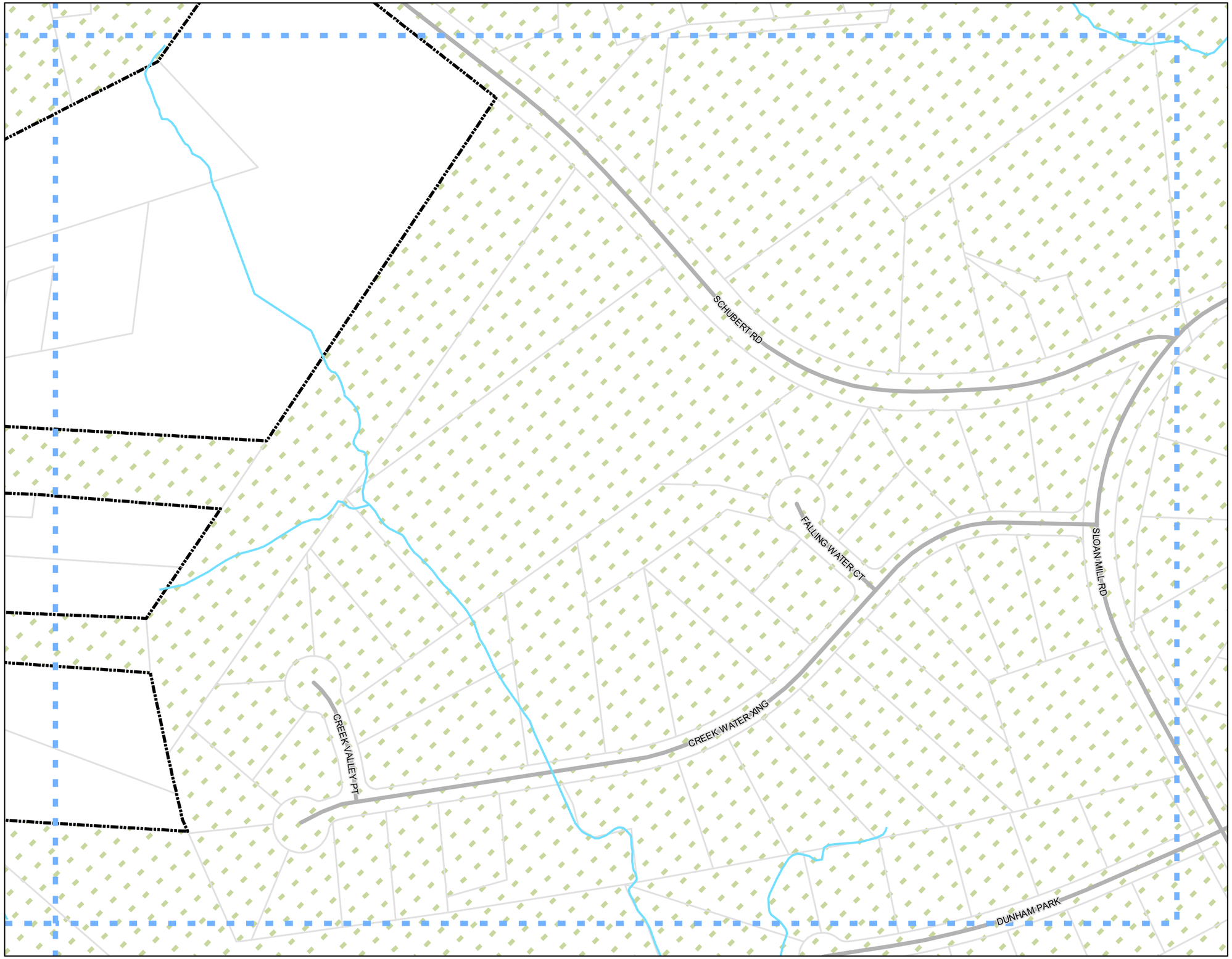
M09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

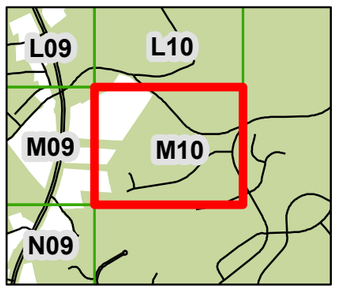


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Parcel



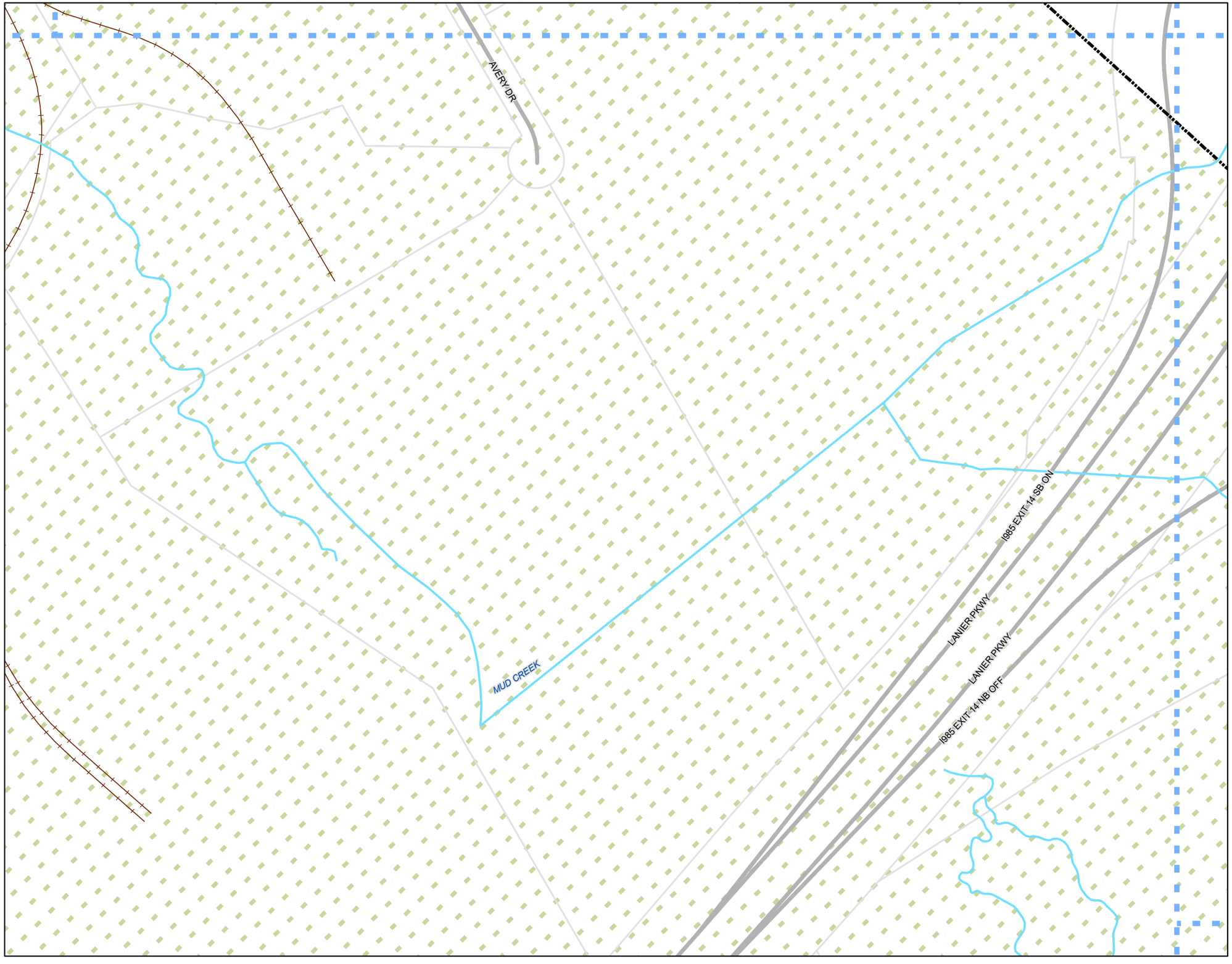
M10

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

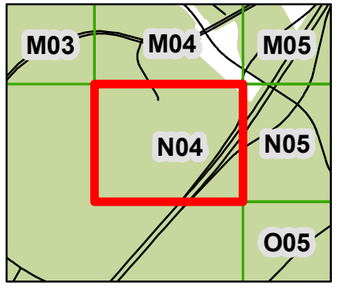


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
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- Streams

Impared Streams

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N04

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

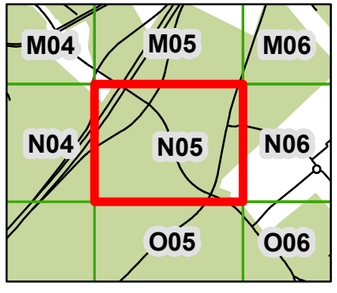


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
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Impared Streams

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N05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

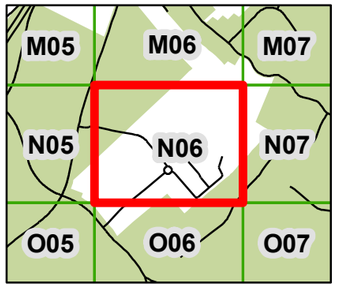
Oakwood Stormwater Atlas

Legend

- Catch Basin
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- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

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N06

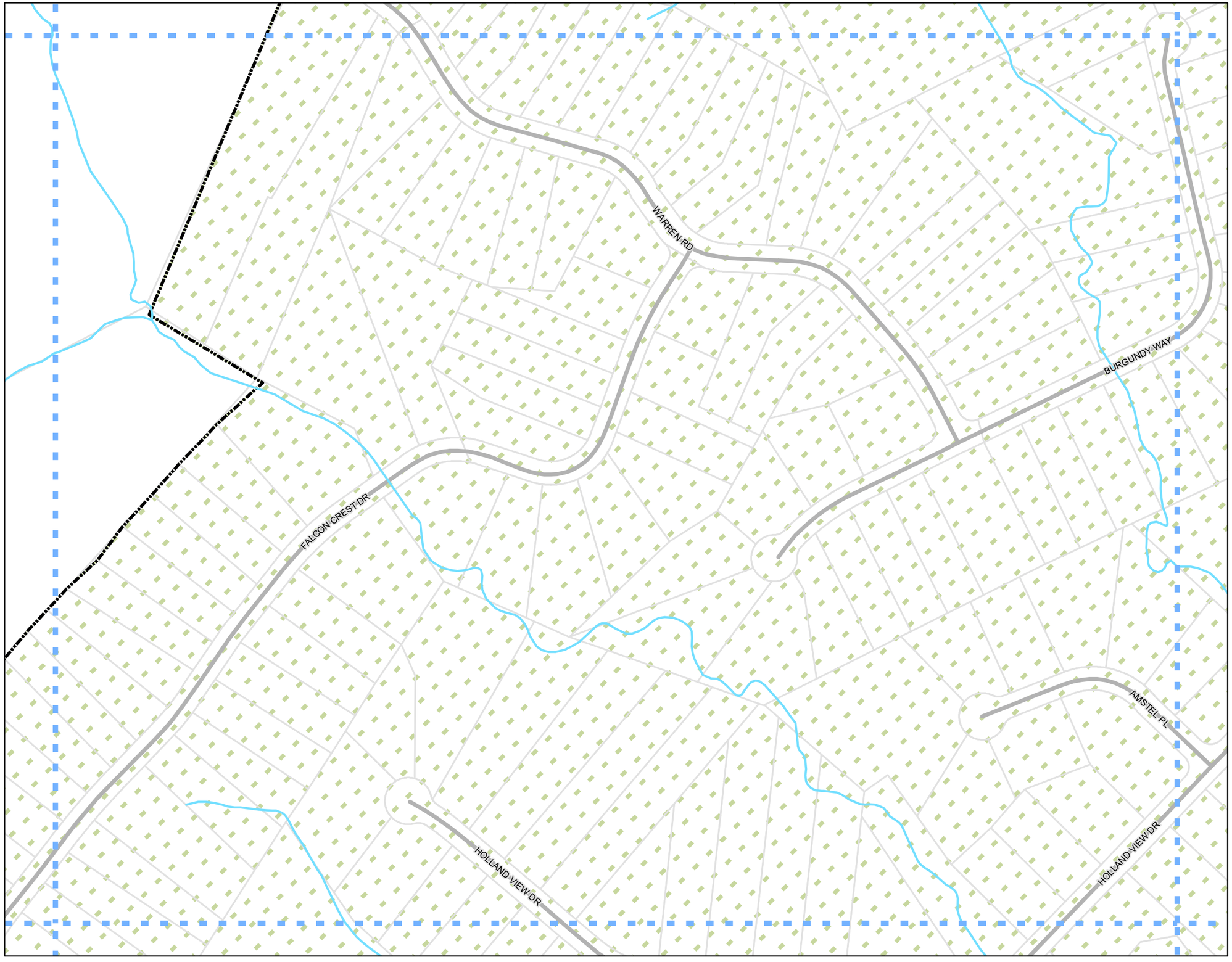
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

FALCON PKWY
HARWOOD RD
OVERBROOK DR
HARWOOD RD
HARWOOD RD
FALCON CREST DR
OVERBROOK DR
9201
9202
9203
9204
9205

Oakwood Stormwater Atlas

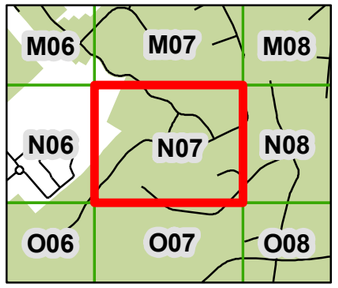


Legend

- Catch Basin
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- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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N07

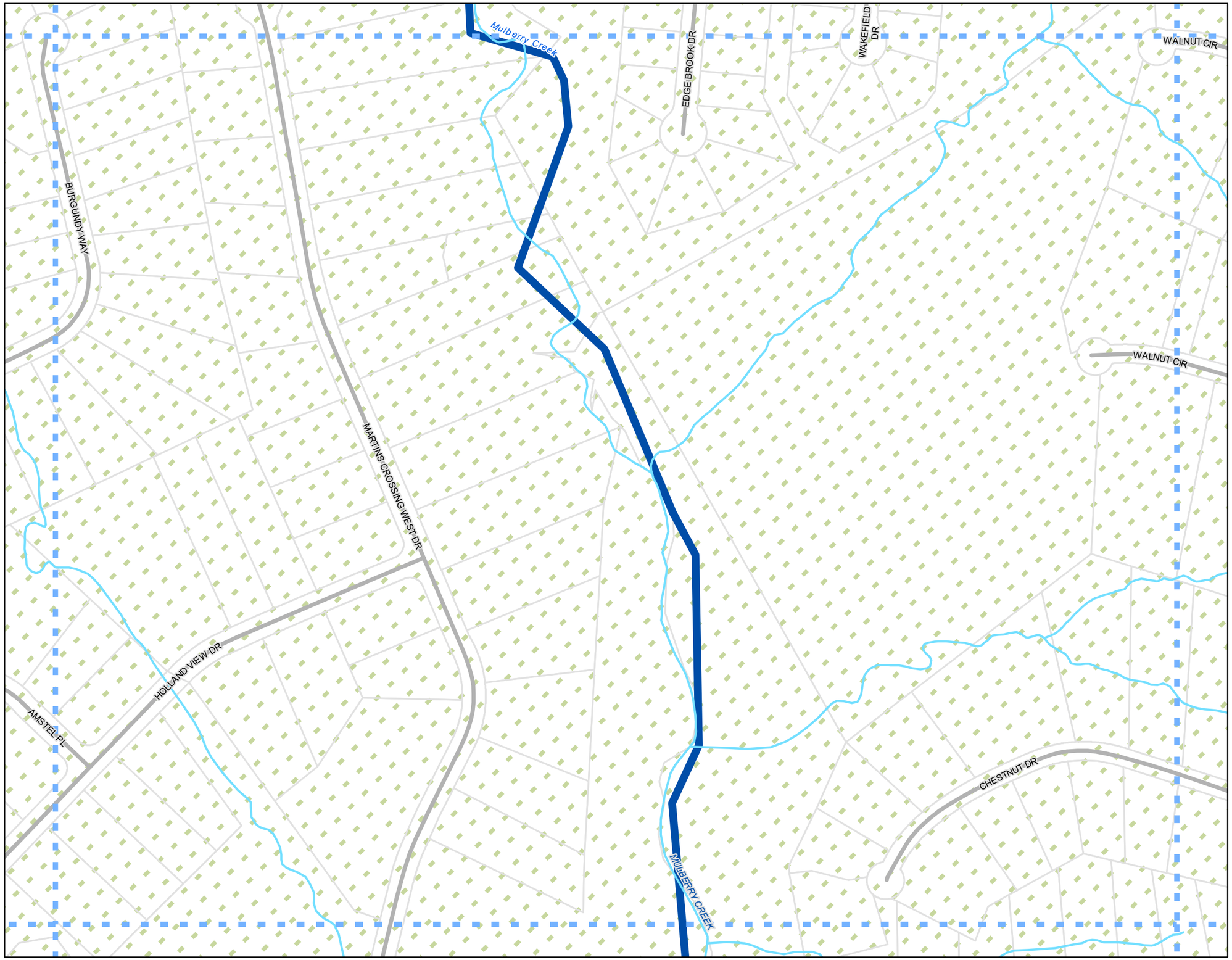
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

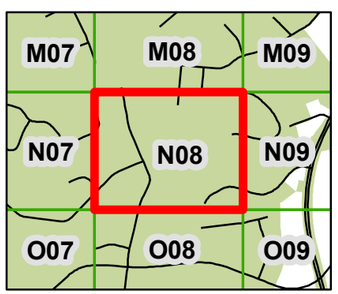


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
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N08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

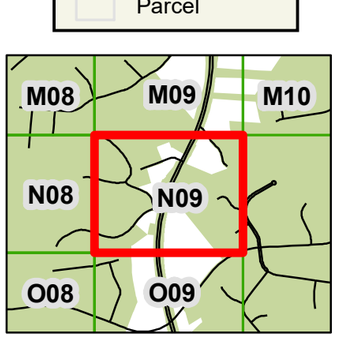
Oakwood Stormwater Atlas

Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- City Limits
- Parcel



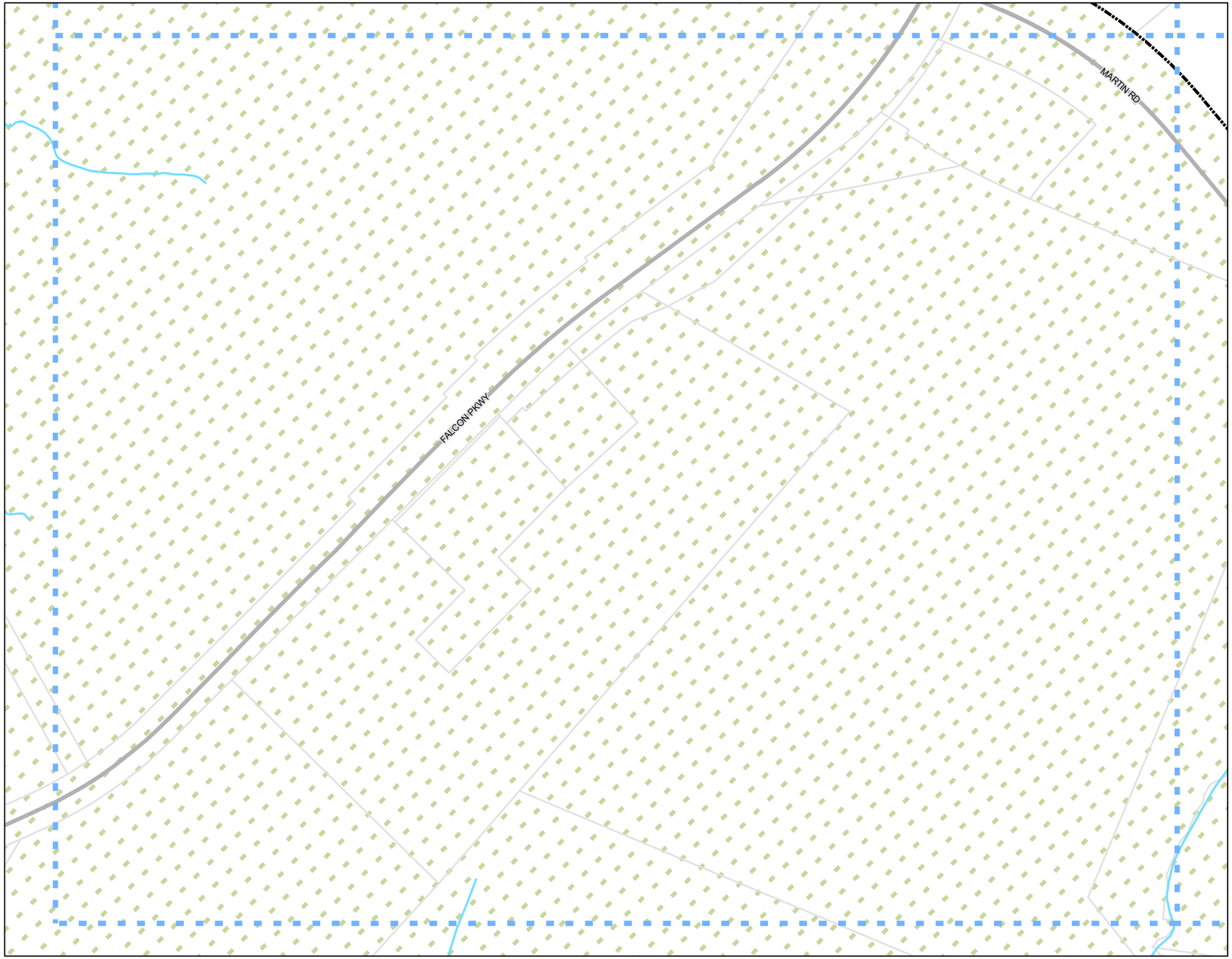
N09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas



Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

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- Parcel

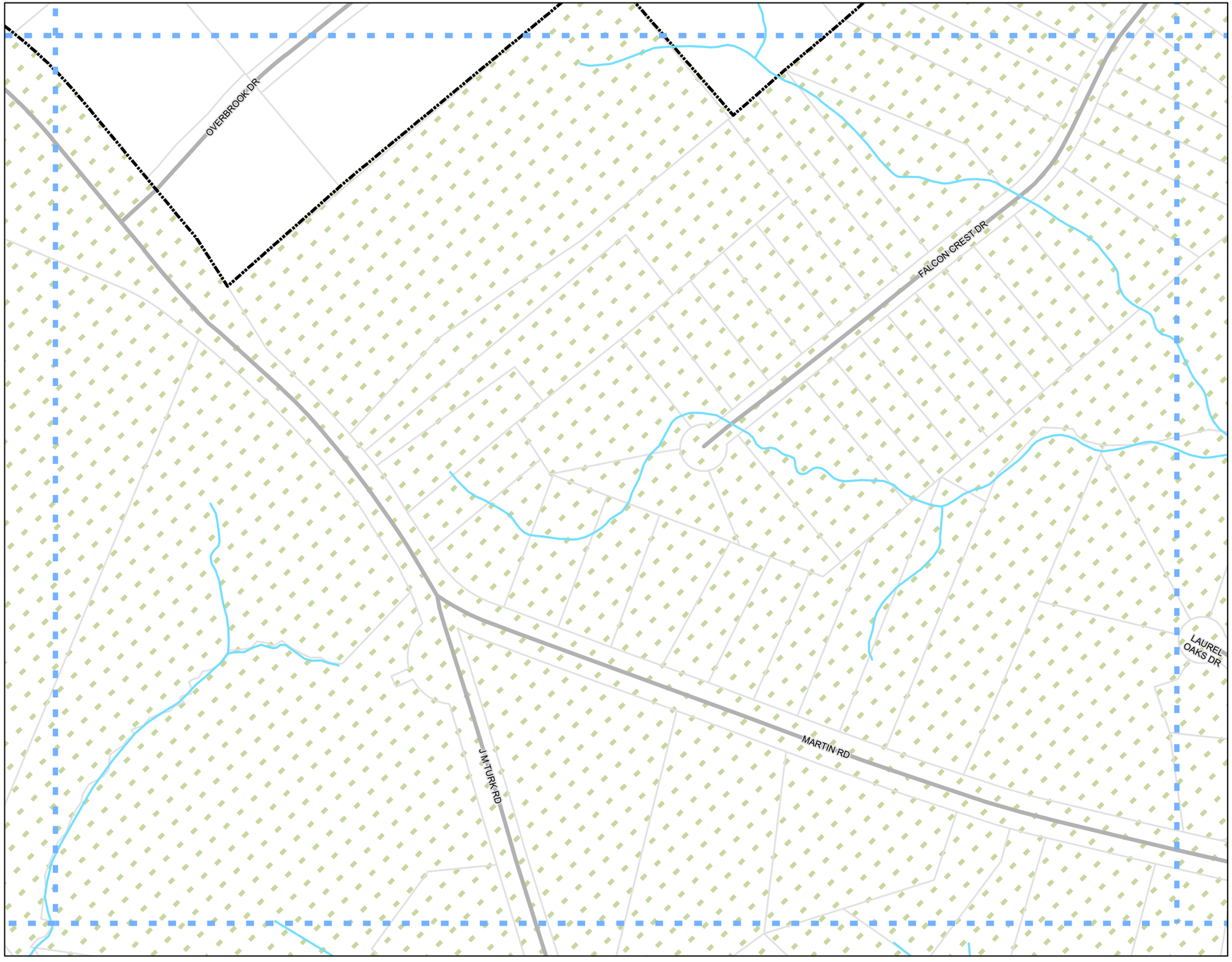
O05

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

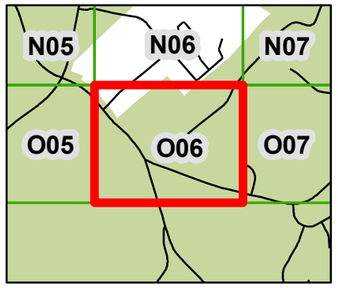


Legend

- Catch Basin
- Difficult Access
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- Pipe End
- Pond Structure
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- City Limits
- Parcel



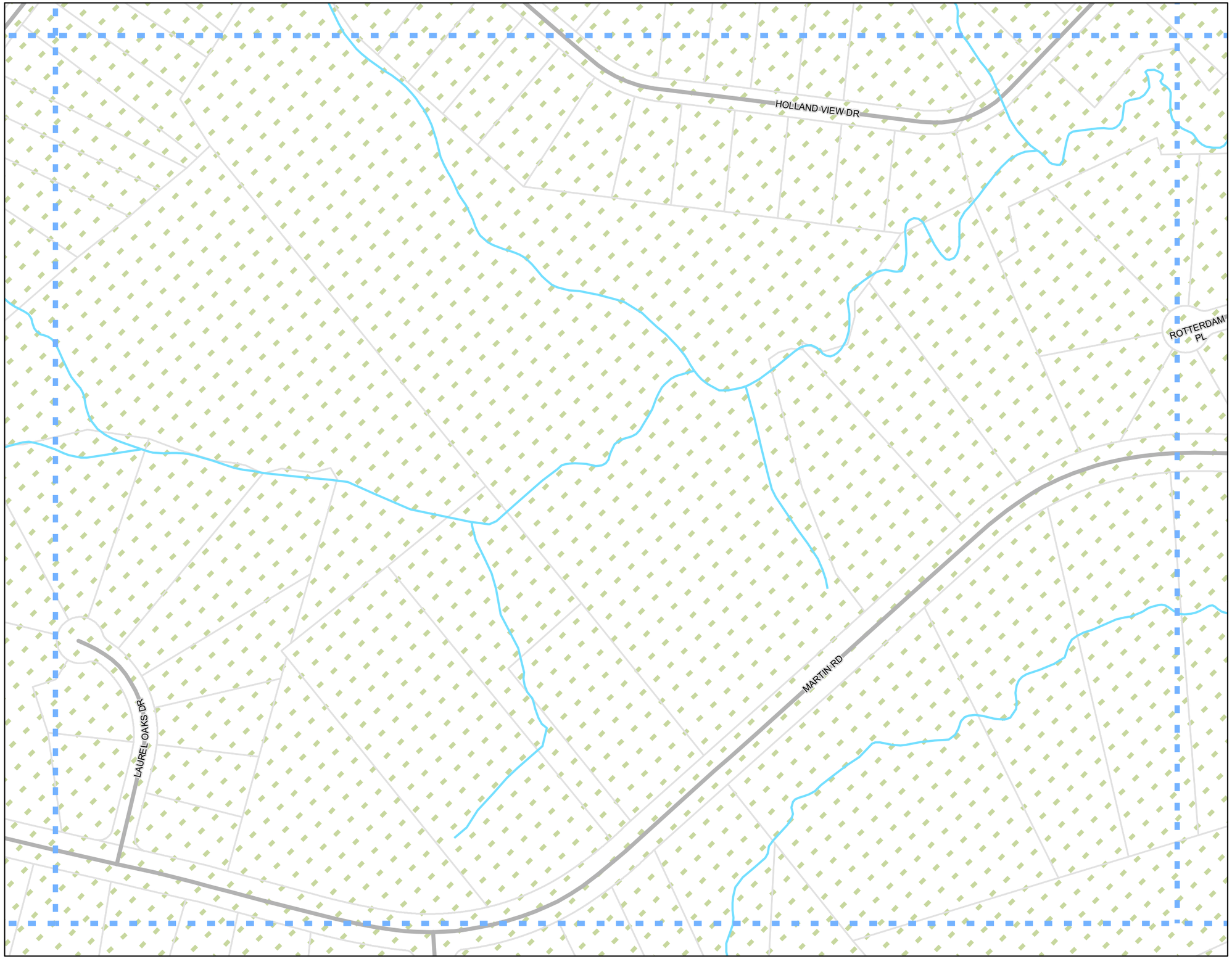
O06

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

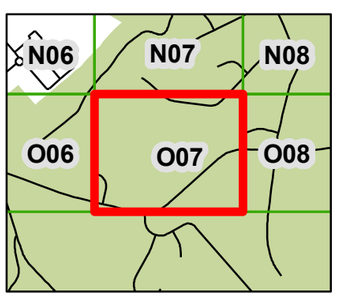


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



O07

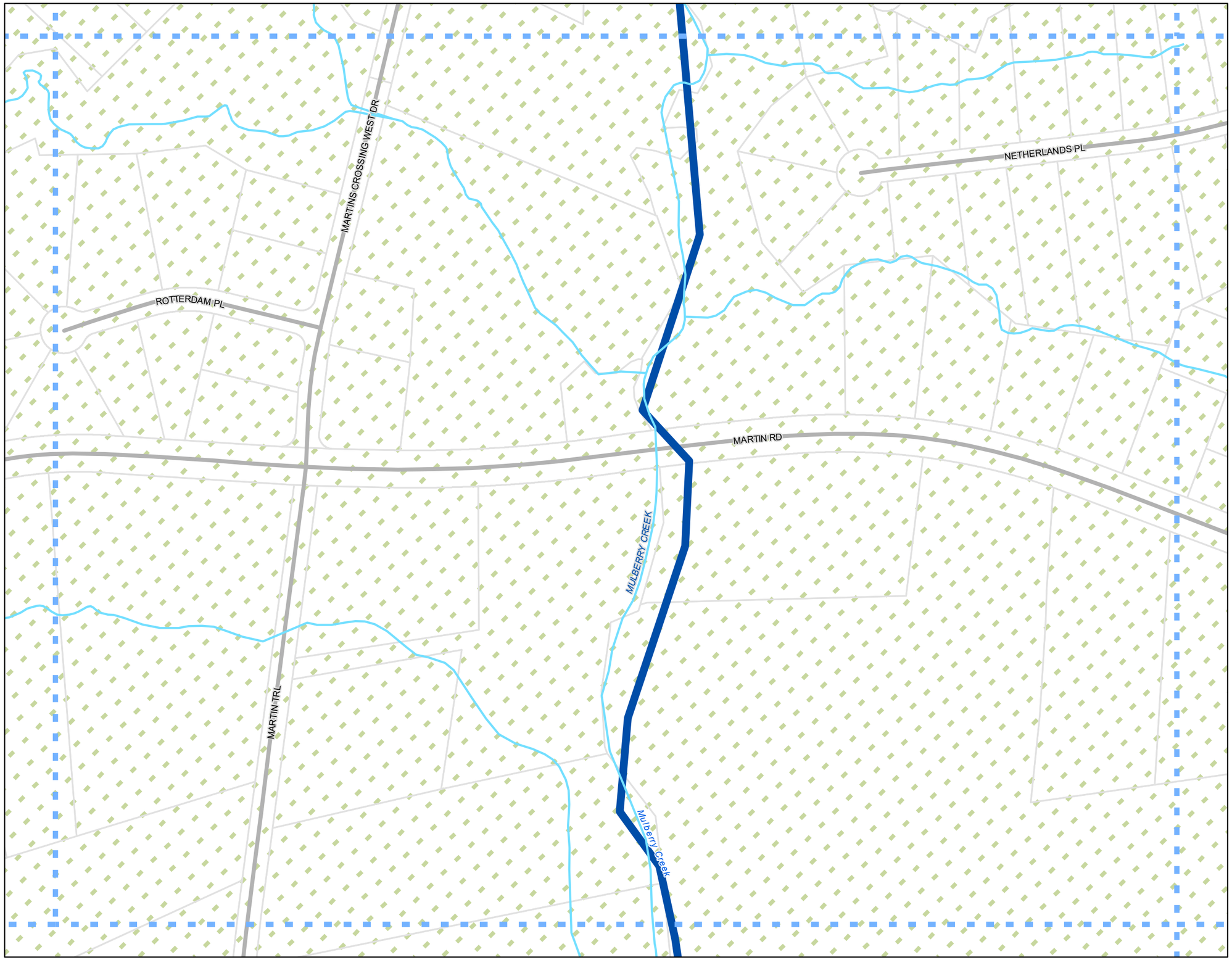
CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

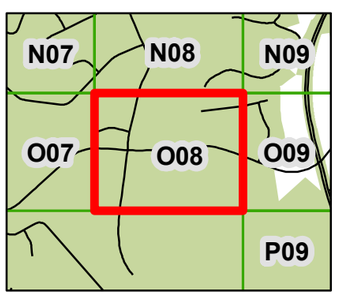


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



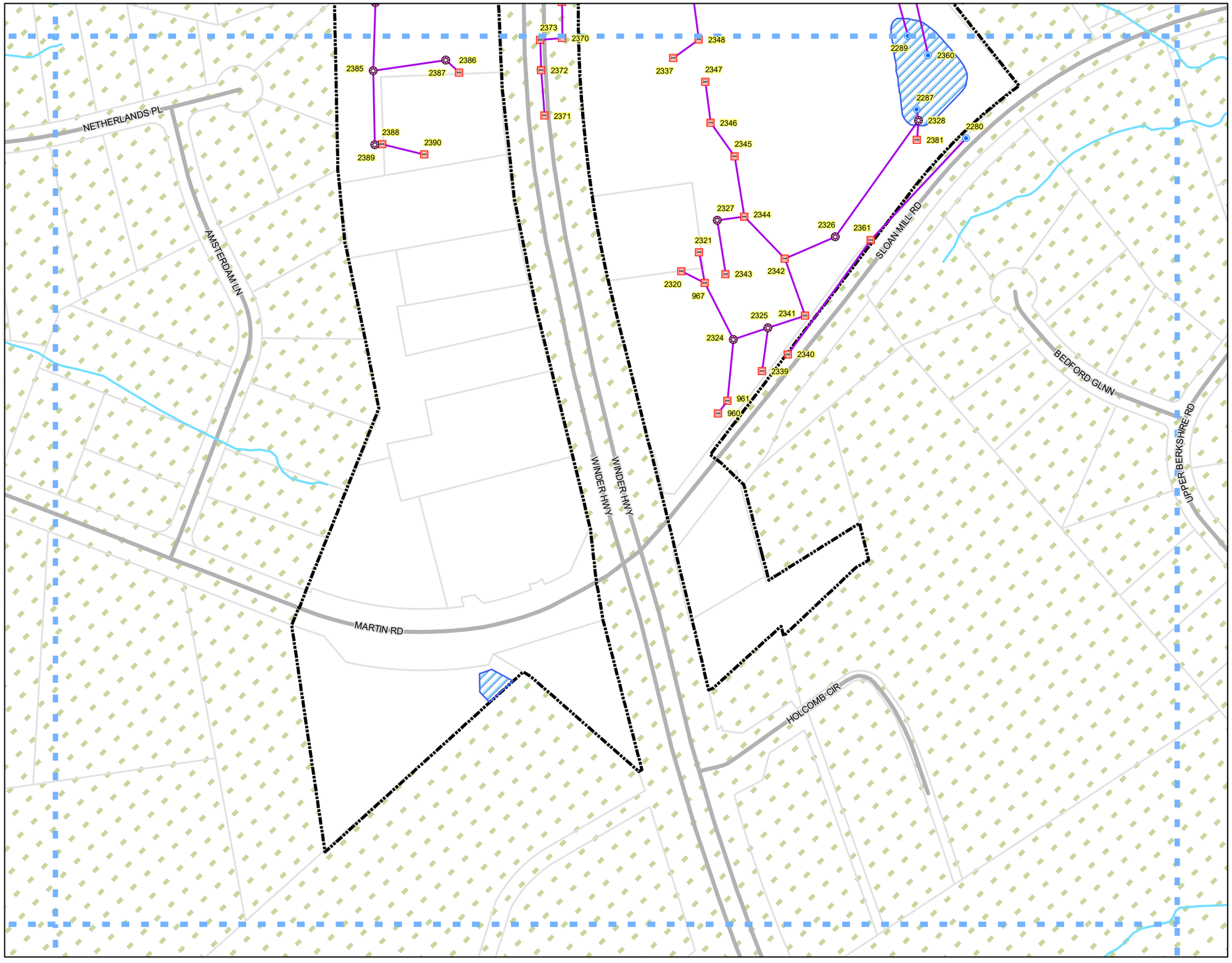
O08

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

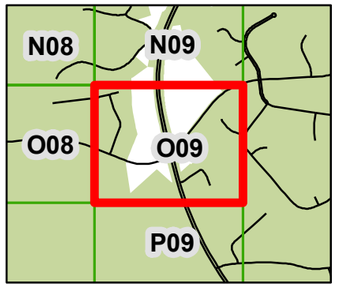


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



O09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Oakwood Stormwater Atlas

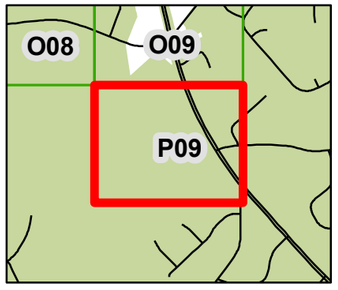


Legend

- Catch Basin
- Difficult Access
- Junction Box
- Pipe End
- Pond Structure
- PIPES
- Storm_Pond
- Streams

Impared Streams

- Not Supporting
- Supporting
- City Limits
- Parcel



P09

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

1 in = 200 ft

Date: 2/14/2023

Street Maintenance	Drainage Type	Length (Ft.)	Length (Mi.)
Local	**Ditch**	**92,360.63**	**17.49**
Local	Curb Gutter	71,831.83	13.60
Private		18,148.74	3.44
State		33,651.43	6.37
Grand Total		***215,992.64***	***40.91***

Oakwood Streets

Street Maintenance

- Local, Ditch
- Local, Curb Gutter
- Private
- State
- Oakwood City Limits

CITY OF OAKWOOD
BUILDING THE FUTURE TOGETHER

Gainesville - Hall County GIS

0 0.125 0.25 0.5 0.75 1 Miles

Date: 9/15/2020

City of Oakwood MS4
Pipes Inventory 2021

Object ID	Length (LF)
1	103.39
2	179.46
3	160.18
4	98.56
5	51.67
6	126.57
7	100.32
8	77.23
9	120.02
10	122.32
11	41.86
12	82.26
13	61.49
14	90.74
15	74.28
16	171.51
17	249.83
18	147.87
19	80.42
20	37.45
21	111.16
22	55.57
23	84.64
24	84.80
25	80.49
26	71.74
27	93.18
28	102.60
29	83.35
30	99.09
31	165.71
32	86.46
33	30.38
34	156.38
35	327.09
36	69.36
37	148.64
38	149.42
39	85.59
40	27.79
41	18.99
42	92.38
43	18.06

44	187.99
45	39.76
46	75.00
47	19.39
48	54.02
49	198.61
50	19.91
51	32.31
52	19.16
53	19.98
54	39.34
55	20.38
56	21.95
57	20.93
58	32.15
59	80.16
60	261.66
61	217.01
62	14.44
63	68.76
64	497.08
65	44.11
66	54.87
67	55.40
68	43.11
69	36.75
70	38.00
71	69.84
72	61.68
73	114.76
74	37.24
75	112.05
76	16.67
77	34.30
78	233.28
79	59.14
80	42.96
81	147.11
82	166.34
83	45.64
84	32.51
85	30.11
86	28.72
87	41.36
88	7.50
89	40.32
90	56.92

91	42.46
92	107.46
93	39.07
94	19.09
95	290.85
96	310.32
97	27.13
98	116.19
99	9.62
100	457.69
101	176.33
102	57.32
103	102.76
104	228.74
105	156.67
106	131.72
107	34.05
108	267.08
109	185.18
110	37.98
111	133.18
112	28.14
113	158.97
114	39.97
115	46.63
116	211.77
117	98.21
118	27.78
119	118.94
120	119.30
121	35.95
122	124.66
123	45.98
124	87.12
125	40.84
126	107.48
127	34.75
128	101.66
129	91.97
130	193.82
131	25.43
132	18.24
133	18.62
134	65.27
135	19.80
136	22.86
137	61.05

138	73.51
139	39.70
140	65.77
141	42.07
142	75.21
143	57.96
144	105.38
145	31.63
146	59.77
147	72.05
148	62.69
149	31.92
150	33.26
151	69.44
152	48.44
153	33.35
154	156.28
155	32.99
156	110.98
157	27.84
158	28.44
159	43.48
160	211.78
161	195.88
162	33.51
163	34.99
164	87.65
165	35.61
166	153.48
167	131.91
168	60.25
169	45.03
170	39.77
171	53.92
172	14.19
173	32.66
174	57.97
175	4.38
176	96.76
177	12.65
178	64.17
179	87.75
180	121.25
181	78.62
182	19.09
183	83.66
184	112.67

185	45.74
186	86.87
187	183.32
188	148.67
189	142.89
190	137.39
191	103.30
192	222.08
193	149.90
194	129.64
195	107.30
196	20.42
197	37.45
198	40.06
199	84.49
200	174.93
201	24.62
202	36.00
203	69.34
204	134.52
205	177.32
206	296.48
207	69.40
208	143.75
209	16.21
210	55.79
211	47.66
212	9.50
213	31.18
214	35.27
215	154.49
216	175.36
217	80.10
218	39.07
219	45.78
220	323.91
221	83.59
222	188.20
223	160.35
224	268.31
225	257.93
226	234.36
227	68.38
228	266.75
229	73.02
230	123.79
231	169.40

232	29.09
233	108.55
234	171.23
235	36.49
236	47.07
237	97.47
238	36.89
239	42.85
240	12.26
241	95.35
242	52.91
243	166.62
244	125.70
245	67.17
246	122.61
247	139.12
248	140.76
249	28.81
250	133.39
251	177.27
252	26.55
253	59.22
254	11.67
255	11.82
256	16.11
257	13.60
258	47.83
259	59.04
260	9.26
261	30.14
262	109.90
263	31.44
264	71.32
265	119.41
266	15.92
267	51.68
268	91.31
269	29.02
270	34.36
271	161.44
272	25.01
273	138.70
274	8.57
275	14.88
276	16.45
277	18.19
278	60.66

279	57.50
280	196.31
281	57.72
282	61.88
283	38.68
284	138.68
285	292.56
286	55.11
287	7.23
288	37.40
289	22.11
290	61.09
291	26.02
292	19.96
293	43.72
294	27.85
295	182.47
296	166.70
297	121.84
298	59.41
299	82.60
300	142.81
301	243.03
302	38.01
303	46.76
304	69.00
305	9.71
306	7.11
307	39.95
308	48.48
309	21.80
310	45.81
311	32.01
312	54.45
313	36.61
314	103.12
315	137.88
316	154.80
317	125.07
318	154.95
319	98.15
320	255.89
321	128.40
322	20.63
323	74.73
324	41.09
325	94.63

326	191.69
327	142.37
328	151.10
329	34.61
330	234.46
331	121.40
332	281.43
333	152.53
334	121.36
335	119.07
336	117.82
337	51.66
338	71.91
339	129.35
340	186.50
341	36.01
342	285.20
343	34.56
344	35.40
345	21.88
346	83.95
347	141.24
348	62.79
349	22.72
350	160.73
351	167.84
352	79.91
353	98.04
354	92.12
355	204.53
356	129.58
357	121.20
358	155.68
359	104.69
360	81.24
361	9.36
362	12.07
363	26.52
364	96.79
365	233.80
366	135.49
367	134.77
368	56.75
369	79.30
370	88.71
371	137.25
372	41.92

373	117.06
374	70.49
375	20.71
376	61.25
377	24.13
378	46.84
379	46.49
380	62.13
381	419.87
382	87.52
383	189.69
384	192.79
385	63.91
386	32.97
387	17.07
388	84.16
389	55.14
390	58.25
391	113.43
392	57.37
393	50.38
394	49.24
395	73.77
396	123.34
397	103.39
398	53.64
399	62.53
400	40.75
401	31.32
402	53.11
403	113.62
404	44.67
405	46.01
406	30.81
407	45.82
408	76.70
409	92.84
410	128.49
411	244.06
412	128.01
413	42.23
414	20.50
415	251.18
416	69.55
417	35.82
418	59.99
419	89.23

420	18.16
421	13.92
422	153.66
423	100.23
424	153.23
425	222.92
426	72.09
427	226.71
428	60.09
429	24.03
430	47.43
431	13.65
432	64.14
433	46.48
434	152.01
435	31.88
436	85.60
437	28.53
438	142.49
439	48.44
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441	46.84
442	250.43
443	135.68
444	138.08
445	43.20
446	80.18
447	46.34
448	42.38
449	33.67
450	67.39
451	50.91
452	44.97
453	25.39
454	36.57
455	34.32
456	21.22
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459	121.51
460	56.17
461	388.04
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464	59.80
465	154.94
466	57.17

467	21.87
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469	30.54
470	102.98
471	23.28
472	105.26
473	135.61
474	105.25
475	94.97
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477	117.20
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485	156.00
486	113.58
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490	56.05
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493	20.67
494	17.60
495	34.47
496	20.43
497	21.43
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502	21.89
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505	137.67
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555	90.67
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561	154.78

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565	48.01
566	55.53
567	44.17
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569	83.51
570	54.49
571	22.53
572	19.59
573	31.64
574	23.04
575	46.73
576	53.90
577	95.20
578	75.99
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580	91.37
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594	51.62
595	40.78
596	26.42
597	21.62
598	18.39
599	19.52
600	17.60
601	20.98
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603	19.55
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653	33.70
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657	32.79
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663	16.50
664	17.40
665	17.43
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668	21.44
669	20.29
670	20.74
671	20.68
672	20.08
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715	13.97
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722	50.19
723	26.56
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725	15.07
726	23.53
727	15.61
728	27.58
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730	21.64
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732	28.61
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734	18.39
735	27.75
736	16.24
737	19.94
738	18.44
739	20.03
740	19.40
741	69.01
742	17.11
743	19.23
744	21.35
745	19.28
746	19.91
747	18.24
748	18.75
749	17.69

750	18.33
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753	18.80
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762	29.18
763	6.72
764	16.86
765	17.97
766	23.92
767	37.57
768	21.05
769	45.39
770	20.07
771	22.30
772	38.90
773	47.86
774	18.45
775	18.44
776	20.64
777	16.17
778	35.70
779	14.33
780	23.56
781	20.86
782	20.85
783	14.86
784	19.62
785	5.31
786	13.52
787	19.11
788	104.55
789	68.93
790	21.11
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794	22.07
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805	22.65
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808	59.27
809	52.90
810	86.74
811	16.83
812	19.21
813	29.26
814	22.75
815	20.18
816	18.08
817	77.16
818	15.23
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820	31.26
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823	18.49
824	28.53
825	177.53
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827	64.60
828	30.28
829	26.75
830	218.12
831	282.92
832	265.94
833	25.16
834	42.19
835	39.67
836	35.04
837	94.05
838	93.30
839	48.72
840	107.33
841	63.39
842	33.01
843	30.71

844	29.89
845	22.53
846	25.69
847	33.43
848	18.25
849	40.91
850	36.32
851	22.26
852	42.88
853	24.99
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866	20.74
867	106.94
868	281.30
869	39.07
870	21.85
871	48.92
872	29.52
873	38.33
874	42.88
875	175.40
876	73.56
877	23.34
878	209.13
879	50.23
880	120.41
881	300.86
882	26.45
883	72.05
884	101.25
885	77.19
886	100.85
887	137.51
888	210.61
889	358.72
890	81.55

891	173.34
892	122.58
893	92.07
894	100.41
895	28.83
896	19.97
897	20.30
898	91.47
899	89.86
900	62.76
901	88.45
902	37.53
903	106.98
904	43.43
905	325.63
906	289.43
907	109.25
908	250.45
909	55.76
910	15.08
911	149.04
912	30.63
913	27.70
914	253.29
915	49.21
916	35.37
917	30.31
918	40.57
919	39.38
920	30.94
921	37.71
922	145.89
923	14.28
924	188.16
925	62.86
926	104.56
927	25.08
928	279.46
929	20.23
930	171.07
931	146.97
932	131.73
933	129.69
934	109.91
935	112.25
936	209.44
937	22.24

938	49.15
939	50.15
940	50.58
941	6.78
942	91.86
943	33.09
944	93.77
945	107.78
946	64.92
947	22.52
948	273.53
949	93.25
950	239.82
951	40.81
952	83.12
953	38.97
954	130.10
955	202.17
956	35.55
957	39.69
958	21.11
959	39.31
960	41.31
961	30.48
962	73.81
963	63.30
964	51.85
965	142.43
966	62.37
967	124.39
968	60.12
969	73.23
970	133.74
971	149.41
972	44.97
973	14.04
974	86.66
975	49.08
976	73.02
977	146.68
978	51.76
979	85.35
980	49.35
981	48.99
982	20.25
983	45.94
984	26.29

985	21.62
986	20.87
987	16.47
988	8.78
989	33.06
990	49.79
991	21.46
992	30.27
993	84.55
994	68.45
995	27.77
996	20.03
997	144.40
998	59.87
999	59.72
1000	42.94
1001	8.24
1002	20.87
1003	20.79
1004	43.89
1005	22.12
1006	51.43
1007	20.78
1008	43.64
1009	40.80
1010	117.83
1011	137.60
1012	21.06
1013	27.05
1014	34.58
1015	27.85
1016	20.49
1017	59.55
1018	36.62
1019	15.03
1020	9.55
1021	21.63
1022	20.63
1023	16.16
1024	8.02
1025	37.19
1026	20.51
1027	18.27
1028	29.19
1029	20.91
1030	32.08
1031	26.00

1032	19.41
1033	20.45
1034	14.00
1035	41.88
1036	26.95
1037	126.04
1038	92.09
1039	21.34
1040	40.93
1041	17.77
1042	45.51
1043	88.74
1044	145.70
1045	171.00
1046	19.70
1047	59.93
1048	23.12
1049	54.88
1050	202.35
1051	52.49
1052	21.08
1053	52.97
1054	46.18
1055	18.54
1056	25.07
1057	142.59
1058	19.60
1059	24.04
1060	20.18
1061	16.38
1062	23.99
1063	32.29
1064	13.81
1065	13.27
1066	23.45
1067	56.09
1068	34.70
1069	20.18
1070	41.41
1071	218.16
1072	34.23
1073	71.70
1074	119.12
1075	87.94
1076	26.78
1077	165.57
1078	110.72

1079	18.20
1080	52.36
1081	32.23
1082	32.20
1083	40.99
1084	31.30
1085	73.00
1086	112.09
1087	70.21
1088	53.40
1089	56.99
1090	32.10
1091	12.97
1092	17.29
1093	34.54
1094	8.94
1095	7.82
1096	21.11
1097	36.45
1098	10.75
1099	38.67
1100	17.52
1101	9.15
1102	48.74
1103	11.98
1104	22.54
1105	71.79
1106	12.93
1107	80.26
1108	39.69
1109	48.54
1110	78.05
1111	47.75
1112	13.27
1113	115.82
1114	35.44
1115	19.24
1116	34.71
1117	25.72
1118	54.79
1119	28.90
1120	171.07
1121	102.01
1122	95.75
1123	147.60
1124	29.65
1125	36.44

1126	10.09
1127	24.18
1128	217.09
1129	20.67
1130	27.15
1131	5.65
1132	8.64
1133	8.30
1134	8.50
1135	204.88
1136	30.77
1137	20.81
1138	63.79
1139	15.41
1140	17.77
1141	17.49
1142	48.27
1143	30.41
1144	10.29
1145	11.53
1146	31.13
1147	34.27
1148	40.80
1149	19.05
1150	23.54
1151	320.26
1152	101.15
1153	22.60
1154	62.73
1155	46.54
1156	319.76
1157	35.92
1158	40.45
1159	28.03
1160	22.34
1161	25.78
1162	22.78
1163	22.69
1164	20.21
1165	40.93
1166	22.24
1167	101.79
1168	145.39
1169	17.64
1170	38.57
1171	287.86
1172	57.26

1173	187.36
1174	18.85
1175	174.37
1176	164.94
1177	52.76
1178	258.01
1179	137.01
1180	124.48
1181	221.80
1182	214.05
1183	218.19
1184	251.52
1185	165.95
1186	27.48
1187	21.43
1188	94.95
1189	92.97
1190	41.90
1191	25.06
1192	61.27
1193	29.80
1194	19.12
1195	20.08
1196	27.32
1197	20.73
1198	29.02
1199	157.21
1200	23.21
1201	30.66
1202	53.36
1203	182.78
1204	57.61
1205	47.11
1206	33.30
1207	114.64
1208	106.88
1209	101.33
1210	116.88
1211	21.62
1212	80.91
1213	65.23
1214	53.56
1215	105.63
1216	105.19
1217	28.96
1218	231.48
1219	62.63

1220	12.90
1221	87.49
1222	166.97
1223	77.49
1224	282.47
1225	75.04
1226	388.57
1227	21.71
1228	114.26
1229	16.53
1230	42.58
1231	5.49
1232	374.87
1233	145.93
1234	120.19
1235	129.95
1236	43.92
1237	110.61
1238	141.68
1239	26.35
1240	111.17
1241	100.67
1242	166.04
1243	15.21
1244	85.01
1245	429.23
1246	19.32
1247	120.17
1248	151.23
1249	141.77
1250	116.14
1251	119.52
1252	107.23
1253	115.44
1254	197.98
1255	172.36
1256	127.58
1257	109.94
1258	62.00
1259	191.91
1260	164.13
1261	95.71
1262	110.70
1263	206.62
1264	163.12
1265	162.53
1266	69.53

1267	69.36
1268	254.05
1269	255.06
1270	73.40
1271	46.41
1272	40.30
1273	36.09
1274	71.98
1275	32.32
1276	5.02
1277	36.19
1278	20.77
1279	21.64
1280	139.35
1281	121.22
1282	62.62
1283	154.25
1284	122.23
1285	68.46
1286	23.72
1287	9.12
1288	10.23
1289	263.34
1290	79.20
1291	16.17
1292	183.31
1293	74.25
1294	20.68
1295	108.13
1296	205.88
1297	229.27
1298	84.16
1299	26.19
1300	10.07
1301	154.67
1302	84.59
1303	44.80
1304	20.75
1305	98.97
1306	238.26
1307	238.39
1308	60.97
1309	49.47
1310	62.71
1311	10.35
1312	3.43
1313	67.31

1314	66.82
1315	68.28
1316	57.51
1317	19.77
1318	188.21
1319	32.11
1320	32.07
1321	50.06
1322	26.54
1323	101.94
1324	36.17
1325	77.45
1326	370.02
1327	99.82
1328	79.84
1329	64.75
1330	80.88
1331	865.04
1332	736.83
1333	219.69
1334	347.00
1335	61.70
1336	45.55
1337	41.64
1338	221.51
1339	49.06
1340	34.52
1341	52.76
1342	60.38
1343	395.39
1344	230.05
1345	24.26
1346	157.43
1347	107.96
1348	158.58
1349	367.06
1350	51.26
1351	68.86
1352	156.15
1353	89.25
1354	48.80
1355	54.67
1356	64.36
1357	29.64
1358	22.48
1359	32.72
1360	23.63

1361	20.13
1362	20.22
1363	170.60
1364	28.37
1365	40.60
1366	59.93
1367	18.32
1368	34.90
1369	121.05
1370	26.70
1371	50.78
1372	54.79
1373	35.16
1374	22.43
1375	65.88
1376	31.76
1377	14.96
1378	13.37
1379	38.12
1380	22.70
1381	33.95
1382	39.21
1383	38.76
1384	60.09
1385	42.56
1386	36.65
1387	19.47
1388	61.06
1389	38.79
1390	15.25
1391	10.19
1392	155.34
1393	43.96
1394	21.87
1395	32.35
1396	20.48
1397	73.50
1398	23.58
1399	17.69
1400	219.20
1401	26.17
1402	144.75
1403	142.34
1404	11.44
1405	10.83
1406	19.95
1407	62.39

1408	204.66
1409	75.35
1410	202.84
1411	93.06
1412	32.47
1413	118.59
1414	136.17
1415	21.10
1416	67.26
1417	15.31
1418	408.83
1419	229.66
1420	30.60
1421	27.74
1422	22.76
1423	84.01
1424	20.42
1425	140.04
1426	104.43
1427	162.49
1428	157.46
1429	37.48
1430	101.36
1431	10.64
1432	60.15
1433	83.92
1434	64.69
1435	138.26
1436	144.21
1437	41.58
1438	74.98
1439	95.00
1440	17.23
1441	129.23
1442	34.85
1443	100.99
1444	245.41
1445	91.03
1446	175.92
1447	26.02
1448	82.29
1449	25.09
1450	25.55
1451	12.02
1452	226.31
1453	54.02
1454	28.51

1455	67.99
1456	49.69
1457	176.21
1458	86.64
1459	130.10
1460	19.44
1461	132.53
1462	32.87
1463	26.96
1464	24.06
1465	23.18
1466	100.05
1467	126.70
1468	33.74
1469	205.71
1470	290.92
1471	27.32
1472	131.58
1473	212.07
1474	115.57
1475	200.93
1476	61.82
1477	73.16
1478	49.53
1479	208.08
1480	90.79
1481	215.01
1482	190.71
1483	75.51
1484	110.08
1485	125.74
1486	194.39
1487	84.11
1488	237.84
1489	152.11
1490	172.24
1491	123.48
1492	10.60
1493	219.20
1494	56.73
1495	52.54
1496	338.36
1497	192.93
1498	58.78
1499	74.62
1500	203.47
1501	44.07

1502	176.36
1503	174.05
1504	56.11
1505	66.67
1506	131.64
1507	33.28
1508	93.80
1509	169.63
1510	298.52
1511	135.38
1512	291.54
1513	125.09
1514	424.21
1515	42.16
1516	23.55
1517	130.37
1518	383.37
1519	84.68
1520	290.21
1521	87.79
1522	118.63
1523	174.62
1524	726.34
1525	1075.99
1526	241.75
1527	35.91
1528	580.39
1529	312.82
1530	112.65
1531	302.10
1532	44.01
1533	107.97
1534	195.60
1535	499.30
1536	495.19
1537	112.91
1538	22.17
1539	81.76
1540	32.34
1541	44.00
1542	16.49
1543	112.78
1544	23.96
1545	244.21
1546	173.18
1547	77.89
1548	280.46

1549	37.36
1550	37.63
1551	58.19
1552	207.75
1553	154.56
1554	128.02
1555	135.83
1955	22.87
1956	13.51
1957	111.22
1958	139.59
1959	28.27
1960	66.37
1961	52.56
1962	18.75
1963	62.26
1964	17.11
1965	227.73
1966	125.01
1967	262.77
1968	158.59
1969	295.49
1970	323.32
1971	507.09
1972	139.71
1973	79.11
1974	49.39
1975	337.65
1976	141.81
1977	466.36
1978	82.54
1979	207.28
1980	374.72
1981	128.14
1982	321.40
1983	32.33
1984	200.16
1985	319.11
1986	292.94
1987	57.32
1988	163.65
1989	201.33
1990	147.26
1991	130.17
1992	155.84
1993	151.61
1994	396.32

1995	40.35
1996	28.93
1997	135.71
1998	35.43
1999	47.68
2000	33.56
2001	116.09
2002	252.17
2003	137.33
2004	302.65
2005	119.34
2006	293.37
2007	70.26
2008	99.00
2009	36.31
2010	31.15
2011	112.06
2012	36.20
2013	41.52
2014	21.05
2015	157.89
2016	33.21
2017	16.61
2018	297.02
2019	188.39
2020	19.06
2021	31.93
2022	246.23
2023	53.18
2024	162.40
2025	135.14
2026	123.07
2027	28.72
2028	178.55
2029	233.02
2030	23.51
2031	26.20
2032	208.81
2033	90.57
2034	114.82
2035	31.05
2036	180.10
2037	328.91
2038	247.26
2039	31.95
2040	21.37
2041	80.94

2042	293.64
2043	92.44
2044	217.71
2045	142.18
2046	31.90
2047	48.31
2048	80.81
2049	83.79
2050	119.68
2051	27.77
2052	161.93
2053	110.52
2054	180.35
2055	252.88
2056	38.68
2057	138.80
2058	7.41
2059	213.56
2060	119.19
2061	221.34
2062	465.95
2063	93.17
2064	127.67
2065	98.47
2066	29.17
2067	24.59
2068	25.14
2069	27.00
2070	177.59
2071	66.90
2072	30.49
2073	18.82
2074	298.89
2075	617.27
2076	131.93
2077	122.84
2078	9.67
2079	57.45
2080	26.85
2081	125.12
2082	312.11
2083	181.78
2084	133.67
2085	340.21
2086	11.15
2087	75.27
2088	67.14

2089	56.93
2090	103.46
2091	52.72
2092	11.09
2093	41.67
2094	136.73
2095	29.49
2096	30.24
2097	181.22
2098	404.54
2099	51.75
2100	219.26
2101	82.56
2102	211.38
2103	603.52
2104	91.19
2105	232.05
2106	862.56
2107	199.48
2108	144.74
2109	433.08
2110	228.17
2111	43.84
2112	203.78
2113	12.22
2114	183.86
2115	536.68
2116	221.47
2117	114.54
2118	99.02
2119	52.12
2120	600.86
2121	107.65
2122	410.08
2123	78.71
2124	337.05
2125	807.05
2126	157.86
2127	395.84
2128	417.60
2129	83.37
TOTAL	**156616.39**
	29.6 miles

CITY OF OAKWOOD
DEPARTMENT OF
STORMWATER MS4 INSPECTION SHEET

Report #: Click here to enter text.

Inspected By: Choose an item. **Date:** Click here to enter a date.

Nearest Address: Click here to enter text. **Structure ID #** Click here to enter text.

TYPE OF STRUCTURE

☐ **1033 single/double** ☐ **Drop Inlet** ☐ **Grate Inlet** ☐ **Yard Inlet**
☐ **Other:**

STRUCTURE MATERIAL

☐ **Brick** ☐ **Block** ☐ **Precast**
☐ **Other:**

STRUCTURE IS 5% FULL OF DEBRIS.
CLEANED ☐ **YES** ☐ **NO**

DOES THIS DRAINAGE STRUCTURE REQUIRE ADDITIONAL REPAIRS OR OTHER ACTION? ☐ **YES** ☐ **NO**
DETAILS OF WORK NEEDED : Click here to enter text.

PIPE OUTFALL IS Click here to enter text. **% BLOCKED?**
DOES THIS PIPE OUTFALL REQURE REPAIRS OR OTHER MAINENANCE ACTION? ☐ **YES** ☐ **NO**
DETAILS OF WORK NEEDED: Click here to enter text.

STORM SEWER SYSTEM INSPECTIONS, OPERATIONS AND MAINTENANCE PROCEDURES

City of Oakwood, Georgia

STORMWATER STRUCTURE	ESTIMATED NUMBER Publicly-Owned	ESTIMATED NUMBER Privately-Owned (R/C/I)*	NUMBER TO BE INSPECTED ANNUALLY
1. Detention Ponds	0	11	20%
2. Underground Detention Facilities	0	1	20%
3. Proprietary Device	0	1	20%
4. Catch Basins/Junction Boxes	145**	0	20%
5. Outfalls	60**	0	20%
6. Storm Sewer Pipes (feet)	TBD	TBD	20%
7. Drainage Ditches (miles)	30	2	20%
8. Roads (miles)	25	1	20%

**R - Owned by a Homeowners Association or Single Residential Property-Owner*
C - Owned by a Commercial Enterprise
I - Owned by an Industrial Facility
*** - Does not include storm sewer system structures located in the state right-of-way.*

These estimates were based on inventory of the storm sewer system conducted in 2006. Newly constructed components of the storm sewer system have been added to the inventory on an annual basis.

A. Inspections and Follow-up Actions - The City of Oakwood Public Works Department will inspect all stormwater facilities (structures 1 through 3 above) at least once every two years. The results of each inspection will be documented for in-house use and end-of-year reporting. Work orders will be issued for all necessary maintenance of publicly-owned facilities. Inspection results and maintenance notices, if needed, will be sent to owners of private facilities outside the right-of-way, both with and without a

dedicated easement. Notices of violations will be sent to private owners who do not respond within 90 days of receipt of the maintenance notices. If a private owners does not respond to the notice of violation, the City, with due notice, may enter the property and take whatever steps it deems necessary to return the facility or facilities to good working order. The Property Owner is responsible for reimbursing the City for the costs associated with maintaining the facility, or shall forfeit any required bond upon demand within thirty (30) days of receipt thereof for all the costs incurred by the City. If not paid within the prescribed time period, the City shall secure a lien against the real property in the amount of such costs.

The City of Oakwood Public Works Department staff and community service workers pick up leaves, trash and other debris along the City right-of-way. The City follows the following general schedule for cleaning streets, municipal parking lots and shop areas:

- Primary Streets: Litter picked up once every two weeks along the side of the road and medians. Leaves/debris picked up monthly. Storm drain inlets, especially grate Inlets, are cleaned after every significant rain event. They are also cleaned before a predicted, significant rain event, when possible.
- Secondary Streets: Litter picked up monthly. Leaves/debris picked up monthly. Storm drain inlets, especially grate Inlets, are cleaned after every significant rain event. They are also cleaned before a predicted, significant rain event, when possible.
- Municipal Lots and Shop Areas: Litter/debris picked up weekly. Storm drain inlets, especially grate Inlets, are cleaned after every significant rain event.

Public Works cleans up dead animals and large dump sites on an as-needed basis based upon citizen phone calls. All material picked up is transported directly to the Hall County Landfill.

All other components of the storm sewer system (structures 4 through 8) will be inspected by the City's Public Works Department on a periodic basis (approximately 20% per year) or in response to a complaint (within 24 business hours of receipt). The results of all inspections will be documented. Similar to stormwater facilities, work orders will be issued for all necessary maintenance of publicly owned stormwater infrastructure. Maintenance and/or repairs will be completed on a priority basis - immediately (emergency); urgent (within 24 hours); or routine (scheduled work). Inspection results and maintenance notices, (if needed), will be sent to owners of private facilities. Notices of violations will be sent to private owners who do not respond within 30 days of receipt of the maintenance notices. This ensures that all components of the City's storm sewer system will be inspected and maintained, as needed, at least once every five years.

B. Maintenance Responsibility - In general, the City of Oakwood Public Works Department is responsible for inspection of all public and private stormwater infrastructure. The City is responsible for maintenance and repair of all stormwater infrastructure located on public property and in the right of way. State and federal governments, commercial, industrial and residential property owners are responsible for self-inspection, maintenance and repair of stormwater infrastructure located outside the right of way, both with and without a dedicated easement.

C. Maintenance Tasks and Frequencies – The frequency of the maintenance tasks vary depending upon the type of stormwater structure and the amount and type of pollutants collected. Many maintenance tasks such as re-establishment of native vegetation on eroded slopes and mowing the pond buffer will be completed on an annual basis. Other maintenance tasks, such as trash removal, may be completed on a semi-annual basis or after a significant rain event. A few tasks, such as removal of sediment from the pond, may only need to be completed once every five years.

Maintenance activities for most stormwater structures in the City of Oakwood include:

- Regular inspections of inlet and outlet pipes for structural integrity and to ensure no blockage exists.
- Review by a Licensed Professional to ensure that the facility is functioning properly.
- Vegetation management to maintain the 15-25 foot "no-mow and chemical free" zone around the pond edge, removing dead cattails that may cause clogging of pipe openings and selectively removing invasive species.
- Debris and litter control to remove trash accumulation at the inlet and outlet pipes and emergency spillway.
- Sediment and/or pollution removal from basin inlets, the basin forebay, and excess accumulation in the pond.
- Opportunities for creating habitat in and around detention basins should be evaluated in conjunction with annual maintenance activities in order to support a balanced ecosystem. Unhealthy ecosystems may occur in basins that are not maintained and can lead to unbalanced populations of nuisance animal species such as mosquitoes.

Maintenance for all other components of the storm sewer system will consist of the following activities:

- Catch basins will be cleaned if accumulated sediment, debris or other deposits are equal to or greater than one-third the depth from the basin to the invert of the lowest pipe into or out of the basin. If catch basins are found during annual inspections to significantly exceed this standard, they will be cleaned every 6 months.
- Storm sewer pipes will be cleaned if accumulated sediment, debris or other deposits are blocking more than 20% of the pipe diameter.
- Drainage ditches will be cleaned if accumulated sediment, debris or other deposits exceed 25% of the design depth.
- If the stone around the riser or outlet pipe has accumulated sediment, vegetation and/or debris to an extent that water is not flowing through the stone and out of the pond as originally designed, then the stone should be replaced with clean 3" diameter stone choked with clean 6A stone.
- Woody debris, trash, sediment and other blockages will be removed from culverts and other critical conveyance components.

Damage or deterioration threatening the structural integrity of any component, conveyance or facility will be repaired as soon as possible.

B. Waste Management - Any wastes removed from the storm drainage system by City staff during maintenance will be handled in the following manner:

- Where waste consists of uncontaminated sediment, vegetation or other inert materials, such waste will be temporarily stock-piled using proper erosion and sediment control techniques or transported to the Hall County Landfill. Effective sediment and erosion control BMPs will be installed and maintained to adequately contain stockpiled materials.

- Where waste is contaminated with minor amounts (less than 5 gallons) of motor oil grease or other similar liquid wastes, such waste will be collected and transported to a licensed facility for final disposal.

- Where waste is identified in amounts larger than 5 gallons, or is deemed to be hazardous (e.g., explosive materials such as gasoline, industrials wastes or other unknown materials), the Hall County Fire Department's HazMat team will be called to handle the collection, removal and disposal of the material in accordance with their spill handling procedures.

Any wastes removed from a privately owned storm drainage system during maintenance by a private property owner will be handled in the following manner:

- Where waste consists of uncontaminated sediment, vegetation or other inert materials, such waste may be stockpiled, spread or composted on the property owners own private property or alternatively disposed of at a landfill permitted to accept that type of waste. Appropriate sediment and erosion control BMPs should be utilized as necessary to control stockpiled or stored sediments. City of Oakwood will not accept waste for disposal that is collected from private drainage systems.

- Where waste in a private drainage system is contaminated with any type of oil, grease, chemical or other hazardous or non-hazardous material, the private property owner should take reasonable steps to limit or control the spread of the contamination and must immediately notify the City of Oakwood. The private property owner is responsible for clean up and removal of contaminants from private drainage systems.

STORMWATER DETENTION POND

REPORT OF FINDINGS

Contact Name: _____ **Inspector:** _____

_____

_____

Address: _____ **Date:** _____

Phone: _____

Location: **ID No.:** _____

_____

_____

The City of Oakwood, GA's Stormwater Management for Post-Construction Ordinance requires regular inspections of all structural water quality detention ponds to ensure that they are being properly maintained and are functioning as originally designed.

The results of this year's inspection are as follows:

☐ **Visual inspection found no apparent problems with the structure.**

☐ **Please complete the following repairs and/or maintenance items within <u>90 days</u> of this report.**

EARTHEN DAM OR RETAINING WALL

___Remove trees and woody vegetation.

___Remove/trap burrowing animals

___Re-seed and repair bare areas or gullies.

___Repair holes, depressions, and/or cracks.

___Repair seepage, leakage, and/or "piping".

PRINCIPAL AND WATER QUALITY SPILLWAYS

___Remove trash and/or debris from trash rack.

___Clear obstructed water quality orifice(s).

___Repair leaking and/or damaged riser/barrel.

___Repair leaking and/or damaged concrete spillway.

___Repair eroded or blocked outlet pipe.

___Replace or unclog filter gravel around riser.

EMERGENCY SPILLWAY

___Remove trees and woody vegetation.

___Re-seed and repair bare areas or gullies.

___Replace or repair displaced rip-rap.

___Remove obstructions from spillway.

GENERAL POND MAINTENANCE

___Repair eroded inlet channel.

___Re-seed and/or repair bare areas or gullies.

___Replace or repair rip-rap at inlet pipe(s).

___Remove trash and/or debris from pond area.

___Remove accumulated sediment from pond.

___Mow and regularly maintain vegetation.

Additional Comments and Maintenance Concerns: _____

Proper operation and maintenance are the sole responsibility of the property owner, and a vital part of ensuring the effectiveness of your detention pond. If you fail to complete the above maintenance in a timely manner, please be advised that the City of Oakwood reserves the right to complete the maintenance, and assess the owner for any costs or damages incurred. You will be notified if the City chooses to pursue this action.

Please inform this office of the date when work is completed, and if you should have any questions or comments concerning these items or future maintenance issues, please contact Joe Hayes, City of Oakwood Code Enforcement Officer at 770-5342365.

[CITY OF OAKWOOD LETTERHEAD]

Education Letter

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: STORMWATER FACILITY INSPECTION

Dear *[Contact Name]*:

During *[site visit date]*, representatives from the City of Oakwood will be conducting an annual inspection of the *[type of BMP]* in your control or ownership located at *[Physical Address]*. State and local regulations require regular inspections of all structural best management practices (BMPs) to ensure the proper function of these structures. This inspection will focus on key structural components, sediment capacity, and maintenance practices.

The City of Oakwood will notify you of the results of the inspection and any recommendations or requirements to ensure the proper function of your BMP. If there are any recommendations or requirements, you will have 90 days to complete those maintenance items. Staff will also be available to offer technical assistance and answer any questions you may have concerning your BMP.

General information on routine and non-routine maintenance of your BMP is enclosed. If you have any questions concerning the inspections process or the enclosed information, please contact Joe Hayes, City of Oakwood Code Enforcement Officer at 770-534-2365.

Sincerely,

Stan Brown
City Manager

cc: Joe Hayes, Code Enforcement Officer
Inspections file

[CITY OF OAKWOOD LETTERHEAD]

Inspection Report Letter - with requirements
(send certified with the inspection report/report of findings)

Certified Mail
First Class Mail

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: INSPECTION OF STORMWATER FACILITY

Dear *[Contact Name]*:

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the *[Type of BMP]* in your ownership located at *[Physical Address]*. State and local regulations require regular inspection of all structural best management practices (BMPs) to ensure the proper function of those structures. This inspection focused on key structural components, sediment capacity, and maintenance practices of the BMP.

The inspection found that the following items are required to restore and/or enhance the effectiveness of the BMP. City of Oakwood allows the following items to be completed within 90 days from the date of this letter. Please complete all items on or before *[Correction Date]*.

- *Remove all woody vegetation from dam and spillway.*
- *Remove sediment from pond to original engineering design specifications.*
- *Work should be completed by a qualified contractor using proper Erosion and Sediment Control measures in accordance with the Georgia Field Manual for Erosion and Sediment Control, latest edition. This shall include, but not be limited to, temporary measures, proper soil disposal and permanent stabilization.*

Proper operation and routine maintenance are a vital part of ensuring the effectiveness of your BMP. If you should have any questions or comments concerning the required items or the time frame, please contact me at 770-534-2365.

Sincerely,

Joe Hayes
City of Oakwood Code Enforcement Officer

Inspections file

Final letter - work completed w/ follow up inspection

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: STORMWATER FACILITY MAINTENANCE ACTIVITIES

Dear [Contact Name]:

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the *[Type of BMP]* in your ownership located at *[Physical Address]*. An inspection letter with recommended/required items to be completed was sent to you on *[report letter date]* allowing 90 days for the completion of these items. The item(s) originally recommended/required were:

- **Remove trash and debris from trash rack on riser pipe.**
- **Signs of burrowing rodents; remove or trap accordance with GA wildlife regulations and fill holes to prevent further damage to earthen dam.**

On *[follow-up date]*, a follow up inspection of your BMP was conducted by the City of Oakwood. This inspection revealed that the recommended/required items have been satisfactorily completed. Continued routine maintenance is a vital part of ensuring the effectiveness of your BMP.

The City of Oakwood appreciates your cooperation in completing the recommended/required items within the given time frame. If you should have any further questions or concerns regarding your BMP, please contact me at 770-534-2365.

Sincerely,

Joe Hayes
City of Oakwood Code Enforcement Officer

Inspections file

[CITY OF OAKWOOD LETTERHEAD]

After 90 days – recommended items not completed, no immediate action

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: RECOMMENDED STORMWATER FACILITY MAINTENANCE ACTIVITIES

Dear [Contact Name]:

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the *[Type of BMP]* in your ownership located at *[Physical Address]*. An inspection letter with recommended items to be completed was sent to you on *[report letter date]*, allowing 90 days for the completion of those items. The item(s) originally recommended items were:

- *Mow small brush and woody vegetation on dam and emergency spillway.*
- *Remove trash and debris from trash rack on riser pipe.*
- *Any other relevant information needed to be addressed*.

On *[follow-up date]*, a follow up inspection of your BMP was conducted by the City of Oakwood. This inspection revealed that the maintenance items have not been satisfactorily completed. Therefore, the City of Oakwood has determined not to pursue enforcement procedures at this time concerning the above stated items. In accordance with the City of Oakwood's Stormwater Management for Post-Construction Development Ordinance, the City may elect to complete the recommended items, and assess the owner for any costs or damages incurred. You will be notified if further action is required.

Routine and non-routine maintenance of BMPs, including wet detention ponds, is the sole responsibility of the owner and City of Oakwood accepts no liability in the event of functional or structural failure. Proper operation and routine maintenance is of vital importance to the pollution removal effectiveness of BMPs. If you should have any further questions or concerns regarding your BMP, please contact me at 770-534-2365.

Sincerely,

Joe Hayes
City of Oakwood Code Enforcement Officer

Inspections file

[CITY OF OAKWOOD LETTERHEAD]

NOTIFICATION LETTER – Sent when ALL previous attempts fail; Necessary work assigned to City or Private Contractor at the owner's expense

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: REQUIRED STORMWATER FACILITY MAINTENANCE ACTIVITIES

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the [T*ype of BMP]* in your ownership located at *[Physical Address]*. An inspection letter with recommended items to be completed was sent to you on *[report ltr date]*, allowing 90 days for the completion of those items. The item(s) originally recommended items were:

- *Mow small brush and woody vegetation on dam and emergency spillway.*
- *Remove trash and debris from trash rack on riser pipe.*
- *Any other relevant information needed to be addressed*.

On *[follow-up date]*, a follow up inspection of your BMP was conducted by City of Oakwood Public Works Department. This inspection revealed that the maintenance items have not been satisfactorily completed. City of Oakwood has determined to pursue enforcement procedures at this time concerning the above stated items. In accordance with the City of Oakwood's Stormwater Management for PostConstruction Development Ordinance, the City has elected to complete the recommended items, and assess the owner for any costs or damages incurred. You will be notified when the work is to start and again when it is complete. After completion of the items detailed above, you will receive a notice of payment for services rendered and an assessment will be filed with the City of Oakwood Tax Commissioner.

Routine and non-routine maintenance of BMPs, including wet detention ponds, is the sole responsibility of the owner and City of Oakwood accepts no liability in the event of functional or structural failure. Proper operation and routine maintenance is of vital importance to the pollution removal effectiveness of BMPs. If you should have any further questions or concerns regarding your BMP, please contact me at 770-967-6378.

Sincerely,

Joe Hayes
City of Oakwood Code Enforcement Officer

Inspections file

STORM SEWER SYSTEM INSPECTION AND MAINTENANCE REPORT

CITY OF OAKWOOD, GEORGIA

Date: _____ Start Time: _____ End Time: _____ Rainfall last 72 hrs: _____

Name of Inspector(s): _____ Land Use in Drainage Area: _____

Location: _____ Watershed _____

Structure Type	ID	Public	Dry	Illicit Discharge	Condition	Maintenance Needed	Amt of Waste Removed	Next Steps	Notes

STORM SEWER SYSTEM INSPECTION AND MAINTENANCE REPORT
CITY OF OAKWOOD, GEORGIA

KEY

Land Use
Commercial
Residential
Industrial
Agricultural
Institutional

Structure Type
CB – Catch Basin
I – Inlet
JB – Junction Box
HI – Headwall In
O – Outfall
P – Pipe
D – Ditch
O – Other

ID
See Sewer System Inventory Database or Create New ID if none exists

Public
Y – Within the Right-of-Way, Maintained by the City
N – Outside the Right-of-Way, Maintained by the Private Owner
J – Outside the Right-of-Way but Affected by Municipal Runoff, Maintenance Shared

Dry
Y – Indication of Recent Discharge
N – No Indication of Recent Discharge

Illicit Discharge
Y – Indication of Illicit Discharge (e.g., staining, odor, color, etc.)
N – No Indication of Illicit Discharge

Condition
E – Excellent – New structure, no improvements needed for the next five plus years.
G - Good – No structural improvements needed within the next three to five years
F - Fair - Structural improvements needed within the next one to three years P
– Poor – Structural improvements needed as soon as possible

Maintenance Needed
Y – Need to clean out immediately or issue a work order
N – No maintenance needed

Amount of Waste Removed
Estimate pounds of waste material removed

Next Steps
NA – No Action
WO – Work Order
IS – IDDE Screening for Suspicious Discharge
SR – Structural Repair
LO – Issue Maintenance/Repair Letter to Owner

Notes
Describe type of material removed or other noteworthy items

DEBRIS REMOVAL LOG SHEET
ROADSIDE/CITY PROPERTY
OAKWOOD, GEORGIA

DATE	LOCATION	AMOUNT OF DEBRIS REMOVED (32 GAL BAGS)	COMMENTS

Additional Comments:

_____

Signed: _____ Date: _____

Ditch/Pipe Inspection Form

Name of City or County: Oakwood Ga.	Inspection performed by:
Date	Time of Inspection am pm
Weather conditions: Dry-Clear Clouds Temp.	

Ditch/Pipe Details	
Ditch/Pipe Location	Ditch/Pipe ID #
Pipe Material:	Pipe Diameter:
GPS Coordinates:	Photo numbers:

Field Observations

Good	Need Repair	Broken	Needs Cleaning out	Needs Mowing
good	Need Repair		Other_____	
good	Need Repair		Other_____	
good	Need Repair		Other_____	
good	Need Repair		Other_____	

Notes:

STORM SEWER SYSTEM INSPECTIONS, OPERATIONS AND MAINTENANCE PROCEDURES

City of Oakwood, Georgia

STORMWATER STRUCTURE	ESTIMATED NUMBER Publicly-Owned	ESTIMATED NUMBER Privately-Owned (R/C/I)*	NUMBER TO BE INSPECTED ANNUALLY
1. Detention Ponds	0	23	20%
2. Underground Detention Facilities	0	1	20%
3. Proprietary Device	0	1	20%
4. Catch Basins/Junction Boxes	145**	0	20%
5. Outfalls	60**	0	20%
6. Storm Sewer Pipes (miles)	24.4	0	20%
7. Drainage Ditches (miles)	30	0	20%
8. Roads (miles)	25	0	20%

**R - Owned by a Homeowners Association or Single Residential Property-Owner*
C - Owned by a Commercial Enterprise
I - Owned by an Industrial Facility
*** - Does not include storm sewer system structures located in the state right-of-way.*

These estimates were based on inventory of the storm sewer system conducted in 2006. Newly constructed components of the storm sewer system have been added to the inventory on an annual basis.

A. Inspections and Follow-up Actions - The City of Oakwood Public Works Department will inspect all stormwater facilities (structures 1 through 3 above) at least once every two years. The results of each inspection will be documented for in-house use and end-of-year reporting. Work orders will be issued for all necessary maintenance of publicly-owned facilities. Inspection results and maintenance notices, if needed, will be sent to owners of private facilities outside the right-of-way, both with and without a

dedicated easement. Notices of violations will be sent to private owners who do not respond within 90 days of receipt of the maintenance notices. If a private owners does not respond to the notice of violation, the City, with due notice, may enter the property and take whatever steps it deems necessary to return the facility or facilities to good working order. The Property Owner is responsible for reimbursing the City for the costs associated with maintaining the facility, or shall forfeit any required bond upon demand within thirty (30) days of receipt thereof for all the costs incurred by the City. If not paid within the prescribed time period, the City shall secure a lien against the real property in the amount of such costs.

The City of Oakwood Public Works Department staff and community service workers pick up leaves, trash and other debris along the City right-of-way. The City follows the following general schedule for cleaning streets, municipal parking lots and shop areas:

- Primary Streets: Litter picked up once every two weeks along the side of the road and medians. Leaves/debris picked up monthly. Storm drain inlets, especially grate Inlets, are cleaned after every significant rain event. They are also cleaned before a predicted, significant rain event, when possible.
- Secondary Streets: Litter picked up monthly. Leaves/debris picked up monthly. Storm drain inlets, especially grate Inlets, are cleaned after every significant rain event. They are also cleaned before a predicted, significant rain event, when possible.
- Municipal Lots and Shop Areas: Litter/debris picked up weekly. Storm drain inlets, especially grate Inlets, are cleaned after every significant rain event.

Public Works cleans up dead animals and large dump sites on an as-needed basis based upon citizen phone calls. All material picked up is transported directly to the Hall County Landfill.

All other components of the storm sewer system (structures 4 through 8) will be inspected by the City's Public Works Department on a periodic basis (approximately 20% per year) or in response to a complaint (within 24 business hours of receipt). The results of all inspections will be documented. Similar to stormwater facilities, work orders will be issued for all necessary maintenance of publicly owned stormwater infrastructure. Maintenance and/or repairs will be completed on a priority basis - immediately (emergency); urgent (within 24 hours); or routine (scheduled work). Inspection results and maintenance notices, (if needed), will be sent to owners of private facilities. Notices of violations will be sent to private owners who do not respond within 30 days of receipt of the maintenance notices. This ensures that all components of the City's storm sewer system will be inspected and maintained, as needed, at least once every five years.

B. Maintenance Responsibility - In general, the City of Oakwood Public Works Department is responsible for inspection of all public and private stormwater infrastructure. The City is responsible for maintenance and repair of all stormwater infrastructure located on public property and in the right of way. State and federal governments, commercial, industrial and residential property owners are responsible for self-inspection, maintenance and repair of stormwater infrastructure located outside the right of way, both with and without a dedicated easement.

C. Maintenance Tasks and Frequencies – The frequency of the maintenance tasks vary depending upon the type of stormwater structure and the amount and type of pollutants collected. Many maintenance tasks such as re-establishment of native vegetation on eroded slopes and mowing the pond buffer will be completed on an annual basis. Other maintenance tasks, such as trash removal, may be completed on a semi-annual basis or after a significant rain event. A few tasks, such as removal of sediment from the pond, may only need to be completed once every five years.

Maintenance activities for most stormwater structures in the City of Oakwood include:

- Regular inspections of inlet and outlet pipes for structural integrity and to ensure no blockage exists.
- Review by a Licensed Professional to ensure that the facility is functioning properly.
- Vegetation management to maintain the 15-25 foot "no-mow and chemical free" zone around the pond edge, removing dead cattails that may cause clogging of pipe openings and selectively removing invasive species.
- Debris and litter control to remove trash accumulation at the inlet and outlet pipes and emergency spillway.
- Sediment and/or pollution removal from basin inlets, the basin forebay, and excess accumulation in the pond.
- Opportunities for creating habitat in and around detention basins should be evaluated in conjunction with annual maintenance activities in order to support a balanced ecosystem. Unhealthy ecosystems may occur in basins that are not maintained and can lead to unbalanced populations of nuisance animal species such as mosquitoes.

Maintenance for all other components of the storm sewer system will consist of the following activities:

- Catch basins will be cleaned if accumulated sediment, debris or other deposits are equal to or greater than one-third the depth from the basin to the invert of the lowest pipe into or out of the basin. If catch basins are found during annual inspections to significantly exceed this standard, they will be cleaned every 6 months.
- Storm sewer pipes will be cleaned if accumulated sediment, debris or other deposits are blocking more than 20% of the pipe diameter.
- Drainage ditches will be cleaned if accumulated sediment, debris or other deposits exceed 25% of the design depth.
- If the stone around the riser or outlet pipe has accumulated sediment, vegetation and/or debris to an extent that water is not flowing through the stone and out of the pond as originally designed, then the stone should be replaced with clean 3" diameter stone choked with clean 6A stone.
- Woody debris, trash, sediment and other blockages will be removed from culverts and other critical conveyance components.

Damage or deterioration threatening the structural integrity of any component, conveyance or facility will be repaired as soon as possible.

B. Waste Management - Any wastes removed from the storm drainage system by City staff during maintenance will be handled in the following manner:

- Where waste consists of uncontaminated sediment, vegetation or other inert materials, such waste will be temporarily stock-piled using proper erosion and sediment control techniques or transported to the Hall County Landfill. Effective sediment and erosion control BMPs will be installed and maintained to adequately contain stockpiled materials.

- Where waste is contaminated with minor amounts (less than 5 gallons) of motor oil grease or other similar liquid wastes, such waste will be collected and transported to a licensed facility for final disposal.

- Where waste is identified in amounts larger than 5 gallons, or is deemed to be hazardous (e.g., explosive materials such as gasoline, industrials wastes or other unknown materials), the Hall County Fire Department's HazMat team will be called to handle the collection, removal and disposal of the material in accordance with their spill handling procedures.

Any wastes removed from a privately owned storm drainage system during maintenance by a private property owner will be handled in the following manner:

- Where waste consists of uncontaminated sediment, vegetation or other inert materials, such waste may be stockpiled, spread or composted on the property owners own private property or alternatively disposed of at a landfill permitted to accept that type of waste. Appropriate sediment and erosion control BMPs should be utilized as necessary to control stockpiled or stored sediments. City of Oakwood will not accept waste for disposal that is collected from private drainage systems.

- Where waste in a private drainage system is contaminated with any type of oil, grease, chemical or other hazardous or non-hazardous material, the private property owner should take reasonable steps to limit or control the spread of the contamination and must immediately notify the City of Oakwood. The private property owner is responsible for clean up and removal of contaminants from private drainage systems.

STORMWATER DETENTION POND

REPORT OF FINDINGS

Contact Name: _____ **Inspector:** _____

_____

_____

Address: _____ **Date:** _____

Phone: _____

Location: **ID No.:** _____

_____

_____

The City of Oakwood, GA's Stormwater Management for Post-Construction Ordinance requires regular inspections of all structural water quality detention ponds to ensure that they are being properly maintained and are functioning as originally designed.

The results of this year's inspection are as follows:

☐ **Visual inspection found no apparent problems with the structure.**

☐ **Please complete the following repairs and/or maintenance items within <u>90 days</u> of this report.**

EARTHEN DAM OR RETAINING WALL

___Remove trees and woody vegetation.

___Remove/trap burrowing animals

___Re-seed and repair bare areas or gullies.

___Repair holes, depressions, and/or cracks.

___Repair seepage, leakage, and/or "piping".

PRINCIPAL AND WATER QUALITY SPILLWAYS

___Remove trash and/or debris from trash rack.

___Clear obstructed water quality orifice(s).

___Repair leaking and/or damaged riser/barrel.

___Repair leaking and/or damaged concrete spillway.

___Repair eroded or blocked outlet pipe.

___Replace or unclog filter gravel around riser.

EMERGENCY SPILLWAY

___Remove trees and woody vegetation.

___Re-seed and repair bare areas or gullies.

___Replace or repair displaced rip-rap.

___Remove obstructions from spillway.

GENERAL POND MAINTENANCE

___Repair eroded inlet channel.

___Re-seed and/or repair bare areas or gullies.

___Replace or repair rip-rap at inlet pipe(s).

___Remove trash and/or debris from pond area.

___Remove accumulated sediment from pond.

___Mow and regularly maintain vegetation.

Additional Comments and Maintenance Concerns: _____

Proper operation and maintenance are the sole responsibility of the property owner, and a vital part of ensuring the effectiveness of your detention pond. If you fail to complete the above maintenance in a timely manner, please be advised that the City of Oakwood reserves the right to complete the maintenance, and assess the owner for any costs or damages incurred. You will be notified if the City chooses to pursue this action.

Please inform this office of the date when work is completed, and if you should have any questions or comments concerning these items or future maintenance issues, please contact Joe Hayes, City of Oakwood Code Enforcement Officer at 770-5342365.

[CITY OF OAKWOOD LETTERHEAD]

Education Letter

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: STORMWATER FACILITY INSPECTION

Dear *[Contact Name]*:

During *[site visit date]*, representatives from the City of Oakwood will be conducting an annual inspection of the *[type of BMP]* in your control or ownership located at *[Physical Address]*. State and local regulations require regular inspections of all structural best management practices (BMPs) to ensure the proper function of these structures. This inspection will focus on key structural components, sediment capacity, and maintenance practices.

The City of Oakwood will notify you of the results of the inspection and any recommendations or requirements to ensure the proper function of your BMP. If there are any recommendations or requirements, you will have 90 days to complete those maintenance items. Staff will also be available to offer technical assistance and answer any questions you may have concerning your BMP.

General information on routine and non-routine maintenance of your BMP is enclosed. If you have any questions concerning the inspections process or the enclosed information, please contact Joe Hayes, City of Oakwood Code Enforcement Officer at 770-534-2365.

Sincerely,

City Manager

cc: Code Enforcement Officer
Inspections file

[CITY OF OAKWOOD LETTERHEAD]

Inspection Report Letter - with requirements
(send certified with the inspection report/report of findings)

Certified Mail
First Class Mail

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: INSPECTION OF STORMWATER FACILITY

Dear *[Contact Name]*:

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the *[Type of BMP]* in your ownership located at *[Physical Address]*. State and local regulations require regular inspection of all structural best management practices (BMPs) to ensure the proper function of those structures. This inspection focused on key structural components, sediment capacity, and maintenance practices of the BMP.

The inspection found that the following items are required to restore and/or enhance the effectiveness of the BMP. City of Oakwood allows the following items to be completed within 90 days from the date of this letter. Please complete all items on or before *[Correction Date]*.

- *Remove all woody vegetation from dam and spillway.*
- *Remove sediment from pond to original engineering design specifications.*
- *Work should be completed by a qualified contractor using proper Erosion and Sediment Control measures in accordance with the Georgia Field Manual for Erosion and Sediment Control, latest edition. This shall include, but not be limited to, temporary measures, proper soil disposal and permanent stabilization.*

Proper operation and routine maintenance are a vital part of ensuring the effectiveness of your BMP. If you should have any questions or comments concerning the required items or the time frame, please contact me at 770-534-2365.

Sincerely,

City of Oakwood Code Enforcement Officer

Inspections file

Final letter - work completed w/ follow up inspection

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: STORMWATER FACILITY MAINTENANCE ACTIVITIES

Dear [Contact Name]:

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the *[Type of BMP]* in your ownership located at *[Physical Address]*. An inspection letter with recommended/required items to be completed was sent to you on *[report letter date]* allowing 90 days for the completion of these items. The item(s) originally recommended/required were:

- **Remove trash and debris from trash rack on riser pipe.**
- **Signs of burrowing rodents; remove or trap accordance with GA wildlife regulations and fill holes to prevent further damage to earthen dam.**

On *[follow-up date]*, a follow up inspection of your BMP was conducted by the City of Oakwood. This inspection revealed that the recommended/required items have been satisfactorily completed. Continued routine maintenance is a vital part of ensuring the effectiveness of your BMP.

The City of Oakwood appreciates your cooperation in completing the recommended/required items within the given time frame. If you should have any further questions or concerns regarding your BMP, please contact me at 770-534-2365.

Sincerely,

City of Oakwood Code Enforcement Officer

Inspections file

[CITY OF OAKWOOD LETTERHEAD]

After 90 days – recommended items not completed, no immediate action

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: RECOMMENDED STORMWATER FACILITY MAINTENANCE ACTIVITIES

Dear [Contact Name]:

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the *[Type of BMP]* in your ownership located at *[Physical Address]*. An inspection letter with recommended items to be completed was sent to you on *[report letter date]*, allowing 90 days for the completion of those items. The item(s) originally recommended items were:

- *Mow small brush and woody vegetation on dam and emergency spillway.*
- *Remove trash and debris from trash rack on riser pipe.*
- *Any other relevant information needed to be addressed*.

On *[follow-up date]*, a follow up inspection of your BMP was conducted by the City of Oakwood. This inspection revealed that the maintenance items have not been satisfactorily completed. Therefore, the City of Oakwood has determined not to pursue enforcement procedures at this time concerning the above stated items. In accordance with the City of Oakwood's Stormwater Management for Post-Construction Development Ordinance, the City may elect to complete the recommended items, and assess the owner for any costs or damages incurred. You will be notified if further action is required.

Routine and non-routine maintenance of BMPs, including wet detention ponds, is the sole responsibility of the owner and City of Oakwood accepts no liability in the event of functional or structural failure. Proper operation and routine maintenance is of vital importance to the pollution removal effectiveness of BMPs. If you should have any further questions or concerns regarding your BMP, please contact me at 770-534-2365.

Sincerely,

City of Oakwood Code Enforcement Officer

Inspections file

[CITY OF OAKWOOD LETTERHEAD]

NOTIFICATION LETTER – Sent when ALL previous attempts fail; Necessary work assigned to City or Private Contractor at the owner's expense

[Date]

[Contact Name]
[Organization]
[Mailing Address]
[City], [State] [Zip]

RE: REQUIRED STORMWATER FACILITY MAINTENANCE ACTIVITIES

On *[site visit date]*, representatives of the City of Oakwood completed an inspection of the [T*ype of BMP]* in your ownership located at *[Physical Address]*. An inspection letter with recommended items to be completed was sent to you on *[report ltr date]*, allowing 90 days for the completion of those items. The item(s) originally recommended items were:

- *Mow small brush and woody vegetation on dam and emergency spillway.*
- *Remove trash and debris from trash rack on riser pipe.*
- *Any other relevant information needed to be addressed*.

On *[follow-up date]*, a follow up inspection of your BMP was conducted by City of Oakwood Public Works Department. This inspection revealed that the maintenance items have not been satisfactorily completed. City of Oakwood has determined to pursue enforcement procedures at this time concerning the above stated items. In accordance with the City of Oakwood's Stormwater Management for PostConstruction Development Ordinance, the City has elected to complete the recommended items, and assess the owner for any costs or damages incurred. You will be notified when the work is to start and again when it is complete. After completion of the items detailed above, you will receive a notice of payment for services rendered and an assessment will be filed with the City of Oakwood Tax Commissioner.

Routine and non-routine maintenance of BMPs, including wet detention ponds, is the sole responsibility of the owner and City of Oakwood accepts no liability in the event of functional or structural failure. Proper operation and routine maintenance is of vital importance to the pollution removal effectiveness of BMPs. If you should have any further questions or concerns regarding your BMP, please contact me at 770-967-6378.

Sincerely,

City of Oakwood Code Enforcement Officer

Inspections file

STORM SEWER SYSTEM INSPECTION AND MAINTENANCE REPORT

CITY OF OAKWOOD, GEORGIA

Date: _____ Start Time: _____ End Time: _____ Rainfall last 72 hrs: _____

Name of Inspector(s): _____ Land Use in Drainage Area: _____

Location: _____ Watershed _____

Structure Type	ID	Public	Dry	Illicit Discharge	Condition	Maintenance Needed	Amt of Waste Removed	Next Steps	Notes

STORM SEWER SYSTEM INSPECTION AND MAINTENANCE REPORT
CITY OF OAKWOOD, GEORGIA

KEY

Land Use
Commercial
Residential
Industrial
Agricultural
Institutional

Structure Type
CB – Catch Basin
I – Inlet
JB – Junction Box
HI – Headwall In
O – Outfall
P – Pipe
D – Ditch
O – Other

ID
See Sewer System Inventory Database or Create New ID if none exists

Public
Y – Within the Right-of-Way, Maintained by the City
N – Outside the Right-of-Way, Maintained by the Private Owner
J – Outside the Right-of-Way but Affected by Municipal Runoff, Maintenance Shared

Dry
Y – Indication of Recent Discharge
N – No Indication of Recent Discharge

Illicit Discharge
Y – Indication of Illicit Discharge (e.g., staining, odor, color, etc.)
N – No Indication of Illicit Discharge

Condition
E – Excellent – New structure, no improvements needed for the next five plus years.
G - Good – No structural improvements needed within the next three to five years
F - Fair - Structural improvements needed within the next one to three years P
– Poor – Structural improvements needed as soon as possible

Maintenance Needed
Y – Need to clean out immediately or issue a work order
N – No maintenance needed

Amount of Waste Removed
Estimate pounds of waste material removed

Next Steps
NA – No Action
WO – Work Order
IS – IDDE Screening for Suspicious Discharge
SR – Structural Repair
LO – Issue Maintenance/Repair Letter to Owner

Notes
Describe type of material removed or other noteworthy items

DEBRIS REMOVAL LOG SHEET
ROADSIDE/CITY PROPERTY
OAKWOOD, GEORGIA

DATE	LOCATION	AMOUNT OF DEBRIS REMOVED (32 GAL BAGS)	COMMENTS

Additional Comments:

_____

Signed: _____ Date: _____

Stormwater Management Program
Municipal Facility Pollution Prevention Plans Inspection

Facility Name: _____

Physical Address: _____
City: _____
State: _____
Zip Code: _____

Primary Activity of Facility: _____

Part One
Records and Plans Inspection

Does the facility maintain a list of chemicals stored on site: ☐ Yes ☐ No
Comments:

Does the facility maintain a Material Safety Data Sheet log with a current MSDS for each chemical stored on site? ☐ Yes ☐ No
Comments:

Does the facility maintain a written plan for routing, collection, and disposal of stormwater contaminated by a chemical spill? ☐ Yes ☐ No
Comments:

Does the facility maintain a written clean-up procedure for chemical spills? ☐ Yes ☐ No
Comments:

Is training in spill prevention and response performed and documented: ☐ Yes ☐ No
Comments:

Part Two
Physical Inspection

Are the chemicals on site properly stored? ☐ Yes ☐ No
Comments:

Are the chemical containers properly labeled? ☐ Yes ☐ No
Comments:

Is there secondary containment in chemical storage areas? ☐ Yes ☐ No
Comments:

If floor drains are present in chemical storage areas, can they be plugged for containment and cleanup of a spill? ☐ Yes ☐ No
Comments:

Inspector Name (Print or type):

Title:

Inspector Signature: _____

Date of Inspection: _____

City of Oakwood

Municipal Facility Inventory

As of 12/31/2022

Description	Location	Watershed	Last Inspected	Next Inspection Date	Remarks
City Hall	4035 Walnut Cir	Balus Creek	12/29/18	12/1/23	No Issues
City Park	4009 Railroad St	Balus Creek	12/04/20	12/1/25	No Issues
Public Works	4457 Oakwood Rd	Balus Creek	12/31/19	12/1/24	No Issues

MUNICIPAL FACILITY INSPECTION PROCEDURES

1. City personnel will inspect municipal facilities listed on the inventory (see Atch 18) annually using the inspection checklist (see Atch 18).

2. Results of the inspection will be reported to the City Engineer.

3. City Engineer will review the inspection report and work with City staff to insure any discrepancies are corrected as needed.

4. The inspection report and any resulting maintenance activities will be included in the annual report.

EXISTING FLOOD MANAGEMENT PROJECT PROCEDURES

1. City personnel will inspect all existing publicly owned flood management projects as a part of conducting BMP# E-3 (Inspections) to identify the existence and condition of water quality devices associated with each control structure.

2. Results of the inspection will be reported to the City Engineer.

3. City Engineer will review the inspection report and perform site inspection.

4. Based on the results of the City Engineer's review, a scope of work, design, and cost estimate will be prepared to retrofit the structure.

5. The retrofit project will be noted on the Stormwater Management Facility Inventory (Attachment 13) and included in the annual report.

6. Upon funding availability the retrofit project will be scheduled for construction.