

From: [Robinson, William](#)
To: [Ron Dixon](#)
Cc: [Matthews, Scott A CIV USARMY CELRL \(USA\)](#); [Sarah Harrison@fws.gov](#); [Boszor, Brian](#); [DNR INSWMP-Inquiry](#)
Subject: 2023-28-49-WLR-A Parks at Decatur 401 WQC
Date: Thursday, June 29, 2023 1:34:00 PM
Attachments: [2023-28-49-WLR-A 401 WQC Permit Parks at decatur.pdf](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Hello Ron,

Attached is the approved 401 permit for the parks at Decatur project located at Latitude 39.6334, Longitude -86.2919. Please be advised that the 404 also needs approval for work to start at this site, pending EPA review. Let me know if you have any questions, thanks.



William Robinson, Wetland Project Manager
Wetlands and Stormwater Section, Office of Water Quality
100 North Senate Avenue, Room 1255
Indianapolis Indiana 46204
Phone: (317) 460-6530
Fax: (317) 234-4145
Wrobinso@idem.IN.gov

Storm Water Program: <http://www.in.gov/idem/stormwater>
Indiana Storm Water Quality Manual: <http://www.in.gov/idem/stormwater/2363.htm>
Section 401 Water Quality Certification and Isolated Wetlands Program:
<http://www.in.gov/idem/wetlands>

Indiana Department of Environmental Management



IDEM values your feedback.

Please take two minutes and complete this brief survey.





INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

Section 401 Water Quality Certification

IDEM Number: 2023-28-49-WLR-A
USACE Number: LRL-2021-707-sam
Project Name: Parks at Decatur
Authority: 327 IAC 2. CWA Sections: 301, 302, 303, 306, 307, & 401
Date of Issuance: 6/29/2023
Impacts must be completed by: 6/29/2025

Approved:

Brian Wolff, Branch Chief
Surface Water and Operations
Office of Water Quality

Applicant / Permittee:

D.R. Horton
Attn: Mark Allen Bridwell
9210 N. Meridian
Indianapolis, IN, 46220

Agent:

Natural Resource Consulting
Attn: Ron Dixon
7719 Knapp Road
Indianapolis, IN 46259

Project Location:

Marion County
Latitude 39.6334, Longitude -86.2919
Located west of Paddock road between Ralston Road to the North and W County Line Road to the south

Project Description: Discharge 11,132 cubic yards of fill in 2.7 acres of wetland.

Impact 2,059 linear feet of stream through dredging, encapsulation and filling.

Mitigate for impacts to aquatic resources by purchasing 4.164 acres of emergent credits and 2.934 acres of Scrub-shrub credits and 2,471 linear feet of stream mitigation credits within the Upper White Service Area of the Indiana Stream and Wetland Mitigation Program.

Authorized Impacts

STREAM IMPACT(S)	Length of Impact (linear feet)		
	Ephemeral	Intermittent	Perennial
Type of Impact:			
Channel unit 1		159	
Channel Unit 4	341		
Channel Unit 5	479		
Channel Unit 7	1080		

WETLAND IMPACT(S)	Area of Impact (acres)			
	Open Water	Emergent	Scrub/Shrub	Forested
Type of Impact:				
Wetland A		0.68		
Wetland B			0.02 (being restored)	
Wetland D		0.01 (being restored)		
Wetland F			0.85	
Wetland G		0.59		
Wetland H		0.03		
Wetland I			0.09	
Wetland J		0.67		

Project Mitigation

MITIGATION BANKS AND IN-LIEU FEE	Stream (Linear Feet)
Type of Purchase	ILF
In-Lieu Fee Credits:	2471

MITIGATION BANKS AND IN-LIEU FEE	Wetland (Acres)		
	Emergent	Scrub/Shrub	Forested
In-Lieu Fee Credits	4.164	2.934	

Mitigation Location: ILF Upper White Service Area

Application Signed: 1/11/2023

Application Received: 1/18/2023

Based on available information, it is the judgment of this office that the impacts from the proposed project as outlined by this Section 401 Water Quality Certification and described in your application will comply with the applicable provisions of 327 IAC 2 and Sections 301, 302, 303, 306, and 307 of the Clean Water Act if you comply with the conditions set forth below. Therefore, subject to the following conditions, the Indiana Department of Environmental Management (IDEM) hereby grants Section 401 Water Quality Certification for the project described in your application. Any changes in project design or scope not detailed in the application described above or modified by this Section 401 Water Quality Certification are not authorized.

Failure to comply with the terms and conditions of this Section 401 Water Quality Certification may result in enforcement action against you. If an enforcement action is pursued, you could be assessed up to \$25,000 per day in civil penalties. You may also be subject to criminal liability if it is determined that the Section 401 Water Quality Certification was violated willfully or negligently.

Conditions of the Section 401 Water Quality Certification

1.0 General

- (a) Per 33 CFR 325.6(c), 327 IAC 5-2-6, IC 13-15-3-2 the federal license shall have an established timeframe and the state permit must be for a fixed term, no longer than five years. Therefore, all approved discharges must be completed within the term of the valid federal permit, not to exceed five years.
- (b) Per IC 13-14-2-2, the department may inspect public or private property to inspect for and investigate possible violations of environmental management laws. Therefore, the commissioner or an authorized representative of the

commissioner (including an authorized contractor), upon the presentation of credentials must be allowed:

- (1) to enter your property, including impact and mitigation site(s);
- (2) to have access to and copy at reasonable times any records that must be kept under the conditions of this certification;
- (3) to inspect, at reasonable times, any monitoring or operational equipment or method; collection, treatment, pollution management or discharge facility or device; practices required by this certification; and any mitigation wetland site;
- (4) to sample or monitor any discharge of pollutants or any mitigation site.

2.0 Mitigation

Per 327 IAC 2, the goal of Indiana's water quality standards is to restore and maintain the chemical, physical and biological integrity of the state's waters. Mitigation of dredge and fill impacts to Indiana's water resources is required to maintain water quality.

- (a) Per 40 CFR 230.91; 33 CFR 332.3; 327 IAC 2-1; 327 IAC 2-1.5, implementation of the submitted and approved mitigation plan is to ensure the water quality functions of the impacted waters are replaced, preventing a reduction in water quality. Therefore, implement the mitigation plan as described in the application (referred to collectively hereinafter as the "mitigation plan"), and as modified by the conditions of this certification.
- (b) Mitigation via mitigation bank or ILF
Per 33 CFR 332.3 (f); 327 IAC 2-1; 327 IAC 2-1.5 the amount of mitigation required must be listed within the permit.
 - (1) Provide to IDEM proof of 4.164 acres of emergent wetland credits, 2.934 acres of Scrub-shrub wetland credits and 2,471 linear feet of in-lieu fee stream credits within the Upper White Service Area from the Indiana Stream and Wetland Mitigation Program (IN SWMP):
 - (A) Within one (1) year of the date of this authorization;
 - (B) Before authorized impacts to waters of the State.

Be aware that credits may not be available at all times.

Failure to purchase credits by the required date may result in additional mitigation requirements to compensate for temporal loss.

3.0 Erosion and Sediment Control

Per 40 CFR 122.26, 327 IAC 15; 327 IAC 2-1; 327 IAC 2-1.5, the use of appropriate stormwater control measures and maintenance thereof will prevent any sediment laden water from migrating off site and entering waterways and wetlands, potentially impairing water quality. Therefore, the following erosion and sediment control steps must be completed.

- (a) Implement erosion and sediment control measures on the construction site prior to land disturbance to minimize soil from leaving the site or entering a waterbody. Erosion and sediment control measures shall be implemented using an appropriate order of construction (sequencing) relative to the land-disturbing activities associated with the project. Appropriate measures include, but are not limited to, silt fence, diversions, and sediment traps.
- (b) Monitor and maintain erosion control measures and devices regularly, especially after rain events, until all soils disturbed by construction activities have been permanently stabilized.
- (c) Use run-off control measures, including but not limited to diversions and slope drains. These measures are effective for directing and managing run-off to sediment control measures and for preventing direct run-off into waterbodies.
- (d) Install and make appropriate modifications to erosion and sediment control measures based on current site conditions as construction progresses on the site. The Indiana Storm Water Quality Manual or similar guidance documents are available to assist in the selection of measures that are applicable to individual project sites.
- (e) Implement appropriate erosion and sediment control measures for all temporary run-arounds, cofferdams, temporary causeways, temporary crossings, or other such structures that are to be constructed within any waters of the state. Minimize disturbance to riparian areas when constructing these structures. Structures must be included in reviewed designs or approved by IDEM prior to use. Construct temporary run-arounds, temporary cofferdams, temporary causeways, temporary crossings, or other such structures of non-erodible materials. Temporary crossings and causeways must be completely removed upon completion of the project and the affected area restored to pre-construction contours, grades, and vegetative conditions.
- (f) Install stream pump-around operations in accordance with the plans and ensure in-stream component is constructed of non-sediment producing materials. The discharge at the outlet shall not cause erosion of the stream bottom and banks.

- (g) Direct cofferdam dewatering activities to an appropriate sediment control measure or a combination of measures prior to discharging into a water of the state to minimize the discharge of sediment-laden water.
- (h) Ensure cut and fill slopes located adjacent to wetlands and streams (including encapsulated streams) or that directly discharge to these aquatic features are stabilized using rapid/incremental seeding or other appropriate stabilization measures.
- (i) Stabilize and re-vegetate disturbed soils as final grades are achieved. Initiation of stabilization must occur immediately or, at a minimum, within the requirements of a construction site run-off permit after work is completed. Use a mixture of herbaceous species beneficial for wildlife or an emergent wetland seed mix wherever possible and appropriate. Tall fescue may only be planted in ditch bottoms and ditch side slopes and must be a low endophyte seed mix. Stabilize the channel before releasing stream flows into the channel.
- (j) As work progresses, re-vegetate areas void of protective ground cover. Areas that are to be re-vegetated shall use seeding and anchored mulch. **If alternative methods are required to ensure stabilization, erosion control blankets may be used that are biodegradable, that use loose-woven/leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation).**

Anchor mulch. Anchoring shall be appropriate for the site characteristics such as slope, slope length, and concentrated flows. **Anchoring methods may not include loose netting over straw, but can range from crimping of straw, erosion control blankets as specified above that minimize wildlife entrapment, or net free blankets.** Tackifiers with mulch and hydro-mulch are acceptable and shall be applied to the manufacturer specifications.

4.0 Construction

Per 327 IAC 2-1-6(b)(4) the protection of existing uses for aquatic life is required and, per 327 IAC 2-1.3-2 (4) the utilization of best management practices helps ensure the protection of existing uses. Therefore, the following best management practices are required.

- (a) Avoid in stream channel work during the fish spawning season (April 1 through June 30).
- (b) Clearly mark wetlands and streams that are to remain undisturbed on the project site.

- (c) Restrict channel work and vegetation clearing to the minimum necessary for the installation of any structures. Work from only one side of the stream, and, where possible, from the side of the stream which does not have adjacent wetlands. If no wetlands are present, work from the side with the fewest trees and woody vegetation.
- (d) Ensure permanent in-stream structures, including but not limited to culverts and other stream encapsulations, are embedded and sized appropriately so as not to impede surface flows or create abnormal impediments to aquatic life.
- (e) Deposit any dredged material in a contained upland (non-wetland) disposal area to prevent sediment run-off to any waterbody.
- (f) Create temporary structures constructed in streams such that near normal stream flows are maintained. (327 IAC definitions Stream Design Flow?)

Other Applicable Permits

Based on the proposed land disturbance, a construction stormwater general permit is required for the project. Permit coverage must be obtained prior to the initiation of land-disturbing activities. Information related to obtaining permit coverage is available at www.in.gov/idem/stormwater or by contacting the IDEM, Stormwater Program at 317-233-1864 or via email at Stormwat@idem.IN.gov.

This certification does not relieve you of the responsibility of obtaining any other permits or authorizations that may be required for this project or related activities from IDEM or any other agency or person. You may wish to contact the Indiana Department of Natural Resources at 317-232-4160 (toll free at 877-928-3755) concerning the possible requirement of natural freshwater lake or floodway permits.

This certification does not:

- (1) Authorize impacts or activities outside the scope of this certification;
- (2) Authorize any injury to persons or private property or invasion of other private rights, or any infringement of federal, state or local laws or regulations;
- (3) Convey any property rights of any sort, or any exclusive privileges;
- (4) Preempt any duty to obtain federal, state or local permits or authorizations required by law for the execution of the project or related activities; or
- (5) Authorize changes in the plan design detailed in the application.

Notice of Right to Administrative Review (Permits)

If you wish to challenge this permit, you must file a Petition for Administrative Review with the Office of Environmental Adjudication (OEA), and serve a copy of the petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the issuance of this notice (eighteen (18) days if you received this notice by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director	Commissioner
Office of Environmental Adjudication	Indiana Dept. of Environmental Management
Indiana Government Center North	Indiana Government Center North
100 North Senate Avenue, Room N103	100 North Senate Avenue, Room 1301
Indianapolis, Indiana 46204	Indianapolis, Indiana 46204

The petition must contain the following information:

- (a) The name, address and telephone number of each petitioner.
- (b) A description of each petitioner's interest in the permit.
- (c) A statement of facts demonstrating that each petitioner is:
 - (1) a person to whom the order is directed;
 - (2) aggrieved or adversely affected by the permit; or
 - (3) entitled to administrative review under any law.
- (d) The reasons for the request for administrative review.
- (e) The particular legal issues proposed for review.
- (f) The alleged environmental concerns or technical deficiencies of the permit.
- (g) The permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
- (h) The identity of any persons represented by the petitioner.
- (i) The identity of the person against whom administrative review is sought.
- (j) A copy of the permit that is the basis of the petition.
- (k) A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the permit. Examples are:

- (a) Failure to file a Petition by the applicable deadline;
- (b) Failure to serve a copy of the Petition upon IDEM when it is filed; or
- (c) Failure to include the information required by law.

If you seek to have a permit stayed during the administrative review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.

Pursuant to IC 4-21.5-3-17, OEA will provide all parties with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you are entitled to notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding you must submit a written request to OEA at the address above.

If you have procedural or scheduling questions regarding your Petition for Administrative Review, additional information on the review process is available at the website of the Office of Environmental Adjudication at <http://www.in.gov/oea>.

If you have any questions about this certification, please contact William Robinson, Project Manager, by email at WRobinso@IDEM.IN.Gov or by phone at 317-460-6530.

cc: Scott Matthews USACE – Louisville District
Sarah Harrison USFWS
Brian Boszar, IDNR
Indiana Stream and Wetland Mitigation Program (Electronic)
Ron Dixon, Natural Resource Consulting



Indiana Department of Environmental Management Office of Water Quality Wetlands Section

Publication Date:
1/26/2023

Closing Date:
2/16/2023

IDEM ID Number:
2023-28-49-WLR-X

Corps of Engineers ID Number:
LRL-2021-707-sam

PUBLIC NOTICE

To all interested parties: This letter shall serve as a formal notice of the receipt of an application for a **State Isolated Wetland Individual Permit** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for permits required under IC 13-18-22 and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2 and all applicable provisions of IC 13-18-22.

1. Applicant: Mark Allen Bridwell
D.R. Horton
9210 N. Meridian
Indianapolis, IN, 46220

2. Agent: Ron Dixon
Natural Resource Consulting
7719 Knapp Road
Indianapolis, IN 46259

3. Project location: 39.6334, -86.2919
Located west of Paddock road between Ralston Road to the North and W County Line Road to the south

4. Affected waterbody: Wetland A: 0.68 acre emergent wetland with 0.68 acre impacted by fill
Wetland B: 0.17 acre forested wetland with 0.02 acre impacted by fill, to be restored
Wetland D: 0.04 acre forested wetland with 0.01 acre impacted by fill, to be restored
Wetland F: 0.98 acre scrub-shrub wetland with 0.85 acre impacted by fill
Wetland G: 0.52 acre emergent wetland with 0.52 acre impacted by fill
Wetland H: 0.03 acre emergent wetland with 0.3 acre impacted by fill
Wetland I: 0.33 acre scrub-shrub wetland with 0.09 acre impacted by fill
Wetland J: 2.00 acres emergent wetland with 0.67 acre impacted by fill
Stream Channel 1: 3749 linear foot intermittent stream with 159 linear feet impacted
Stream Channel 4: 423 linear feet ephemeral stream with 341 linear feet impacted
Stream Channel 5: 1529 linear feet ephemeral stream with 479 linear feet impacted
Stream Channel 7: 2376 linear feet ephemeral stream with 1080 linear feet impacted

5. Project Description: The project is a single family home residential subdivision with utilities, roads, and detention basins. It will result in 11,132 cubic yards of fill deposited in 2.7 acres of wetland. 2,059 linear feet of stream will also be impacted to make room for the homes and utilities on site. 7.098 acres of wetland mitigation and 2,471 linear feet of stream mitigation will be purchased from the IDNR In-lieu fee program in the Upper White service area.

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the state isolated wetland permit review process.

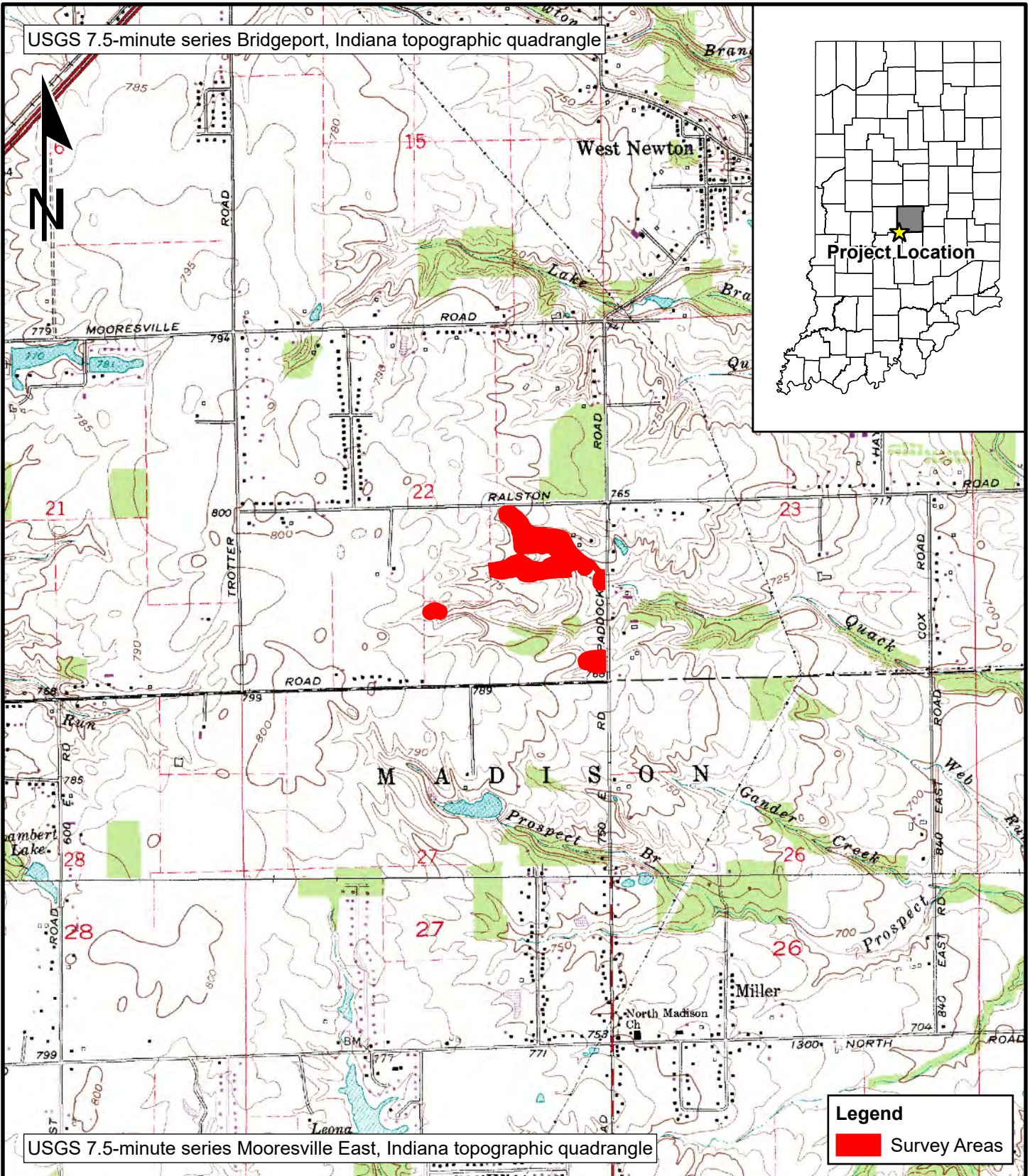
Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions?

Additional information may be obtained from Marty Maupin, Project Manager, at 317-233-2471 or by email at mmaupin@idem.in.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251
FAX: 317/232-8406

USGS 7.5-minute series Bridgeport, Indiana topographic quadrangle



USGS 7.5-minute series Mooresville East, Indiana topographic quadrangle

Legend
 Survey Areas

2,000 0 2,000
 Feet

Date: 11/3/2022

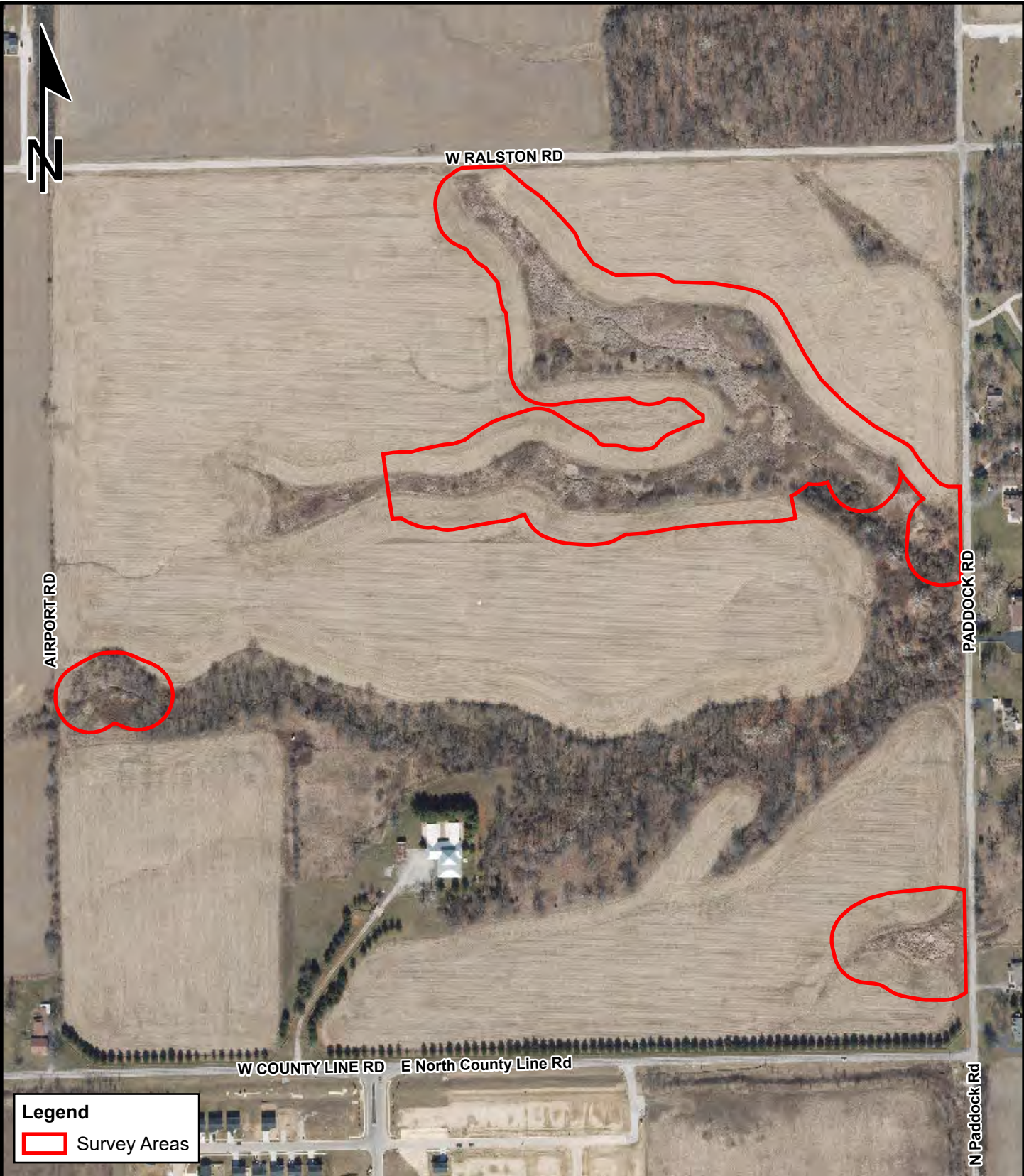
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PROJECT LOCATION MAP

Proposed Parks at Decatur Residential Development in
 Decatur Civil Township, Marion County, Indiana.

*This map is intended to serve as an aid in graphic representation only.
 This information is not warranted for accuracy or other purposes.*

NS Services
 Environmental & Infrastructure
www.nsenvservices.com



PROJECT AREA MAP (2021 AERIAL)

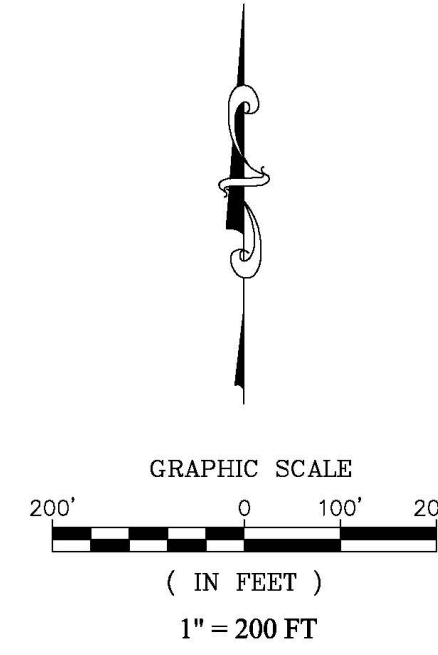
Proposed Parks at Decatur Residential Development in Decatur Civil Township, Marion County, Indiana.
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

NS Services
 Environmental & Infrastructure
www.nsenvservices.com

STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLNSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

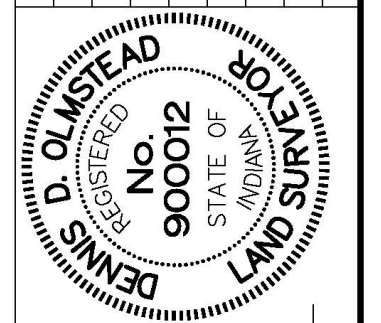
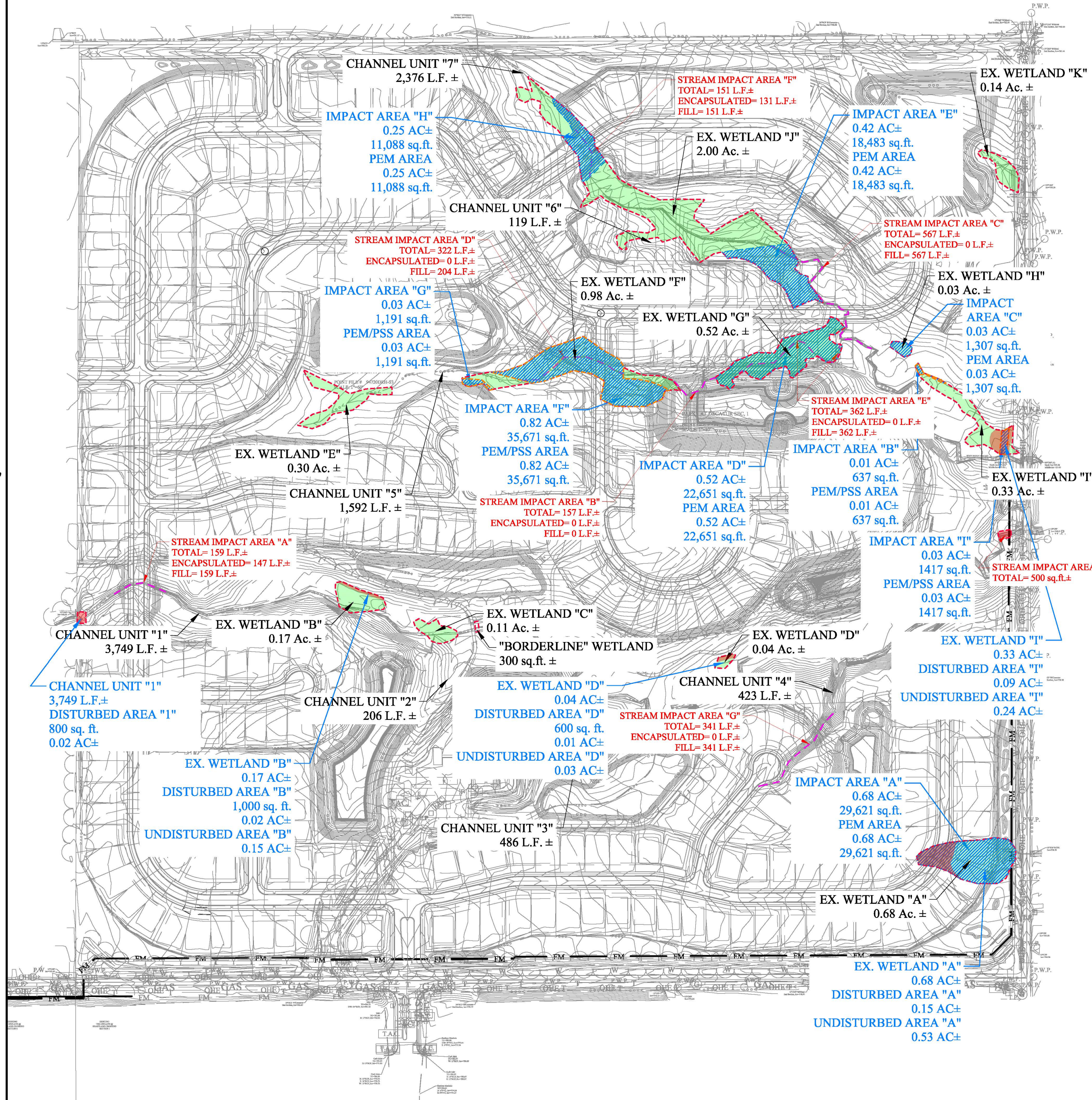
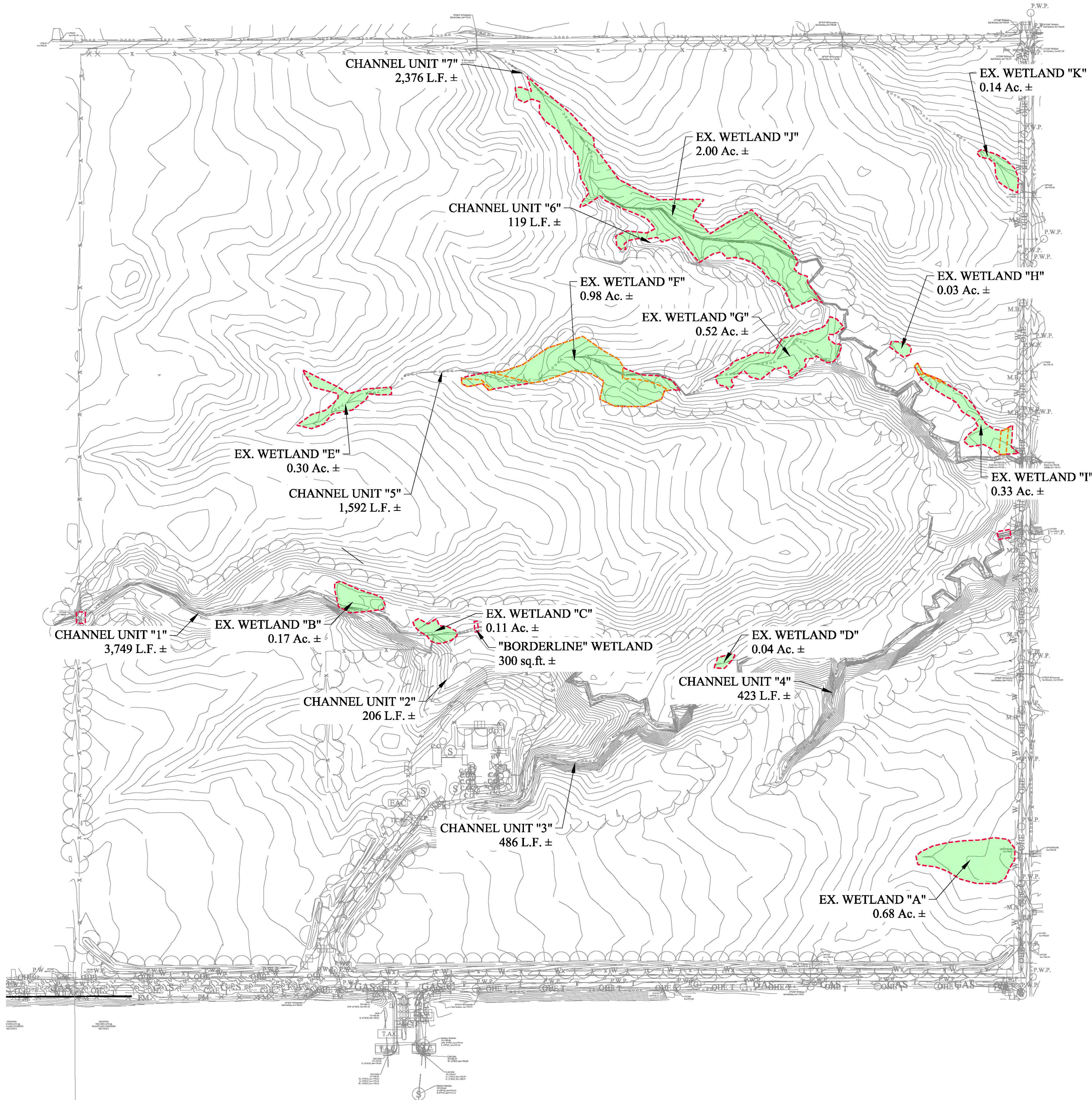
THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR



- LEGEND**
- WETLAND
 - IMPACTED AREA
 - DISTURBED AREA
 - PEM
 - PEM/PSS
 - STREAM IMPACT AREA

TOTAL IMPACT AREA = 2.70 Ac±
 PEM AREA = 1.81 Ac±
 PEM/PSS AREA = 0.89 Ac±
 STREAM IMPACT AREA = 2,059 L.F.
 = 6,586 SQ.FT./ 0.15 Ac±



THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR SURVEY OR A SURVEYOR LOCATION REPORT.

CERTIFIED: 05/07/2021

STOEPPELWERTH
 A L L A Y S O N
 7965 East 106th Street, Fishers, IN 46038-2505
 Phone: (317) 849-5935 Fax: (317) 849-5942

WETLAND IMPACT EXHIBIT
 PREPARED FOR:
PARKS AT DECATUR SEC. 1
 DECATUR TOWNSHIP, MARION CO., INDIANA

SECTION: 22 TOWNSHIP: 14N RANGE: 2E
 DRAWN BY: GEM CHECKED BY: KRG
 SHEET NO. 1 OF 1 SHEETS
 S & A JOB NO. 94720DRH
 DATED: 07/09/19

Alternative Analysis

Parks at Decatur Residential Subdivision – Indianapolis, Indiana

1. Basic Project Purpose

Parks at Decatur, a 160 +/- acre subdivision, involves the development of a new single-family residential subdivision by D.R. Horton Homes, along with the typical required infrastructure of roads, house pads, utilities, storm water features, trails, greenspace areas, including 28+ acres being set aside for a new park (hence the name of this subdivision).

2. Overall Project Purpose and Need

The overall purpose of Parks at Decatur is to create a new single-family residential subdivision in southwestern Marion County, Indiana, to help meet the demand for new housing in Indianapolis and the surrounding metropolitan areas. Sewer, water, and other necessary utilities are present at this site to support residential housing. Numerous other recent subdivisions have and/or are being developed in this area as part of the Indianapolis Comprehensive Land Development Plan.

The site is a large row crop farm bisected by numerous (7) wooded and herbaceous corridors parallel to small intermittent and ephemeral stream channels totaling approximately 8,591 lineal feet. Along these channels we delineated 11 wetlands totaling approximately 5.30 acres. The central flowage west to east location of these natural drainageways required some unavoidable impacts to support the infrastructure of this subdivision. However, our land development team worked closely together to minimize our impacts to less than 2,059 feet of channel and 2.70 acres of wetland. 159 lineal feet are for the crossing of an intermittent channel (Channel Unit #1). The remaining 1,900 lineal feet are ephemeral channel impacts. Nearly all of the higher quality intermittent riparian wooded corridor is being avoided and preserved into a new 28 acre park.

3. Special Aquatic Sites

No special aquatic sites observed or recorded by the IDNR (IDNR Letter enclosed)

4. Practical Alternatives

Alternative 1: Total avoidance of all wetlands requiring no action.

This alternative is determined not to be practical due to requirements and limitations listed above, which make it necessary to balance out a required number of housing units to provide the necessary tax base required to accommodate the essential municipal services of fire, police, roads, parks, other public works, etc.

Alternative 2: Locate another property.

This alternative is also not feasible, as this location is in a prime area for residential housing due to the presence of sanitary sewers, city water, and other necessary utilities.

Alternative 3: Full development of the site.

The engineering and environmental land development team understood from the beginning the need to minimize wetland and stream impacts. Therefore, full development of the site was never considered as a possibility.

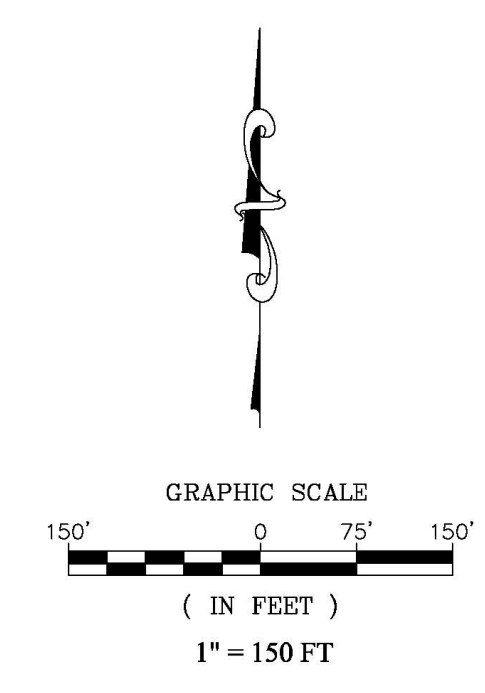
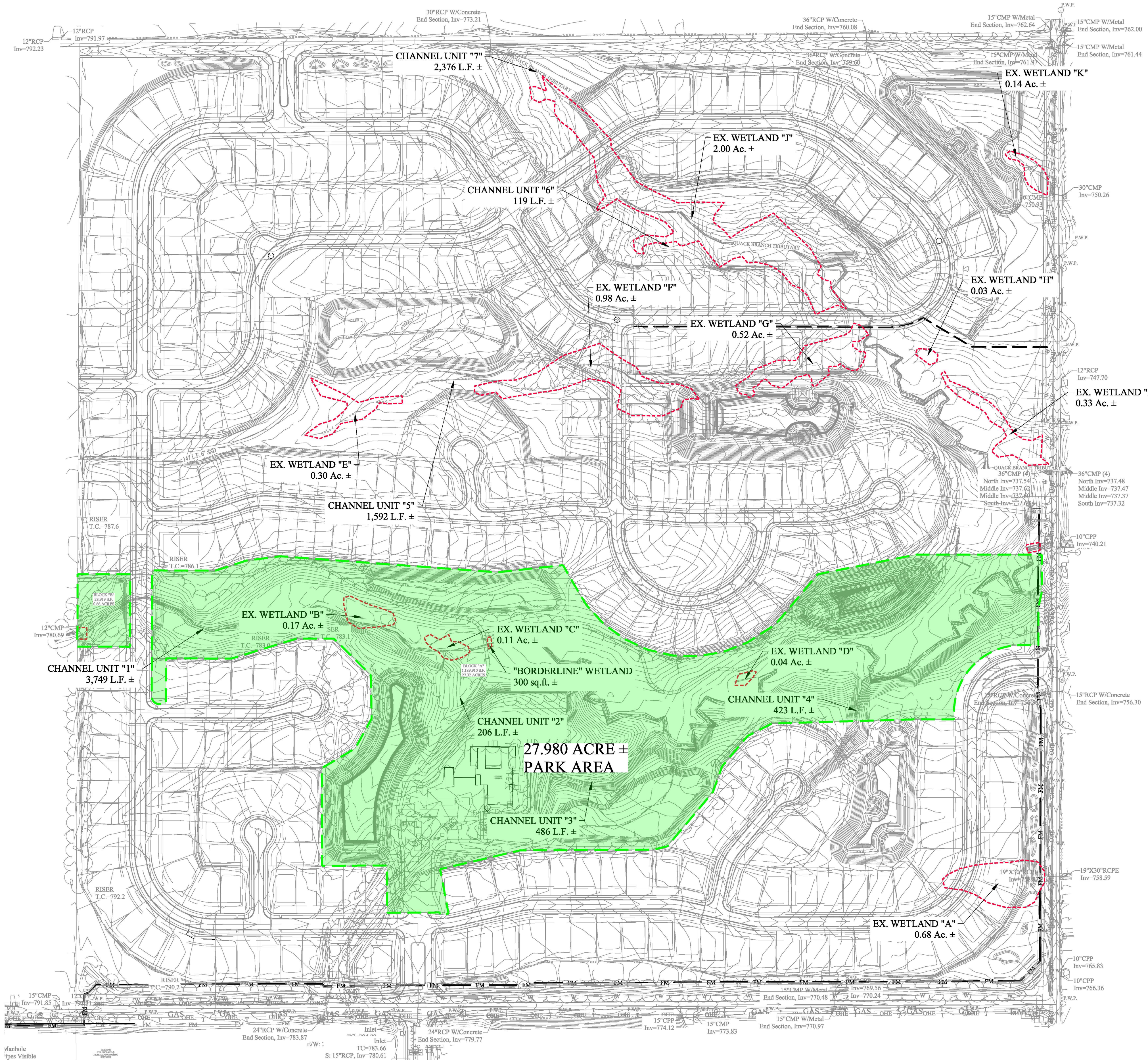
Alternative 4: Submitted minimized development plan

The submitted plan, given the circumstances mentioned above, was felt to be the only feasible alternative. It is important to recognize that within this 160 +/- acre parcel, large areas are being set aside as natural areas with trails and green space including a new 28-acre park. The majority of the wetland and stream impacts are located in the ephemeral channels and low quality emergent wetlands of predominantly non-native cattail colonies in the north half of the site.

STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR



BY: _____
 REVISIONS: _____
 DATE: _____

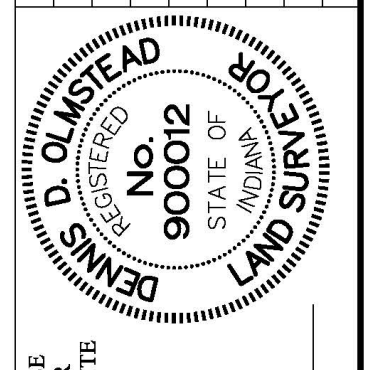
STOEPPELWERTH
 A L W A Y S O N
 7965 East 106th Street, Fishers, IN 46038-2505
 Phone: (317) 849-5935 Fax: (317) 849-5942

PARK AREA EXHIBIT
PARKS AT DECATUR SEC. 1
 DECATUR TOWNSHIP MARION CO., INDIANA

PREPARED FOR: _____
 DRAWN BY: GEM CHECKED BY: KRK

SHEET NO. **1**
 OF 1 SHEETS
 S & A JOB NO. 94720DRH

DATED: 01/09/23



THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR SURVEY OR A SURVEYOR LOCATION REPORT.
 CERTIFIED: 05/07/2021







STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSHEAD
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THIS INSTRUMENT PREPARED FOR:
 D.R. BORTON - INDIANA, LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

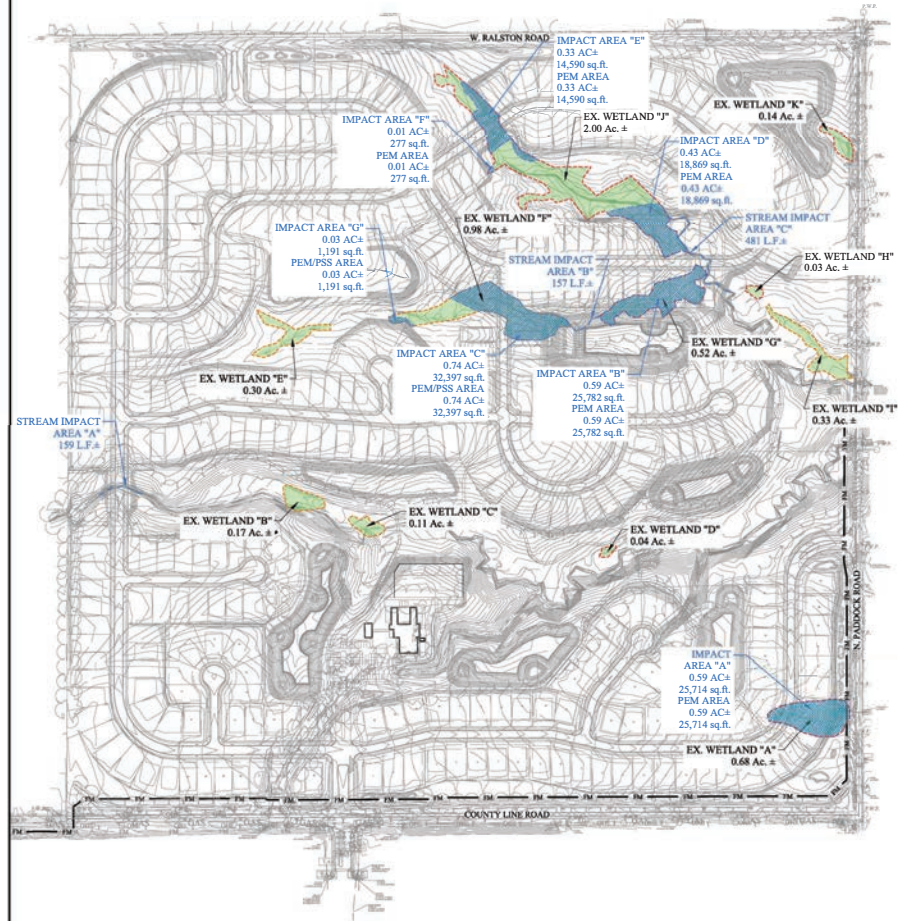
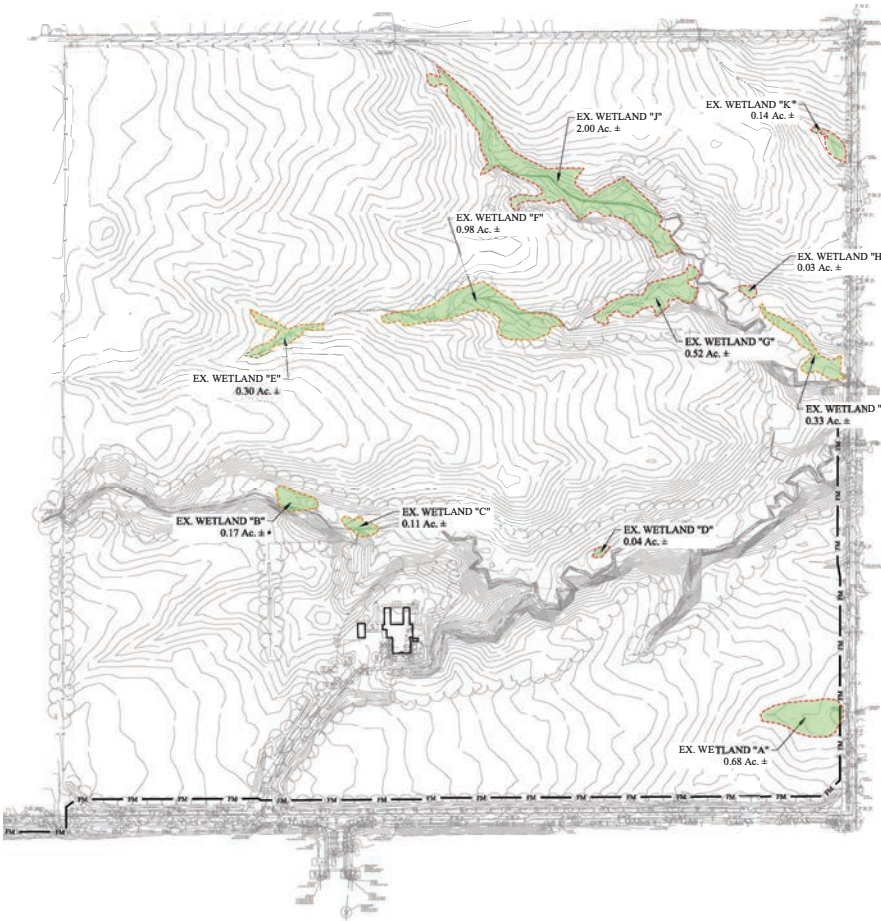
PARKS AT DECATUR

LEGEND

-  WETLAND
-  IMPACTED AREA
-  PEM
-  PEM/PSS

WETLAND IMPACTS
 TOTAL AREA = 2.72 Ac±
 PEM AREA = 1.95 Ac±
 PEM/PSS AREA = 0.77 Ac±

STREAM IMPACTS
 STREAM = 797 Lineal Feet



STATE OF INDIANA
 PROFESSIONAL ENGINEER
 DENNIS D. OLMSHEAD
 LICENSE NO. 900012

STOEPPELWERTH
 A W A Y S O N
 7965 East 108th Street, Fishers, IN 46038-2005
 Phone: (317) 849-8935 Fax: (317) 849-5942



WETLAND IMPACT EXHIBIT
 PREPARED FOR:
PARKS AT DECATUR
 DECATUR TOWNSHIP
 MARION CO., INDIANA

SECTION: 22
 TOWNSHIP: 14N
 RANGE: 2E

DRAWN BY: GEM
 CHECKED BY: KRG

DATE: 11/6/21

1
 OF 1 SHEETS
 PLAN NO.
 947202DH

From: [Ron Dixon](#)
To: [Robinson, William](#)
Cc: [Eric W Batt](#); [Greg Kleis](#); [John Dixon](#); [Keith Gilson](#); [Mark Allan Bridwell](#); [Matt Buck](#); [scott.a.matthews](#)
Subject: Re: Parks at Decatur; LRL-2021-707
Date: Wednesday, March 1, 2023 3:32:07 PM
Attachments: [Parks at Decatur Alternative Analysis \(1\).pdf](#)
[94720DRH-WETLANDS-PARK AREA.pdf](#)
[Parks at Decatur Engineering Exhibits 1.pdf](#)

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning Will,

Per your request, I am responding to your concern regarding a public notice commenter asking about the necessity of impacting wetlands and stream channels at the new D.R. Horton Parks at Decatur residential housing development and park. I am attaching an Alternative Analysis, a Park Property Exhibit, and an Engineering Exhibit that shows the majority of the wetland and stream impacts are in the north half of the site where the lower quality wetlands and ephemeral channels are located. Most of these wetlands in the north half of the site parallel an old overgrown agricultural waterway and tile system and contain colonies of invasive non-native cattail growth. The ephemeral channels there are forming from a breakdown of old clay agricultural subsurface tile drains that have not been maintained for many years.

D.R. Horton Land Acquisition Managers and Stoepelwerth & Associates Engineering & Land Surveying, realized the Parks at Decatur site would certainly be a challenge given the topography and multiple stream channel corridors. This was not a typical row crop field. Given that understanding, the decision was made to minimize environmental impacts and avoid the higher quality forested wetlands and the primary intermittent stream channel located on the south half of the property. From that decision, came the emergence of a new 28 acre Park, hence the name "Parks at Decatur". Very few land developers would be willing to sacrifice that much (28 acres) of their land to do that, but because they did, it became necessary to impact some of the lower quality wetland and ephemeral channels on the north half of the property. In order for the development to be financially feasible, there needs to be a given number of housing units to support the required infrastructure. From the beginning, the land development team felt this would be one of our best sites that clearly followed the agency recommendations of avoidance and/or minimization of sensitive waters and related natural resources. At a time when both new homes and parks are very much in demand, we felt this would be a win-win for all involved, including the environment. However, and unfortunately, this project has not been a "Walk in the Park". However, once fully developed, I am confident that Parks at Decatur will stand out as a good example for meeting the demands for both new housing and natural greenspace areas in the Indianapolis Metro Area.

Please contact me if I can be of further assistance.

Thank you.

Ron Dixon
Natural Resource Consulting
Indianapolis Office: (317) 862-7446
Mobile/Field Office/Trailer: (317) 902-3300

On Tue, Feb 28, 2023 at 11:41 AM Ron Dixon <naturalresourceconsulting@gmail.com> wrote:

Hello Will,

I will prepare a response to your request and send to you soon.

Ron

On Tue, Feb 28, 2023 at 11:12 AM Robinson, William <WRobinso@idem.in.gov> wrote:

Hey Ron,

I had a public commenter ask for more information about your avoidance and minimization of impacts to the wetlands on site. Could you provide me with a more detailed record of why all of the impacts in this project were necessary for the purposes of the project? Is it possible to avoid any of the wetlands, and if so why isn't that occurring? Looking forward to hearing back from you, thanks!

From: Ron Dixon <naturalresourceconsulting@gmail.com>

Sent: Friday, February 17, 2023 12:38 PM

To: Matthews, Scott A CIV USARMY CELRL (USA)
<Scott.A.Matthews@usace.army.mil>

Cc: Amy Romig <aromig@psrb.com>; John Dixon <john@ronldixon.com>; Mark Allan Bridwell <MABridwell@drhorton.com>; Matt Buck <matt@ronldixon.com>; Robinson, William <WRobinso@idem.IN.gov>

Subject: Re: Parks at Decatur; LRL-2021-707

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Thank you for the update Scott. Would it be possible to get a copy of the letter from the EPA and the name of the EPA Project Manager so that we have a contact should we need to forward any information to the EPA?

Thank you.

Ron

On Fri, Feb 17, 2023 at 12:30 PM Matthews, Scott A CIV USARMY CELRL (USA) <Scott.A.Matthews@usace.army.mil> wrote:

Good afternoon.

This email is to inform you that the Corps has received a letter from the EPA requestion the Corps provide them with a copy of the file so that they may review the project. Per the regulations, the Corps will provide a the requested information to the EPA and provide assistance while they complete their review. The Corps will also pause all reviews of the project until the EPA and completed their work and returned the project to the Corps for continued work.

Please feel free to contact me if you have any questions.

Thank you

Scott

Scott A. Matthews

Regulatory Specialist

Mitigation, Compliance & Enforcement Branch

Indianapolis Regulatory Office

Louisville District

Phone: 317-543-9424 X2

Mobile: 463-230-1022

<http://www.lrl.usace.army.mil>

Please comment on our service. Our National Customer Service Survey is located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>



APPLICATION FOR AUTHORIZATION TO DISCHARGE DREDGED OR FILL MATERIAL TO ISOLATED WETLANDS AND/OR WATERS OF THE STATE

State Form 51821 (R2 / 11-15)

Indiana Department of Environmental Management

- INSTRUCTIONS:**
1. Read the instruction sheet before filling out this form.
 2. You must complete all applicable sections of this form

1. Applicant Information		2. Agent Information	
Name of Applicant Mark Allan Bridwell		Name of Agent Ron Dixon	
Mailing address (Street/ PO Box/ Rural Route, City, State, ZIP Code) 9210 N. Meridian Street Indianapolis, Indiana 46220		Mailing address (Street/ PO Box/ Rural Route, City, State, ZIP Code) Natural Resource Consulting 7719 Knapp Road Indianapolis, Indiana 46259	
Daytime Telephone Number (317) 754-6957		Daytime Telephone Number (317) 862-7446	
Fax Number		Fax Number	
E-mail address (optional) mabridwell@drhorton.com		E-mail address (optional) naturalresourceconsulting@gmail.com	
Contact person (required) Mark Allan Bridwell		Contact person Ron Dixon	
3. Project / Tract Location			
County Marion		Nearest city or town Indianapolis	
U.S.G.S. Quadrangle map name (Topographic map) Camby, Indiana		Project street address (if applicable)	
Quarter SE	Section 22	Township 14 N.	Range 2 E.
Type of aquatic resource(s) to be impacted (Attach Worksheet One.) Wetlands, Ephemeral & Intermittent Channels		Project name or title (if applicable) Parks at Decatur	
Other location descriptions or driving directions Site is located west of Paddock Road between Ralston Road to the North and County Line Road to the South.			
4. Project Purpose and Description (Use additional sheet(s) if required.)			
Has any construction been started? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Anticipated start date (month, day, year) April 15, 2022	
If yes, how much work is completed? First Phase under construction at south end of site. Some unapproved impacts occurred being addressed			
Purpose of project and overview of activities This will be a single family residential subdivision with typical infrastructure (streets, house pads, storm water drains and detention basins, sanitary sewers, utilities, green space, a new 28 acre city park. etc.)			

5. Avoidance, Minimization, and Mitigation Information: Applicants must answer all of the following questions

(Use additional sheet(s) if necessary - provide a detailed response to all applicable questions.)

A. For projects with Class II isolated wetlands –

1. Is there a reasonable alternative to the proposed activity?

2. Is the proposed activity reasonably necessary or appropriate?

B. For projects with Class III wetlands, adjacent wetlands, and/or streams, rivers, lakes or other water bodies –

1. Is there a practicable alternative to the proposed activity?

2. Have practicable and appropriate steps to minimize impacts to water resources been taken?

Describe all compensatory mitigation required for unavoidable impacts.
Please see attached tables.

6. Drawing / Plan Requirements (Applicants must provide the following.)

- a. Top/aerial/overhead views of the project site showing existing conditions and proposed construction.
- b. Cross sectional view of areas of fill or alterations to streams and other waters.
- c. North arrow, scale, property boundaries.
- d. Include wetland delineation boundary *(if applicable)*. Label all wetlands (jurisdictional, isolated and exempt) as I-1, I-2, I-3, etc. and the mitigation areas as M-1, M-2, etc.
- e. Location of all surface waters, including wetlands, erosion control measures, existing and proposed structures, fill and excavation locations, disposal area for excavated material, including quantities, and wetland mitigation site *(if applicable)*.
- f. Approximate water depths and bottom configurations *(if applicable)*.

7. Supplemental Application Materials (Applicants must provide the following.)

- a. A wetland delineation of all wetlands on the project site *(for projects with wetland impacts)*.
- b. At least three photographs of the project site. Indicate the photo locations on the project plans.
- c. If isolated wetlands are present, a letter from the Corps of Engineers verifying this statement.
- d. Wetland mitigation plan and monitoring report.
- e. Classification of all isolated wetlands on the tract *(if isolated wetlands are present onsite)*.
- f. Copies of all applicable local permits and/or resolutions pertaining to the project or tract.
- g. Tract history *(see instructions)*.

8. Additional information that MAY be required (IDEM will notify you if needed.)

- a. Erosion control and/or storm water management plans.
- b. Sediment analysis.
- c. Species surveys for fish, mussels, plants and threatened or endangered species.
- d. Stream habitat assessment.
- e. Any other information IDEM deems necessary to review the proposed project.

9. Permitting Requirements

a. Does this project require the issuance of a Department of the Army Section 404 Permit from the US Army Corps of Engineers? Yes No
 If no, you do not need to answer Part b.

b. Have you applied for an Army Corps of Engineers Section 404 permit? Yes No
 If yes, please supply the Corps of Engineers ID Number, the Corps of Engineers District, the project manager, and a copy of any correspondence with the Corps. **If no, contact** the Army Corps of Engineers regarding the possible need for a permit application.
 USACE ID# LRL-2021-00707-DDC

c. Have you applied for, received, or been denied a permit from the Department of Natural Resources for this project? Yes No
 Please give the permit name, permit number, and date of application, issuance or denial.
 Please see IDNR ETR Review Letter enclosed.

d. Have you applied for, received, or been denied any other federal, state, or local permits, variances, licenses, or certifications for this project? Yes No
 Please give the permit name, agency from which it was obtained, permit number, and date of issuance or denial.
 Please see attached list.

10. Adjoining Property Owners and Addresses

List the names and addresses of landowners adjacent to the property on which your project is located and the names and addresses of other persons (or entities) potentially affected by your project. Use additional sheet(s) if required.

Name PLEASE SEE ATTACHED LIST Address (number and street) City State ZIP Code	Name Address (number and street) City State ZIP Code
Name Address (number and street) City State ZIP Code	Name Address (number and street) City State ZIP Code
Name Address (number and street) City State ZIP Code	Name Address (number and street) City State ZIP Code
Name Address (number and street) City State ZIP Code	Name Address (number and street) City State ZIP Code
Name Address (number and street) City State ZIP Code	Name Address (number and street) City State ZIP Code
Name Address (number and street) City State ZIP Code	Name Address (number and street) City State ZIP Code

11. Signature - Statement of Affirmation

I certify that I am familiar with the information contained in this application and, to the best of my knowledge and belief, such information is true and accurate. I certify that I have the authority to undertake and will undertake the activities as described in this application. I am aware that there are penalties for submitting false information. I understand that any changes in project design subsequent to IDEM's granting of authorization to discharge to a water of the state are not authorized and I may be subject to civil and criminal penalties for proceeding without proper authorization. I agree to allow representatives of the IDEM to enter and inspect the project site. I understand that the granting of other permits by local, state, or federal agencies does not release me from the requirement of obtaining the authorization requested herein before commencing the project.

Applicant's Signature:

Mark A. Bridwell

Date:

1/11/23
(mm/dd/yyyy)

Print Name:

Mark A. Bridwell

Title:

Assistant Secretary

Worksheet – Summary of Onsite Water Resources and Project Impacts

A. Jurisdictional Wetlands (Existing Conditions)		Jurisdictional Wetlands (Proposed Impacts)			
Wetland Type	Size of wetland (acreage)	To be Impacted?	Acreage	Fill quantity (cys)	ATF
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO	PLEASE SEE TABLE	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			

Describe the type and composition of fill material to be placed in wetlands on the project site:

Compacted clay loam soil

Describe the type and composition and quantity (*cubic yards*) of material proposed to be dredged or excavated from wetlands on the project site:

Topsoil and clay loam

B. Isolated Wetlands (Existing Conditions)		Isolated Wetlands (Proposed Impacts)				
Wetland Class	Type	Size of wetland (acreage)	To be Impacted?	Acreage	Fill quantity (cys)	ATF
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			

Describe the type and composition of fill material to be placed in isolated wetlands on the project site:

Describe the type and composition and quantity (*cubic yards*) of material proposed to be dredged or excavated from isolated wetlands on the project site:

C. Bridges and Stream Crossings - provide the following information for EACH structure (Use additional sheet(s) if required.)

Stream name

Unnamed intermittent and ephemeral tributaries to Quack Branch

Description of impacts

278 lineal feet of channel are being encapsulated. 157 lineal feet are being dredged and 1,902 lineal feet filled for roads, utilities, lots, stormwater basins, etc.) Please see attached engineering exhibits from Stoepelwerth & Associates Engineering & Land Surveying for additional detail.

Length of upstream bank impacts:

Left side: 10

Right side: 10

Length of downstream bank impacts:

Left side: 10

Right side: 10

Bank protection fill placed below the Ordinary High Water Mark:

Volume per running foot: 0.5cys

Bank protection fill placed below the Ordinary High Water Mark:

Area of coverage: 0.25cys

D. Bank Stabilization – provide the following information for EACH segment (Use additional sheet(s) if required.)

Water body name Unnamed tributaries to Quack Branch
Description of impacts Erosion control via limestone rip-rap placement (approximately 29 cubic yards) at pipe inverts and banks.
Length of shoreline or bank protection 300 +/-
Volume (<i>cubic yards</i>) of bank protection fill placed below the Ordinary High Water Mark per running foot 0.10 +/-
Area (<i>square feet</i>) of bank protection fill placed below the Ordinary High Water Mark 1,200 +/-

E. Stream Relocation

Water body name Unnamed ephemeral channels	
Description of impacts There is 8,591 lineal feet of channels on this site, 2,059 lineal feet are to be impacted for purpose of stormwater basins, roads, lots, utilities, etc. 278 feet will be encapsulated, 157 feet will be dredged and 1,902 feet filled.	
Length of existing channel to be relocated (<i>linear feet</i>) All 2,059 feet of channel impacts + 20% temporal loss will be mitigated to the IDNR In-lieu fee Program.	
Length of new channel to be constructed (<i>linear feet</i>)	
Existing channel to be backfilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type of relocation <input type="checkbox"/> Piping <input checked="" type="checkbox"/> Open <input type="checkbox"/> Channel <input type="checkbox"/> Other: <u>To IDNR In-lieu Fee</u>
Type of fill and volume (<i>cubic yards</i>) Compacted clay loam 2,826 +/- cubic yards.	

F. Open Water Fill

Water body name Unnamed tributaries to Quack Brach
Description of impacts None
Area of water body to be filled (<i>acres</i>) 0
Type of fill and volume (<i>cubic yards</i>) None

U.S. Army Corps of Engineers (USACE)
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -
OMB No. 0710-0003
Expires: 02-28-2022

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dcd-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE EMAIL.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: <http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx>

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
--------------------	----------------------	------------------	------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Mark Middle - A Last - Bridwell Company - D.R. Horton E-mail Address - mabridwell@drhorton.com	8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Ron Middle - L Last - Dixon Company - Ron L. Dixon, Natural Resource Consulting, Inc. E-mail Address - naturalresourceconsulting@gmail.com
--	---

6. APPLICANT'S ADDRESS: Address- 9210 North Meridian Street City - Indianapolis State - IN Zip - 46220 Country - US	9. AGENT'S ADDRESS: Address- 7719 Knapp Road City - Indianapolis State - IN Zip - 46259 Country - US
--	---

7. APPLICANT'S PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax (317) 754-6957	10. AGENTS PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax (317) 862-7446
--	--

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Ron L. Dixon to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.


SIGNATURE OF APPLICANT

1/11/23
DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)
Parks at Decatur

13. NAME OF WATERBODY, IF KNOWN (if applicable)
Unnamed Empeherals draining to Quack Branch

14. PROJECT STREET ADDRESS (if applicable)
Address

15. LOCATION OF PROJECT

Latitude: +N 39.6334 Longitude: +W -86.2919

City - State - Zip -

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)

State Tax Parcel ID Municipality Decatur Township
Section - 22 Township - 14N Range - 2E

17. DIRECTIONS TO THE SITE

Site is located West of Paddock Road between Ralston Road to the North and County Line Road to the South.

18. Nature of Activity (Description of project, include all features)

This will involve necessary road, utility installations, stormwater features, house pads, green space including a new 28 acre park. Some unavoidable impacts to non-forested wetlands and small channels are necessary to adequately construct this project.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

This is a single family residential subdivision on a 160+/- acre farm. Typical infrastructure will be necessary. The project also involves the creation of a new 28 park by preserving a large wooded intermittent stream corridor and adjoining upland.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Unavoidable impacts to 2.70 acres of emergent wetlands and 2,059 lineal feet of channel are necessary for road crossings, utilities, stormwater basins and for an adequate number of houses to support the needs of the infrastructure and township support services (fire, police, etc.).

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
Clay loam 14,000 +/- cys wetland & channel		

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres 2.70 acres of emergent wetland
or
Linear Feet 2,059 lineal feet of channel

23. Description of Avoidance, Minimization, and Compensation (see instructions)

2.6 acres of non-forested wetland and 6,532 lineal feet of channel are being avoided. The highest quality riparian forested corridor on the site is being avoided and designated as a new 28 acre city park. Mitigation is proposed to go to the IDNR In-lieu fee Program. Please see attached exhibits showing more specific mitigation ratios, acreages, and cost.

24. Is Any Portion of the Work Already Complete? Yes No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list)

a. Address- PLEASE SEE ATTACHED

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-


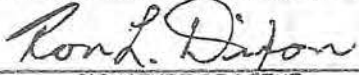
City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT DATE SIGNATURE OF AGENT DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

64-42FC
Fields Real Property LLC
13721 N Paddock Rd
Camby, IN 46113

64-42FC
Georgia M Poliskie
44 Sea Island Dr
Newport Beack, CA 92660

64-42FC
Dalton R George Jr
8735 Paddock Rd
Camby, IN 46113

64-42FC
William Ray & Rosemarie Trimmell
8621 Paddock Rd
Camby, IN 46113

64-42FC
Crow Wing Farms LLC
20421 County Road 223
Union Star, MO 64494

64-42FC
The Enclave at Heartland LLC
6330 E 75th St, Suite 156
Indianapolis, IN 46240

64-42FC
Jennifer M Finnegan
8955 Paddock Rd
Camby, IN 46113

64-42FC
Christine & Michael Dunkle
8825 Paddock Rd
Camby, IN 46113

64-42FC
Kellie Stocking
8705 Paddock Rd
Camby, IN 46113

64-42FC
Brett Teike
8545 Paddock Rd
Camby, IN 46113

64-42FC
Wanda C Allender
7802 W County Line Rd
Camby, IN 46113

64-42FC
Heartland Crossing Foundation Inc
8914 Belle Union Dr
Camby, IN 46113

64-42FC
Brad & Alyx E Ricke
8900 Paddock Rd
Camby, IN 46113

64-42FC
Euel B & Joyce L Wilmoth
8809 Paddock Rd
Camby, IN 46113

64-42FC
Charles L & Kathy S Christoph
8641 Paddock Rd
Camby, IN 46113

64-42FC
Dennis C & Bonnie Ison
7219 W Ralston Rd
Indianapolis, IN 46221

64-42FC
Timbercreek Investments LLC
3701 W Smokey Row Rd
Bargersville, IN 46106

64-42FC
Cedar Run Limited Inc
P.O. Box 900
Plainfield, IN 46168

CITY OF INDIANAPOLIS
 DEPARTMENT OF BUSINESS & NEIGHBORHOOD SERVICES
STORMWATER DRAINAGE PERMIT
 1200 MADISON AVE. STE 100, INDIANAPOLIS, IN 46225
 PHONE: (317) 327-8700
 www.indy.gov

Permit No.: **DRN21-03344**

Issued: **05/11/2022**

Location: **7610 W COUNTY LINE RD**

Expired: **5/11/2023**

Contractor

Design Firm

Keith Gilson
 Stoepelwerth & Associates, Inc.
 7965 East 106th Street
 Fishers, IN 46038
 3175704702

Owner

Dr Horton - Indiana Llc.
 9210 N. Meridian St.
 Indianapolis, IN 46260

Applicant

Keith Gilson
 Stoepelwerth & Associates, Inc.
 7965 East 106th Street
 Fishers, IN 46038
 3175704702

PROJECT DESCRIPTION: **Proposed 83 lot subdivision, section one of five contiguous sites**

Site Information

City Contact: **Charles Applewhite** Total Acres: 61.162
 Proposed Use: Sq Ft of Disturbed Area: 2221516.44
 Project: **Parks at Decatur, Section-I** Proposed Sq Ft of Impervious:
 Permit Type: **LAND OR WATERCOURSE ALTERATION** Rule 5 Permit Required: Yes

Erosion Control Measures

Blankets:	Yes	Silt Fence:	Yes
Inlet Protection:	Yes	Straw Bales:	No
Rip Rap:	Yes	Vegetation:	Yes
Silt Basin/Trap:	No		

System Data

Main Material	Sewer Length	Diameter
REINFORCED	1359	18
REINFORCED	1462	15
REINFORCED	157	24
REINFORCED	212	21
REINFORCED	238	30
REINFORCED	3387	12

FEES

Application Fee	\$32.00
Regular Drainage Review - Initial	\$514.00
Regular Drainage Review - Hourly	\$1,391.50

Total Due: \$1,937.50
Balance: \$0.00

CONDITION(S):

1. TO REQUEST AN INSPECTION, CALL (317) 327-5525.

[HTTP://WWW.INDY.GOV/PERMITS](http://www.indy.gov/permits)

- All applicable erosion control measures must be installed prior to any land disturbance activities taking place and must be maintained until all disturbed areas have been adequately stabilized.
- Contractor is required to schedule and attend a pre-construction meeting prior to beginning any land alteration activities

MEMORANDUM

To: Greg Bruzas & Tess Cutshaw, Tri County Conservancy District (TCCD)

From: Amy R. Moore, PE

Date: March 28, 2022

Re: Parks @ Decatur, Section 1 Development Review

CC: Keith Gilson, Project Manager – Stoeppelwerth & Associates, Inc.

Revised plans for the Parks at Decatur, Section 1 were received on March 2, 2022. D.R. Horton – Indiana, LLC is proposing a new residential subdivision north of County Line Road and West of Paddock Road. Approximately 62 acres is proposed to be developed for Section One, including 83 residential lots, and an existing facility to be used for a future Parks location. A sanitary sewer collection system including gravity sewers, a submersible lift station and force main are planned to discharge to and be dedicated to the Tri County Conservancy District sanitary sewer system.

The plans propose to construct ,1299 linear feet of 8" PVC SDR-35 sewer and 3916 linear feet of 8" PVC SDR-26 sewer to serve Section One. In addition, the Lift Station and 4259 linear feet of 8" PVC ASTM D2241 SDR 21 force main is to be installed using open cut methods and 3378 linear feet of HDPE AWWA C906 DR 11 force main to be installed via direction drilling will convey flows from the lift station to the current Tri County Conservancy District sanitary sewer system at a manhole located just east of Heartland Boulevard on the south side of County Line Road.

Review:

Our review of the documents submitted resulted in the following comments:

1. Buoyancy calculations were provided indicating that with planned base extensions, structures have adequate safety factor against floatation.
2. A revised IDEM Application was submitted with corrections requested. Plans were modified to match the pipe lengths noted. We recommend that the TCCD issue the attached Capacity Allocation Letter for the Developer's submittal to IDEM with their permit application.
3. Other plan modifications requested in our previous review have been completed including granular backfill, outside drop manhole at force main discharge, elimination of drop at wet well, air release valve setting and structure and pump motor requirements.

We recommend that the TCCD release the development for construction upon receipt of required fees and documents. If you have any questions about the above, please contact me at amoore@vsengineering.com or 317-293-3542 ext 118.

CAPACITY CERTIFICATION

This form must be filled-out in its entirety with no alterations.

Name of Applicant: DR Horton - Indiana LLC
Name of Applicant Representative: Mark Bridwell
Name of Project: Parks at Decatur, Section 1

CERTIFICATION

I, _____, representing the Tri-County Conservancy District, in my capacity as
(Name of individual) *(Name of municipality or utility)*

_____ have the authority to act on behalf of the Tri-County Conservancy District
(Title) *(Name of municipality or utility)*

certify that I have reviewed and understand the requirements of 327 IAC 3 and that the sanitary collection system proposed, with the submission of this application, plans and specifications, meets all requirements of 327 IAC 3. I certify that the daily flow generated in the area that will be collected by the project system will not cause overflowing or bypassing in the collection system other than NPDES authorized discharge points and that there is sufficient capacity in the receiving water pollution treatment/control facility to treat the additional daily flow and remain in compliance with applicable NPDES permit effluent limitations. I certify that the proposed average flow will not result in hydraulic or organic overload. I certify that the proposed collection system does not include new combined sewers or a combined sewer extension to existing combined sewers. I certify that the ability for this collection system to comply with 327 IAC 3 is not contingent on water pollution/control facility construction that has not been completed and put into operation. I certify that the project meets all local rules or laws, regulations and ordinances. The information submitted is true, accurate, and complete, to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Average Design Flow (<i>gallons per day</i>)	26,040
Peak Design Flow (<i>gallons per day</i>)	104,160
Owner of Receiving Collection System	Tri County Conservancy District
Name of Wastewater Treatment Plant	Citizens Energy Group - Southport Plant
Mailing Address of Certifying Representative <i>(number and street, city, state, and ZIP code)</i>	E-mail Address of Certifying Representative
I am certifying for the <input checked="" type="checkbox"/> Collection System <input checked="" type="checkbox"/> Treatment Facility	
Signature	Date Signed (<i>month / day / year</i>) / /

(Please refer to IC 13-30-10 for penalties of submission of false information.)

May 6, 2022



Mr. Michael B. Leavitt, PE
Ms. Julie Petree
DLZ INDIANA, LLC.
36 S. Pennsylvania St., Ste. 360
Indianapolis IN. 46204

Re: Notice to Proceed

Parks at Decatur, Section-I
7610 County Line Rd.
DRN21-03344
STC21-00057

Dear Michael B. Leavitt, Ms. Petree;

This letter shall serve as the NOTICE TO PROCEED for inspection services of the Parks at Decatur Section 1 subdivision, 7610 County Line Rd., development project for the drainage improvements and street construction portions of the project. Please provide inspection services for existing and new stormwater structures and street construction activates at this site. The pre-construction meeting was (will be) held virtually on May 6, 2022 at 2:00pm EST. If you have any questions, please contact me at (317) 327 3667.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles D. Applewhite".

Charles D. Applewhite
Project Compliance Analyst
City of Indianapolis
Department of Business & Neighborhood Services

Appendix 1 - REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

To: District Name Here

I am requesting a JD on property located at: N/A
(Street Address)
City/Township/Parish: Decatur County: Marion State: IN
Acreage of Parcel/Review Area for JD: 90
Section: 22 Township: 14N Range: 2E
Latitude (decimal degrees): 39.6334°N Longitude (decimal degrees): -86.2919°W
(For linear projects, please include the center point of the proposed alignment.)

- Please attach a survey/plat map and vicinity map identifying location and review area for the JD.
- I currently own this property. I plan to purchase this property.
- I am an agent/consultant acting on behalf of the requestor.
- Other (please explain): _____.
- Reason for request: (check as many as applicable)
 - I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.
 - I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
 - I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
 - I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.
 - I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.
 - A Corps JD is required in order to obtain my local/state authorization.
 - I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
 - I believe that the site may be comprised entirely of dry land.
 - Other: _____
- Type of determination being requested:
 - I am requesting an approved JD.
 - I am requesting a preliminary JD.
 - I am requesting a "no permit required" letter as I believe my proposed activity is not regulated.
 - I am unclear as to which JD I would like to request and require additional information to inform my decision.

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that you possess the requisite property rights to request a JD on the subject property.

*Signature: John Dixon Digitally signed by John Dixon
Date: 2022.08.03 14:14:36 -0400 Date: 8/3/2022

• Typed or printed name: John Dixon
Company name: Ron L. Dixon, Natural Resource Consulting, Inc.
Address: 7719 Knapp Road
Indianapolis, Indiana 46259
Daytime phone no.: (317) 862-7446
Email address: john@ronldixon.com

***Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.
Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.
Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.
Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

Request for CWA Section 401 Certification – ‘Parks at Decatur’

- 1.** D.R. Horton, Mark Bridwell, (Ron Dixon, Agent)
- 2.** ‘Parks at Decatur’ residential subdivision in Indianapolis, Indiana
- 3.** CWA Section 404, CWA Section 401 WQC
- 4.** There are 8,591 lineal feet of Intermittent and ephemeral channels flowing from west to east along the central and northern portions of the property. 1,900 lineal feet (LF) of these channels are proposed to be filled, of which 278 LF of that is encapsulated and an additional 157LF dredged for the construction of housing pads, road crossings, utilities, and stormwater basins. All but 159 LF are ephemeral channel impacts. Typical land grading activities for the creation of housing pads and infrastructure will occur throughout the site. The channels flow under Paddock Road to Quack Branch east of the site.
- 5.** Best practices for erosion control will be implemented (i.e., silt fences, rock chutes, etc.).
- 6.** CWA Section 401 WQC (Indiana Department of Environmental Management)
- 7.** A Pre-File request was previously submitted in December of 2021 as was two other permit applications in 1/2022 and 7/2022.
- 8.** The project proponent hereby certifies that all information contained herein is true, accurate and complete to the best of my knowledge and belief.
- 9.** The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.



Date: 07/27/2022

To: Ms. Eva Boyd, Wetlands Project Manager
IDEM Office of Water Quality
100 N. Senate Avenue, Rm. 1255
Indianapolis, Indiana 46204

Re: Signed statement per IAC 327 17-4-3-(9)

Dear Ms. Boyd:

I certify under penalty of law that this document and all attachments were prepared under my direct or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. 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.

Mark Allan Bridwell
Division Vice President, Land Development
D.R. Horton

AMERICA'S #1 HOMEBUILDER SINCE 2002

9210 N. Meridian Street • Indianapolis, Indiana 46260 • O 317.740.3900 • drhorton.com

D.R. Horton is an Equal Housing Opportunity Builder.



Figure 7. Approximate wetland and bed and bank channel locations – north tract.



Figure 6. Approximate wetland and bed and bank channel locations – south tract.

Parks at Decatur Wetland Table Revised

January, 2023

Wetland	Size (acres +/-)	Type	Impacted	ATF	Proposed Acreage Impacted (acres +/-)	Fill Quantity (cys +/-)
A	0.68	PEM	Yes	Yes	0.68 (0.15 ATF)	951.87
B	0.17	PSS	Yes	Yes	(0.02 ATF)	10
C	0.11	PSS	No	No	0.00	0.00
D	0.04	PEM	Yes	Yes	(0.01 ATF)	6
E	0.30	PSS	No	No	0.00	0.00
F	0.98	PSS	Yes	No	0.85	4,114.00
G	0.52	PEM	Yes	No	0.59	2,516.80
H	0.03	PEM	Yes	No	0.03	145.20
I	0.33	PSS	Yes	Yes	(0.09 ATF)	193.60
J	2.00	PEM	Yes	No	0.67	3,242.80
K	0.14	PEM	No	No	0.00	0.00

Total Wetlands: 5.30 acres (3.41 acres PEM, 1.89 acres PSS)

Total Wetlands Impacted: 2.70 acres (1.81 acres PEM, 0.89 acres PSS)

Total Fill Quantity (cys): 11,131.87 cys

Total Wetlands Avoided: 2.60 acres (1.60 acres PEM, 1.00 acres PSS)

Note: 0.15 +/- acres of Wetland A are being mitigated after-the-fact to IDNR along with the 0.53 remaining acreage of Wetland A.

Minor impacts to Wetlands B, D, and I, along with the farm machinery crossing, and the 500 sq/ft sewer connection near lift station at Paddock Road are all being restored after-the-fact once permits have been issued.

Parks at Decatur Stream Table Revised

January, 2023

Channel Unit	Flow Regime	Length (LF)	Proposed Impacted (LF)	Proposed Encapsulated (LF)	Proposed Fill (LF)
1	Intermittent	3,749	159	147	12
2	Ephemeral	206	0	0	0
3	Ephemeral	486	0	0	0
4	Ephemeral	423	(341 ATF)	0	341
5	Ephemeral	1,529	479	131	348
6	Ephemeral	119	0	0	0
7	Ephemeral	2,376	1,080	0	1,080

Total Stream Length (Lineal Feet): 8,591, (3,749 Intermittent, 4,842 Ephemeral)

Total Stream Impacts (Lineal Feet): 2,059

Total Encapsulation (Lineal Feet): 278

Total Fill (Lineal Feet): 1,781

Note: 341 lineal feet of Channel Unit 4 are proposed to be mitigated after-the-fact.

Parks at Decatur

Unapproved Work Within Regulated Waters

Temporary Impacts to be Restored:

Wetland B: Approximately 1,000 square feet (0.02 ac +/-) of topsoil placement into emergent wetland related to rough-in of park nature trail.

Wetland C (Borderline Impact): Approximately 300 sq/ft of disturbance of borderline emergent wetland for purpose of installing footbridge pilings.

Wetland D: Approximately 600 square feet (0.01 ac. +/-) of topsoil placement into emergent wetland related to rough-in of park nature trail.

Stream Unit #1: Approximately 500 square feet (0.01 ac. +/-) of channel disturbance for connecting a sanitary sewer line to the property.

Farm Machinery Crossing: Approximately 800 square feet (0.02 ac. +/-) of cut and fill for purpose of widening channel crossing for accommodating extra width of excavating machinery to access north half of property.

Permanent Impacts to Be Mitigated:

Wetland A: Fill placed within 0.15 acres of a 0.68 acre emergent wetland for purpose of installing sanitary and storm water sewer lines along edge of new street. To be mitigated after-the-fact to the IDNR IN-lieu fee program.

Stream Unit #4: 341 lineal feet of a 423 foot ephemeral channel accidentally filled too early for purpose of a cul-de-sac street and house pads. To be mitigated after-the-fact to the IDNR In-lieu fee program.

Parks at Decatur

Proposed Restoration

Wetlands B & D:

Remove the soil that was pushed into the edge of the wetland into a non-wetland area. Restore natural grade and then broadcast Spence Nursery Forested Wetland Seed Mixture and straw mulch.

Borderline/Foot Bridge Wetland C:

Finish grade and broadcast Spence Nursery Forested Wetland Seed Mixture and straw mulch after foot bridge construction is completed.

Farm Machinery Crossing:

Retain existing rock erosion control check dam in place until crossing is no longer needed. Then, remove rock check dam and restore natural grade of channel removing any accumulated sediment to an upland area. Regrade the slopes on all sides and seed with Spence Nursery Forested Wetland Seed Mixture and straw mulch. The existing pool at the crossing can be left as an in-stream aquatic pool and wildlife watering hole.

Wetland I:

Finish grade and broadcast Spence Nursery Wet Mesic Prairie Seed mixture and straw mulch.

Sewer Crossing Stream Unit #1:

Finish Grade and broadcast Spence Nursery Forested Wetland Seed Mixture and straw mulch in and along channel.

Forested Wetland Seed Mix

Grasses and Sedges

PLS oz/acre

- 2 Carex frankii (Frank's Sedge)
- 1 Carex granularis (Meadow Sedge)
- 2.5 Carex grayi (Burr Sedge)
- 2 Carex lupulina (Common Hop Sedge)
- 1 Carex muskingumensis (Palm Sedge)
- 0.5 Carex normalis (Spreading Oval Sedge)
- 1 Carex tribuloides (Pointed Oval Sedge)
- 2 Carex vulpinoidea (Fox Sedge)
- 2 Elymus hystrix (Bottlebrush Grass)
- 16 Elymus riparius (Riverbank Wild Rye)
- 64 Elymus virginicus (Virginia Wild Rye)
- 2 Glyceria striata (Fowl Manna Grass)
- 96

Forbs

PLS oz/acre

- 2 Actinomeris alternifolia (Wingstem)
- 0.5 Blephilia hirsuta (Hairy Wood Mint)
- 3.5 Helenium autumnale (Autumn Sneezeweed)
- 2 Heliopsis helianthoides (False Sunflower)
- 0.5 Lobelia siphilitica (Great Blue Lobelia)
- 1 Lycopus americanus (Water Horehound)
- 0.5 Mimulus ringens (Monkey Flower)
- 1 Penstemon calycosus (Smooth Penstemon)
- 1 Rudbeckia laciniata (Green-Headed Coneflower)
- 3 Silphium perfoliatum (Cupplant)
- 1.5 Solidago gigantea (Late Goldenrod)
- 2 Symphyotrichum lanceolatum (Panicled Aster)
- 2 Symphyotrichum lateriflorum (Side-Flowering Aster)
- 1 Symphyotrichum puniceum (Swamp Aster)
- 0.5 Veronicastrum virginicum (Culver's Root)
- 2 Zizia aurea (Golden Alexanders)
- 24

Wet Mesic Prairie Mix

Grasses and Sedges

PLS oz/acre

- 16 Andropogon gerardii (Big Bluestem)
- 2 Carex annectans xanthocarpa (Yellow Fox Sedge)
- 2 Carex frankii (Frank's Sedge)
- 6 Carex vulpinoidea (Fox Sedge)
- 32 Elymus canadensis (Canada Wild Rye)
- 32 Elymus virginicus (Virginia Wild Rye)
- 2 Glyceria striata (Fowl Manna Grass)
- 4 Panicum virgatum (Switchgrass)
- 16 Sorghastrum nutans (Indian Grass)
- 112

Forbs

PLS oz/acre

- 1 Asclepias syriaca (Common Milkweed)
- 1 Baptisia alba (White False Indigo)
- 3 Coreopsis tripteris (Tall Coreopsis)
- 3 Echinacea purpurea (Purple Coneflower)
- 2 Eryngium yuccifolium (Rattlesnake Master)
- 0.5 Euthamia graminifolia (Grass-Leaved Goldenrod)
- 1 Helianthus grosseserratus (Sawtooth Sunflower)
- 4 Heliopsis helianthoides (False Sunflower)
- 2 Liatris spicata (Dense Blazing Star)
- 0.5 Monarda fistulosa (Bergamot)
- 1 Oligoneuron riddellii (Riddell's Goldenrod)
- 2 Oligoneuron rigidum (Stiff Goldenrod)
- 0.5 Penstemon digitalis (Foxglove Beardtongue)
- 0.5 Pycnanthemum virginianum (Mountain Mint)
- 4 Ratibida pinnata (Yellow Coneflower)
- 3 Rudbeckia fulgida speciosa (Showy Black-Eyed Susan)
- 3 Rudbeckia hirta (Black-Eyed Susan)
- 3 Rudbeckia subtomentosa (Sweet Black-Eyed Susan)
- 3 Senna hebecarpa (Wild Senna)
- 2 Silphium integrifolium (Rosinweed)
- 4 Silphium terebinthinaceum (Prairie Dock)
- 0.5 Symphyotrichum firmum (Shining Aster)
- 1 Symphyotrichum novae-angliae (New England Aster)
- 2 Vernonia fasciculata (Smooth Ironweed)
- 0.5 Veronicastrum virginicum (Culver's Root)
- 48

Parks at Decatur

Proposed Wetland Mitigation:

There is a total of 2.70 +/- acres of proposed wetland impacts

1.81 acres are emergent wetland (PEM) and 0.89 acre is scrub shrub wetland (PSS). However, the surface area of ephemeral channels flowing through these wetlands amount to approximately 0.15 acres. The ephemeral channels will be separated from the wetlands and mitigated at a 1:1 ratio per liner foot (see proposed stream mitigation below). The 0.15 acres of ephemeral surface area will then be deducted out of the wetland acreage equally for PEM and PSS. Thus 1.81 of PEM will be reduced to 1.735 acres of PEM and 0.89 acre of PSS will be reduced to 0.815 acre of PSS.

Proposed Wetland Mitigation to IDNR In-lieu Fee Program:

- 1.735 acres of PEM @ 2:1 replacement ratio = 3.47 acres
- 0.815 acre of PSS @ 3:1 replacement ratio = 2.445 acres
- + 20% Federal Temporal Loss Requirement = Total: **7.098 acres**

Proposed Stream Mitigation:

There is a total of 2,059 lineal feet of stream impacts. 159 lineal feet is intermittent channel impacts, the remaining 1,900 feet is ephemeral impacts.

Proposed Stream Mitigation to IDNR In-lieu Fee Program:

- 2,059' @ 1:1 replacement ratio = 2,059' x 20% = Total: **2,471 lineal feet**

Estimated Mitigation Cost:

- 7.098 acres of wetland @ \$80,000.00 per acre = \$567,840.00
- 2,471 lineal feet of stream @ \$450.00 per foot = \$1,111,950.00

Total Mitigation Cost: \$1,679,790.00

Alternative Analysis

Parks at Decatur Residential Subdivision – Indianapolis, Indiana

1. Basic Project Purpose

Parks at Decatur, a 160 +/- acre subdivision, involves the development of a new single-family residential subdivision by D.R. Horton Homes, along with the typical required infrastructure of roads, house pads, utilities, storm water features, trails, greenspace areas, including 28+ acres being set aside for a new park (hence the name of this subdivision).

2. Overall Project Purpose and Need

The overall purpose of Parks at Decatur is to create a new single-family residential subdivision in southwestern Marion County, Indiana, to help meet the demand for new housing in Indianapolis and the surrounding metropolitan areas. Sewer, water, and other necessary utilities are present at this site to support residential housing. Numerous other recent subdivisions have and/or are being developed in this area as part of the Indianapolis Comprehensive Land Development Plan.

The site is a large row crop farm bisected by numerous (7) wooded and herbaceous corridors parallel to small intermittent and ephemeral stream channels totaling approximately 8,591 lineal feet. Along these channels we delineated 11 wetlands totaling approximately 5.30 acres. The central flowage west to east location of these natural drainageways required some unavoidable impacts to support the infrastructure of this subdivision. However, our land development team worked closely together to minimize our impacts to less than 2,059 feet of channel and 2.70 acres of wetland. 159 lineal feet are for the crossing of an intermittent channel (Channel Unit #1). The remaining 1,900 lineal feet are ephemeral channel impacts. Nearly all of the higher quality intermittent riparian wooded corridor is being avoided and preserved into a new 28 acre park.

3. Special Aquatic Sites

No special aquatic sites observed or recorded by the IDNR (IDNR Letter enclosed)

4. Practical Alternatives

Alternative 1: Total avoidance of all wetlands requiring no action.

This alternative is determined not to be practical due to requirements and limitations listed above, which make it necessary to balance out a required number of housing units to provide the necessary tax base required to accommodate the essential municipal services of fire, police, roads, parks, other public works, etc.

Alternative 2: Locate another property.

This alternative is also not feasible, as this location is in a prime area for residential housing due to the presence of sanitary sewers, city water, and other necessary utilities.

Alternative 3: Full development of the site.

The engineering and environmental land development team understood from the beginning the need to minimize wetland and stream impacts. Therefore, full development of the site was never considered as a possibility.

Alternative 4: Submitted minimized development plan

The submitted plan, given the circumstances mentioned above, was felt to be the only feasible alternative. It is important to recognize that within this 160 +/- acre parcel, large areas are being set aside as natural areas with trails and green space including a new 28-acre park. The majority of the wetland and stream impacts are located in the ephemeral channels and low quality emergent wetlands of predominantly non-native cattail colonies in the north half of the site.

Division of Nature Preserves
402 W. Washington St., Rm W267
Indianapolis, IN 46204-2739

January 19, 2022

John Dixon
Ron L. Dixon, Natural Resource Consulting, Inc.
7719 Knapp Road
Indianapolis, IN 46259

Dear John Dixon:

I am responding to your request for information on the threatened or endangered (T&E) species, high quality natural communities, and natural areas for the Parks at Decatur Proposed Residential Development Project located within Marion County, Indiana. The Indiana Natural Heritage Data Center has been checked and there are no T&E species or significant areas documented within 0.5 mile of the project area.

If you need a general environmental review of the project from DNR, you can submit the project information to Christie Stanifer, DNR Environmental Coordinator, at environmentalreview@dnr.in.gov (preferred) or send to the street address below. For more help or guidance contact Christie Stanifer at cstanifer@dnr.in.gov.

Department of Natural Resources
Environmental Review
Division of Fish and Wildlife
402 W. Washington Street, Room W273
Indianapolis, IN 46204

The information I am providing does not preclude the requirement for further consultation with the U.S. Fish and Wildlife Service as required under Section 7 of the Endangered Species Act of 1973. If you have concerns about potential Endangered Species Act issues you should contact the Service at their Bloomington, Indiana office.

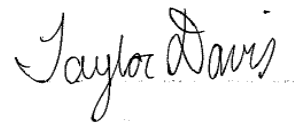
U.S. Fish and Wildlife Service
620 South Walker St.
Bloomington, Indiana 47403-2121
(812)334-4261

Please note that the Indiana Natural Heritage Data Center relies on the observations of many individuals for our data. In most cases, the information is not the result of comprehensive field surveys conducted at particular sites. Therefore, our statement that there are no documented significant natural features at a site should not be interpreted to mean that the site does not support special plants or animals.

Due to the dynamic nature and sensitivity of the data, this information should not be used for any project other than that for which it was originally intended. It may be necessary for you to request updated material from us in order to base your planning decisions on the most current information.

Thank you for contacting the Indiana Natural Heritage Data Center. You may reach me at (317)233-2558 you have any questions or need additional information.

Sincerely,

A handwritten signature in cursive script that reads "Taylor Davis". The signature is written in black ink on a white background.

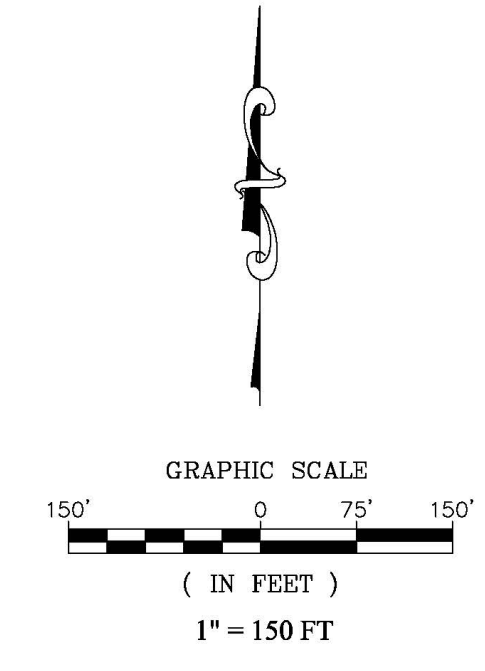
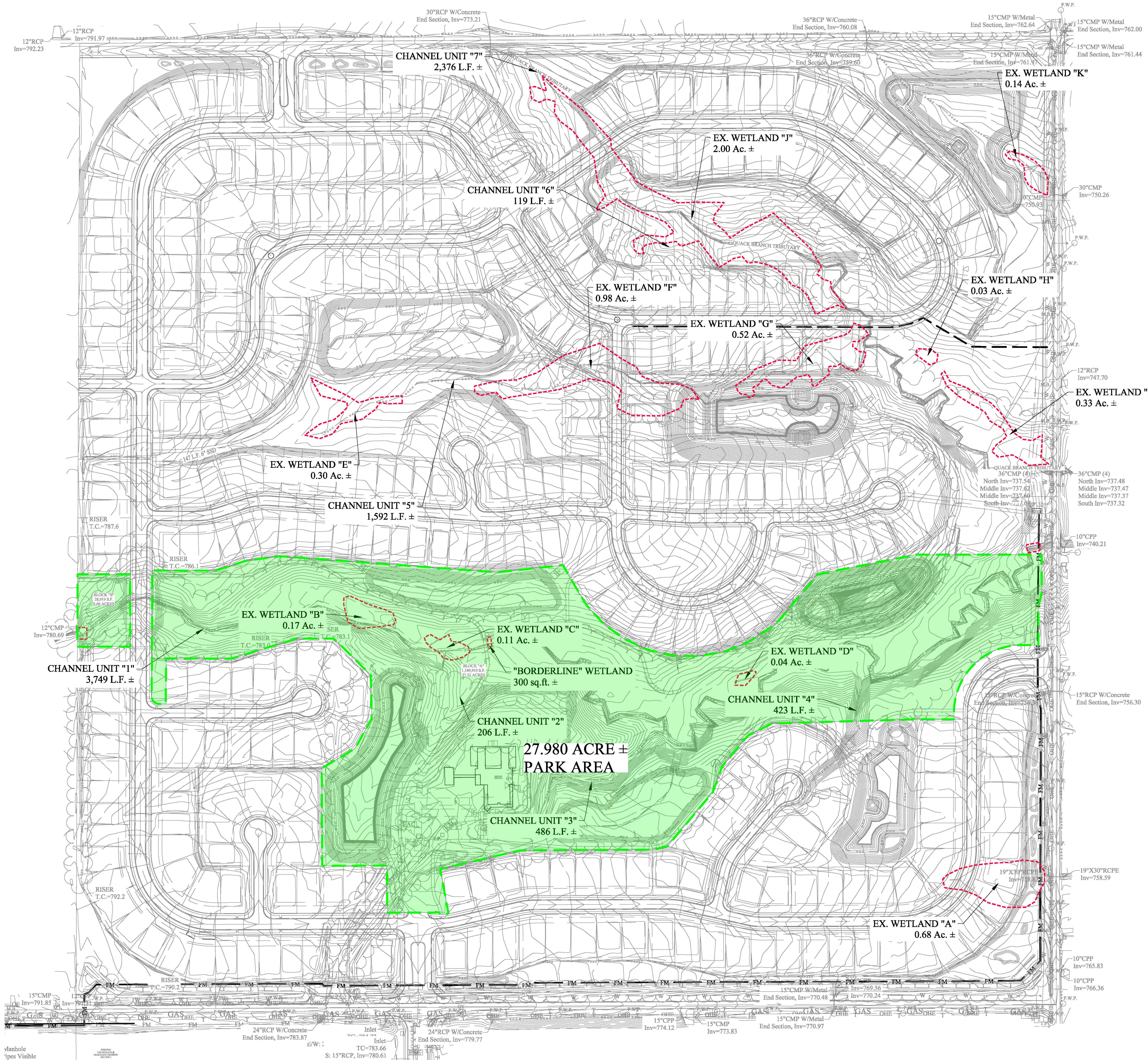
Taylor Davis
Indiana Natural Heritage Data Center

Enclosure: Invoice

STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR




THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR SURVEY OR A SURVEYOR LOCATION REPORT. CERTIFIED: 05/07/2021		
STOEPPELWERTH A L W A Y S O N 7965 East 106th Street, Fishers, IN 46038-2505 Phone: (317) 849-5935 Fax: (317) 849-5942		
PARK AREA EXHIBIT PARKS AT DECATUR SEC. 1 DECATUR TOWNSHIP MARION CO., INDIANA		
PREPARED FOR: GEM	TOWNSHIP: 14N	RANGE: 2E
DRAWN BY: KRG	CHECKED BY: KRG	
SHEET NO. 1 OF 1 SHEETS S & A JOB NO. 94720DRH		


STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
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 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

LEGEND

 TREES TO BE SAVED

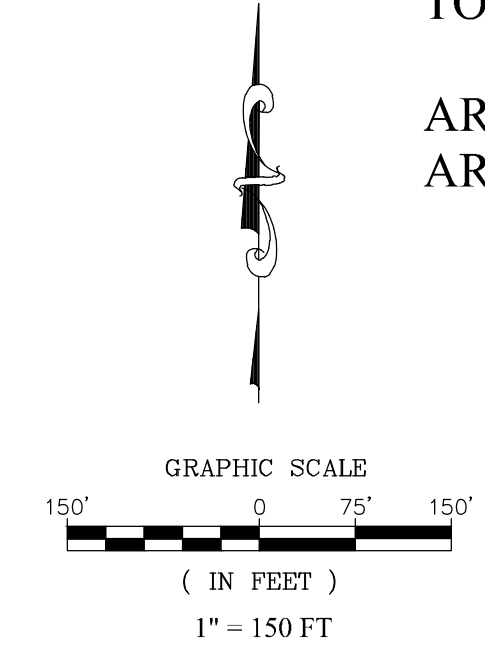
 TREES TO BE REMOVED

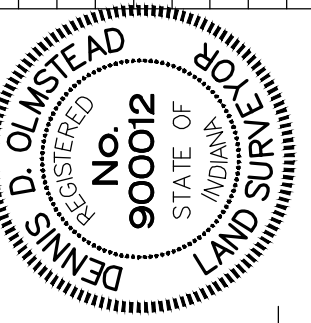


TOTAL AREA OF TREES = 28.82 Ac±

AREA TO SAVE = 17.80 Ac±

AREA TO REMOVE = 11.02 Ac±



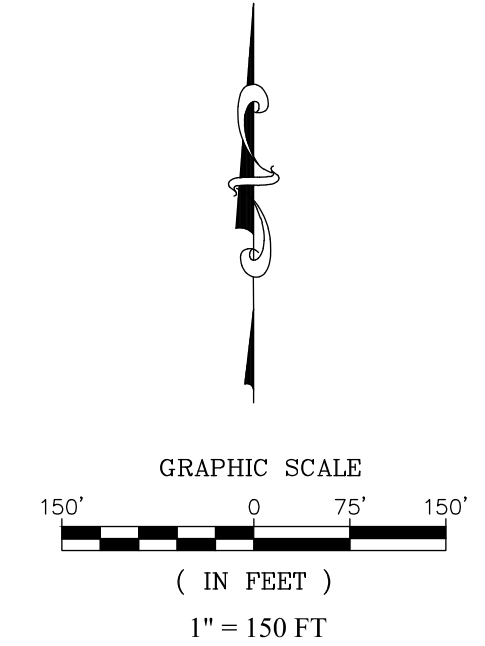
		
THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACTION OR A ROUTE REPORT. CERTIFIED: 09/14/2022		
<p>STOEPPELWERTH A L W A Y S O N 7965 East 106th Street, Fishers, IN 46038-2505 Phone: (317) 849-5935 Fax: (317) 849-5942</p>		
<p>WETLAND IMPACT EXHIBIT PREPARED FOR: PARKS AT DECATUR SEC. 1 DECATUR TOWNSHIP MARION CO., INDIANA</p>		
SECTION: 22	TOWNSHIP: 14N	RANGE: 2E
DRAWN BY: GEM	CHECKED BY: KRK	
SHEET NO. 1 OF 1 SHEETS S & A JOB NO. 94720DRH		
DATED: 09/14/22		

STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

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PARKS AT DECATUR

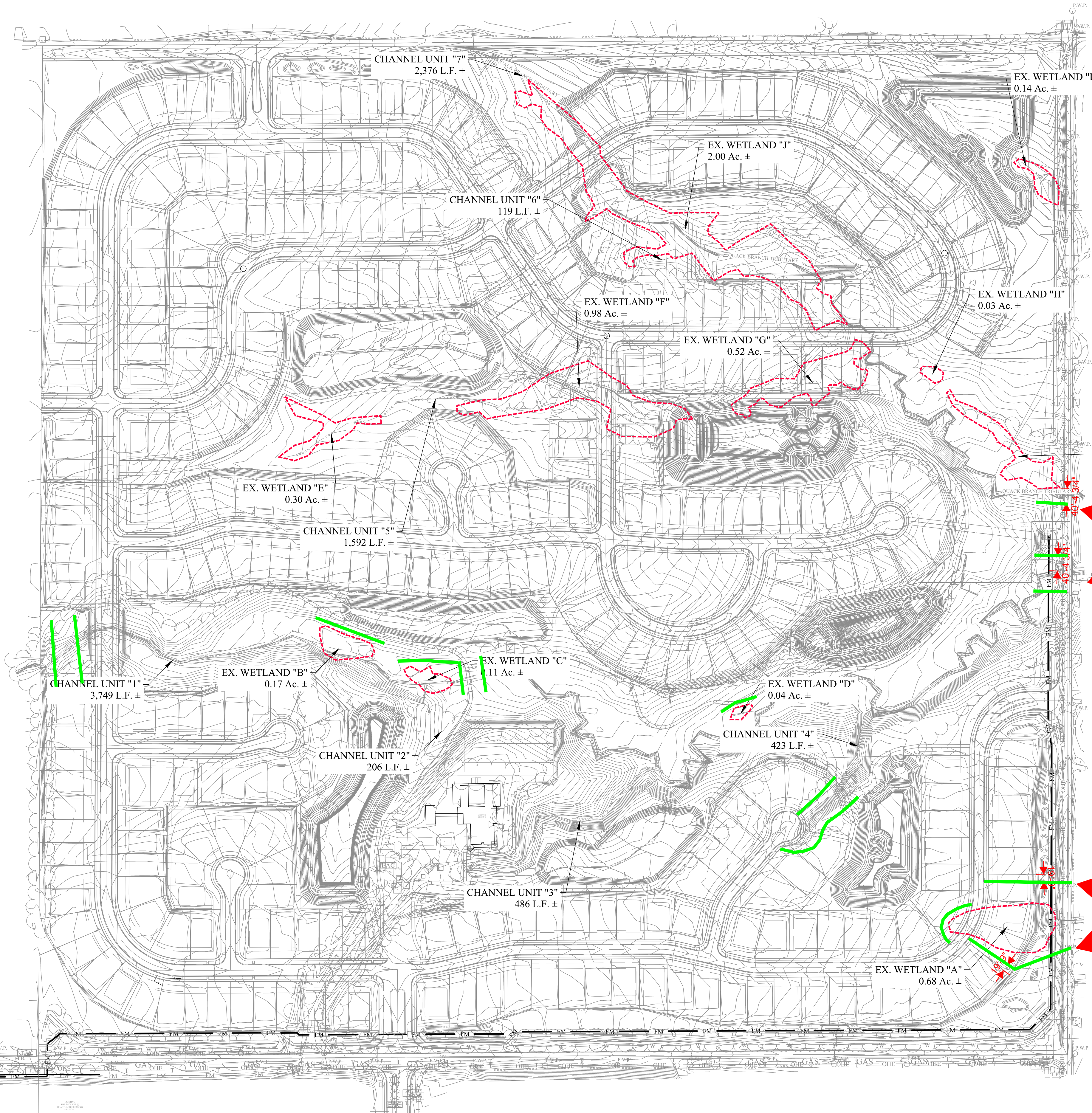
LEGEND
 WETLAND AREA



Legend:
 — = Snow Fence
 - - - = Wetlands Area

Snow Fence 40'
 From Ex Wetlands
 and Ex Creek

Snow Fence 20'
 From Lot Lines

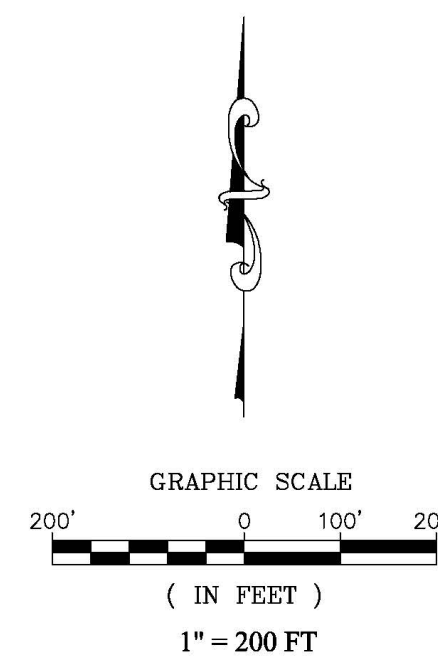


WETLAND IMPACT EXHIBIT PREPARED FOR: PARKS AT DECATUR SEC. 1 DECATUR TOWNSHIP MARION CO., INDIANA			SECTION: 22 TOWNSHIP: 14N RANGE: 2E DRAWN BY: GEM CHECKED BY: KRK SHEET NO: 1 OF 1 SHEETS S & A JOB NO: 94720DRH	THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACTION OR SUPPLEMENT TO AN ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY OR A SURVEY FOR LOCATION REPORT. CERTIFIED: STOEPPELWERTH A L L W A Y S O N 7965 East 106th Street, Fishers, IN 46038-2505 Phone: (317) 849-5935 Fax: (317) 849-5942	REVISIONS DATE BY
--	--	--	---	--	-------------------------

STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLNSTEAD
 7965 E. 106TH STREET
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PARKS AT DECATUR



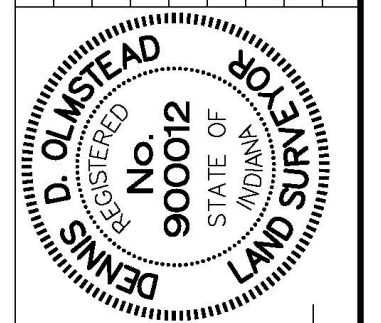
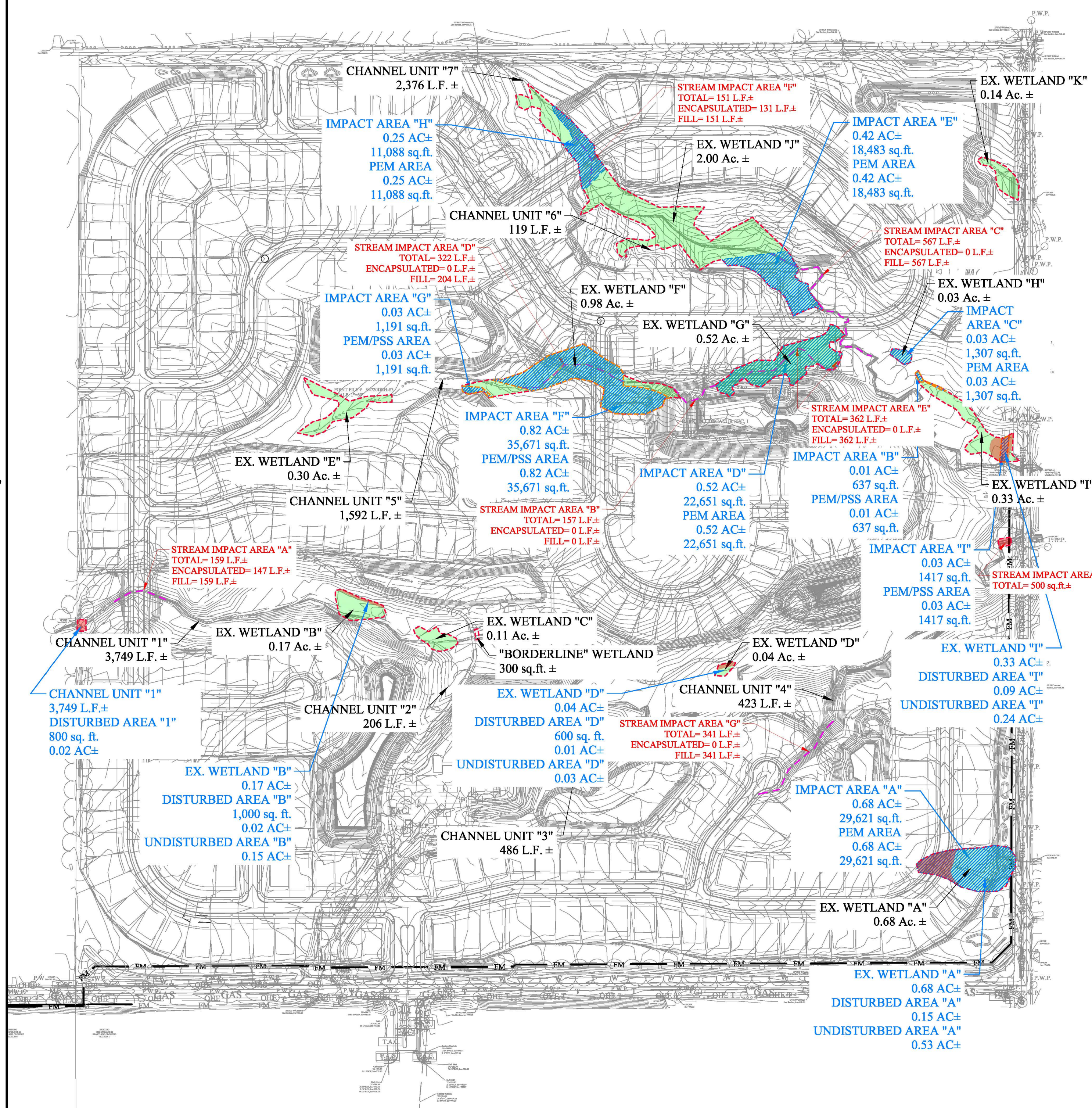
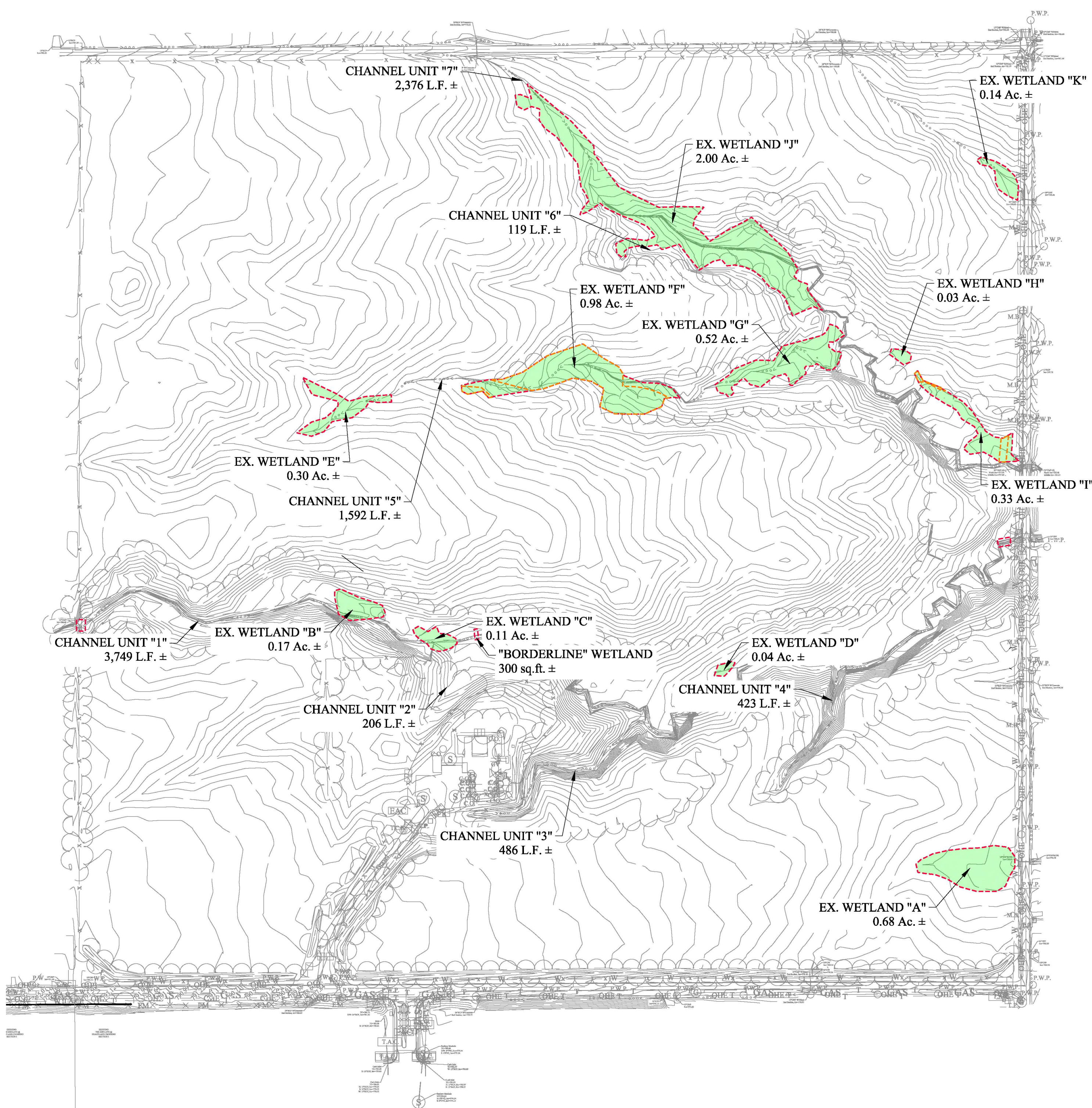
- LEGEND**
- WETLAND
 - IMPACTED AREA
 - DISTURBED AREA
 - PEM
 - PEM/PSS
 - STREAM IMPACT AREA

TOTAL IMPACT AREA = 2.70 Ac±

PEM AREA = 1.81 Ac±

PEM/PSS AREA = 0.89 Ac±

STREAM IMPACT AREA = 2,059 L.F.
 = 6,586 SQ.FT./ 0.15 Ac±



THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR SURVEY OR A SURVEYOR LOCATION REPORT.

CERTIFIED: 05/07/2021

STOEPPELWERTH
 A L L A Y S O N
 7965 East 106th Street, Fishers, IN 46038-2505
 Phone: (317) 849-5935 Fax: (317) 849-5942

WETLAND IMPACT EXHIBIT
 PREPARED FOR:
PARKS AT DECATUR SEC. 1
 DECATUR TOWNSHIP, MARION CO., INDIANA

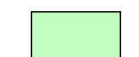




SECTION: 22 TOWNSHIP: 14N RANGE: 2E
 DRAWN BY: GEM CHECKED BY: KRG
 SHEET NO. 1 OF 1 SHEETS
 S & A JOB NO. 94720DRH
 DATED: 07/09/19

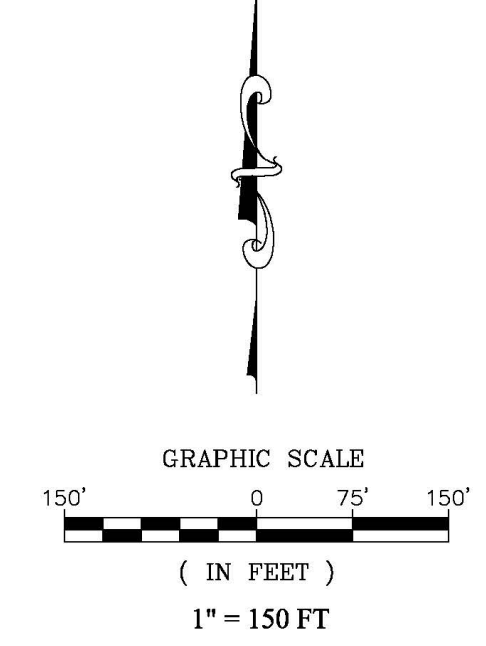
STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLIVESTAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
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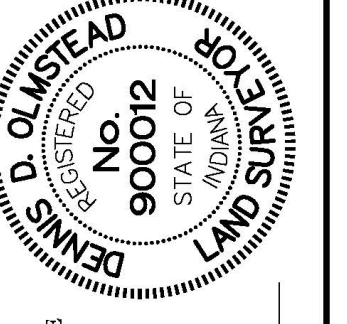
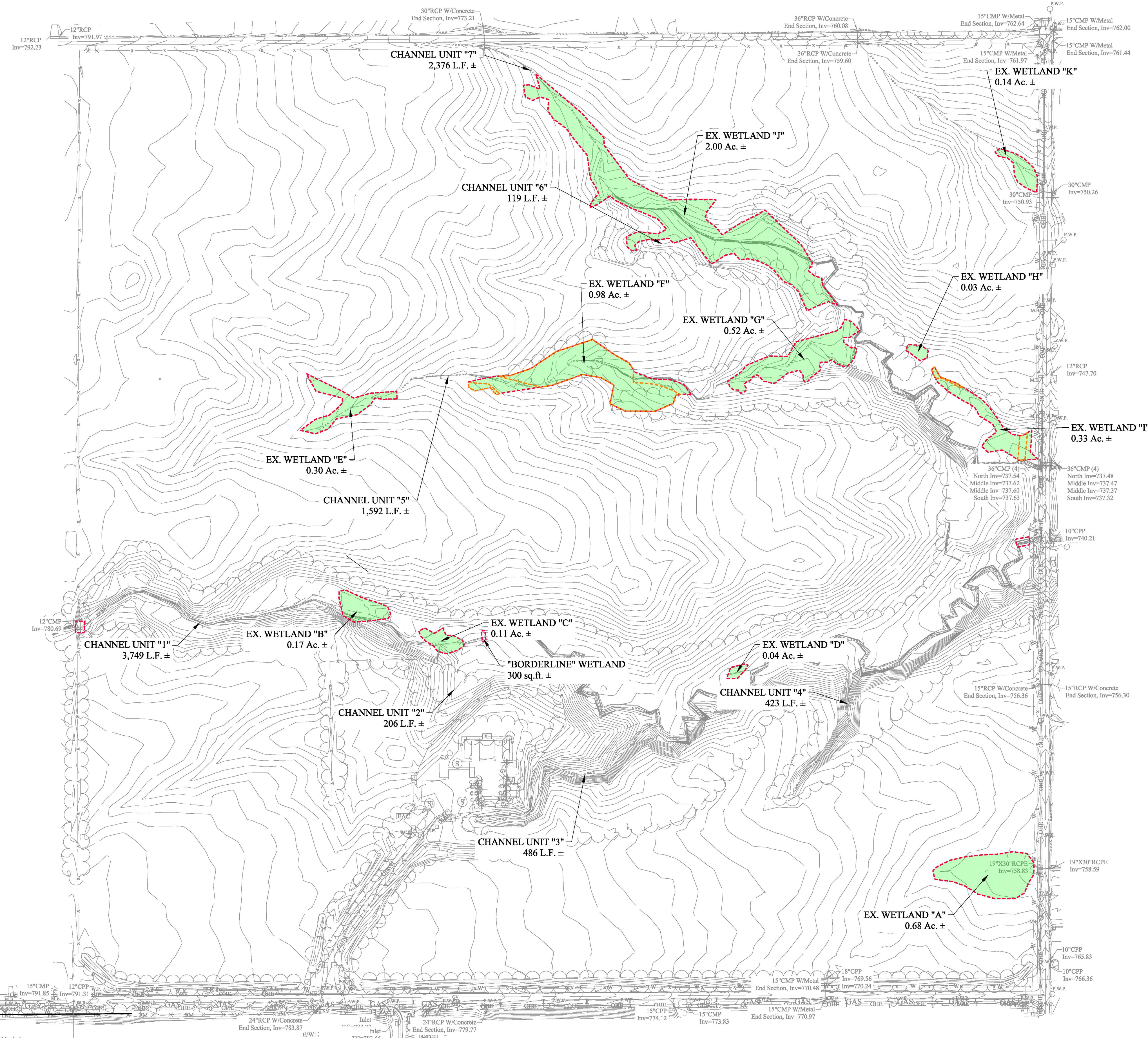
PARKS AT DECATUR

LEGEND

-  WETLAND
-  IMPACTED AREA
-  PEM
-  PEM/PSS
-  STREAM IMPACT AREA



TOTAL IMPACT AREA = 2.70 Ac±
 PEM AREA = 1.81 Ac±
 PEM/PSS AREA = 0.89 Ac±
 STREAM IMPACT AREA = 2,059 L.F.
 = 6,586 SQ.FT./ 0.15 Ac±



THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. A ROUTE SURVEY OR A SURVEY FOR LOCATION REPORT.
 CERTIFIED: 05/07/2021

STOEPPELWERTH
 A L W A Y S O N
 7965 East 106th Street, Fishers, IN 46038-2505
 Phone: (317) 849-5935 Fax: (317) 849-5942

WETLAND IMPACT EXHIBIT
 PREPARED FOR:
PARKS AT DECATUR SEC. 1
 DECATUR TOWNSHIP
 MARION CO., INDIANA

SECTION: 22	TOWNSHIP: 14N	RANGE: 2E
DRAWN BY: GEM	CHECKED BY: KRK	
SHEET NO. 1		
OF 1 SHEETS		
S & A JOB NO. 94720DRH		

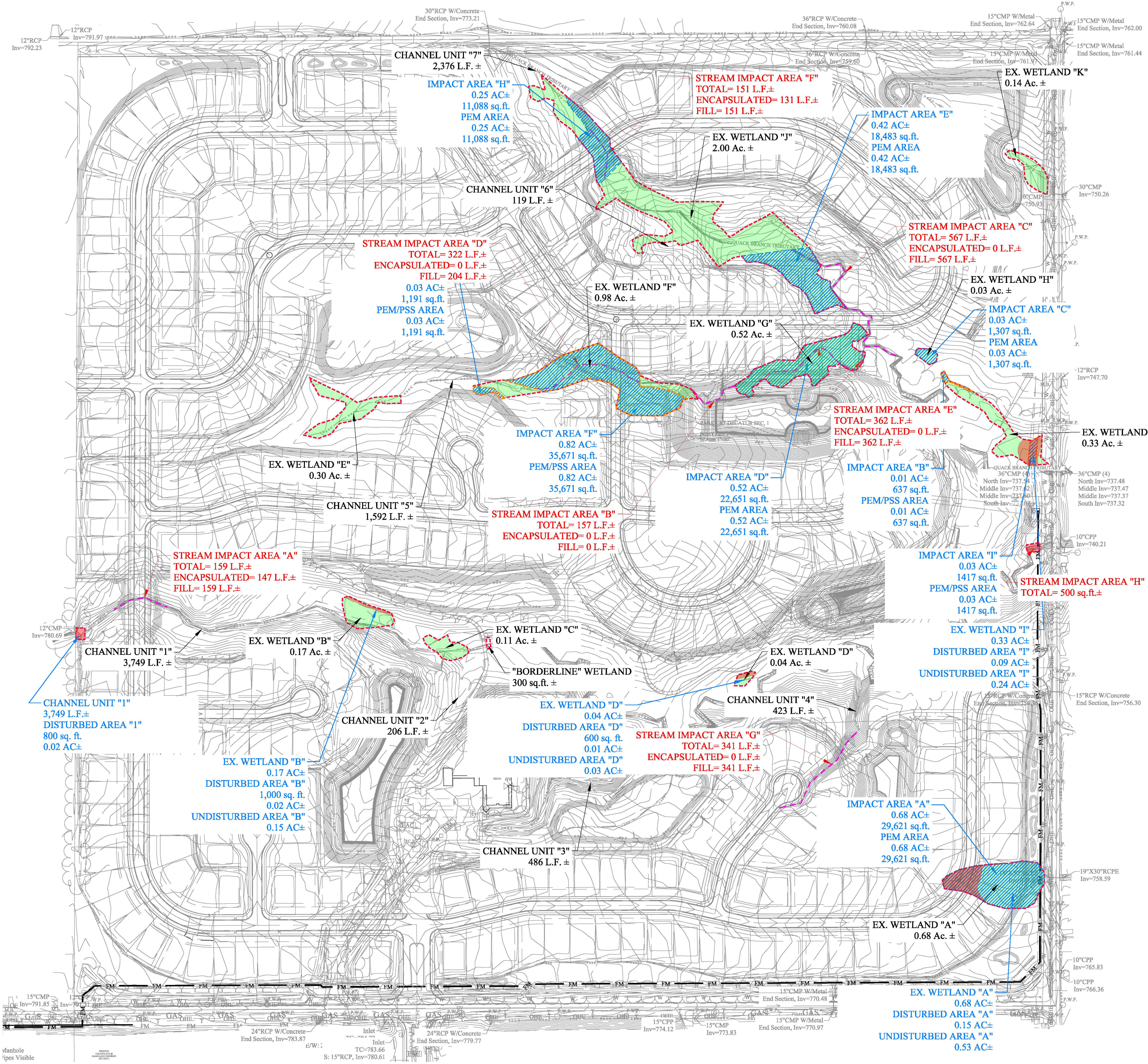
STOEPPELWERTH & ASSOCIATES, INC.
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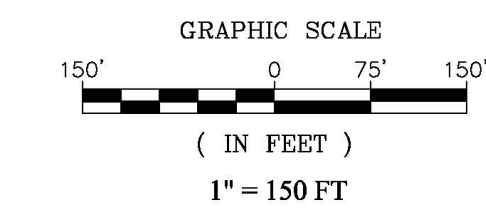
PARKS AT DECATUR

LEGEND

- WETLAND
- IMPACTED AREA
- DISTURBED AREA
- PEM
- PEM/PSS
- STREAM IMPACT AREA



TOTAL IMPACT AREA = 2.70 Ac±
 PEM AREA = 1.81 Ac±
 PEM/PSS AREA = 0.89 Ac±
 STREAM IMPACT AREA = 2,059 L.F.
 = 6,586 SQ.FT./0.15 Ac±

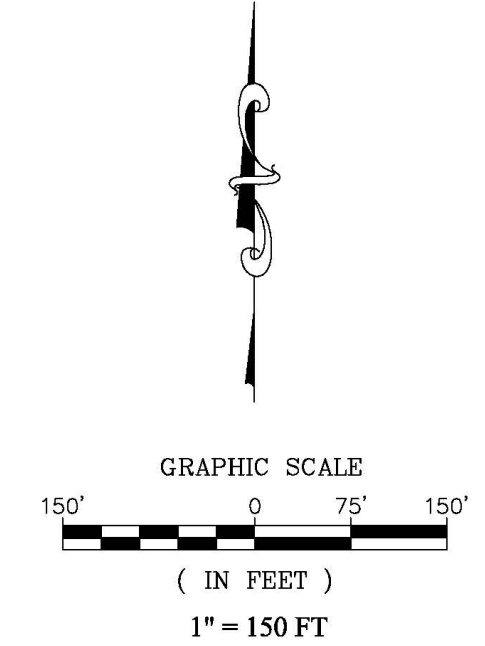


BY: _____
 REVISIONS: _____
 DATE: _____
 THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR SURVEY OR A SURVEYOR LOCATION REPORT.
 CERTIFIED: 05/07/2021
STOEPPELWERTH
 A L W A Y S O N
 7965 East 106th Street, Fishers, IN 46038-2505
 Phone: (317) 849-5935 Fax: (317) 849-5942
WETLAND IMPACT EXHIBIT
PARKS AT DECATUR SEC. 1
 DECATUR TOWNSHIP MARION CO., INDIANA
 PREPARED FOR:
 SECTION 22 TOWNSHIP 14N RANGE 2E
 DRAWN BY: GEM CHECKED BY: KRK
 SHEET NO. 1 OF 1 SHEETS
 S & A JOB NO. 94720DRH
 DATED: 07/09/19

STOEPPELWERTH & ASSOCIATES, INC.
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 DENNIS D. OLNSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

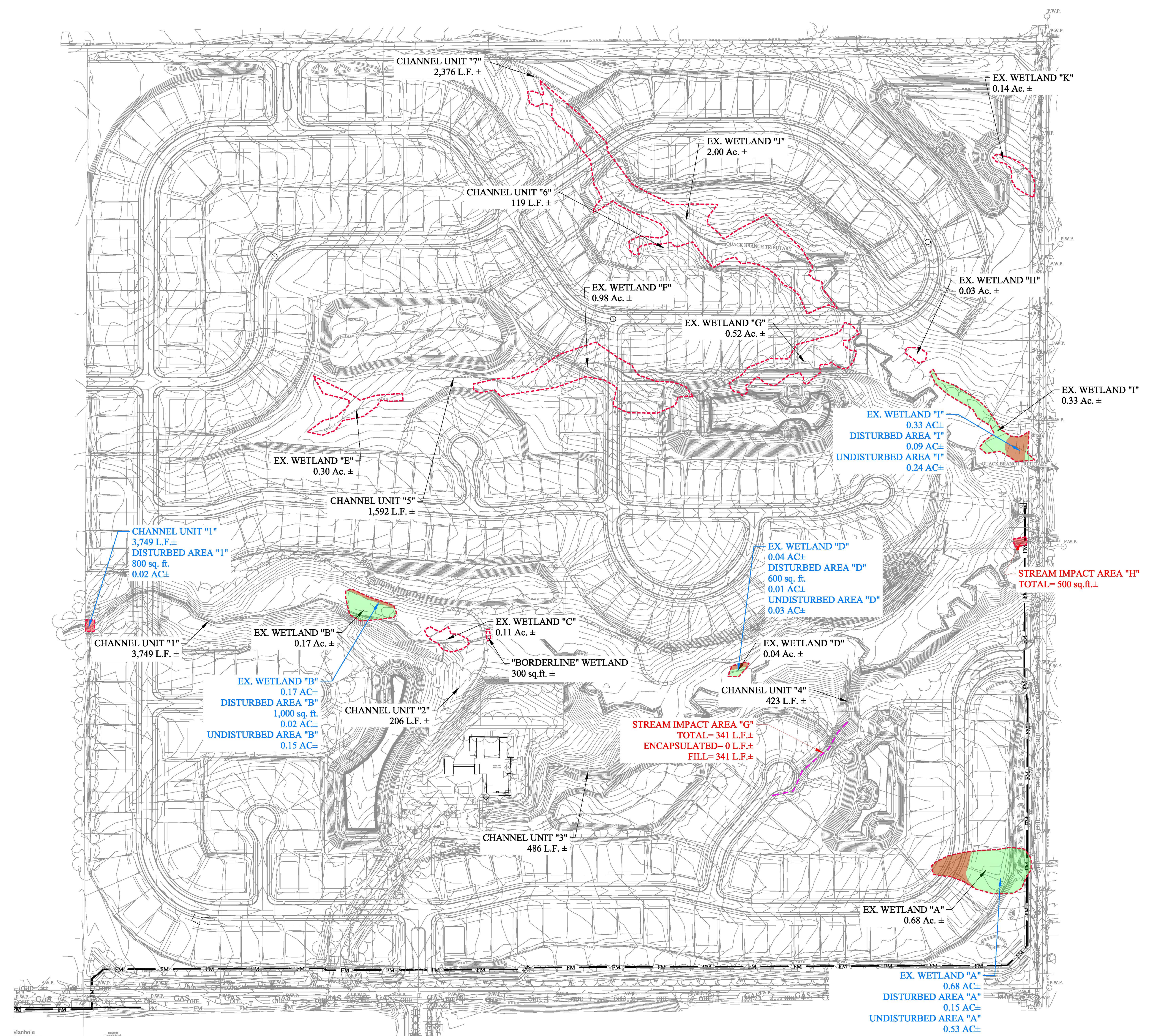
THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR



LEGEND

- WETLAND
- DISTURBED AREA
- WETLAND AREAS



WETLAND IMPACT EXHIBIT
 PREPARED FOR:
PARKS AT DECATUR SEC. 1
 DECATUR TOWNSHIP
 MARION CO., INDIANA

SECTION: 22 TOWNSHIP: 14N RANGE: 2E
 DRAWN BY: GEM CHECKED BY: KRG
 SHEET NO. 1 OF 1 SHEETS
 S & A JOB NO. 94720DRH

STOEPPELWERTH
 A L L A Y S O N
 7965 East 106th Street, Fishers, IN 46038-2505
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REVISIONS
 DATE

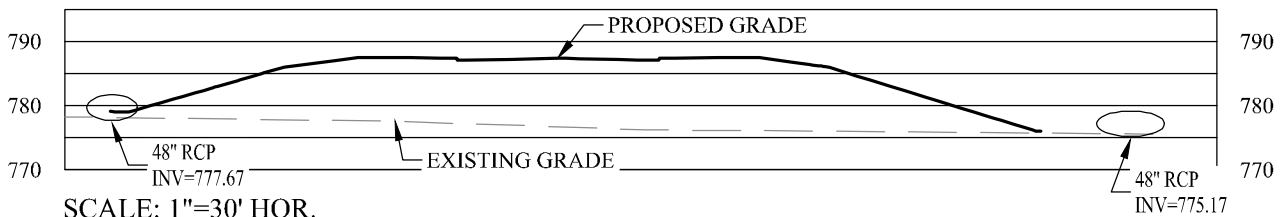
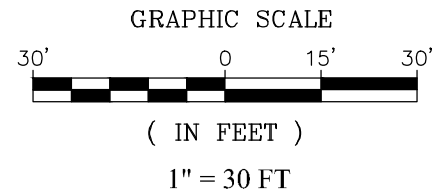
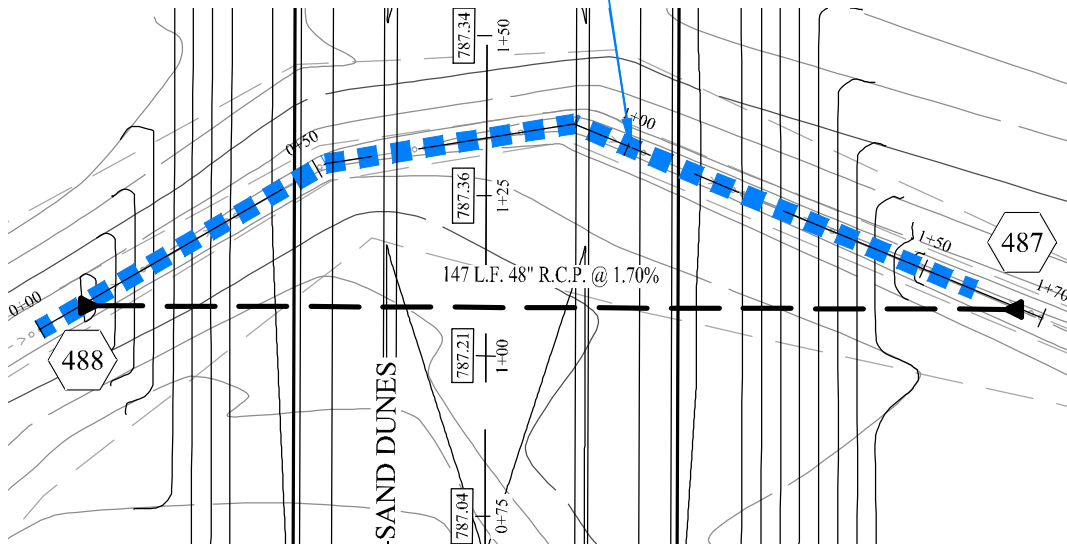


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 PHONE: (317) 374-7504

PARKS AT DECATUR STREAM AT SAND DUNES AVENUE

CHANNEL UNIT 1
 159 L.F.±



SCALE: 1"=30' HOR.
 1"=30' VERT.



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

JOB NO. 94720DRH-S1

DRAWN BY: GEM

CHECKED BY: KRG

DATE DRAWN: 01/10/22

FIELDWORK DATE:

PAGE

1

OF 1 SHEETS

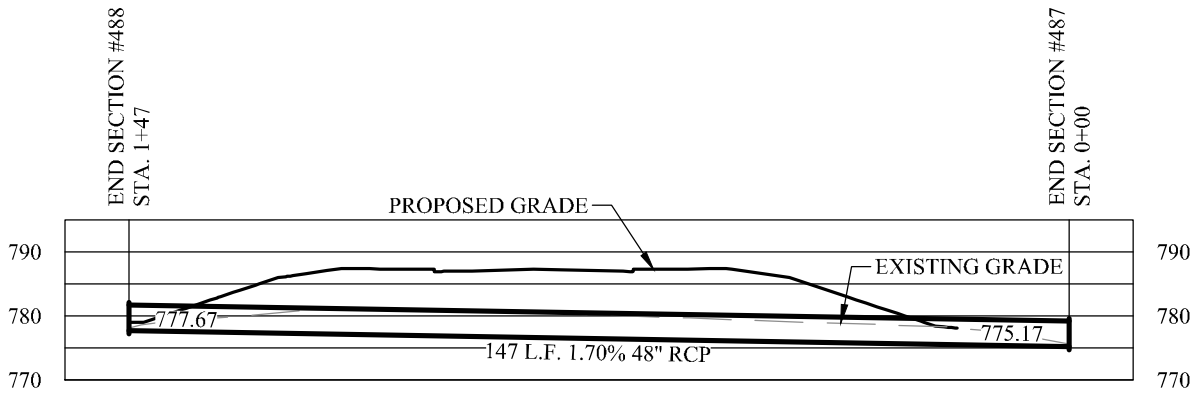
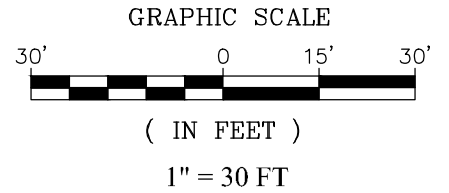
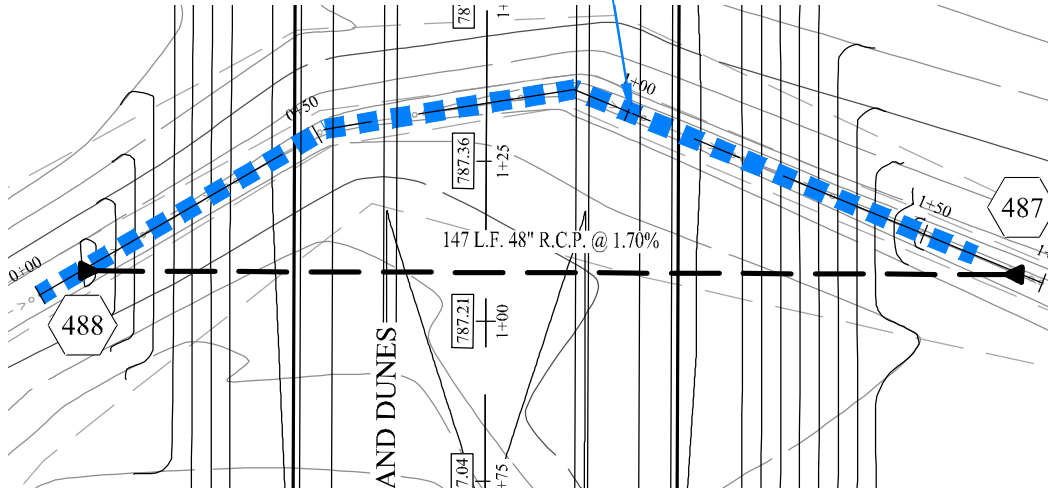


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 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR PIPE AT SAND DUNES AVENUE

CHANNEL UNIT 1
 159 L.F.±



SCALE: 1"=30' HOR.
 1"=30' VERT.



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

JOB NO. 94720DRH-S1

DRAWN BY: GEM

CHECKED BY: KRG

DATE DRAWN: 01/10/22

FIELDWORK DATE:

PAGE

1

OF 1 SHEETS

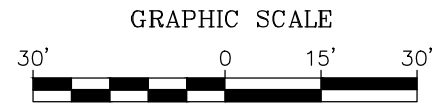
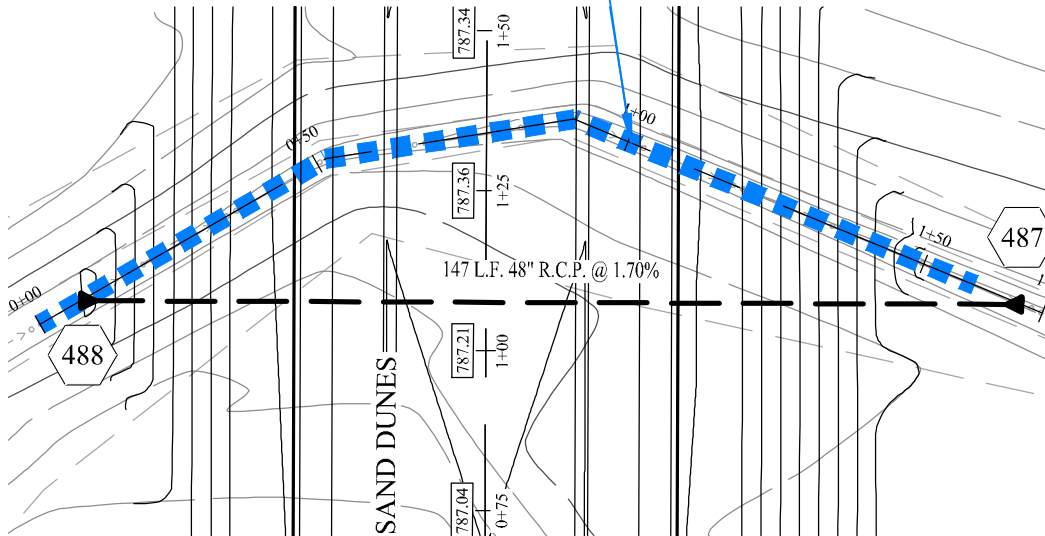


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 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR CENTER LINE SAND DUNES AVENUE

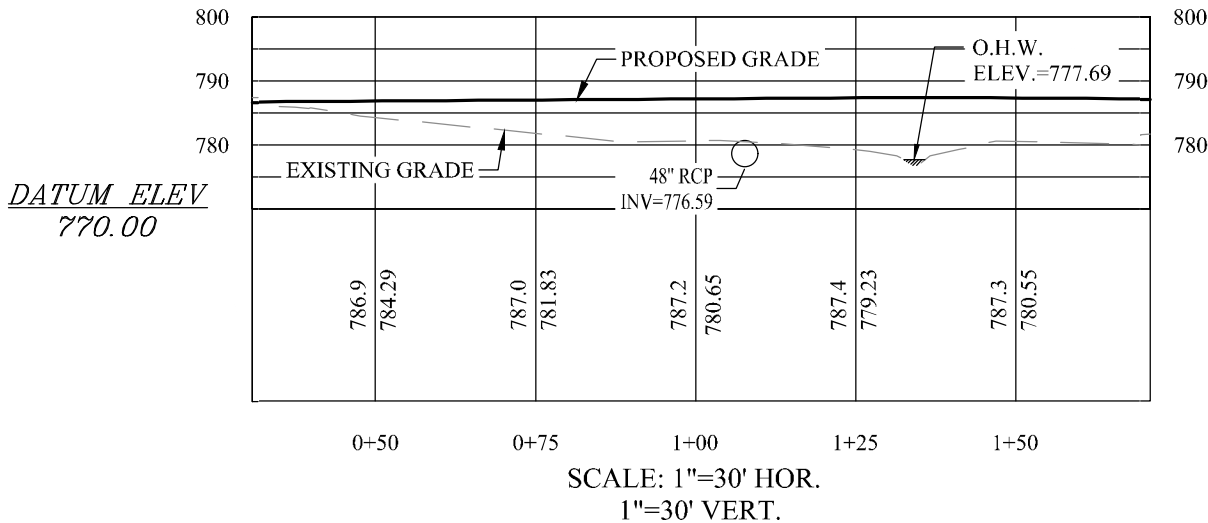
CHANNEL UNIT 1
 159 L.F.±



GRAPHIC SCALE

(IN FEET)

1" = 30 FT



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

JOB NO. 94720DRH-S1

DRAWN BY: GEM

CHECKED BY: KRG

DATE DRAWN: 01/10/22

FIELDWORK DATE:

PAGE

1

OF 1 SHEETS



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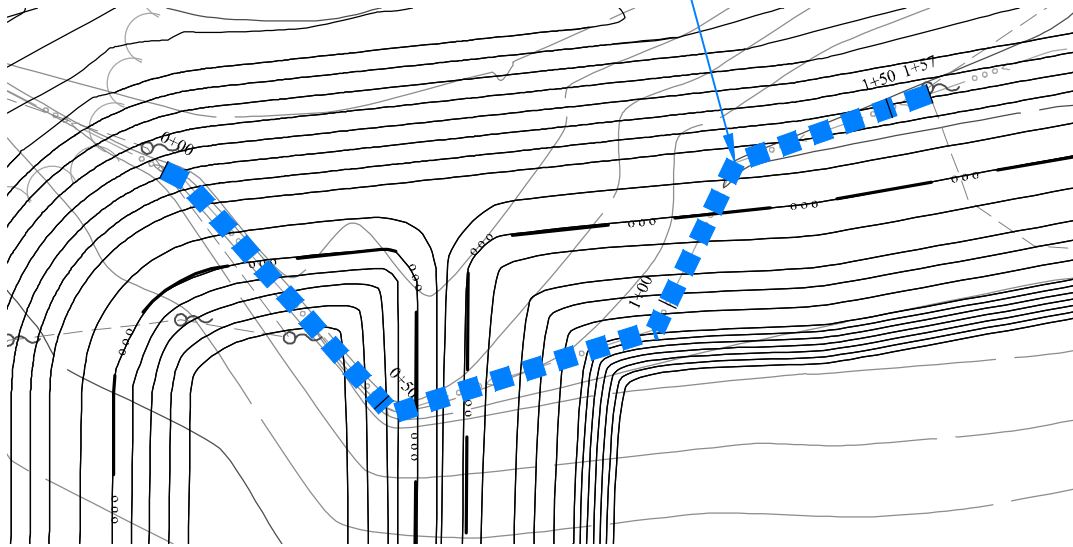
THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9219 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

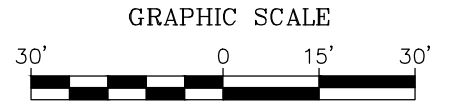
STREAM AT DRAINAGE BASIN #7

STREAM IMPACT AREA "B"

CHANNEL UNIT 5
 157 L.F.±



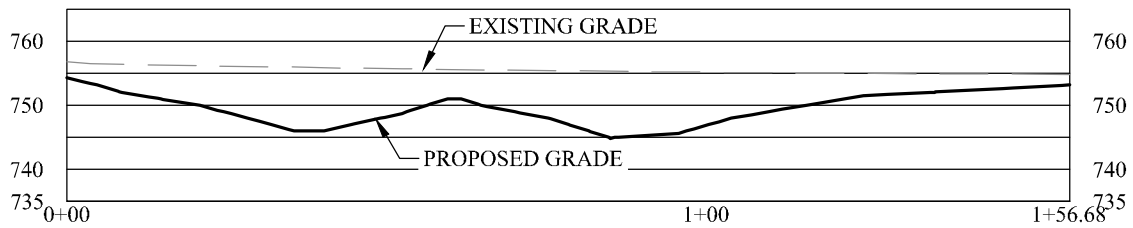
FILL 157 L.F.
 RELOCATION 157 L.F.
 ENCAPSULATED 0 L.F.



GRAPHIC SCALE

(IN FEET)

1" = 30 FT



SCALE: 1"=30' HOR.

1"=30' VERT.



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

JOB NO. 94720DRH-S1

DRAWN BY: GEM

CHECKED BY: KRG

DATE DRAWN: 07/18/22

FIELDWORK DATE:

PAGE

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OF 1 SHEETS

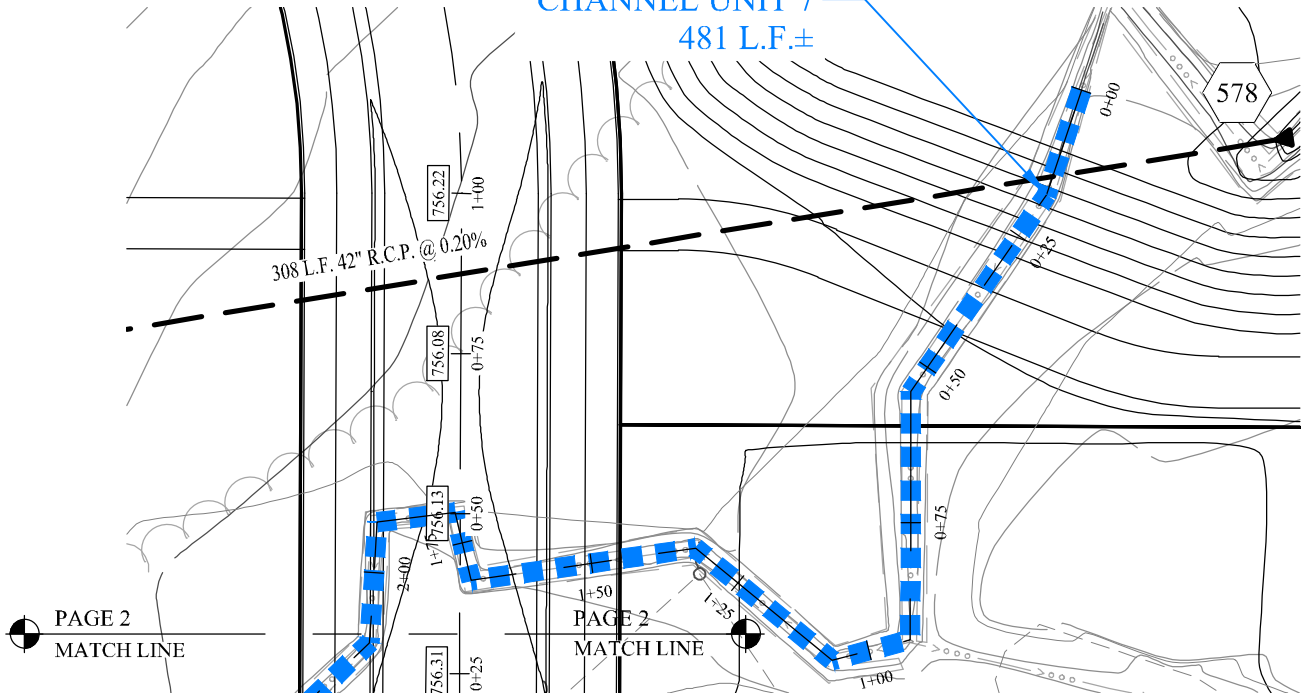


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 THIS INSTRUMENT PREPARED BY:
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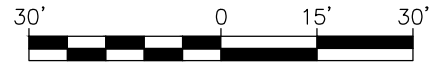
PARKS AT DECATUR STREAM AT SMOKEY MOUNTAIN DRIVE

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

CHANNEL UNIT 7
 481 L.F.±



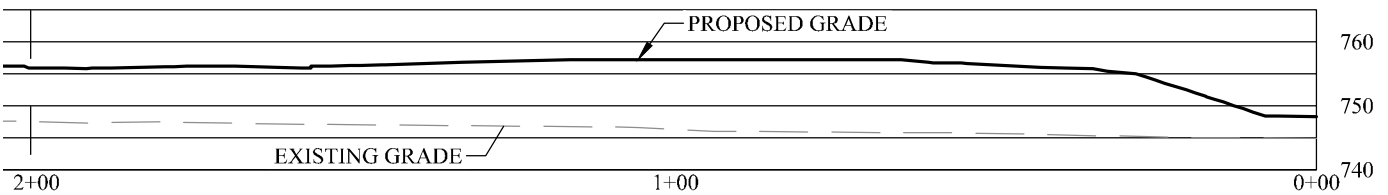
GRAPHIC SCALE



(IN FEET)

1" = 30 FT

PAGE 2
 MATCH LINE



PAGE 2
 MATCH LINE



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

JOB NO. 94720DRH-S1

DRAWN BY: GEM

CHECKED BY: KRG

DATE DRAWN: 01/10/22

FIELDWORK DATE:

PAGE

1

OF 3 SHEETS

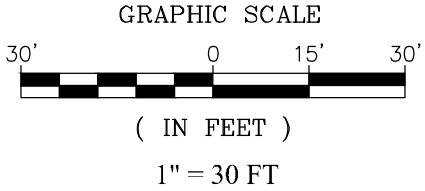
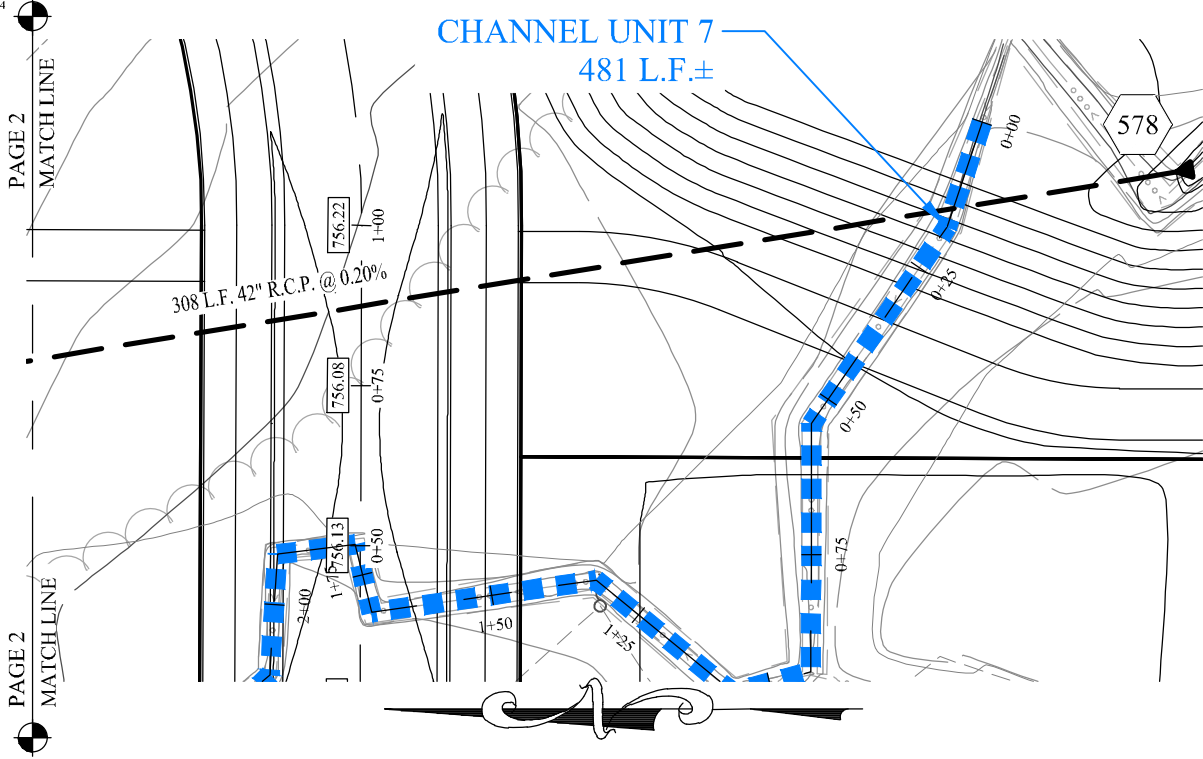


STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

PARKS AT DECATUR

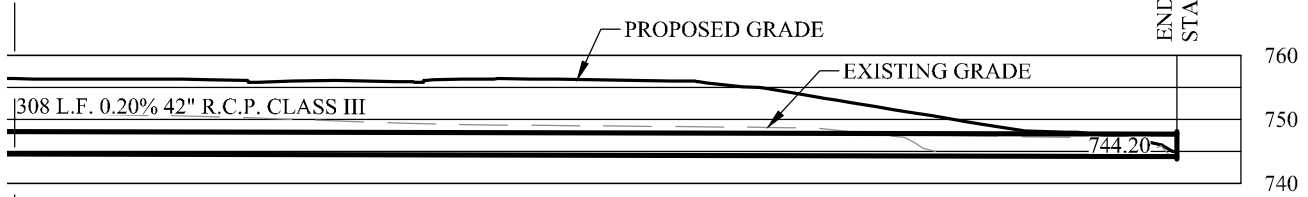
PIPE 578-580 AT STREAM

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504



PAGE 2
MATCH LINE

END SECTION #578
STA. 0+00



PAGE 2
MATCH LINE

STOEPPELWERTH



ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

JOB NO. 94720DRH-S1

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DATE DRAWN: 01/10/22

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PAGE

1

OF 3 SHEETS

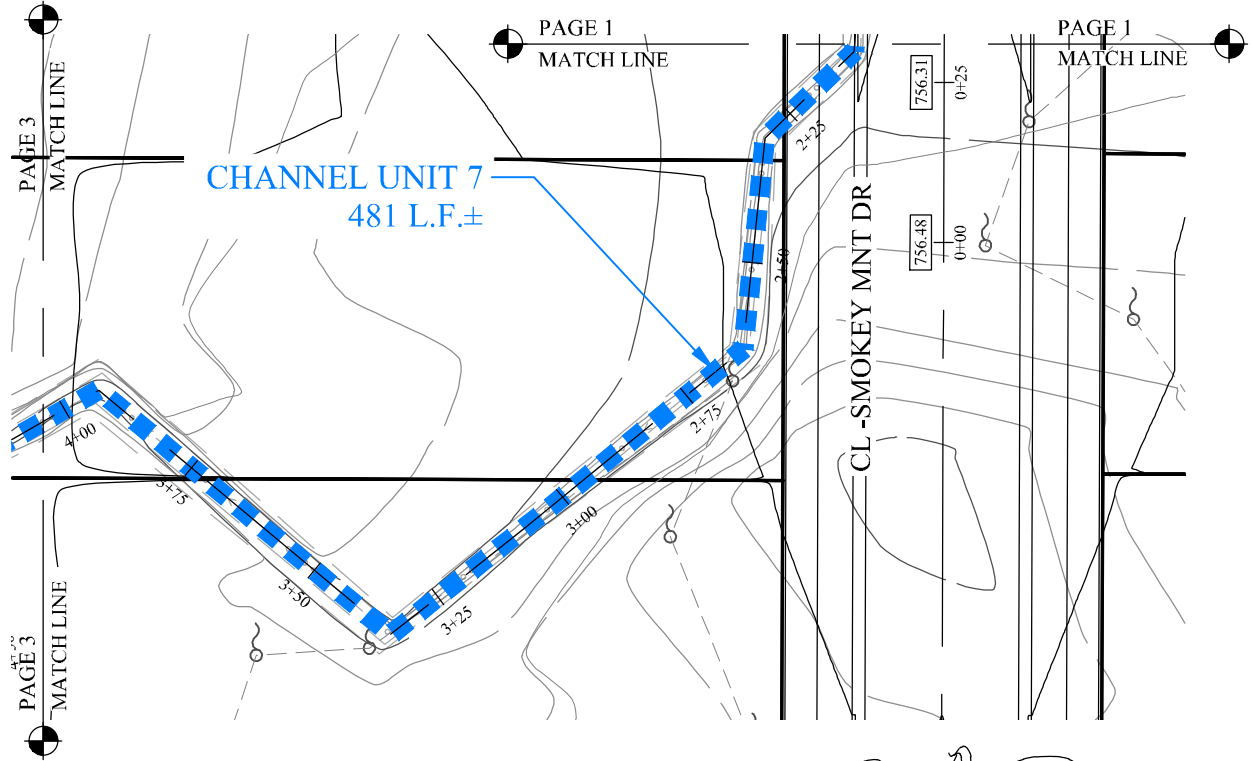


STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

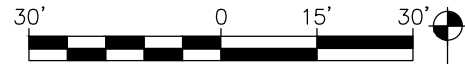
PARKS AT DECATUR

STREAM AT SMOKEY MOUNTAIN DRIVE

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

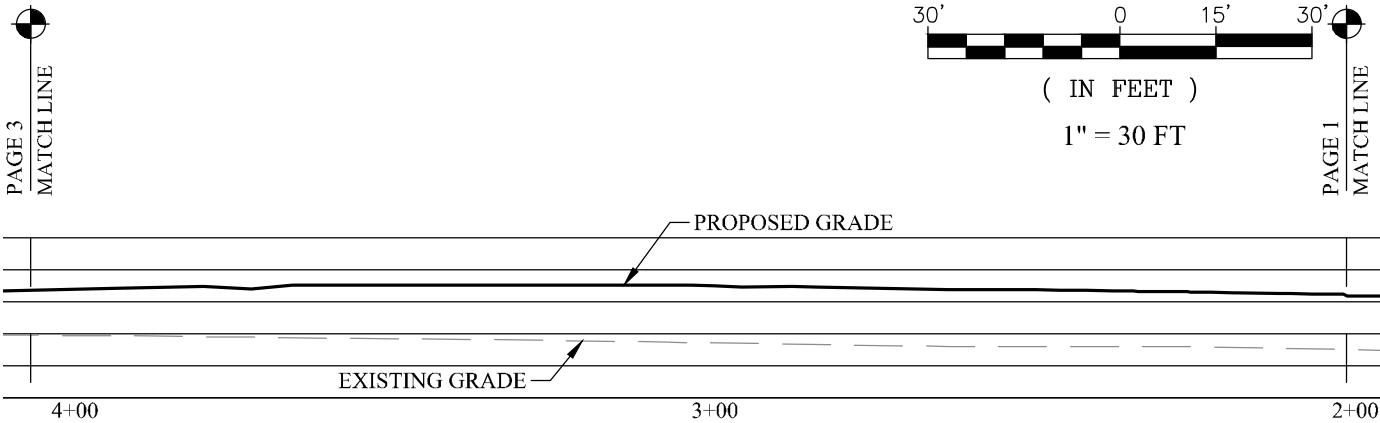



GRAPHIC SCALE



(IN FEET)

1" = 30 FT



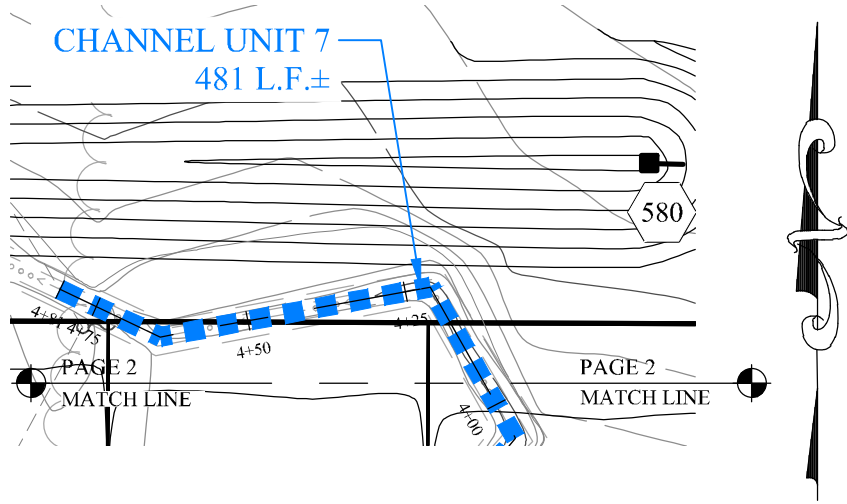
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	DRAWN BY: GEM	
	CHECKED BY: KRG	
	DATE DRAWN: 01/10/22	
	FIELDWORK DATE:	



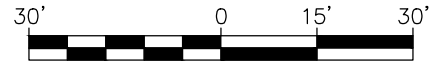
STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR STREAM AT SMOKEY MOUNTAIN DRIVE

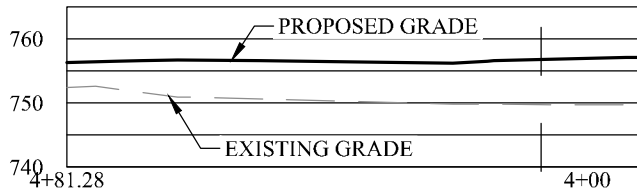


GRAPHIC SCALE




(IN FEET)

1" = 30 FT



SCALE: 1"=30' HOR.
 1"=30' VERT.

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	CHECKED BY: KRG	
	DATE DRAWN: 01/10/22	
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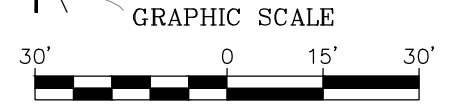
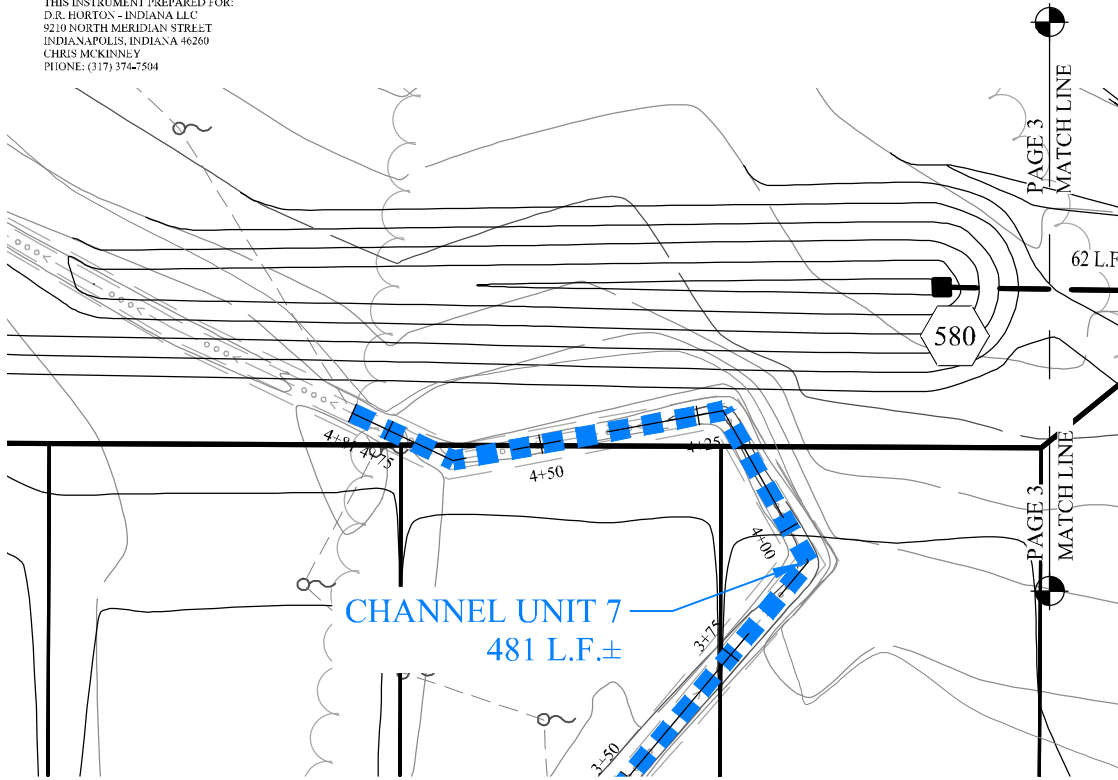


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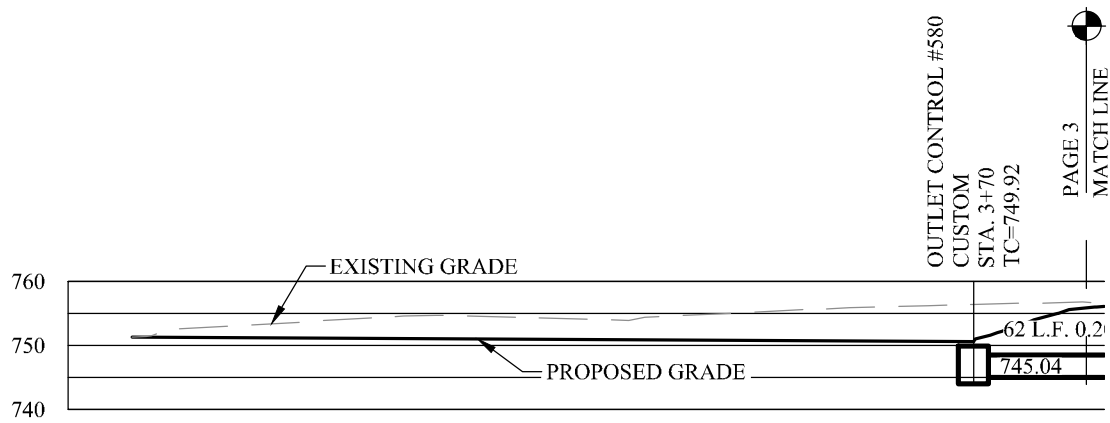
THIS INSTRUMENT PREPARED FOR:
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 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR


PIPE 578-580 AT STREAM



GRAPHIC SCALE
 (IN FEET)
 1" = 30 FT



SCALE: 1"=30' HOR.
 1"=30' VERT.

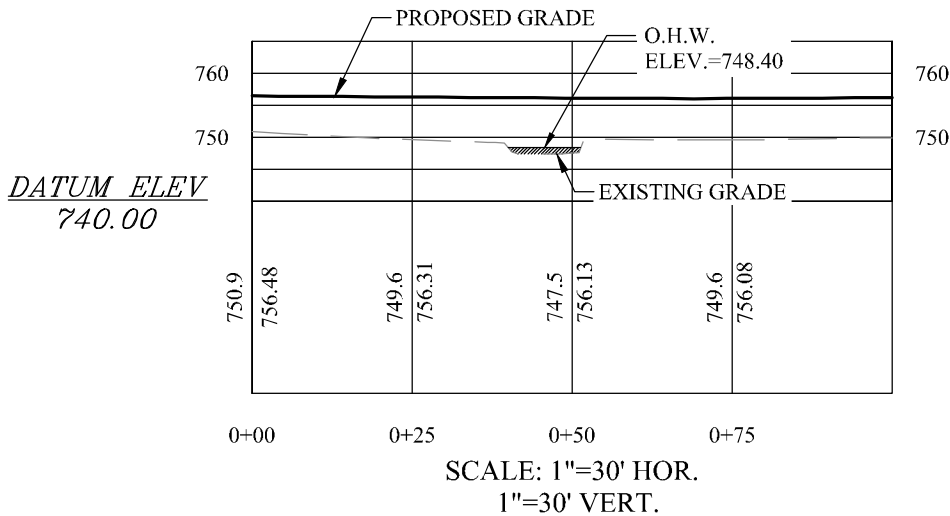
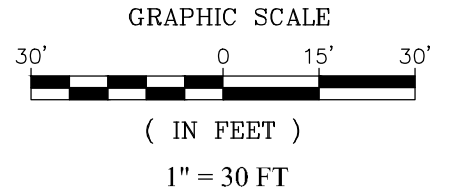
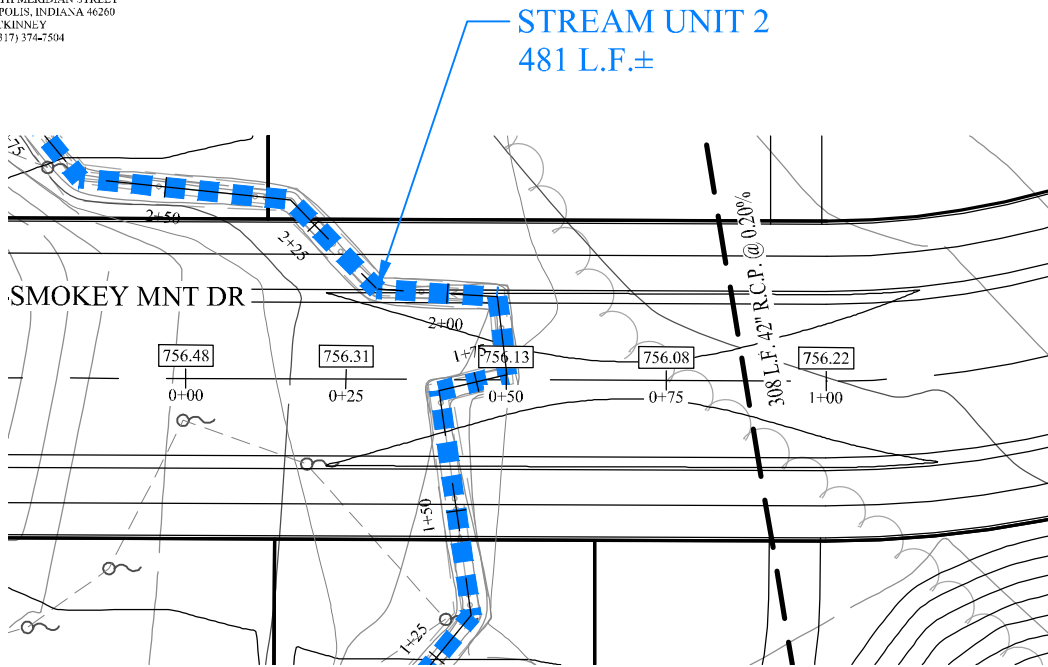
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PARKS AT DECATUR CENTER LINE SMOKEY MOUNTAIN DRIVE



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
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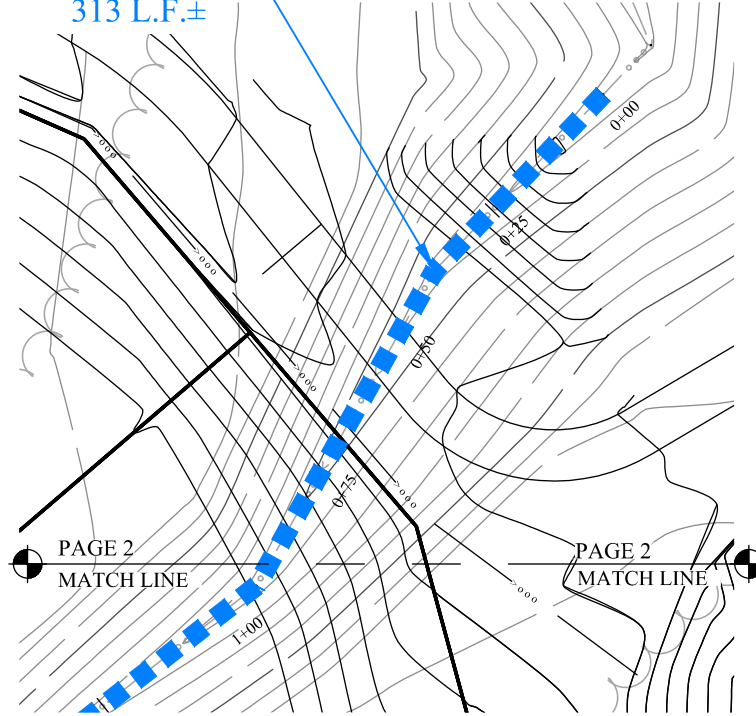
STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

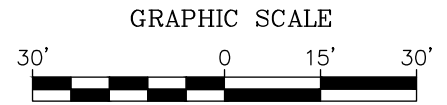
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CHANNEL UNIT 4
 313 L.F.±



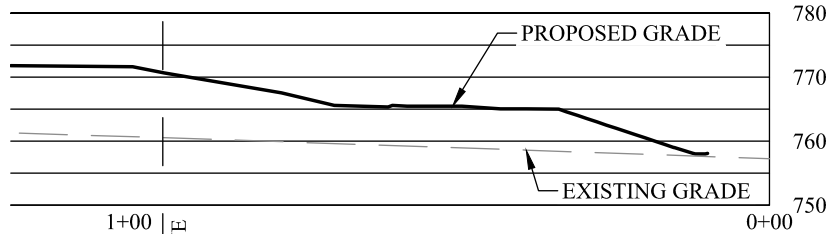
FILL 313 L.F.
 RELOCATION 313 L.F.
 ENCAPSULATED 0 L.F.

PAGE 2
 MATCH LINE



(IN FEET)

1" = 30 FT



PAGE 2
 MATCH LINE



STOEPPELWERTH

ALWAYS ON

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DRAWN BY: GEM

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DATE DRAWN: 12/19/22

FIELDWORK DATE:

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OF 2 SHEETS



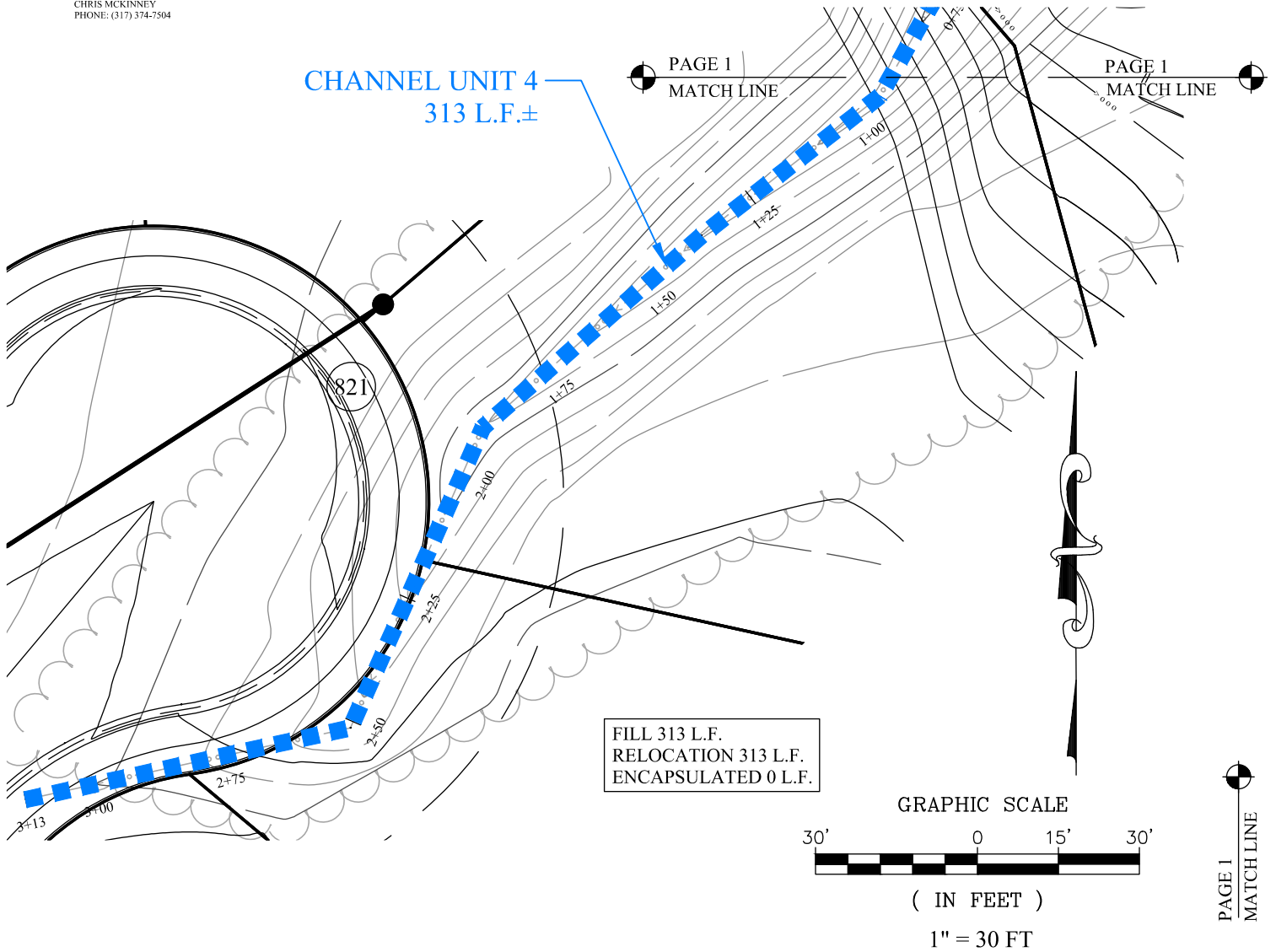
STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

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 INDIANAPOLIS, INDIANA 46260
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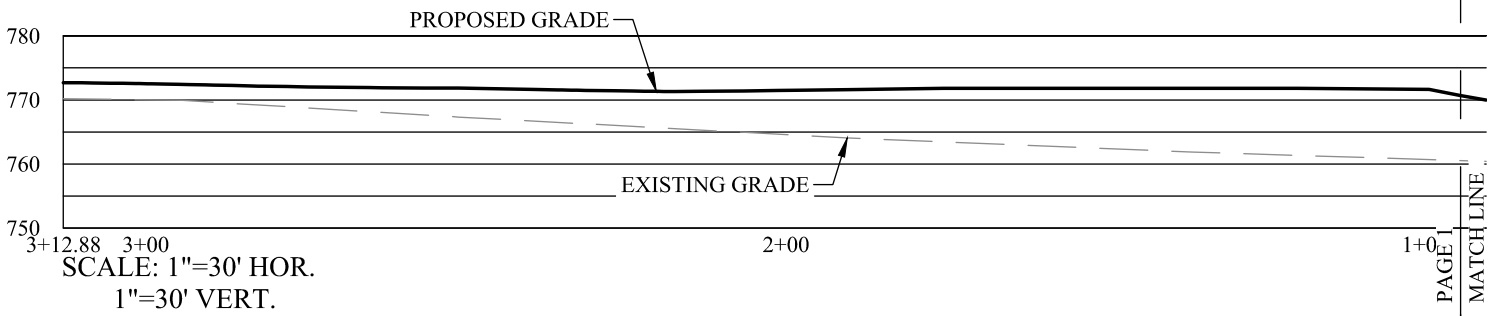
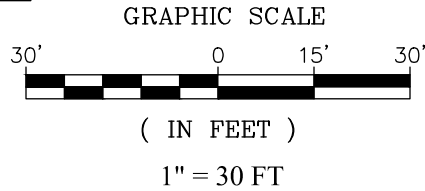
PARKS AT DECATUR

STREAM IMPACT AREA "G"

CHANNEL UNIT 4
 313 L.F.±



FILL 313 L.F.
 RELOCATION 313 L.F.
 ENCAPSULATED 0 L.F.



STOEPPELWERTH

ALWAYS ON

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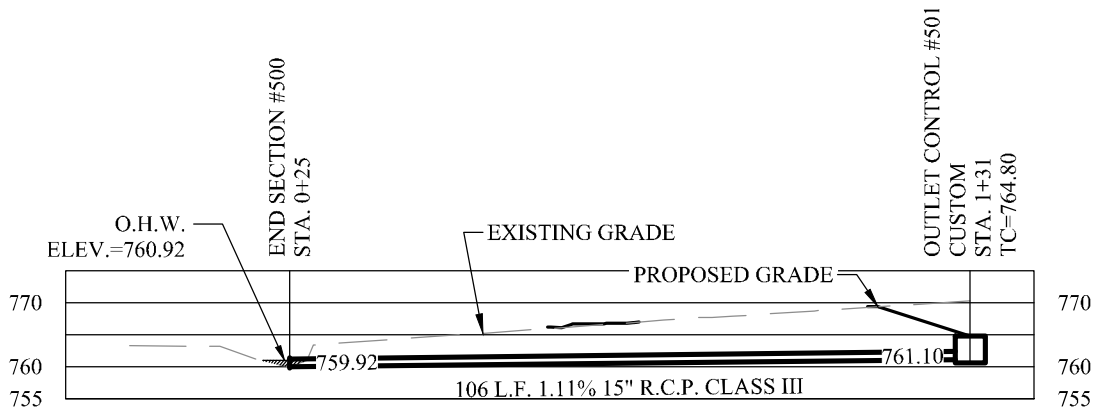
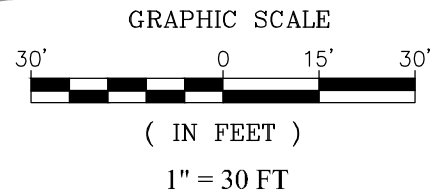
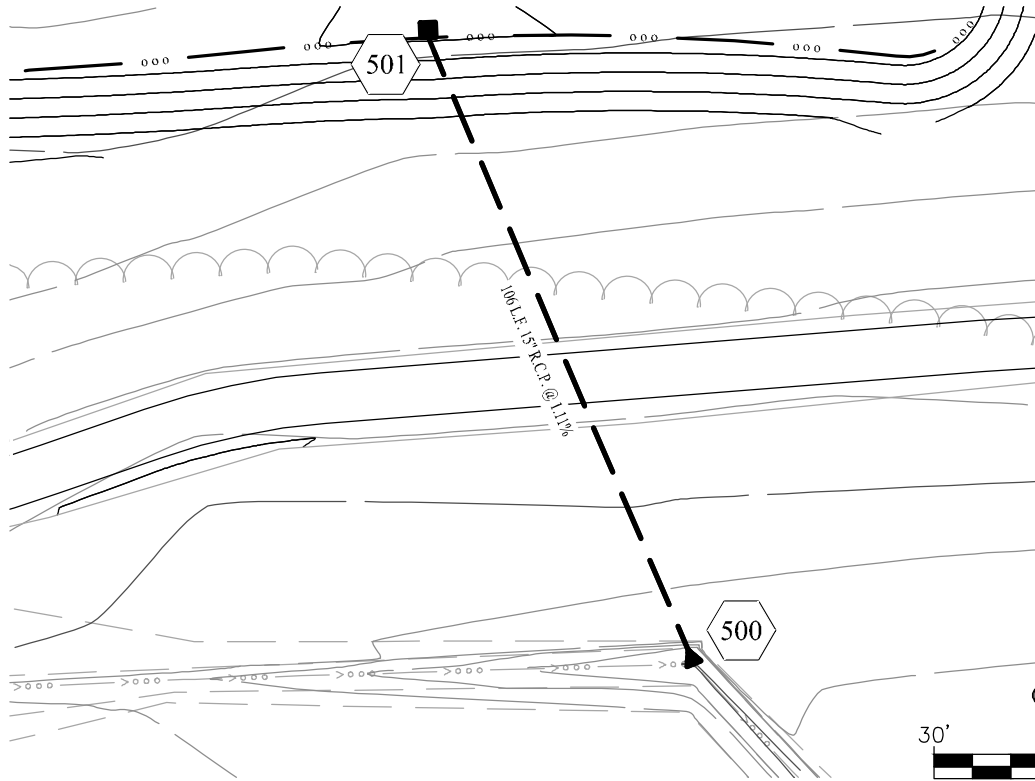


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 PHONE: (317) 849-5935


THIS INSTRUMENT PREPARED FOR:
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 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

PIPE 500-501 AT STREAM



SCALE: 1"=30' HOR.
 1"=30' VERT.

 <h1>STOEPPELWERTH</h1> ALWAYS ON 7965 East 106th Street, Fishers, IN 46038-2505 phone: 317.849.5935 fax: 317.849.5942	JOB NO. 94720DRH-S1	PAGE <h1>1</h1> OF 1 SHEETS
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	CHECKED BY: KRG	
	DATE DRAWN: 01/10/22	
	FIELDWORK DATE:	

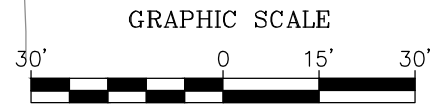
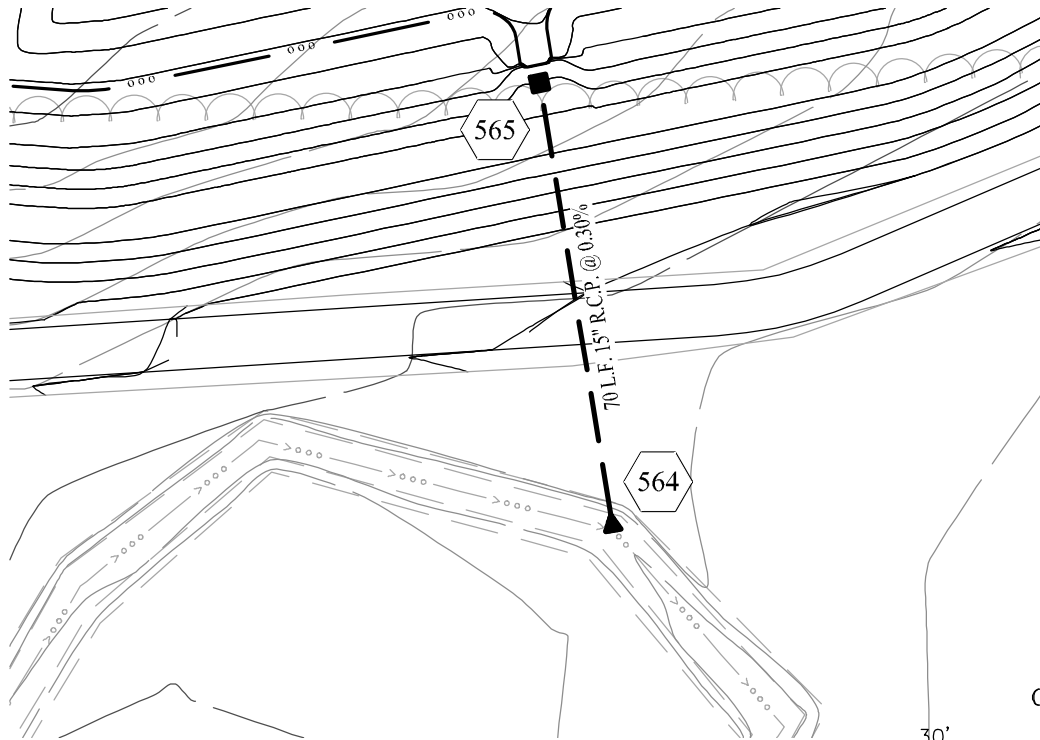


STOEPPELWERTH & ASSOCIATES, INC.
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 PHONE: (317) 849-5935

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 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

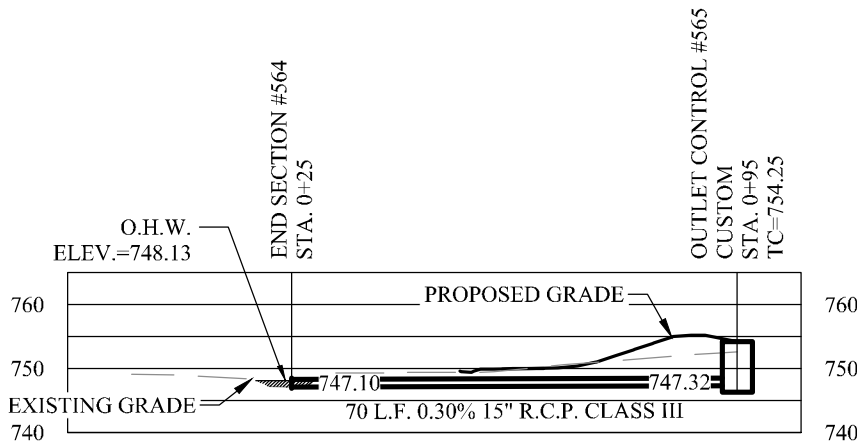
PIPE 564-565 AT STREAM



GRAPHIC SCALE

(IN FEET)

1" = 30 FT



SCALE: 1"=30' HOR.
 1"=30' VERT.



STOEPPELWERTH

ALWAYS ON

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DATE DRAWN: 01/10/22

FIELDWORK DATE:

PAGE

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OF 1 SHEETS

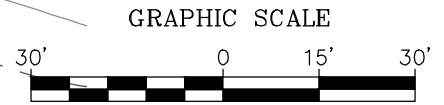


STOEPPELWERTH & ASSOCIATES, INC.
 THIS INSTRUMENT PREPARED BY:
 DENNIS D. OLMSTEAD
 7965 E. 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
 D.R. HORTON - INDIANA LLC
 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

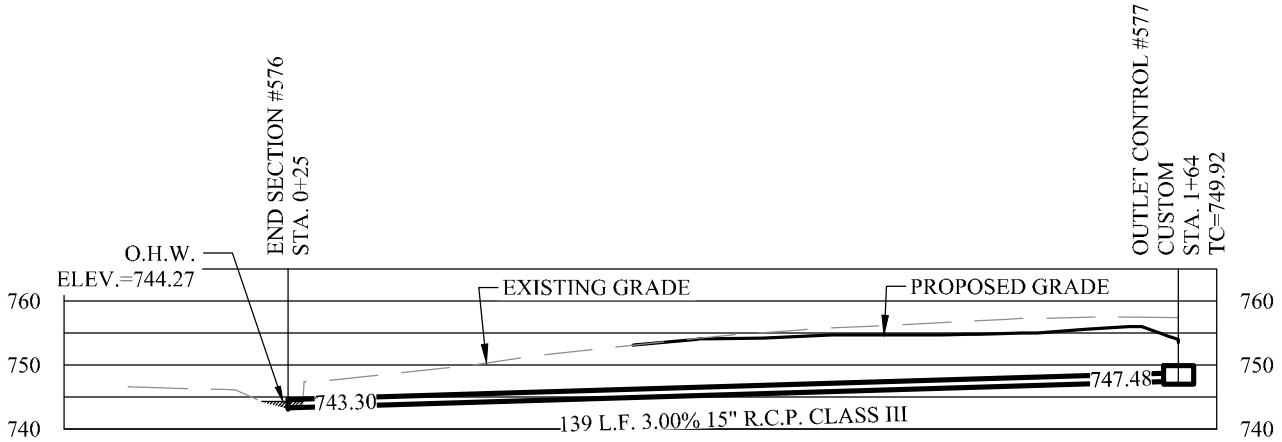
PIPE 576-577 AT STREAM



GRAPHIC SCALE

(IN FEET)

1" = 30 FT



SCALE: 1"=30' HOR.

1"=30' VERT.



STOEPPELWERTH

ALWAYS ON

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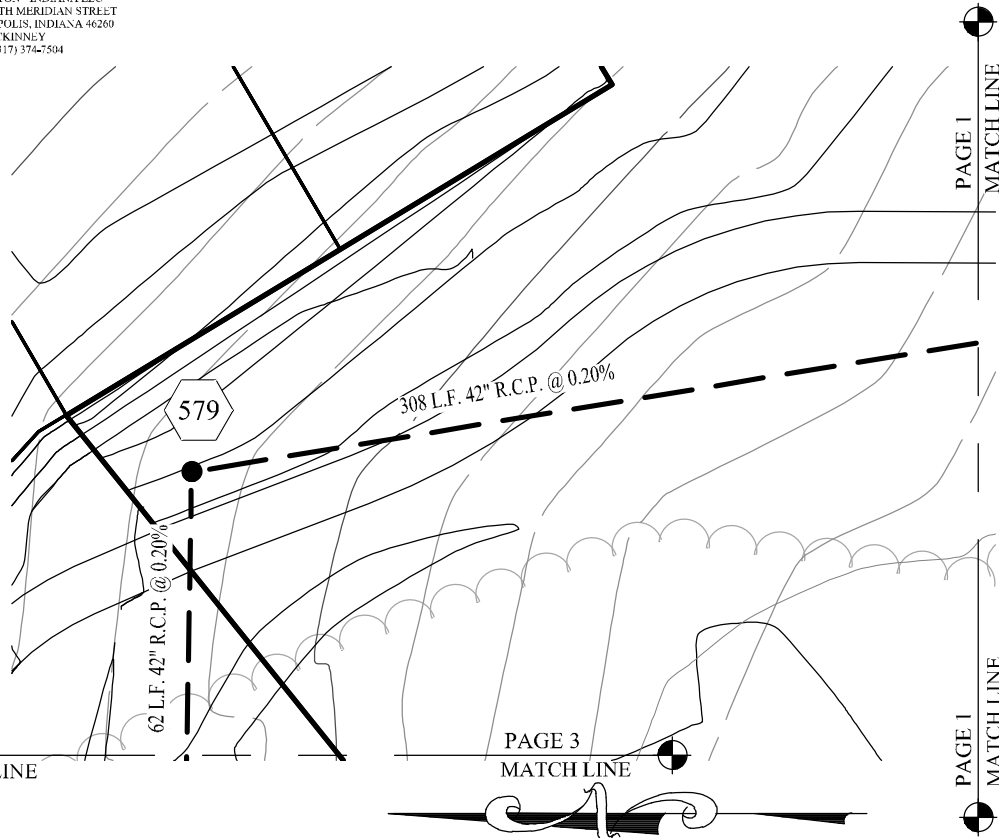


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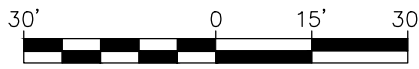
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 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
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 PHONE: (317) 374-7504

PARKS AT DECATUR

PIPE 578-580 AT STREAM

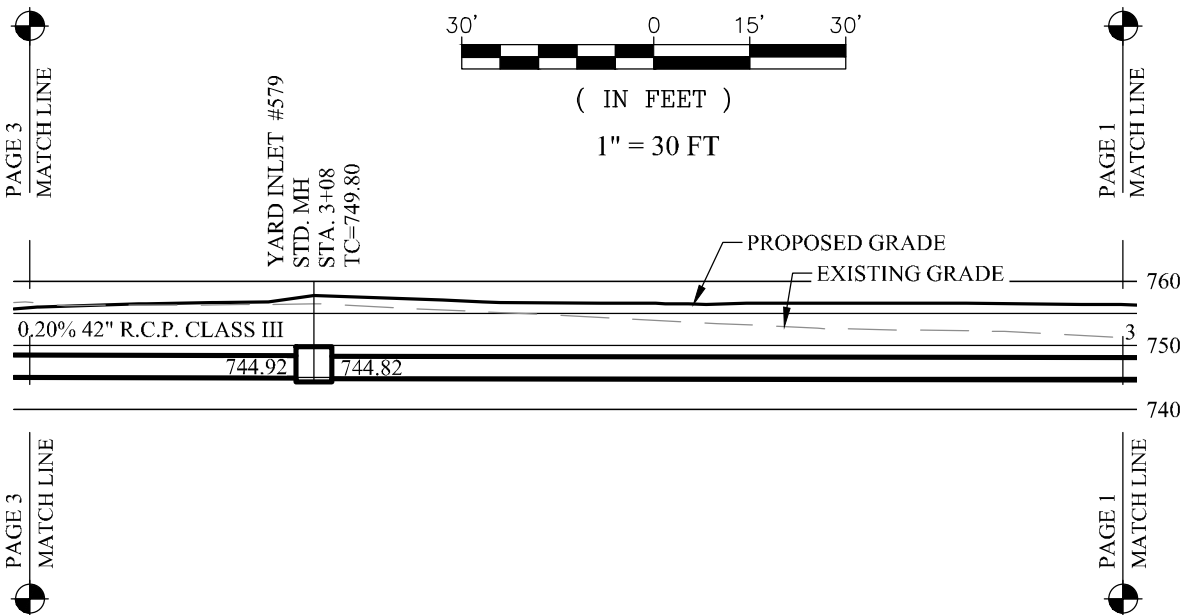



GRAPHIC SCALE



(IN FEET)

1" = 30 FT



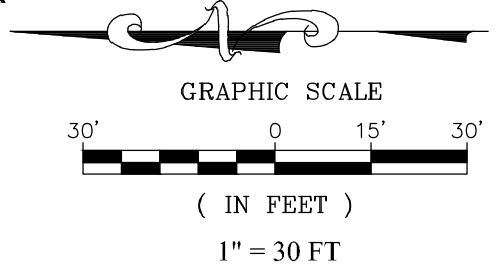
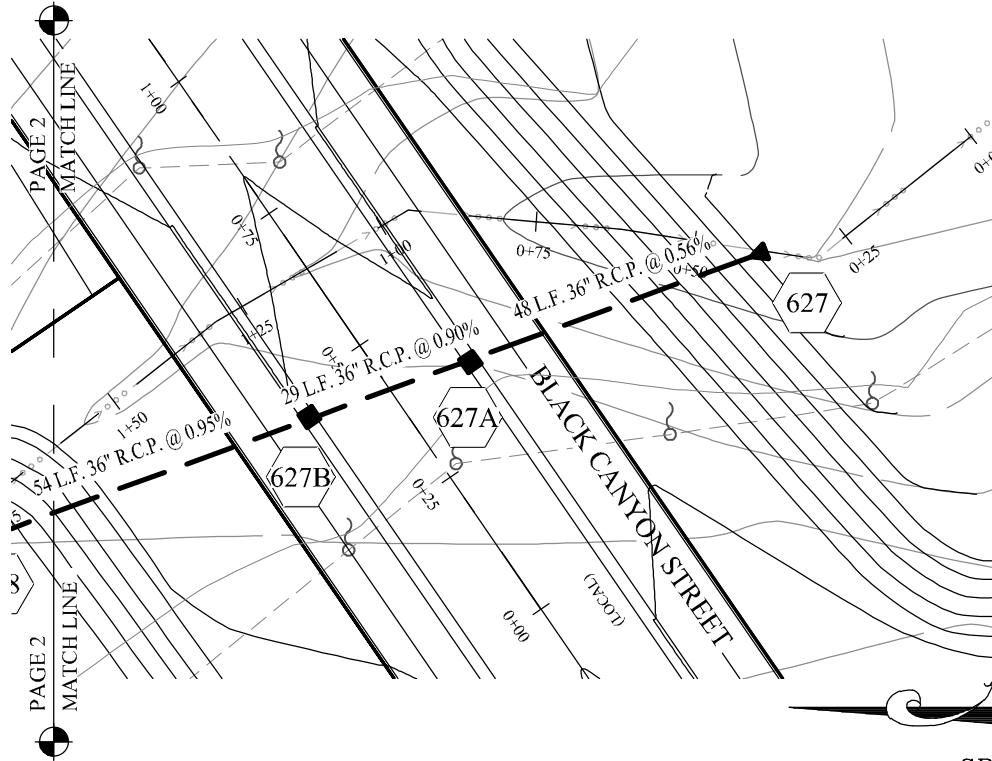
 STOEPPELWERTH ALWAYS ON 7965 East 106th Street, Fishers, IN 46038-2505 phone: 317.849.5935 fax: 317.849.5942	JOB NO. 94720DRH-S1	PAGE <h1 style="font-size: 48px;">2</h1> OF 3 SHEETS
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	CHECKED BY: KRG	
	DATE DRAWN: 01/10/22	
	FIELDWORK DATE:	



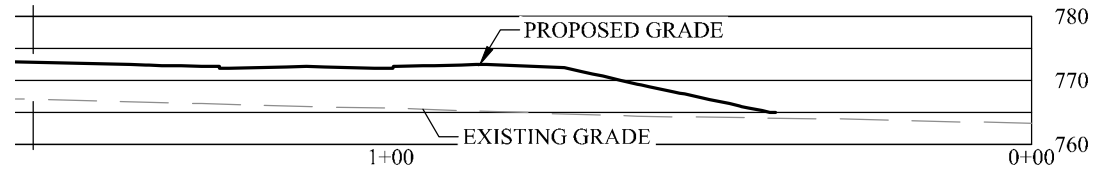
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 INDIANAPOLIS, INDIANA 46260
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PARKS AT DECATUR STREAM AT BLACK CANYON STREET



PAGE 2
MATCH LINE



PAGE 2
MATCH LINE

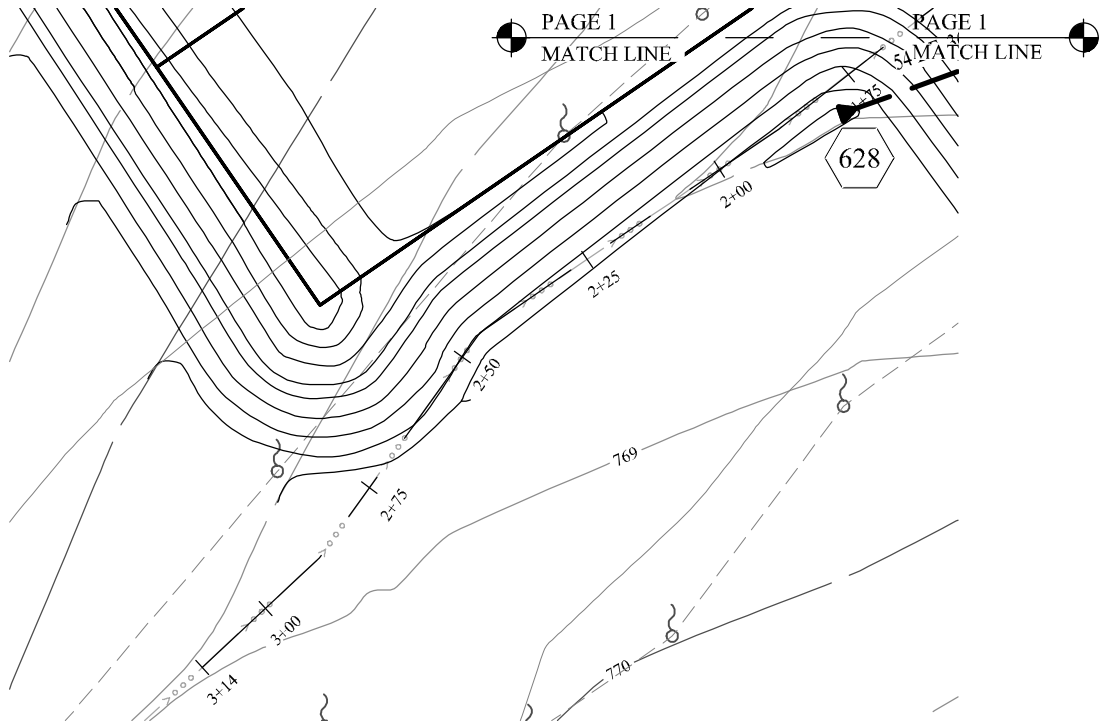
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	FIELDWORK DATE:	



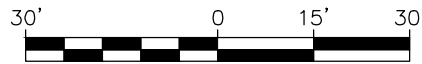
STOEPPELWERTH & ASSOCIATES, INC.
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 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR STREAM AT BLACK CANYON STREET



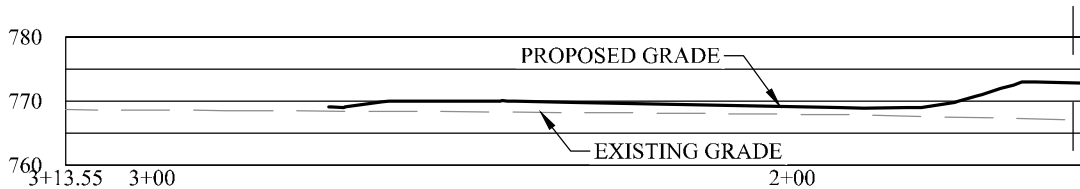
GRAPHIC SCALE



(IN FEET)

1" = 30 FT

PAGE 1
MATCH LINE



SCALE: 1"=30' HOR.
 1"=30' VERT.

PAGE 1
MATCH LINE



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

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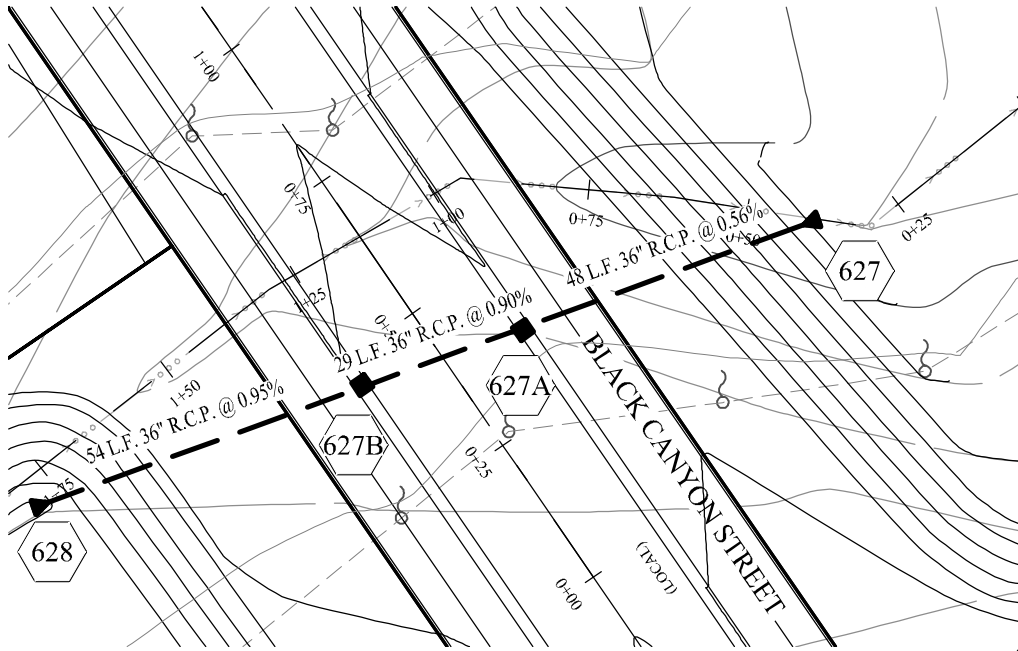


STOEPPELWERTH & ASSOCIATES, INC.
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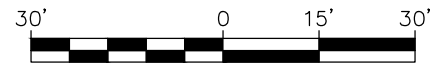
THIS INSTRUMENT PREPARED FOR:
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 9210 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

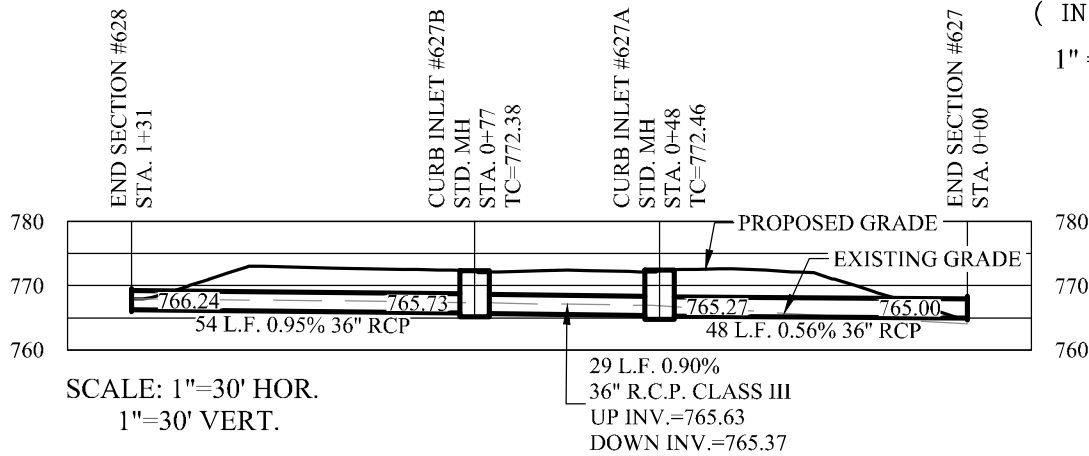
PIPE 627-628 AT STREAM



GRAPHIC SCALE



(IN FEET)
 1" = 30 FT



STOEPPELWERTH

ALWAYS ON

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OF 1 SHEETS

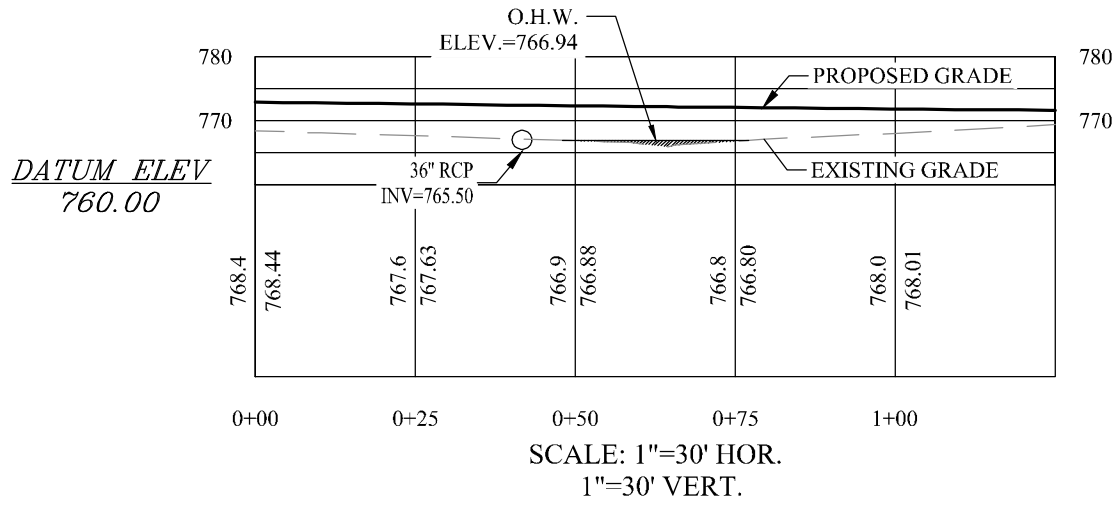
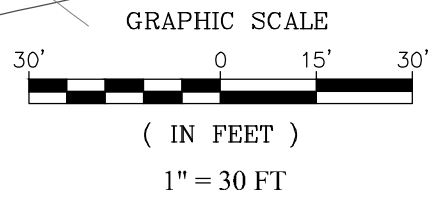
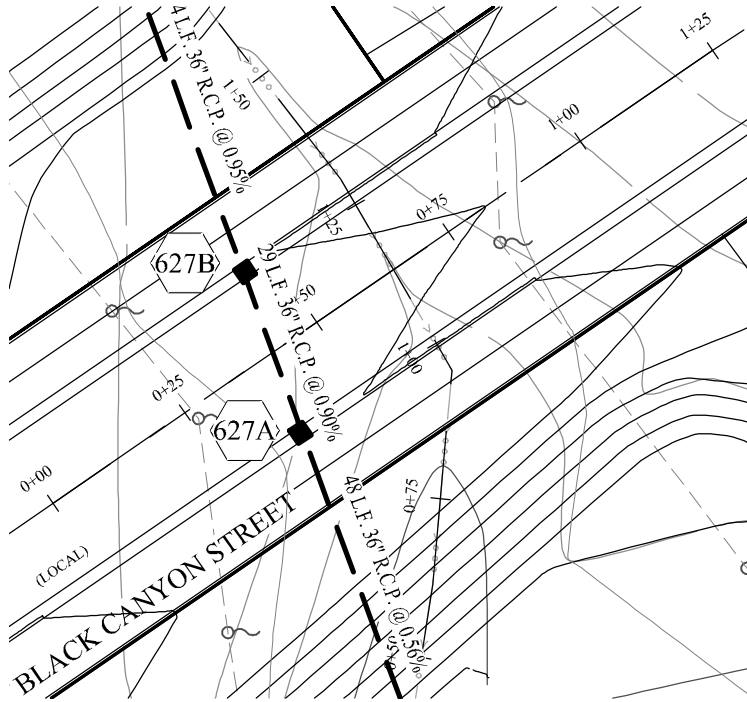


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 INDIANAPOLIS, INDIANA 46260
 CHRIS MCKINNEY
 PHONE: (317) 374-7504

PARKS AT DECATUR

CENTER LINE BLACK CANYON STREET



STOEPPELWERTH

ALWAYS ON

7965 East 106th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

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DATE DRAWN: 01/10/22
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1

OF 1 SHEETS



**INDIANA ARCHAEOLOGICAL
SHORT REPORT**
State Form 54566 (R3 / 3-22)

**INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY**
402 West Washington Street, Room W274
Indianapolis, Indiana 46204-2739
Telephone Number: (317) 232-1646
Fax Number: (317) 232-0693
E-mail: dhpa@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology (DHPA).

Name(s) of author(s) Stacy N. Bennett		Date (month, day, year) 11/4/2022
Title of project Archaeological Records Check and Phase 1a Field Reconnaissance on a Portion of the Proposed Parks at Decatur Residential Development in Decatur Civil Township, Marion County, Indiana		
This document is being used to report on the results of: <input type="checkbox"/> Records check only <input checked="" type="checkbox"/> Records check and Phase 1a archaeological reconnaissance <input type="checkbox"/> An addendum to a previous archaeological report. <i>For an addendum, provide the following information.</i>		
Name(s) of author(s) of previous report		
Title of previous report		
Date of previous report (month, day, year)		DHPA number

PROJECT OVERVIEW			
Description of project This study was completed on several wetland and stream channel impacts at the proposed Parks at Decatur residential development at the request of the United States Army Corps of Engineers. This reconnaissance involved the survey of a 100-foot buffer area around each of these impacts.			
INDOT designation number(s)	Project number 22338	DHPA number	DHPA plan number
Prepared for: (Company / Institution / Agency) Natural Resource Consulting, Inc.			
Name of contact Ron Dixon			
Address (number and street, city, state, and ZIP code) 7719 Knapp Road, Indianapolis, Indiana 46259			
Telephone number (317) 862-7446	E-mail address naturalresourceconsulting@gmail.com		
Name of principal investigator Jeffrey A. Plunkett			
Name of company / institution NS Services, LLC			
Address (number and street, city, state, and ZIP code) 4974 S. Cobblestone Drive, Zionsville, Indiana 46077			
Telephone number (317) 773-2774	E-mail address j.plunkett@nsvservices.com		
Signature of principal investigator (Required)		Date (month, day, year) 11/4/2022	

PROJECT LOCATION						
County Marion	USGS 7.5' series topographic quadrangle Bridgeport, Indiana				Civil township Decatur	
Legal Location						
Grid alignment South and west						
1/4	1/4	1/4	1/4	Section	Township	Range
-	-	-	SE	22	14N	2E

Comments						
Property ownership <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Private <input type="checkbox"/> Local Government <input type="checkbox"/> State Government <input type="checkbox"/> Federal Government <input type="checkbox"/> Other						
Name of owner						
Address of owner <i>(number and street, city, state, and ZIP code)</i>						

PROJECT AREA DETAILS	
<i>See Short Report instructions for required references to be consulted.</i>	
Size of project area <i>(hectares)</i> 9.8	Size of project area <i>(acres)</i> 24.3
Natural region Central Till Plain Natural Region, Tipton Till Plain (Indiana Department of Natural Resources, Division of Nature Preserves, Indiana Natural Heritage Data Center 2002)	Topography Upland flats
Soil(s) information Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes (CrA) – somewhat poorly drained, hydric (2%); Crosby-Miami silt loams, 2 to 4 percent slopes, eroded (CsB2) – somewhat poorly drained, hydric (3%); Miami silt loam, 2 to 6 percent slopes, eroded (MmB2) – moderately well drained, hydric (6%); Miami silt loam, 6 to 12 percent slopes, eroded (MmC2) – moderately well drained, hydric (5%); Shoals silt loam, 0 to 2 percent slopes, frequently flooded, brief duration (Sh) – somewhat poorly drained, hydric (4%) (United States Department of Agriculture, Natural Resources Conservation Service 2022).	Watershed Upper White River (Bernardin, Lochmueller and Associates 2002)
Current land usage Current land use is primarily agricultural. The south half of the southeast quarter of Section 22 is currently being developed for housing.	
Comments	

RECORDS CHECK	
<input type="checkbox"/> Records check only; no field investigation conducted.	Date of records check <i>(month, day, year)</i> October 10, 2022
Records consulted <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Archaeological site forms, reports in SHAARD, and SHAARD Archaeology and Structures Map Web Application <input type="checkbox"/> Cultural Resource Management reports, other research reports, etc., on file in locations other than SHAARD <input checked="" type="checkbox"/> Historical documents and maps from other institutions / resources <input checked="" type="checkbox"/> IHSSI / NRHP structures records in SHAARD <input checked="" type="checkbox"/> Cemetery records in SHAARD	
Within the Project Area	
Previously recorded archaeological sites <i>(Include citations)</i> None	
Previous archaeological studies within the project area <i>(Include citations)</i> None	
Name(s) of previously recorded cemetery(ies) None	
Cemetery registry number(s) None	
Outside the Project Area	
Distance from boundary <i>(Check one)</i> <input type="checkbox"/> Area researched was a half (½) mile radius from the boundary of the project area. <input checked="" type="checkbox"/> Area researched was a one (1) mile radius from the boundary of the project area. <input type="checkbox"/> Area researched was a two (2) mile radius from the boundary of the project area.	
Previously recorded archaeological sites <i>(Include citations)</i> A total of 44 previously recorded archaeological sites are located within one mile of the survey area. Information regarding each of these sites is provided in the attached Table 1.	

Previous archaeological studies <i>(Include citations)</i> One previous archaeological investigation has been conducted within one mile of the survey area (Brinker 1984). This investigation was a study of Late Archaic sites in central Indiana which surveyed approximately 1,805 acres and identified 234 sites.
Name(s) of previously recorded cemetery(ies) None
Cemetery registry number(s) None

FIELD INVESTIGATION

Date(s) of field investigation <i>(month, day, year)</i> October 21, 2022	Name of field supervisor Jeffrey A. Plunkett
--	---

Names of field crew Stacy N. Bennett

Field Conditions

Surface visibility 30-50%	Factors affecting visibility Visibility was affected by standing soy beans, leaf litter, and other vegetation.
Slope 0-12%	Environmental (weather) conditions during the survey Warm, breezy, dry and 70 degrees Fahrenheit

Methods

Surface survey <i>(Check all that apply)</i>			
<input type="checkbox"/> Visual walkover	Interval: <input type="checkbox"/> Thirty (30) meters	<input type="checkbox"/> Other <i>(Describe below.)</i>	
<input checked="" type="checkbox"/> Pedestrian survey	Interval: <input type="checkbox"/> Five (5) meters	<input checked="" type="checkbox"/> Ten (10) meters	<input type="checkbox"/> Other <i>(Describe below.)</i>

Describe methods.
All undisturbed portions of the survey areas that were relatively level, had more than 30% ground surface visibility, and survey conditions adequate for detecting archaeological sites; were surface surveyed using parallel visual pedestrian transects spaced at 10 m (32.8 ft.) intervals.

Shovel probes <i>(Check all that apply)</i>				
<input type="checkbox"/> Shovel probes	Interval: <input type="checkbox"/> Five (5) meters	<input type="checkbox"/> Ten (10) meters	<input type="checkbox"/> Fifteen (15) meters	<input type="checkbox"/> Other <i>(Describe below)</i>

The standard is screened shovel probes using 1/4" size mesh. If shovel probes were not screened, or a different size mesh was utilized, an explanation must be provided in the methods below.

Describe methods.

Cores / auger probes <i>(Check all that apply)</i>				
<input type="checkbox"/> Cores / auger probes	Interval: <input type="checkbox"/> Five (5) meters	<input type="checkbox"/> Ten (10) meters	<input type="checkbox"/> Fifteen (15) meters	<input type="checkbox"/> Other <i>(Describe below)</i>

The standard is screened cores / auger probes using 1/4" size mesh. If cores / auger probes were not screened, or a different size mesh was utilized, an explanation must be provided in the methods below.

Describe methods.

Additional field investigation comments

RESULTS

Summary of relevant regional culture background
At the time of this investigation, at least 1050 archaeological sites have been registered within Marion County representing the full span of prehistoric time periods as well as a significant number of historic sites including cabins, farmsteads, schools, bridges, historic dumps, military facilities, a military encampment, trolley tracks, and a portion of the Central Canal. Specific prehistoric cultural phases identified within the county include Laurentian Tradition, Oliver, and Riverton. The county has two archaeological sites that are listed in the National Register of Historic Places. The first of these sites is 12-Ma-648, which is an unidentified prehistoric lithic scatter and early 19th century artifact scatter. The second site is 12-Ma-649, which is an Early Archaic, Late Archaic, and Late Woodland/Mississippian lithic scatter and an early 19th century artifact scatter. Both of

these sites are located on property of Fort Benjamin Harrison.

The 1855 historic atlas of Marion County (Condit, Wright & Hayden 1855) shows Edward Wallen as the owner of the southeast quarter of Section 22 but does not show structures. The 1866 atlas (Warner 1866) shows William Mills as the owner of the quarter section and depicts a house within the notheast quarter of the section. This structure appears to be located in the same location as several structures shown on the current topographic map just to the northeast of the survey areas. The 1889 atlas (Fatout 1889) shows Levi Paddock as the owner of the quarter section and depicts two structures further north and east than the one shown on the 1866 atlas.

Records check (Check all that apply)

- The project area does not have the potential to contain archaeological resources. *Provide explanation / justification.*
- There are previously recorded archaeological resources within the project area, but those resources do not warrant additional archaeological investigation. *Provide explanation / justification.*
- The project area contains previously recorded archaeological resources that warrant additional investigation and/or the project area has the potential to contain archaeological resources. *Provide explanation / justification.*
 - Based upon the records check results, a reconnaissance has been conducted.
- A cemetery is located within or adjacent to the project area.

Explanation / justification

The potential for undisturbed ground within the survey areas and location of nearby archaeological sites suggested that the project may impact undocumented archaeological resources. As a result, a Phase 1a archaeological reconnaissance of the project was determined to be necessary.

Phase 1a archaeological reconnaissance (Check all that apply)

- No Phase 1a reconnaissance was conducted.
- Phase 1a reconnaissance located no archaeological resources.
- Previously recorded sites were in the project area.
 - Artifacts and/or features at a previously recorded site(s) within the project area were not discovered. *List the site(s) below.*
- Phase 1a reconnaissance has identified landforms conducive to buried archaeological deposits. *Describe below.*

List sites.

Describe landforms.

Number of shovel probes excavated

Number of cores / auger probes

Describe disturbances. Attach photographs documenting disturbances.

The southeastern survey area located adjacent to Paddock Road had been disturbed by residential development prior to this reconnaissance. Although the wetland area located here remains undisturbed, earthmoving has occurred up to the edge of this wetland.

The only other significant ground disturbances encountered in the survey areas were areas that had been impacted by steep slope erosion and stream channel down-cutting.

Actual area surveyed (hectares)

9.8

Actual area surveyed (acres)

24.3

Explain results of fieldwork.

As discussed above, the southeastern survey area was all found to be previously disturbed prior to this investigation. The southwestern survey area was entirely covered by woods and weeds and was also found to be disturbed; however, this time it was all natural disturbance caused by steep slope erosion and stream channel down-cutting.

The wetland and stream channel impact areas in the northern survey area were covered in weeds and cattails with smaller areas of woods and weeds in the disturbed steeply sloped and eroded areas surrounding these impact areas. A cultivated agricultural field containing soybeans and weeds and having a ground surface visibility of 30-50% surrounded all of the impact areas in the northern portion of the project and was surface surveyed at 10-meter intervals.

RECOMMENDATIONS

Records check (Check all that apply)

- No archaeological investigation is recommended before the project is allowed to proceed because the records check has determined that the project area does not have the potential to contain archaeological resources.
- A Phase 1a archaeological reconnaissance is recommended.
- Based upon the records check results, a Phase 1a archaeological reconnaissance was recommended and has been conducted.
- A cemetery development plan may be required under Indiana Code 14-21-1-26.5 because project ground disturbance will be within 100 feet of a cemetery.

Phase 1a archaeological reconnaissance (Check all that apply)

- It is recommended that the project be allowed to proceed as planned because the Phase 1a archaeological reconnaissance has located no archaeological sites within the project area and/or previously recorded sites that were investigated warrant no additional investigation.
- It is recommended that Phase 1c archaeological subsurface reconnaissance be conducted before the project is allowed to proceed. The Phase 1a archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits.

Other recommendations / commitments

Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.

REQUIRED ATTACHMENTS

- Figure showing project location within Indiana
- USGS topographic map showing the project area (1:24,000 scale)
- Aerial photograph showing the project area, land use and survey methods
- Photographs of the project area, including, if applicable, photographs documenting disturbances
- Project plans (if available)

Other attachments

Table 1. Previously recorded archaeological sites within one mile of the survey areas.

References cited (See short report instructions for required references to be consulted)

Baskin, Forster, and Company

1876 Map of Spencer County. In Illustrated Atlas of the State of Indiana. Baskin, Forster and Company, Chicago.

Bernardin, Lochmueller and Associates

2002 WATERSHEDS_HUC08_CATALOG_UNITS_USGS_IN: Cataloging Units, 8-digit, Hydrologic Units, in Indiana, (Derived from US Geological Survey, 1:24,000 Polygon Shapefile). <https://maps.indiana.edu/>.

Brinker, Ruth

1984 An Archaeological Survey of Late Archaic Sites in Central Indiana. Glenn A. Black Laboratory of Archaeology, Indiana University, Bloomington, Indiana. Prepared for Indiana Department of Natural Resources, Indianapolis.

Condit, Wright & Hayden

1855 Map of Marion County, Indiana. Middleton, Wallace & Co., Cincinnati.

Fatout, Hervey B.

1889 Atlas of Indianapolis and Marion County, Indiana. Griffing, Gordon & Co., Philadelphia.

Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology

2022 SHAARD. Electronic document. <https://secure.in.gov/apps/dnr/shaard/welcome.html>, accessed June 10, 2022.

Indiana Department of Natural Resources, Division of Nature Preserves, Indiana Natural Heritage Data Center

2002 NATURAL_REGIONS_IDNR_IN: Natural Regions of Indiana (Indiana Department of Natural Resources, 1:800,000, Polygon Shapefile). Digitized from map data in Michael A. Homoya, D. Brian Abrell, James Aldrich, and Thomas W. Post, 1985, The Natural Regions of Indiana, Proceedings of the Indiana Academy of Science 94:245-268. <https://maps.indiana.edu/>.

United States Department of Agriculture, Natural Resources Conservation Service

2022 Web Soil Survey. Electronic document, <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>, accessed October 7, 2022.

Warner, A.

1866 Map of Marion County, Indiana. C. O. Titus, Philadelphia.

Comments

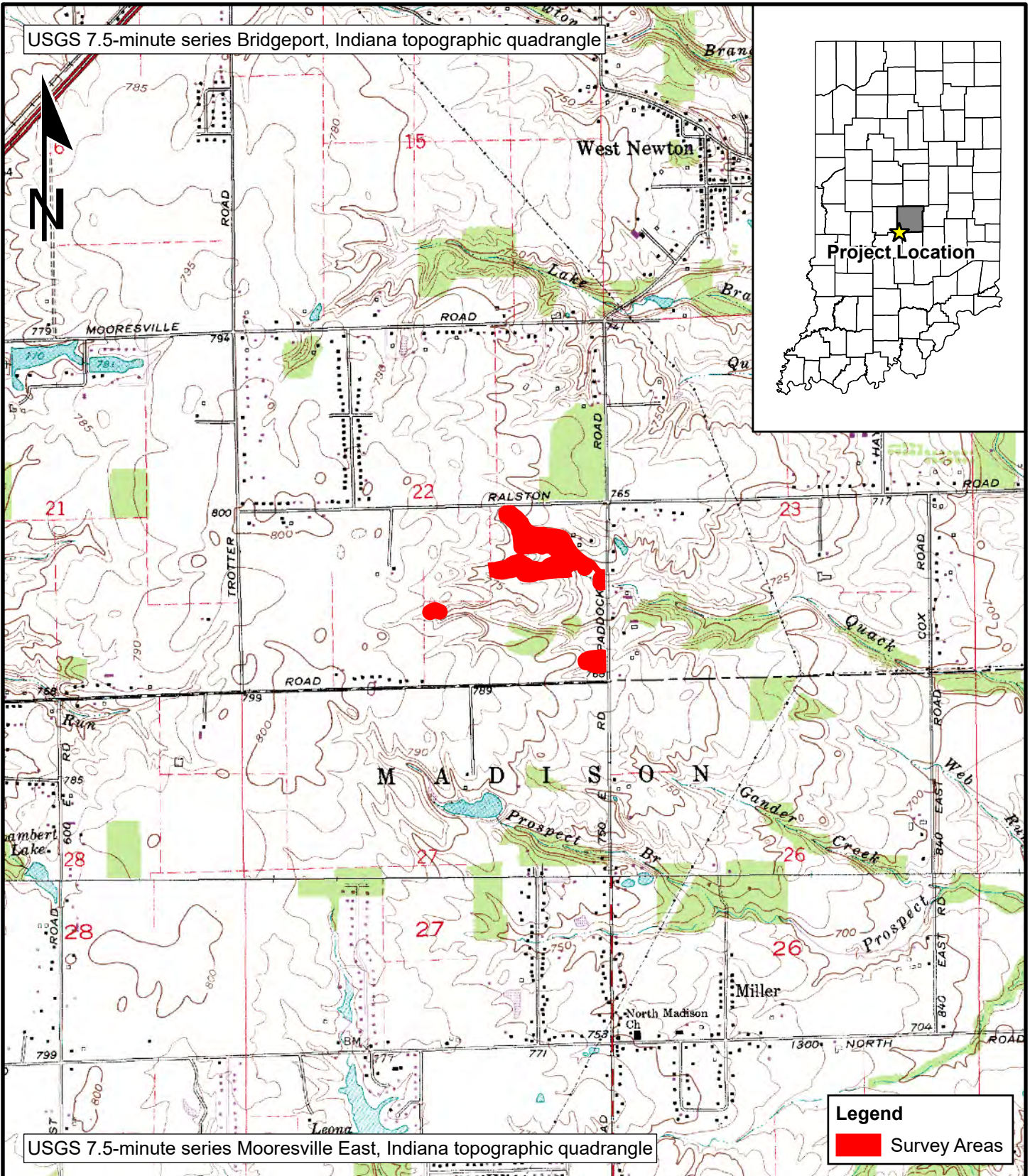
CURATION

Location of project documentation
Office of NS Services, LLC

Table 1. Previously recorded archaeological sites within one mile of the survey areas.

State Site #	Cultural Affiliation	Site Type	Previous Recommendation	Reference
12MG85	Unidentified prehistoric	Isolated find	None given	Brinker 1984
12MG86	Unidentified prehistoric, Historic	Lithic scatter, Dump	None given	Brinker 1984
12MG87	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG88	Early Archaic, Late Archaic	Lithic scatter	None given	Brinker 1984
12MG89	Early Archaic, Late Archaic	Camp	None given	Brinker 1984
12MG90	Early Archaic	Lithic scatter	None given	Brinker 1984
12MG91	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG92	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG93	Early Archaic	Camp	None given	Brinker 1984
12MG94	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG95	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG98	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG99	Unidentified prehistoric, Historic	Lithic scatter, Historic scatter	None given	Brinker 1984
12MG100	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG101	Unidentified prehistoric	Isolated find	None given	Brinker 1984
12MG102	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG103	Late Archaic	Camp	None given	Brinker 1984
12MG106	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG107	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG108	Unidentified prehistoric	Isolated find	None given	Brinker 1984
12MG109	Unidentified prehistoric	Lithic scatter	None given	Brinker 1984
12MG110	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG111	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG112	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG113	Middle Woodland	Isolated find	None given	Brinker 1984
12MG114	Archaic, Historic	Lithic scatter, Farmstead	None given	Brinker 1984
12MG115	Early Archaic	Camp	None given	Brinker 1984
12MG116	Late Archaic, Historic	Camp, Historic scatter	None given	Brinker 1984
12MG117	Early Archaic	Camp	None given	Brinker 1984
12MG118	Late Archaic	Camp	None given	Brinker 1984
12MG119	Late Archaic	Camp	None given	Brinker 1984
12MG120	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG121	Early Archaic, Middle Archaic, Late Archaic	Camp	None given	Brinker 1984
12MG131	Late Archaic	Camp	None given	Brinker 1984
12MG132	Early Archaic	Camp	None given	Brinker 1984
12MG133	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG134	Late Archaic	Isolated find	None given	Brinker 1984
12MG135	Late Archaic	Isolated find	None given	Brinker 1984
12MG136	Late Archaic	Isolated find	None given	Brinker 1984
12MG137	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG138	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG139	Unidentified prehistoric	Camp	None given	Brinker 1984
12MG140	Late Woodland	Camp	None given	Brinker 1984
12MG141	Unidentified prehistoric	Camp	None given	Brinker 1984

USGS 7.5-minute series Bridgeport, Indiana topographic quadrangle



USGS 7.5-minute series Mooresville East, Indiana topographic quadrangle

Legend
 Survey Areas

2,000 0 2,000
 Feet

Date: 11/3/2022

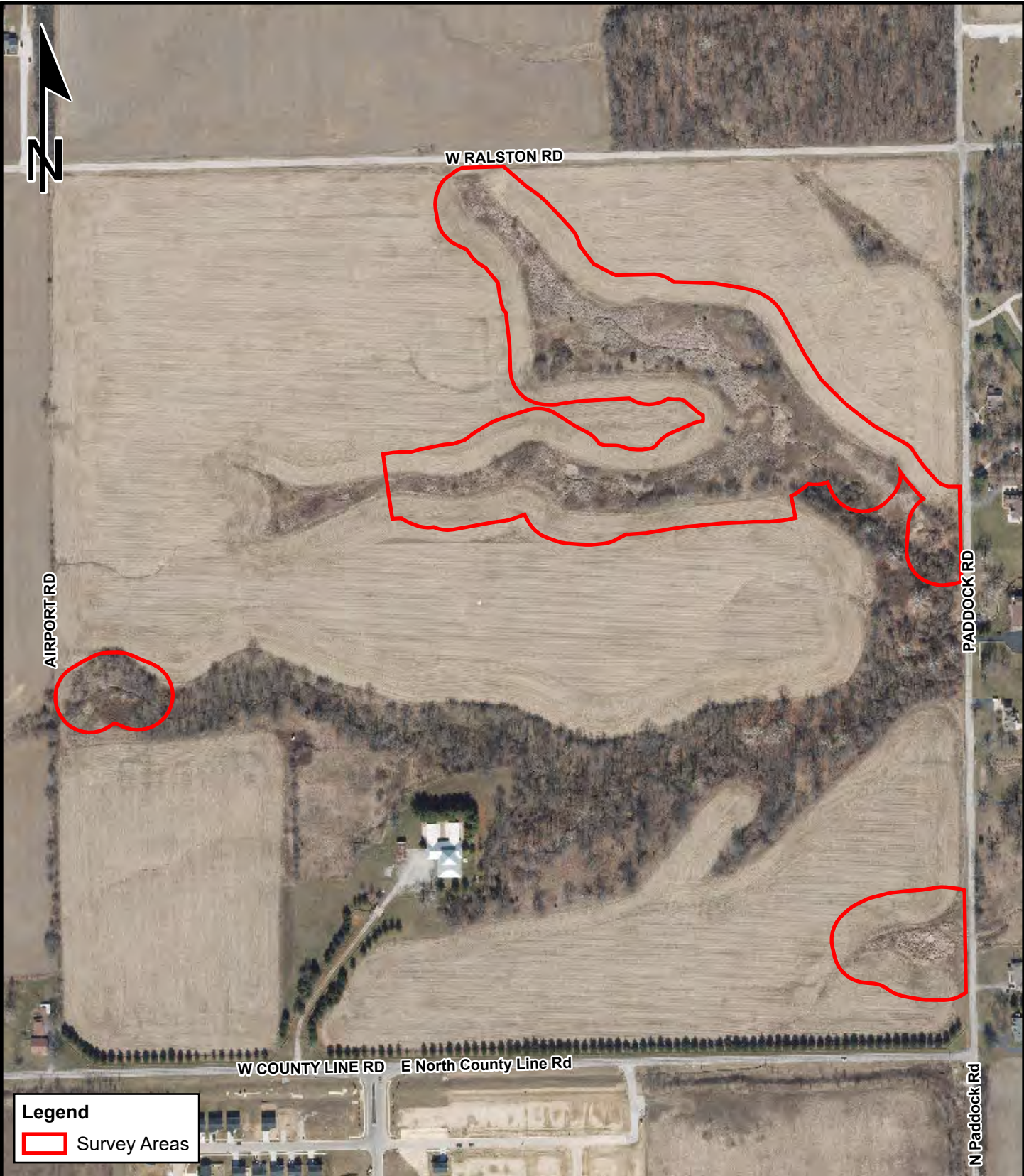
600 0 600
 Meters

PROJECT LOCATION MAP

Proposed Parks at Decatur Residential Development in
 Decatur Civil Township, Marion County, Indiana.

*This map is intended to serve as an aid in graphic representation only.
 This information is not warranted for accuracy or other purposes.*

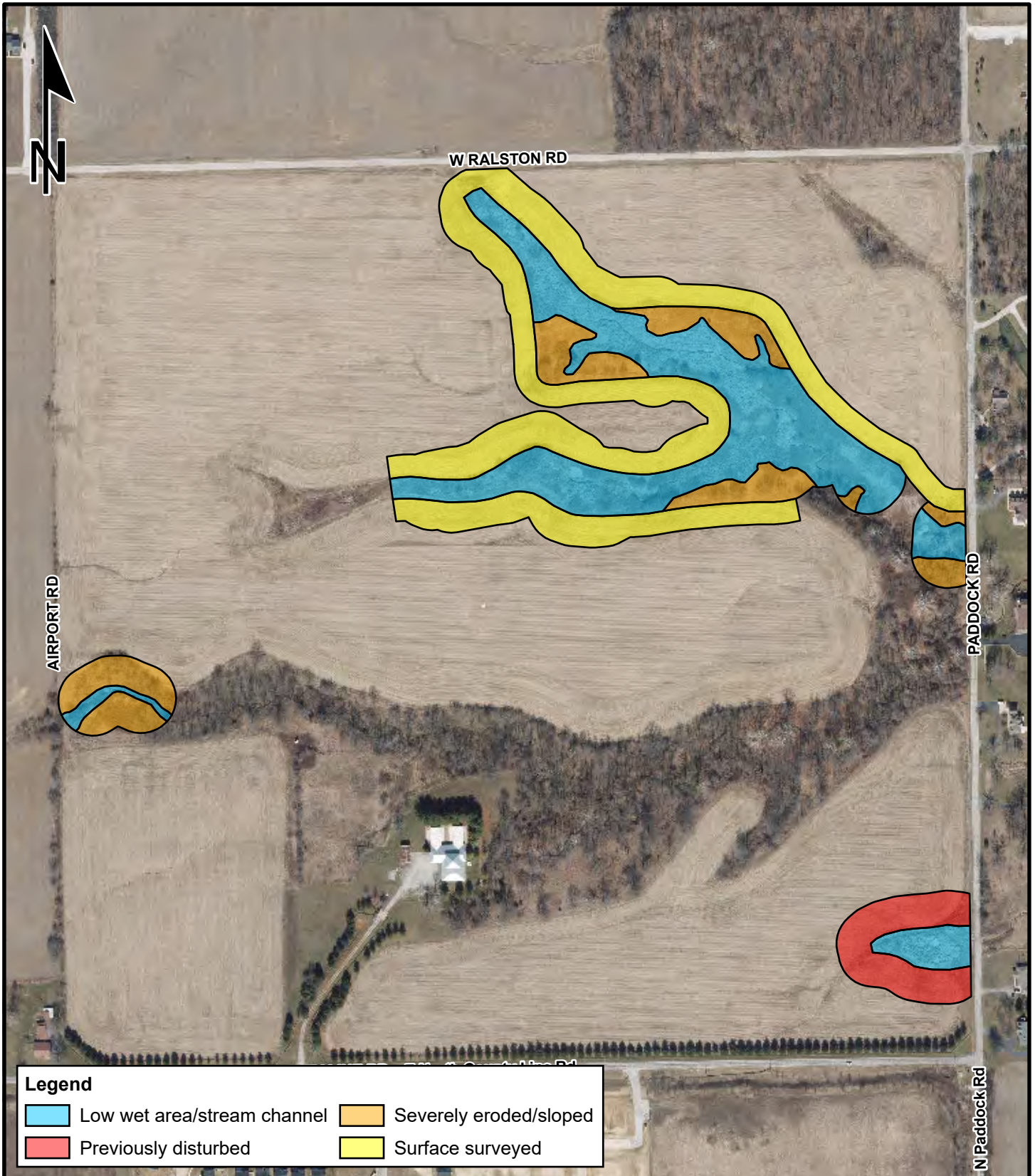
NS Services
 Environmental & Infrastructure
www.nsenvservices.com



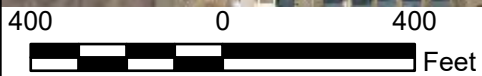
PROJECT AREA MAP (2021 AERIAL)

Proposed Parks at Decatur Residential Development in Decatur Civil Township, Marion County, Indiana.
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

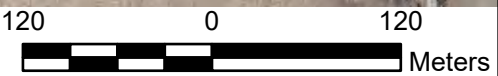
NS Services
 Environmental & Infrastructure
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Legend			
■	Low wet area/stream channel	■	Severely eroded/sloped
■	Previously disturbed	■	Surface surveyed



Date: 11/3/2022



LAND USE AND SURVEY METHODS MAP

Proposed Parks at Decatur Residential Development in Decatur Civil Township, Marion County, Indiana.

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

NS Services
 Environmental & Infrastructure
www.nsenvservices.com



Photograph 1. Panoramic view of the south edge of the southeastern survey area showing previous disturbance, facing west.



Photograph 2. Panoramic view of the west edge of the southeastern survey area showing previous disturbance, facing south.



Photograph 3. View of the southwest survey area, facing north.



Photograph 4. View of down-cut channel in the southwest survey area, facing east.



Photograph 5. View of the soybean field located northeast of the northern survey area, facing northwest.



Photograph 6. View of the soybean field located northeast of the northern survey area, facing northwest.



Photograph 7. View of the soybean field located south of the northern survey area, facing west.



Photograph 8. View of the soybean field located south of the northern survey area, facing east.



Photograph 9. Typical visibility in the soybean field northeast of the northern survey area.



Photograph 10. Typical visibility in the soybean field south of the northern survey area.



Wetland Delineation Report

**For: Parks at Decatur
Camby, Indiana**

**Prepared For:
Mark Bridwell
D.R. Horton**

**By: Ron L. Dixon
Natural Resource Consulting**

April, 2021

May 4, 2021

Mark A. Bridwell
Division Vice President, Land Development
D.R. Horton
9210 N. Meridian Street
Indianapolis, Indiana 46260

Dear Mr. Bridwell:

This is a report regarding the wetland delineation we did for the 160-acre +/- Parks at Decatur site located off in Camby, Indiana. We did a wetland delineation and a Waters of the U.S. delineation of the plants, soils, and hydrology of the site, per current U.S. Army Corps of Engineers (USACE) standards and specifications.

There are a total of 11 wetlands delineated at this site; Wetlands A through K, detailed further in this report. We also delineated 7 bed and bank channels which may be possible Waters of the U.S. (W.O.T.U.S).

The crop fields appear to have a working subsurface drainage system. It is important to understand that if the fields are left to go fallow for one or more growing seasons, it is possible that dormant wetland seed could begin to emerge in any hydric soils. Therefore, it is our recommendation that the site continue to be farmed each year until development is ready to begin.

If you decide to impact any of these wetlands, then the next step would be to apply for an official Jurisdictional Determination (JD) from USACE. If necessary, we can assist you with preparing and submitting the permit application.

Please contact us if you have any questions.

Thank you.

A handwritten signature in black ink that reads "Ron Dixon". The signature is written in a cursive style with a large, prominent "R" and "D".

Ron Dixon
Natural Resource Consultant

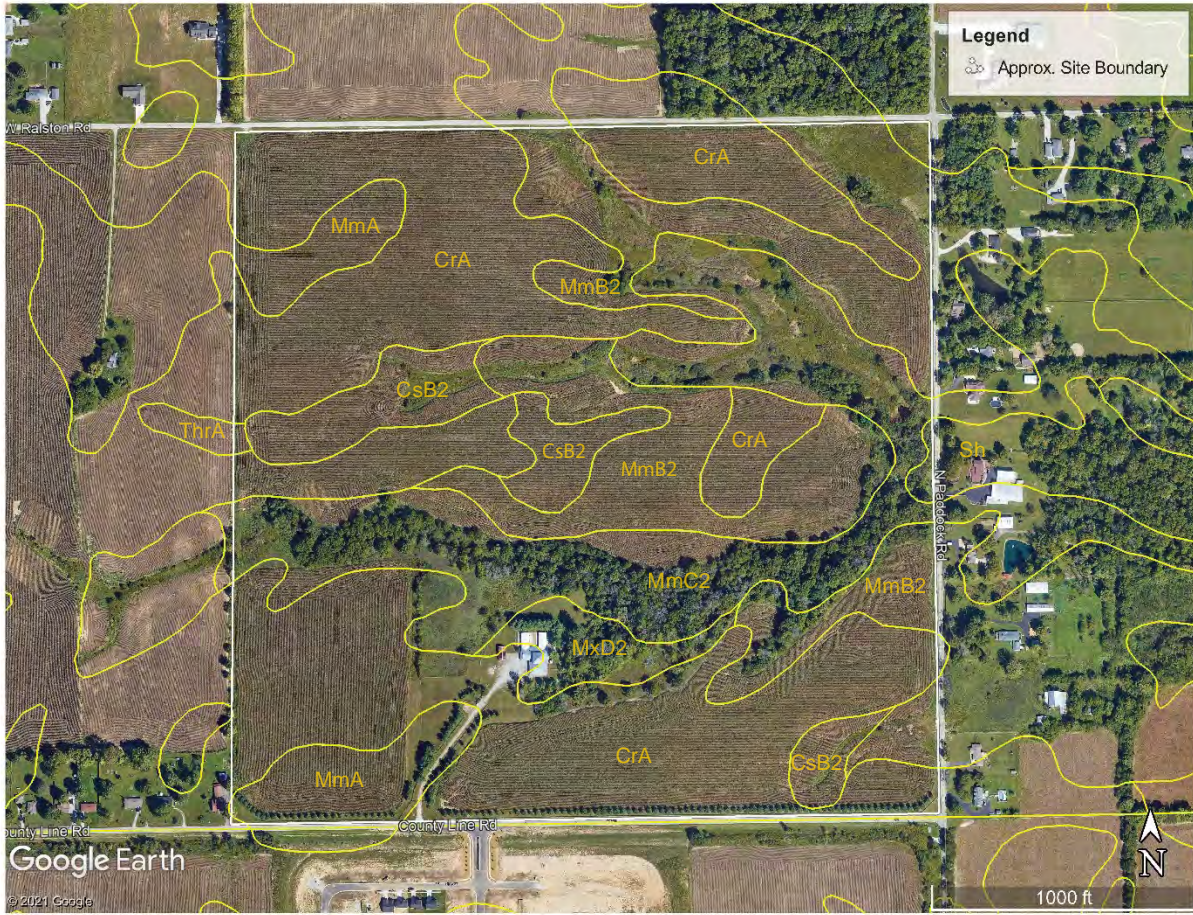


Figure 2. USDA NRCS Soil Survey.

Map Unit Symbol	Map Unit Name	Drainage	Hydric Soil Rating
ThrA	Treaty silty clay loam, 0 to 1 percent slopes	Poorly drained	Yes
Sh	Shoals silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	Somewhat poorly drained	No
CrA	Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes	Somewhat poorly drained	No
CsB2	Crosby-Miami silt loams, 2 to 4 percent slopes, eroded	Moderately well drained	No
MmA	Miami silt loam, 0 to 2 percent slopes, gravelly substratum	Moderately well drained	No
MmB2	Miami silt loam, 2 to 6 percent slopes, eroded	Moderately well drained	No
MmC2	Miami silt loam, 6 to 12 percent slopes, eroded	Moderately well drained	No
MxD2	Miami complex, 12 to 18 percent slopes, eroded	Moderately well drained	No

Table 1. List and description of on-site soils.



March 20, 2021

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Figure 3. NFWS NWI Map.



Figure 4. 2020 aerial photograph.



Figure 5. 2018 aerial photograph.



Figure 6. Approximate wetland and bed and bank channel locations – south tract.



Figure 7. Approximate wetland and bed and bank channel locations – north tract.

Wetland	Size (acres +/-)	Type	Estimated JD Status
A	0.62	PEM (Emergent)	Jurisdictional
B	0.17	PEM (Emergent) / PSS (Scrub)	Jurisdictional
C	0.11	PEM (Emergent) / PSS (Scrub)	Jurisdictional
D	0.04	PEM (Emergent)	Jurisdictional
E	0.30	PEM (Emergent) / PSS (Scrub)	Jurisdictional
F	0.98	PEM (Emergent) / PSS (Scrub)	Jurisdictional
G	0.52	PEM (Emergent)	Jurisdictional
H	0.03	PEM (Emergent)	Jurisdictional
I	0.33	PEM (Emergent) / PSS (Scrub)	Jurisdictional
J	2.00	PEM (Emergent)	Jurisdictional
K	0.14	PEM (Emergent)	Jurisdictional

Table 2. Description of delineated wetlands.

Channel Unit	Type	Length (lineal feet +/-)
1	Intermittent	3,749
2	Intermittent	206
3	Intermittent	486
4	Intermittent	423
5	Intermittent	1,592
6	Intermittent	119
7	Intermittent	2,376

Table . Description of on-site bed and bank channels

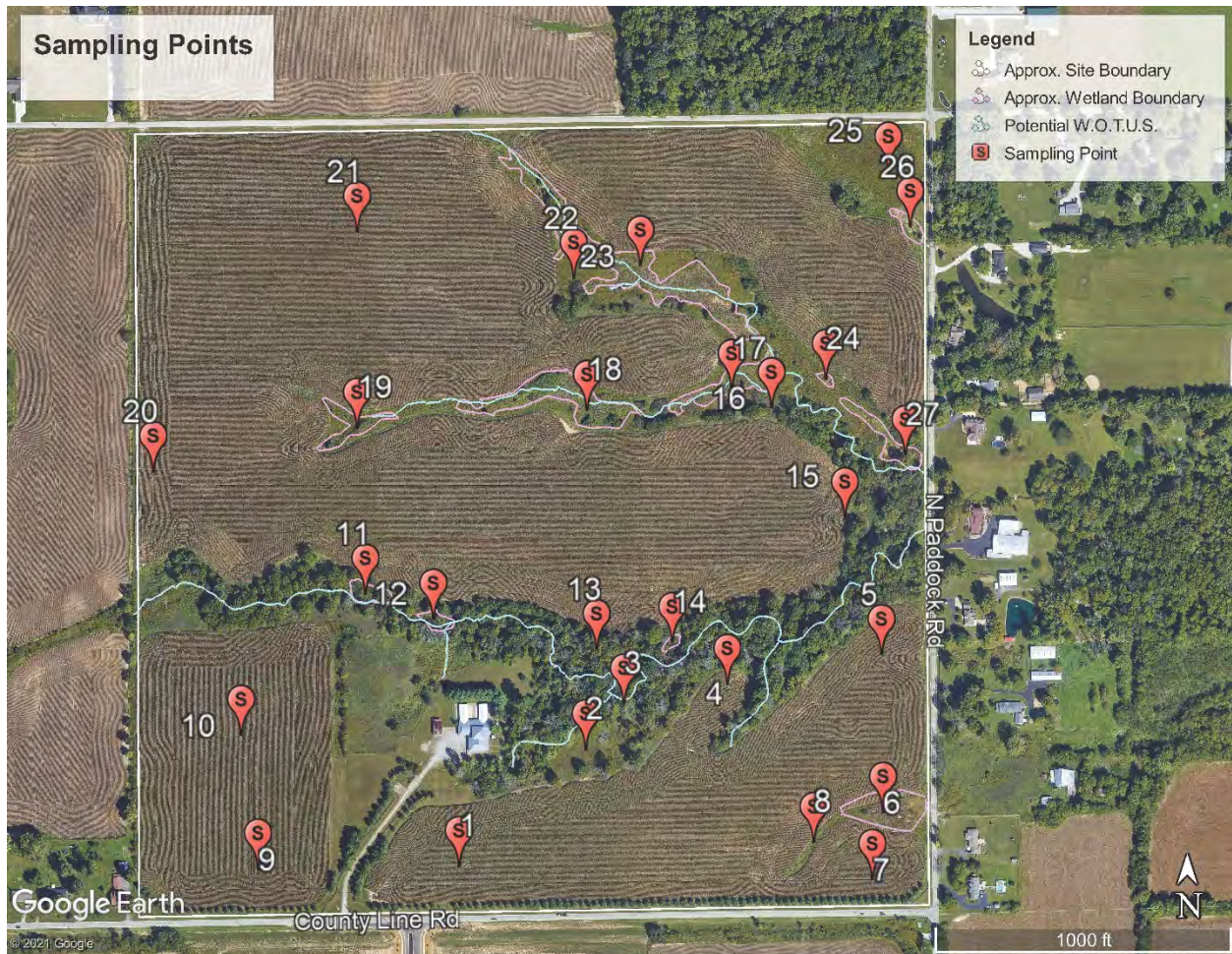


Figure 8. Sampling point locations.

Common Name	Scientific Name	Indicator
American Beech	<i>Fagus grandifolia</i>	FACU
American Hornbeam	<i>Carpinus caroliniana</i>	FAC
American Sycamore	<i>Platanus occidentalis</i>	FACW
Black Cherry	<i>Prunus serotina</i>	FACU
Black Walnut	<i>Juglans nigra</i>	FACU
Broad-Leaf Cat-Tail	<i>Typha latifolia</i>	OBL
Broom-Sedge	<i>Andropogon virginicus</i>	FACU
Bush Honeysuckle	<i>Lonicera tatarica</i>	FACU
Callery Pear	<i>Pyrus calleryana</i>	FACU
Canada Goldonrod	<i>Solidago canadensis</i>	FACU
Canada Thistle	<i>Cirsium arverse</i>	FACU
Common Hackberry	<i>Celtis occidentalis</i>	FAC
Dogtooth Violet	<i>Erythronium americanum</i>	UPL
Eastern Red-Cedar	<i>Juniperus virginiana</i>	FACU
Eastern Woodland Sedge	<i>Carex blanda</i>	FAC
Fowl Manna Grass	<i>Glyceria striata</i>	OBL
Fuller's Teasel	<i>Dipsacus follonum</i>	FACU
Giant Foxtail Grass	<i>Setaria faberi</i>	FACU
Giant Ironweed	<i>Vernonia gigantea</i>	FAC
Hairy Wild Rye	<i>Elymus villosus</i>	FACU
Hairy Willowherb	<i>Epilobium hirsutum</i>	FACW
Henbit	<i>Lamium amplexicaule</i>	UPL
Japanese Bristle Grass	<i>Setaria faberi</i>	FACU
King's-Cureall	<i>Oenothera biennis</i>	FACU
Late Goldenrod	<i>Solidago gigantea</i>	FACW
Meadow Fescue	<i>Festuca pratensis</i>	FACU
Milkweed	<i>Asclepias syriaca</i>	FACU
Morrow's Honeysuckle	<i>Lonicera morrow ii</i>	FACU
Orchard Grass	<i>Dactylis glomerata</i>	FACU
Poison Hemlock	<i>Conium maculatum</i>	FACW
Purple Dead-Nettle	<i>Lamium purpureum</i>	UPL

Rambler Rose	<i>Rosa multiflora</i>	FACU
Red Mulberry	<i>Morus rubra</i>	FACU
Reed Canary Grass	<i>Phalaris arundinacea</i>	FACW
River-Bank-Grape	<i>Vitis riparia</i>	FACW
Shag-Bark Hickory	<i>Carya ovata</i>	FACU
Shepherd's-Purse	<i>Capsella bursa-pastoris</i>	FACU
Silky Dogwood	<i>Cornus amomum</i>	FACW
Smooth Brome	<i>Bromus inermis</i>	FACU
Spotted Touch-Me-Not	<i>Impatiens capensis</i>	FACW
Spring Draba	<i>Draba verna</i>	UPL
Swamp Rose	<i>Rosa palustris</i>	OBL
Tuliptree	<i>Liriodendron tulipifera</i>	FACU
Watercress	<i>Nasturtium officinale</i>	OBL
White Avens	<i>Geum canadense</i>	FAC
White Heath American-Aster	<i>Symphotrichum ericoides</i>	FACU
White Willow	<i>Salix alba</i>	FACW

Table 4. List of on-site vegetation.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 1
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swell Local relief (concave, convex, none): Convex
 Slope (%): 2 Lat: 39.63323°N Long: 086.29389°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
---	--

Remarks:
 This is row crop ground.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____																					
3. _____																					
4. _____																					
5. _____																					
_____ =Total Cover					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>0</u> (A)</td> <td><u>0</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>0</u> (A)	<u>0</u> (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>0</u> (A)	<u>0</u> (B)																				
Prevalence Index = B/A = _____																					
_____ =Total Cover																					
Sapling/Shrub Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____					Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																					
3. _____																					
4. _____																					
5. _____																					
_____ =Total Cover																					
Herb Stratum	(Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Corn residue</u>		<u>100</u>	<u>Yes</u>		Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																
2. _____																					
3. _____																					
4. _____																					
5. _____																					
6. _____																					
7. _____																					
8. _____																					
9. _____																					
10. _____																					
<u>100</u> =Total Cover																					
Woody Vine Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____					Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																
2. _____																					
_____ =Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/2	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Gleyed Matrix (S4) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Dark Surface (S7) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> 2 cm Muck (A10) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) | <input type="checkbox"/> Redox Depressions (F8) |

Indicators for Problematic Hydric Soils³:

- | |
|--|
| <input type="checkbox"/> Coast Prairie Redox (A16) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (F22) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
Crosby silt loam (CrA) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants (B14) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 2
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Berm Local relief (concave, convex, none): Convex
 Slope (%): 8-9 Lat: 39.63429°N Long: 086.29237°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MxD2), 12 to 18 percent slopes, eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Carya ovata</u>	<u>5</u>	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																																
2. <u>Liriodendron tulipifera</u>	<u>5</u>	Yes	FACU																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
<u>10</u> =Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td align="center"><u>0</u></td> <td>x 1 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td align="center"><u>0</u></td> <td>x 2 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td align="center"><u>0</u></td> <td>x 3 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td align="center"><u>125</u></td> <td>x 4 =</td> <td align="center"><u>500</u></td> </tr> <tr> <td>UPL species</td> <td align="center"><u>10</u></td> <td>x 5 =</td> <td align="center"><u>50</u></td> </tr> <tr> <td>Column Totals:</td> <td align="center"><u>135</u> (A)</td> <td></td> <td align="center"><u>550</u> (B)</td> </tr> <tr> <td align="center" colspan="4">Prevalence Index = B/A = <u>4.07</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>0</u>	x 3 =	<u>0</u>	FACU species	<u>125</u>	x 4 =	<u>500</u>	UPL species	<u>10</u>	x 5 =	<u>50</u>	Column Totals:	<u>135</u> (A)		<u>550</u> (B)	Prevalence Index = B/A = <u>4.07</u>			
Total % Cover of:		Multiply by:																																		
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
FACW species	<u>0</u>	x 2 =	<u>0</u>																																	
FAC species	<u>0</u>	x 3 =	<u>0</u>																																	
FACU species	<u>125</u>	x 4 =	<u>500</u>																																	
UPL species	<u>10</u>	x 5 =	<u>50</u>																																	
Column Totals:	<u>135</u> (A)		<u>550</u> (B)																																	
Prevalence Index = B/A = <u>4.07</u>																																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																																				
1. <u>Juniperus virginiana</u>	<u>10</u>	Yes	FACU																																	
2. <u>Pyrus calleryana</u>	<u>10</u>	Yes	UPL																																	
3. <u>Morus rubra</u>	<u>5</u>	Yes	FACU																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
<u>25</u> =Total Cover																																				
Herb Stratum (Plot size: <u>5'</u>)																																				
1. <u>Solidago canadensis</u>	<u>30</u>	Yes	FACU	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. <u>Andropogon virginicus</u>	<u>20</u>	Yes	FACU																																	
3. <u>Festuca pratensis</u>	<u>20</u>	Yes	FACU																																	
4. <u>Symphotrichum ericoides</u>	<u>10</u>	No	FACU																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
<u>80</u> =Total Cover																																				
Woody Vine Stratum (Plot size: <u>15'</u>)																																				
1. <u>Rosa multiflora</u>	<u>20</u>	Yes	FACU																																	
2. _____	_____	_____	_____																																	
<u>20</u> =Total Cover																																				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 4/4	100					Loamy/Clayey	
4-16	7.5YR 4/4	95	10YR 5/4	5	C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Gleyed Matrix (S4) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Dark Surface (S7) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> 2 cm Muck (A10) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) | <input type="checkbox"/> Redox Depressions (F8) |

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Miami silt loam (MxD2) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants (B14) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) |

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 3
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Ridge Local relief (concave, convex, none): Linear
 Slope (%): 16 Lat: 39.63470°N Long: 086.29192°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmC2), 6 to 12 percent slopes, eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
 This is a typical ridge along Stream Unit 1.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>14.3%</u> (A/B)
1. <u>Fagus grandifolia</u>	<u>10</u>	Yes	FACU	
2. <u>Liriodendron tulipifera</u>	<u>10</u>	Yes	FACU	
3. <u>Prunus serotina</u>	<u>5</u>	No	FACU	
4. <u>Celtis occidentalis</u>	<u>5</u>	No	FAC	
5. _____				
<u>30</u> =Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>115</u> x 4 = <u>460</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>135</u> (A) <u>510</u> (B) Prevalence Index = B/A = <u>3.78</u>
1. <u>Fagus grandifolia</u>	<u>20</u>	Yes	FACU	
2. <u>Lonicera morrowii</u>	<u>20</u>	Yes	FACU	
3. <u>Prunus serotina</u>	<u>10</u>	No	FACU	
4. <u>Liriodendron tulipifera</u>	<u>10</u>	No	FACU	
5. <u>Celtis occidentalis</u>	<u>5</u>	No	FAC	

<u>65</u> =Total Cover				
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: ____ 1 - Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is >50% ____ 3 - Prevalence Index is ≤3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Dactylis glomerata</u>	<u>20</u>	Yes	FACU	
2. <u>Elymus villosus</u>	<u>10</u>	Yes	FACU	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
<u>30</u> =Total Cover				
Woody Vine Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. <u>Vitis riparia</u>	<u>10</u>	Yes	FACW	
2. _____				
<u>10</u> =Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 4/4	100					Loamy/Clayey	
7-16	7.5YR 4/4	90	10YR 5/4	5	C	M	Loamy/Clayey	
			10YR 5/6	5	C	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
Miami silt loam (MmC2) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Gauge or Well Data (D9)
	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 4
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swell Local relief (concave, convex, none): Convex
 Slope (%): 1 Lat: 39.63484°N Long: 086.29068°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: This is row crop ground.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">Total % Cover of:</td> <td style="width: 50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>15</u></td> <td>x 5 = <u>75</u></td> </tr> <tr> <td>Column Totals: <u>25</u> (A)</td> <td><u>115</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.60</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>15</u>	x 5 = <u>75</u>	Column Totals: <u>25</u> (A)	<u>115</u> (B)	Prevalence Index = B/A = <u>4.60</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>10</u>	x 4 = <u>40</u>																				
UPL species <u>15</u>	x 5 = <u>75</u>																				
Column Totals: <u>25</u> (A)	<u>115</u> (B)																				
Prevalence Index = B/A = <u>4.60</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Corn residue</u>	90	Yes		Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Lamium amplexicaule</u>	15	No	UPL																	
3.	<u>Capsella bursa-pastoris</u>	10	No	FACU																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		115 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>																
2.	_____	_____	_____	_____																	
		=Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 4/2	100					Loamy/Clayey	
7-16	10YR 5/4	85	10YR 5/6	10	C	M	Loamy/Clayey	
			10YR 5/2	5	D	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Crosby silt loam (CrA) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): 0
 Water Table Present? Yes _____ No X Depth (inches): 0
 Saturation Present? Yes _____ No X Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 5
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Knoll Local relief (concave, convex, none): Convex
 Slope (%): 4 Lat: 39.63543°N Long: 086.28869°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmB2), 2-6 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: This is row crop ground.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>15</u></td> <td>x 5 = <u>75</u></td> </tr> <tr> <td>Column Totals: <u>15</u> (A)</td> <td><u>75</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>5.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>15</u>	x 5 = <u>75</u>	Column Totals: <u>15</u> (A)	<u>75</u> (B)	Prevalence Index = B/A = <u>5.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>15</u>	x 5 = <u>75</u>																				
Column Totals: <u>15</u> (A)	<u>75</u> (B)																				
Prevalence Index = B/A = <u>5.00</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Corn residue</u>	90	Yes		Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Draba verna</u>	10	No	UPL																	
3.	<u>Lamium amplexicaule</u>	5	No	UPL																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		105 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>																
2.	_____	_____	_____	_____																	
		=Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 4/3	100					Loamy/Clayey	
7-16	7.5YR 4/4	90	10YR 4/3	10	C	PL	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)</p>	<p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> Coast Prairie Redox (A16)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (F22)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
--	---	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes _____ No <u>X</u></p>
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Remarks:
Miami silt loam (MmB2) is not rated as a hydric soil.

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (minimum of two required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p> <p><input type="checkbox"/> Aquatic Fauna (B13)</p> <p><input type="checkbox"/> True Aquatic Plants (B14)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Gauge or Well Data (D9)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u></p> <p>Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u></p> <p>Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes _____ No <u>X</u></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 6
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 0 Lat: 39.63370°N Long: 086.28882°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmB2), 2 to 6 percent slopes, eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
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Remarks:
 This appears to be an emergent wetland (Wetland A), approximately 0.62 acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____																					
3. _____																					
4. _____																					
5. _____																					
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>75</u></td> <td>x 1 = <u>75</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>165</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.57</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>75</u>	x 1 = <u>75</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>165</u> (B)	Prevalence Index = B/A = <u>1.57</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>75</u>	x 1 = <u>75</u>																				
FACW species <u>10</u>	x 2 = <u>20</u>																				
FAC species <u>10</u>	x 3 = <u>30</u>																				
FACU species <u>10</u>	x 4 = <u>40</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>105</u> (A)	<u>165</u> (B)																				
Prevalence Index = B/A = <u>1.57</u>																					
1. <u>Populus deltoides</u>		10	Yes	FAC																	
2. _____																					
3. _____																					
4. _____																					
5. _____																					
10 =Total Cover																					
Herb Stratum	(Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Typha latifolia</u>		75	Yes	OBL																	
2. <u>Solidago canadensis</u>		10	No	FACU																	
3. <u>Epilobium hirsutum</u>		10	No	FACW																	
4. _____																					
5. _____																					
6. _____																					
7. _____																					
8. _____																					
9. _____																					
10. _____																					
95 =Total Cover																					
Woody Vine Stratum	(Plot size: <u>15'</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
1. _____																					
2. _____																					
=Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/2	100	10YR 5/2	5	D	M	Loamy/Clayey	
			10YR 5/4	5	C	PL		
9-16	10YR 3/2	85	10YR 5/4	10	C	PL	Loamy/Clayey	
			10YR 5/6	5	C	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ? Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Soil here is exhibiting hydric features.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): 1
 Water Table Present? Yes No Depth (inches): 0
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 7
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swell Local relief (concave, convex, none): Convex
 Slope (%): 2 Lat: 39.63321°N Long: 086.28909°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: This is row crop ground.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">Total % Cover of:</td> <td style="width: 50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>15</u> (A)</td> <td><u>70</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.67</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>15</u> (A)	<u>70</u> (B)	Prevalence Index = B/A = <u>4.67</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>5</u>	x 4 = <u>20</u>																				
UPL species <u>10</u>	x 5 = <u>50</u>																				
Column Totals: <u>15</u> (A)	<u>70</u> (B)																				
Prevalence Index = B/A = <u>4.67</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Corn residue</u>	90	Yes		Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Draba verna</u>	10	No	UPL																	
3.	<u>Stellaria media</u>	5	No	FACU																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		105 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>																
2.	_____	_____	_____	_____																	
		=Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/2	100					Loamy/Clayey	
8-16	10YR 5/4	85	10YR 5/2	10	D	M	Loamy/Clayey	
			10YR 5/6	5	C	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
Crosby silt loam (CrA) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> True Aquatic Plants (B14)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 9
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swell Local relief (concave, convex, none): Convex
 Slope (%): 1 Lat: 39.63311°N Long: 086.29628°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: This is row crop ground.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>10</u> (A)</td> <td><u>50</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>5.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>10</u> (A)	<u>50</u> (B)	Prevalence Index = B/A = <u>5.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>10</u>	x 5 = <u>50</u>																				
Column Totals: <u>10</u> (A)	<u>50</u> (B)																				
Prevalence Index = B/A = <u>5.00</u>																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Herb Stratum	(Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u>Corn residue</u>	90	Yes																		
2.	<u>Lamium amplexicaule</u>	10	No	UPL																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
=Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'</u>)				Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
=Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 4/2						Loamy/Clayey	
10-16	10YR 5/4	70	10YR 4/2	15	D	M	Loamy/Clayey	
			10YR 5/2	10	D	M		
			10YR 5/6	5	C	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
Crosby silt loam (CrA) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 10
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63441°N Long: 086.29660°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>10</u> (A)</td> <td><u>50</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>5.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>10</u> (A)	<u>50</u> (B)	Prevalence Index = B/A = <u>5.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>10</u>	x 5 = <u>50</u>																				
Column Totals: <u>10</u> (A)	<u>50</u> (B)																				
Prevalence Index = B/A = <u>5.00</u>																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u>Corn residue</u>	70	Yes																		
2.	<u>Lamium amplexicaule</u>	10	No	UPL																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		80 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
		=Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 11
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Linear
 Slope (%): 0 Lat: 39.63573°N Long: 086.29519°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks:
 This appears to be an emergent wetland (Wetland B), approximately 0.17 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>60</u></td> <td>x 2 = <u>120</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>245</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.33</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>60</u>	x 2 = <u>120</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>245</u> (B)	Prevalence Index = B/A = <u>2.33</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>10</u>	x 1 = <u>10</u>																				
FACW species <u>60</u>	x 2 = <u>120</u>																				
FAC species <u>25</u>	x 3 = <u>75</u>																				
FACU species <u>10</u>	x 4 = <u>40</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>105</u> (A)	<u>245</u> (B)																				
Prevalence Index = B/A = <u>2.33</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Phalaris arundinacea</u>	30	Yes	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Carex blanda</u>	25	Yes	FAC																	
3.	<u>Solidago gigantea</u>	20	Yes	FACW																	
4.	<u>Glyceria striata</u>	10	No	OBL																	
5.	<u>Epilobium hirsutum</u>	10	No	FACW																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		95 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	<u>Rosa multiflora</u>	10	Yes	FACU	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																
2.	_____	_____	_____	_____																	
		10 =Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy/Clayey	
10-16	10YR 2/1	60	10YR 3/1	30	D	M	Loamy/Clayey	
			2.5YR 5/2	10	D	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input checked="" type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):	Hydric Soil Present?
Type: _____ Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0 (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 12
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63547°N Long: 086.29430°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks:
 This appears to be an emergent wetland (Wetland C), approximately 0.11 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>55</u></td> <td>x 2 = <u>110</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>255</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.43</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>55</u>	x 2 = <u>110</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>15</u>	x 4 = <u>60</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>255</u> (B)	Prevalence Index = B/A = <u>2.43</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>10</u>	x 1 = <u>10</u>																				
FACW species <u>55</u>	x 2 = <u>110</u>																				
FAC species <u>25</u>	x 3 = <u>75</u>																				
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Prevalence Index = B/A = <u>2.43</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Phalaris arundinacea</u>	30	Yes	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Carex blanda</u>	25	Yes	FAC																	
3.	<u>Solidago gigantea</u>	15	No	FACW																	
4.	<u>Glyceria striata</u>	10	No	OBL																	
5.	<u>Epilobium hirsutum</u>	10	No	FACW																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		90 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	<u>Rosa multiflora</u>	15	Yes	FACU	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																
2.	_____	_____	_____	_____																	
		15 =Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy/Clayey	
10-16	10YR 2/1	75	10YR 3/1	15	D	M	Loamy/Clayey	
			2.5YR 5/2	10	D	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): 3
 Water Table Present? Yes No Depth (inches): 0
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 13
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Linear
 Slope (%): 1-2 Lat: 39.63520°N Long: 086.29224°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmC2), 6 to 12 percent slopes, eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: This is a typical floodplain along Stream Unit 1.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Juglans nigra</u>	10	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)																																
2. <u>Liriodendron tulipifera</u>	10	Yes	FACU																																	
3. <u>Prunus serotina</u>	5	No	FACU																																	
4. <u>Celtis occidentalis</u>	5	No	FAC																																	
5. <u>Platanus occidentalis</u>	5	No	FACW																																	
	35	=Total Cover																																		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																																				
1. <u>Juglans nigra</u>	20	Yes	FACU	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td align="center"><u>0</u></td> <td align="center">x 1 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td align="center"><u>15</u></td> <td align="center">x 2 =</td> <td align="center"><u>30</u></td> </tr> <tr> <td>FAC species</td> <td align="center"><u>30</u></td> <td align="center">x 3 =</td> <td align="center"><u>90</u></td> </tr> <tr> <td>FACU species</td> <td align="center"><u>100</u></td> <td align="center">x 4 =</td> <td align="center"><u>400</u></td> </tr> <tr> <td>UPL species</td> <td align="center"><u>0</u></td> <td align="center">x 5 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td align="center"><u>145</u> (A)</td> <td></td> <td align="center"><u>520</u> (B)</td> </tr> <tr> <td></td> <td align="center" colspan="3">Prevalence Index = B/A = <u>3.59</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>15</u>	x 2 =	<u>30</u>	FAC species	<u>30</u>	x 3 =	<u>90</u>	FACU species	<u>100</u>	x 4 =	<u>400</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>145</u> (A)		<u>520</u> (B)		Prevalence Index = B/A = <u>3.59</u>		
Total % Cover of:		Multiply by:																																		
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
FACW species	<u>15</u>	x 2 =	<u>30</u>																																	
FAC species	<u>30</u>	x 3 =	<u>90</u>																																	
FACU species	<u>100</u>	x 4 =	<u>400</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals:	<u>145</u> (A)		<u>520</u> (B)																																	
	Prevalence Index = B/A = <u>3.59</u>																																			
2. <u>Lonicera morrowii</u>	20	Yes	FACU																																	
3. <u>Liriodendron tulipifera</u>	5	No	FACU																																	
4. <u>Celtis occidentalis</u>	5	No	FAC																																	
5. _____																																				
	50	=Total Cover																																		
Herb Stratum (Plot size: <u>5'</u>)																																				
1. <u>Dactylis glomerata</u>	20	Yes	FACU	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. <u>Carex blanda</u>	20	Yes	FAC																																	
3. <u>Elymus villosus</u>	10	Yes	FACU																																	
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
	50	=Total Cover																																		
Woody Vine Stratum (Plot size: <u>15'</u>)																																				
1. <u>Vitis riparia</u>	10	Yes	FACW	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																																
2. _____																																				
	10	=Total Cover																																		

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/2	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
 Miami silt loam (MmC2) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 14
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Linear
 Slope (%): 0 Lat: 39.63528°N Long: 086.29138°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
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Remarks:
 This appears to be an emergent wetland (Wetland D), approximately 0.04 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>15</u></td> <td>x 1 = <u>15</u></td> </tr> <tr> <td>FACW species <u>75</u></td> <td>x 2 = <u>150</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>130</u> (A)</td> <td><u>295</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.27</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>15</u>	x 1 = <u>15</u>	FACW species <u>75</u>	x 2 = <u>150</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>130</u> (A)	<u>295</u> (B)	Prevalence Index = B/A = <u>2.27</u>	
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Column Totals: <u>130</u> (A)	<u>295</u> (B)																				
Prevalence Index = B/A = <u>2.27</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Phalaris arundinacea</u>	40	Yes	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Carex blanda</u>	30	Yes	FAC																	
3.	<u>Solidago gigantea</u>	25	Yes	FACW																	
4.	<u>Glyceria striata</u>	15	No	OBL																	
5.	<u>Epilobium hirsutum</u>	10	No	FACW																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		120 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	<u>Rosa multiflora</u>	10	Yes	FACU	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																
2.	_____	_____	_____	_____																	
		10 =Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy/Clayey	
10-16	10YR 2/1	80	10YR 3/1	20	D	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:			Indicators for Problematic Hydric Soils ³ :		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)			
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input checked="" type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)				
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)				
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)				
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)				
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)				

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>3</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 15
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swell Local relief (concave, convex, none): Convex
 Slope (%): 4 Lat: 39.63623°N Long: 086.28966°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmB2), 2-6 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
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Remarks:
 This is row crop ground.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
_____ =Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>10</u> (A)</td> <td><u>50</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>5.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>10</u> (A)	<u>50</u> (B)	Prevalence Index = B/A = <u>5.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>10</u>	x 5 = <u>50</u>																				
Column Totals: <u>10</u> (A)	<u>50</u> (B)																				
Prevalence Index = B/A = <u>5.00</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
_____ =Total Cover																					
Herb Stratum	(Plot size: <u>5'</u>)																				
1.	<u>Corn residue</u>	90	Yes		Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Draba verna</u>	10	No	UPL																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
_____ =Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'</u>)																				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																
2.	_____	_____	_____	_____																	
_____ =Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/3	100					Loamy/Clayey	
8-16	7.5YR 4/4	90	10YR 4/3	10	C	PL	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)</p>	<p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> Coast Prairie Redox (A16)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (F22)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes _____ No <u>X</u></p>
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Remarks:
Miami silt loam (MmB2) is not rated as a hydric soil.

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (minimum of two required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p> <p><input type="checkbox"/> Aquatic Fauna (B13)</p> <p><input type="checkbox"/> True Aquatic Plants (B14)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Gauge or Well Data (D9)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u></p> <p>Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u></p> <p>Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>0</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes _____ No <u>X</u></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 16
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Berm Local relief (concave, convex, none): Linear
 Slope (%): 5 Lat: 39.63742°N Long: 086.29015°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmC2), 6 to 12 percent slopes, eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
 This is typical of the upland berm surrounding Wetland G.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Morus rubra</u>	10	Yes	FACU		Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2. <u>Pyrus calleryana</u>	5	Yes	UPL		
3. <u>Carya ovata</u>	5	Yes	FACU		
4. _____					
5. _____					
20 =Total Cover				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: <u>15'</u>)					Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>120</u> x 4 = <u>480</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>125</u> (A) <u>505</u> (B) Prevalence Index = B/A = <u>4.04</u>
1. <u>Lonicera morrowii</u>	20	Yes	FACU		
2. <u>Morus rubra</u>	5	No	FACU		
3. <u>Juniperus virginiana</u>	5	No	FACU		
4. _____					
5. _____					
30 =Total Cover				Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: <u>5'</u>)					___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Solidago canadensis</u>	30	Yes	FACU		
2. <u>Setaria faberi</u>	20	Yes	FACU		
3. <u>Cirsium arvense</u>	10	No	FACU		
4. <u>Dipsacus fullonum</u>	10	No	FACU		
5. <u>Asclepias syriaca</u>	5	No	FACU		
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
75 =Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	
Woody Vine Stratum (Plot size: <u>15'</u>)					
1. _____					
2. _____					
_____ =Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 4/4	100					Loamy/Clayey	
7-16	7.5YR 4/4	90	10YR 5/4	5	C	M	Loamy/Clayey	
			10YR 5/6	5	C	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Gleyed Matrix (S4) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Dark Surface (S7) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> 2 cm Muck (A10) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) | <input type="checkbox"/> Redox Depressions (F8) |

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
Miami silt loam (MmC2) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants (B14) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) |

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 17
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63759°N Long: 086.29063°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Remarks:
 This appears to be an emergent wetland (Wetland G), approximately 0.52 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>115</u></td> <td>x 1 = <u>115</u></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>160</u> (A)</td> <td><u>205</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.28</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>115</u>	x 1 = <u>115</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>160</u> (A)	<u>205</u> (B)	Prevalence Index = B/A = <u>1.28</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>115</u>	x 1 = <u>115</u>																				
FACW species <u>45</u>	x 2 = <u>90</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>160</u> (A)	<u>205</u> (B)																				
Prevalence Index = B/A = <u>1.28</u>																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Herb Stratum	(Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u><i>Typha latifolia</i></u>	90	Yes	OBL																	
2.	<u><i>Solidago gigantea</i></u>	20	No	FACW																	
3.	<u><i>Nasturtium officinale</i></u>	15	No	OBL																	
4.	<u><i>Epilobium hirsutum</i></u>	15	No	FACW																	
5.	<u><i>Impatiens capensis</i></u>	10	No	FACW																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
=Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
1.	<u><i>Rosa palustris</i></u>	10	Yes	OBL																	
2.	_____	_____	_____	_____																	
=Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)</p>	<p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input checked="" type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> Coast Prairie Redox (A16)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (F22)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <p><input checked="" type="checkbox"/> Surface Water (A1)</p> <p><input checked="" type="checkbox"/> High Water Table (A2)</p> <p><input checked="" type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (minimum of two required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p> <p><input type="checkbox"/> Aquatic Fauna (B13)</p> <p><input type="checkbox"/> True Aquatic Plants (B14)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Gauge or Well Data (D9)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1)</p> <p><input checked="" type="checkbox"/> Geomorphic Position (D2)</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>3</u></p> <p>Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 18
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave
 Slope (%): 2 Lat: 39.63744°N Long: 086.29242°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
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Remarks:
 This appears to be an emergent wetland (Wetland F), approximately 0.98 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Salix alba</u>	15	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Cornus amomum</u>	10	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
25 =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Salix alba</u>	25	Yes	FACW	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>120</u></td> <td>x 1 = <u>120</u></td> </tr> <tr> <td>FACW species <u>115</u></td> <td>x 2 = <u>230</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>235</u> (A)</td> <td><u>350</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.49</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>120</u>	x 1 = <u>120</u>	FACW species <u>115</u>	x 2 = <u>230</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>235</u> (A)	<u>350</u> (B)	Prevalence Index = B/A = <u>1.49</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>120</u>	x 1 = <u>120</u>																			
FACW species <u>115</u>	x 2 = <u>230</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>235</u> (A)	<u>350</u> (B)																			
Prevalence Index = B/A = <u>1.49</u>																				
2. <u>Cornus amomum</u>	15	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
40 =Total Cover																				
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Typha latifolia</u>	90	Yes	OBL	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago gigantea</u>	25	No	FACW																	
3. <u>Nasturtium officinale</u>	20	No	OBL																	
4. <u>Epilobium hirsutum</u>	15	No	FACW																	
5. <u>Impatiens capensis</u>	10	No	FACW																	
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
160 =Total Cover																				
Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rosa palustris</u>	10	Yes	OBL	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																
2. _____																				
10 =Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants (B14) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9) | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) | |

Field Observations:

Surface Water Present? Yes No Depth (inches): 3
 Water Table Present? Yes No Depth (inches): 0
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 19
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave
 Slope (%): 2 Lat: 39.63728°N Long: 086.29521°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
 This appears to be an emergent/scrub wetland (Wetland E), approximately 0.30 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Salix alba</u>	20	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Cornus amomum</u>	10	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
<u>30</u> =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Salix alba</u>	30	Yes	FACW	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>110</u></td> <td>x 1 = <u>110</u></td> </tr> <tr> <td>FACW species <u>145</u></td> <td>x 2 = <u>290</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>255</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.57</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>110</u>	x 1 = <u>110</u>	FACW species <u>145</u>	x 2 = <u>290</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>255</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>1.57</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>110</u>	x 1 = <u>110</u>																			
FACW species <u>145</u>	x 2 = <u>290</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>255</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>1.57</u>																				
2. <u>Cornus amomum</u>	15	Yes	FACW																	
3. <u>Acer saccharinum</u>	10	No	FACW																	
4. _____																				
5. _____																				
<u>55</u> =Total Cover																				
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Typha latifolia</u>	90	Yes	OBL	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago gigantea</u>	25	No	FACW																	
3. <u>Nasturtium officinale</u>	20	No	OBL																	
4. <u>Epilobium hirsutum</u>	15	No	FACW																	
5. <u>Impatiens capensis</u>	10	No	FACW																	
6. <u>Phragmites australis</u>	10	No	FACW																	
7. _____																				
8. _____																				
9. _____																				
10. _____																				
<u>170</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
2. _____																				
_____ =Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy/Clayey	
10-16	10YR 2/1	70	10YR 3/1	20	D	M	Loamy/Clayey	
			2.5YR 5/2	10	D	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input checked="" type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 4 Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 0 Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 20
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63679°N Long: 086.29760°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: This is row crop ground.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>10</u> (A)</td> <td><u>50</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>5.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>10</u> (A)	<u>50</u> (B)	Prevalence Index = B/A = <u>5.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>10</u>	x 5 = <u>50</u>																				
Column Totals: <u>10</u> (A)	<u>50</u> (B)																				
Prevalence Index = B/A = <u>5.00</u>																					
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Herb Stratum	(Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	<u>Corn residue</u>	<u>70</u>	<u>Yes</u>		Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																
2.	<u>Draba verna</u>	<u>10</u>	<u>No</u>	<u>UPL</u>																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
=Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>																
2.	_____	_____	_____	_____																	
=Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 20

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 4/2	100					Loamy/Clayey	
7-16	10YR 5/4	70	10YR 5/2	15	D	M	Loamy/Clayey	
			10YR 4/2	10	D	M		
			10YR 5/6	5	C	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
Crosby silt loam (CrA) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants (B14) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9) | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) | |

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): 0
 Water Table Present? Yes _____ No X Depth (inches): 0
 Saturation Present? Yes _____ No X Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 21
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swell Local relief (concave, convex, none): Convex
 Slope (%): 2 Lat: 39.63909°N Long: 086.29482°W Datum: WGS 84
 Soil Map Unit Name: Crosby silt loam (CrA), 0-2 percent slopes. NWI classification: -

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: This is row crop ground.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2.					
3.					
4.					
5.					
		=Total Cover			Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>10</u> (A) <u>50</u> (B) Prevalence Index = B/A = <u>5.00</u>
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				
1.					
2.					
3.					
4.					
5.					
		=Total Cover			
Herb Stratum	(Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Corn residue</u>	90	Yes		
2.	<u>Draba verna</u>	10	No	UPL	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
		100 =Total Cover			
Woody Vine Stratum	(Plot size: <u>30'</u>)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
		=Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/2	100					Loamy/Clayey	
8-16	10YR 5/4	70	10YR 4/2	15	D	M	Loamy/Clayey	
			10YR 5/2	10	D	M		
			10YR 5/6	5	C	PL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):	Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Type: _____		
Depth (inches): _____		

Remarks:
Crosby silt loam (CrA) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> True Aquatic Plants (B14)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u>		
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u>		
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Field appears to have a working subsurface drainage system.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/2021
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 22
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Berm Local relief (concave, convex, none): Linear
 Slope (%): 3 Lat: 39.63861°N Long: 086.29252°W Datum: WGS 84
 Soil Map Unit Name: Miami silt loam (MmB2), 2 to 6 percent slopes, eroded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: This is typical of the upland berm surrounding Wetland J.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Morus rubra</u>	<u>10</u>	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																																
2. <u>Pyrus calleryana</u>	<u>5</u>	Yes	UPL																																	
3. <u>Carya ovata</u>	<u>5</u>	Yes	FACU																																	
4. _____																																				
5. _____																																				
<u>20</u> =Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACU species <u>150</u></td> <td>x 4 =</td> <td><u>600</u></td> <td></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 =</td> <td><u>25</u></td> <td></td> </tr> <tr> <td>Column Totals: <u>155</u> (A)</td> <td></td> <td><u>625</u> (B)</td> <td></td> </tr> <tr> <td align="center" colspan="4">Prevalence Index = B/A = <u>4.03</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species <u>0</u>	x 1 =	<u>0</u>		FACW species <u>0</u>	x 2 =	<u>0</u>		FAC species <u>0</u>	x 3 =	<u>0</u>		FACU species <u>150</u>	x 4 =	<u>600</u>		UPL species <u>5</u>	x 5 =	<u>25</u>		Column Totals: <u>155</u> (A)		<u>625</u> (B)		Prevalence Index = B/A = <u>4.03</u>			
Total % Cover of:		Multiply by:																																		
OBL species <u>0</u>	x 1 =	<u>0</u>																																		
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Prevalence Index = B/A = <u>4.03</u>																																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																																				
1. <u>Lonicera morrowii</u>	<u>10</u>	Yes	FACU																																	
2. <u>Morus rubra</u>	<u>10</u>	Yes	FACU																																	
3. <u>Juniperus virginiana</u>	<u>5</u>	Yes	FACU																																	
4. _____																																				
5. _____																																				
<u>25</u> =Total Cover																																				
Herb Stratum (Plot size: <u>5'</u>)																																				
1. <u>Solidago canadensis</u>	<u>30</u>	Yes	FACU	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. <u>Setaria faberi</u>	<u>20</u>	Yes	FACU																																	
3. <u>Bromus inermis</u>	<u>20</u>	Yes	FACU																																	
4. <u>Cirsium arvense</u>	<u>10</u>	No	FACU																																	
5. <u>Dipsacus fullonum</u>	<u>10</u>	No	FACU																																	
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
<u>90</u> =Total Cover																																				
Woody Vine Stratum (Plot size: <u>15'</u>)																																				
1. <u>Rosa multiflora</u>	<u>20</u>	Yes	FACU																																	
2. _____																																				
<u>20</u> =Total Cover																																				

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 22

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 4/4	100					Loamy/Clayey	
9-16	7.5YR 4/4	90	10YR 5/4	5	C	M	Loamy/Clayey	
			10YR 5/6	5	C	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Miami silt loam (MmB2) is not rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 23
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63871°N Long: 086.29172°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks:
 This appears to be an emergent wetland (Wetland J), approximately 2.00 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>120</u></td> <td>x 1 = <u>120</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>170</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.29</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>120</u>	x 1 = <u>120</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>170</u> (A)	<u>220</u> (B)	Prevalence Index = B/A = <u>1.29</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>120</u>	x 1 = <u>120</u>																				
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Column Totals: <u>170</u> (A)	<u>220</u> (B)																				
Prevalence Index = B/A = <u>1.29</u>																					
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Herb Stratum (Plot size: <u>5'</u>)																					
1.	<u><i>Typha latifolia</i></u>	<u>90</u>	<u>Yes</u>	<u>OBL</u>																	
2.	<u><i>Solidago gigantea</i></u>	<u>25</u>	<u>No</u>	<u>FACW</u>																	
3.	<u><i>Nasturtium officinale</i></u>	<u>20</u>	<u>No</u>	<u>OBL</u>																	
4.	<u><i>Epilobium hirsutum</i></u>	<u>15</u>	<u>No</u>	<u>FACW</u>																	
5.	<u><i>Impatiens capensis</i></u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
=Total Cover																					
Woody Vine Stratum (Plot size: <u>30'</u>)																					
1.	<u><i>Rosa palustris</i></u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>																	
2.	_____	_____	_____	_____																	
=Total Cover																					

Hydrophytic Vegetation Indicators:
 ___ 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)</p>	<p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input checked="" type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> Coast Prairie Redox (A16)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (F22)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
--	---	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <p><input checked="" type="checkbox"/> Surface Water (A1)</p> <p><input checked="" type="checkbox"/> High Water Table (A2)</p> <p><input checked="" type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (minimum of two required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p> <p><input type="checkbox"/> Aquatic Fauna (B13)</p> <p><input type="checkbox"/> True Aquatic Plants (B14)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Gauge or Well Data (D9)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1)</p> <p><input checked="" type="checkbox"/> Geomorphic Position (D2)</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>3</u></p> <p>Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 24
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63764°N Long: 086.28948°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks:
 This appears to be an emergent wetland (Wetland H), approx. 0.03 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>90</u></td> <td>x 1 = <u>90</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>150</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.25</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>90</u>	x 1 = <u>90</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u> (A)	<u>150</u> (B)	Prevalence Index = B/A = <u>1.25</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>90</u>	x 1 = <u>90</u>																				
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Column Totals: <u>120</u> (A)	<u>150</u> (B)																				
Prevalence Index = B/A = <u>1.25</u>																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum	(Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u>Typha latifolia</u>	80	Yes	OBL																	
2.	<u>Solidago gigantea</u>	15	No	FACW																	
3.	<u>Nasturtium officinale</u>	10	No	OBL																	
4.	<u>Epilobium hirsutum</u>	10	No	FACW																	
5.	<u>Impatiens capensis</u>	5	No	FACW																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
		120 =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
		=Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 2/1	100					Loamy/Clayey	
9-16	10YR 2/1	80	10YR 3/1	20			Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants (B14) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9) | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) | |

Field Observations:

Surface Water Present? Yes No Depth (inches): 4
 Water Table Present? Yes No Depth (inches): 0
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parks at Decatur City/County: Camby/Marion Sampling Date: 3/24/21
 Applicant/Owner: Chris McKinney/D.R. Horton State: IN Sampling Point: 27
 Investigator(s): John Dixon, Matt Buck Section, Township, Range: S22 T14N R2E
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Linear
 Slope (%): 2 Lat: 39.63702°N Long: 086.28852°W Datum: WGS 84
 Soil Map Unit Name: Treaty silty clay loam (ThrA), 0-2 percent slopes. NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Remarks:
 This appears to be an emergent/scrub wetland (Wetland I), approximately 0.33 +/- acres in size.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Salix alba</u>	30	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Cornus amomum</u>	10	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
40 =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																				
1. <u>Salix alba</u>	25	Yes	FACW	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>105</u></td> <td>x 1 = <u>105</u></td> </tr> <tr> <td>FACW species <u>120</u></td> <td>x 2 = <u>240</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>225</u> (A)</td> <td><u>345</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.53</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>105</u>	x 1 = <u>105</u>	FACW species <u>120</u>	x 2 = <u>240</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>225</u> (A)	<u>345</u> (B)	Prevalence Index = B/A = <u>1.53</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>105</u>	x 1 = <u>105</u>																			
FACW species <u>120</u>	x 2 = <u>240</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>225</u> (A)	<u>345</u> (B)																			
Prevalence Index = B/A = <u>1.53</u>																				
2. <u>Cornus amomum</u>	15	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
40 =Total Cover																				
Herb Stratum (Plot size: <u>5'</u>)																				
1. <u>Typha latifolia</u>	80	Yes	OBL	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago gigantea</u>	20	No	FACW																	
3. <u>Nasturtium officinale</u>	15	No	OBL																	
4. <u>Epilobium hirsutum</u>	10	No	FACW																	
5. <u>Impatiens capensis</u>	10	No	FACW																	
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
135 =Total Cover																				
Woody Vine Stratum (Plot size: <u>30'</u>)																				
1. <u>Rosa palustris</u>	10	Yes	OBL	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
2. _____																				
10 =Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Treaty silty clay loam (ThrA) is rated as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): 3
 Water Table Present? Yes No Depth (inches): 0
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



Photo 1. Looking east near Sampling Point no. 1.



Photos 2. Looking southeast near Sampling Point no. 2.



Figure 3. Looking southwest along Channel Unit 2.



Photo 4. Looking east towards Wetland A.



Photo 5. Looking west from Wetland B.



Photo 6. Looking east from the floodplain along Channel Unit 1.



Photo 7. Looking west along the floodplain near Sampling Point no. 13.



Photo 8. Looking west towards Wetland E.



Photo 9. Looking west towards Wetland J.



Photo 10. Matt Buck shown flagging the southern boundary of Wetland J.



Photo 11. Looking west along Channel Unit 7 from Wetland J.



Photo 12. Matt Buck shown standing near the eastern boundary of Wetland I.



Photo 13. Looking southeast from Wetland K.



Phot 14. Looking east at the stormwater drainage outlet that Wetland K drains to.