

MONROE COUNTY PLAN REVIEW COMMITTEE



**Thursday, February 9, 2023
5:30 pm**

Hybrid Meeting

In-person

Monroe County Government Center
501 N. Morton Street, Room 100B
Bloomington, IN 47404

Virtual

Zoom Link: [https://monroecounty-
in.zoom.us/j/81947218756?pwd=NmFoWk1BTTNsakREUFBxdUNpYXNxQT09](https://monroecounty-in.zoom.us/j/81947218756?pwd=NmFoWk1BTTNsakREUFBxdUNpYXNxQT09)

If calling into the Zoom meeting, dial: 312-626-6799

Meeting ID #: 819 4721 8756

Password: 977192

A G E N D A
MONROE COUNTY PLAN REVIEW COMMITTEE

February 9, 2023

5:30 p.m.

HYBRID MEETING INFO

IN-PERSON: Monroe Government Center 501 N Morton ST Suite 100 B Bloomington IN 47404

VIRTUAL LINK: <https://monroecounty-in.zoom.us/j/81947218756?pwd=NmFoWk1BTTNsakREUFBxdUNpYXNxQT09>

ADMINISTRATIVE: None.

OLD BUSINESS: None.

NEW BUSINESS:

1. PUO-22-2

Wiley Farm at Fieldstone Tract F PUO

PAGE 3

One (1) 30.23 +/- acre parcel in Van Buren Township, Section 02 at S Kirby RD, parcel #53-09-02-300-081.000-015.

Owner: Authentic Homes Inc.

Zoned PUD. Contact: drbrown@co.monroe.in.us

Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of Monroe County, should contact Monroe County Title VI Coordinator Angie Purdie, (812)-349-2553, apurdie@co.monroe.in.us, as soon as possible but no later than forty-eight (48) hours before the scheduled event.

Individuals requiring special language services should, if possible, contact the Monroe County Government Title VI Coordinator at least seventy-two (72) hours prior to the date on which the services will be needed.

The meeting will be open to the public.

CASE NUMBER	PUO-22-2
PLANNER	Daniel Brown
PETITIONER	Bynum Fanyo & Assoc.
OWNER	Authentic Homes Inc.
REQUEST	Planned Unit Outline Plan Amendment 1 to Wiley Farm at Fieldstone Waiver of Final Hearing Requested
ADDRESS	S Kirby RD, Parcel #: 53-09-02-300-081.000-015
ACRES	30.23 +/-
ZONE	PUD - Fieldstone
TOWNSHIP	Van Buren
SECTION	2
PLATS	Platted
COMP PLAN DESIGNATION	MCUA Suburban Residential

EXHIBITS

1. Petitioner Outline Plan Statement
2. Capacity Letters
3. Site Plan (Conceptual)
4. HOA Meeting Synopsis
5. Original Fieldstone Wiley Farm PUD Ordinance
6. Karst Report

RECOMMENDATION

Recommendation to the Plan Review Committee:

- Staff recommends forwarding a “positive recommendation” to the Plan Commission for the new road configuration and removing part of the bufferyard open space based on the petition’s compatibility with the Monroe County Comprehensive Plan.
- Staff recommends forwarding a “negative recommendation” for adding 34 uses to Tract F to the Plan Commission based on the petition’s incompatibility with the Monroe County Comprehensive Plan.

PUBLIC HEARING TIMELINE

PLAN COMMISSION Regular – March 21, 2023 (Preliminary Hearing)

Waiver of Final Hearing requested.

PLAN COMMISSION Regular – April 18, 2023 (Final Hearing)

SUMMARY

The petition site is located off S Kirby RD, in Section 02 in Van Buren Township. The site 30.23 +/- acres and is undeveloped. The petitioner is requesting a Planned Unit Development Outline Plan Amendment to propose the following:

1. New Road Configuration and different triggers for completing this roadway.
2. Removal of Bufferyard/Open Space for Purposes of Rerouting Roadway
3. Propose the First Phase in Tract F that would contain 34 uses and adjust the remaining density per unit for the remainder Area F (High Density Residential).

BACKGROUND

The area is zoned Fieldstone PUD and has been developed in different phases and sections. The original Planned Unit Development seems to have been established first by the City of Bloomington in 1994 as PUD-63-94.

The property owner intends to develop Tract F of the Wiley Farms section of this PUD with an additional

34 uses, which are as follows:

Commercial Trade

Business Service and Professional Office
Schools
Trade and Business
Building Trade Shops
Warehouses
Mini Warehouses

Commercial Wholesale

Building Material
Farm Products
Farm Supplies
Food Products
Household Goods

Manufacturing Processing

Apparel
Bakery
Dairy Products
Confectionery

Beverage Bottling
Chemicals and Chemical Products
Clocks
Scientific Instrument
Drugs and Pharmaceuticals
Electronic Equipment
Furniture
Meat, Poultry, Seafood
Medical Equipment
Metal Fabrication
Mill Work
Sawmills
Paper Products
Printing Newspapers
Research Laboratories
Miscellaneous Small Products
Sporting Goods, Toys, Novelties

Industrial Non-Processing

Warehouse
Storage

Tract F was originally designated as High-Density Residential, and the list of approved uses for each tract in Wiley Farms can be found in Exhibit 5. The petitioner intends to establish "Mini Warehouses" on 3.5 acres of this tract, as well as develop roadways that would allow for future expansion. The ordinance defines Mini Warehouses as follows:


Warehouse, mini

A structure or group of structures containing individual storage units of two hundred square feet or less with access to each unit only for the storage and warehousing of personal property. Mini-warehouses do not include activities of any kind including wholesaling, retailing, servicing or repair of household or commercial goods in conjunction with storage.

Slope Map

-  Petitioner
-  Parcels
-  Roads

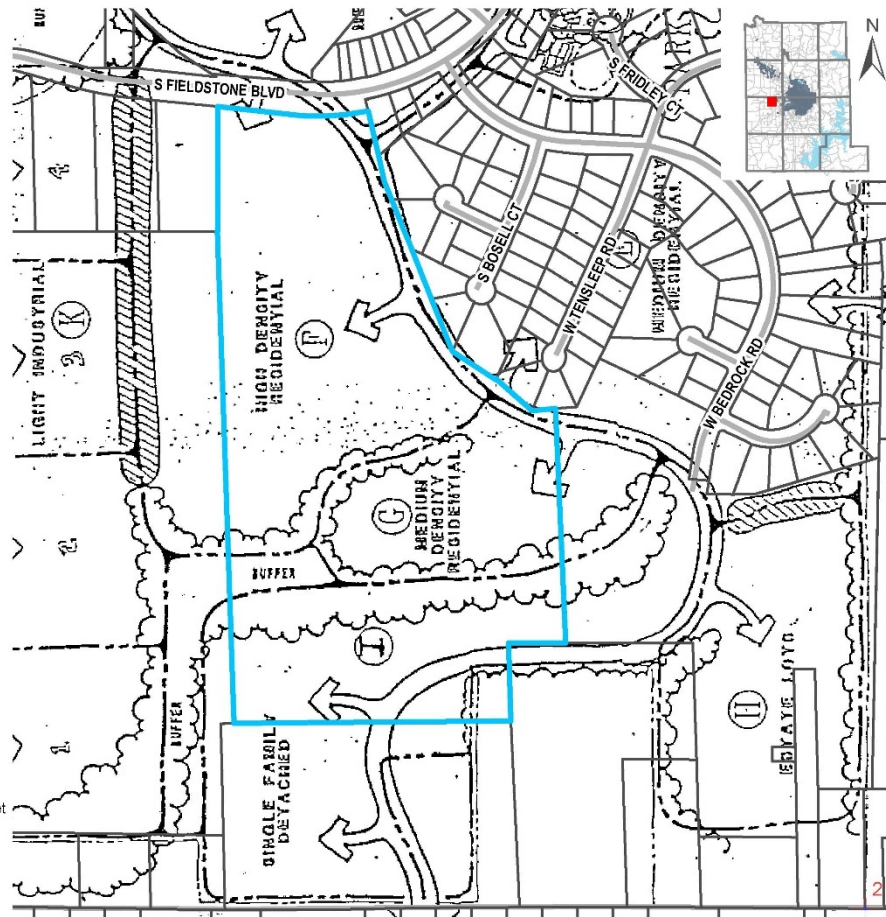
Wiley Farm.tiff

- Value
-  High : 1
 -  Low : 0

0 180 360 720 Feet



Monroe County
Planning Department
Source: Monroe County GIS
Date: 3/7/2018



Above: A georeferenced image showing the layout of the use districts of Wiley Farms in reference to the petition parcel. Below: A comment from the Planning Director, Jackie N. Jelen, and the petitioner's response to said comment.



Jackie Nester Jelen ✓

Remove Comment • Jan 6, 2023 at 3:05 pm

Hi Danny -

Based on our conversation, this is what we still need:

(b) Ownership: a statement of present and proposed ownership of all land within the project including the beneficial owners of a land trust?

- Get us confirmation from Bruce & Lana Conder that they consent to the new road changes.

(c) Development scheduling Parts 1 and 2

-State what the construction timeline would be (within 5 months of PUD approval)

(d) Proposed Uses: Include # of units per acre for each phase and include uses for the remainder.

- change the DU/acre to incorporate the change in remaining Multifamily acreage



Daniel Butler

Remove Comment · Jan 9, 2023 at 11:48 am

Thank you Jackie.

Here are our responses to the last 3 items requested stated:

1. We had several meetings with the Condors over a six month time period to discuss a road option onto their property including, but not limited to, the following:

- Purchase of property to perform future road extension
- An easement from them to receive free infrastructure road extension.

The permission agreement at this time was to perform the Karst Study to determine possible routing through the property to avoid environmentally sensitive areas. The Condors and our client would like to hear more of the discussion with the Plan Commission and Commissioners on timing, requirements, etc. of this road extension before agreeing to anything concretely.

2. The desire is to start April 1, 2023 and finish for rental November, 2023

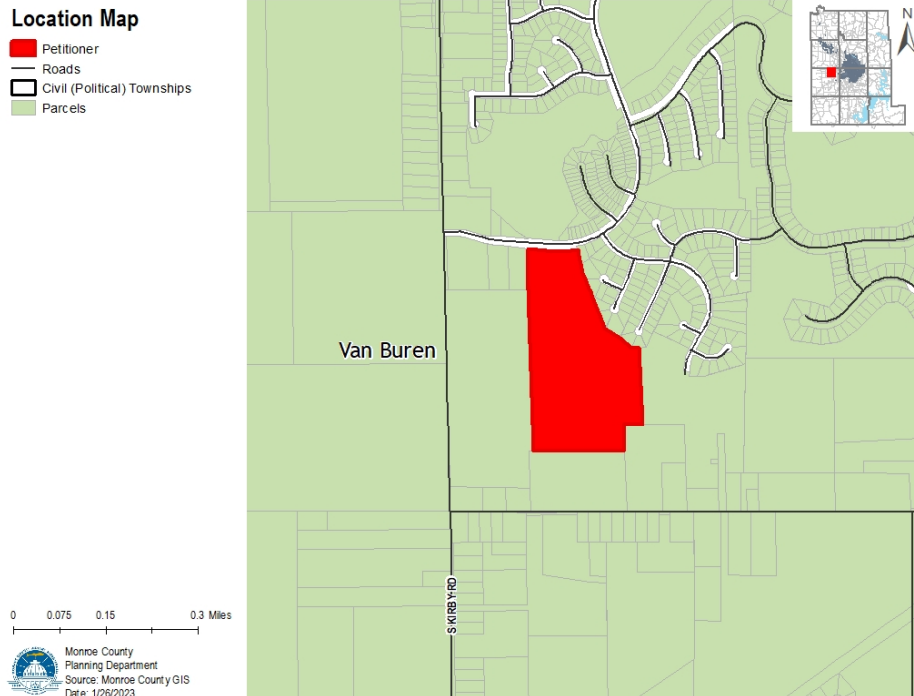
3. This proposal would use 3.97 acres of the 18.4 acres in tract 'F'. The PUD allows 10 units/acre. The remainder of tract 'F' would only allow for 144 units, not the 184.

-Daniel, Bynum Fanyo

Though staff has not received any official comments from neighbors in the surrounding area, there has been phone call where a resident has expressed adjacent concerns and an email where a resident stated that they did not believe the use of mini warehouses should belong adjacent to residential uses.

LOCATION MAP

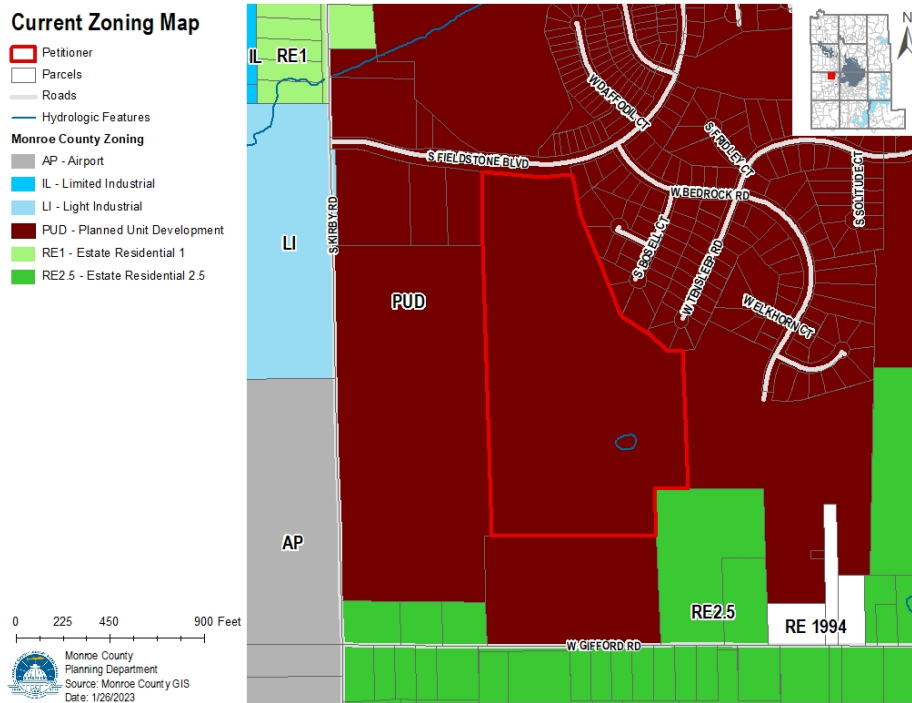
The petition site is located west of the City of Bloomington, with frontage along South Kirby RD in Section 02 of Van Buren Township. The site 30.23 +/- acres and is undeveloped, Parcel #: 53-09-02-300-081.000-015.



ZONING AND ADJACENT USES

The petition site is zoned PUD and is a part of the Fieldstone PUD area. Property to the north is located

within the City of Bloomington zoning jurisdiction. The rest of the adjacent property is zoned PUD, and RE2.5).



INFRASTRUCTURE

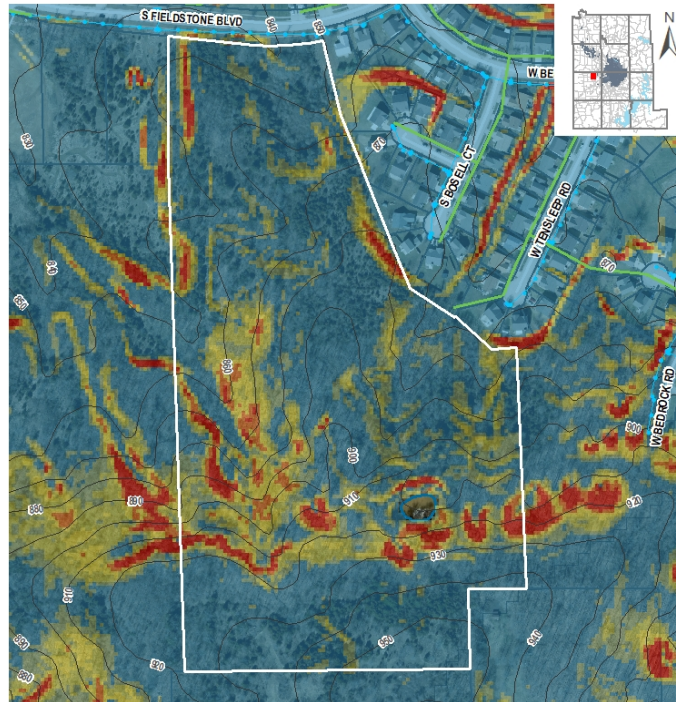
Capacity letters have been provided for this site regarding gas, electricity, and water, though staff has not received a letter saying that sewer will be extended to this property. No Right-of-Way activity permits have been submitted to the Highway Department for review at this time. A 36-page karst survey has been submitted for this project as well. This project was also discussed preliminarily during the Drainage Board meeting on February 1, 2023, where it was discussed that the drainage would need to go from the south to the north.

SITE CONDITIONS

The site utilizes CBU water and sewer is in the general vicinity. Sidewalks run along both sides of S Fieldstone BLVD where the proposed site will have access. Multiple karsts are present on the property. Drainage implications of development would be reviewed under a PUD Development Plan.

Site Conditions Map

- Petitioner
 - Sanitary Pipe
 - Water Pipe
 - 10-Foot Contours
 - Percent Slopes**
 - 0 - 12%
 - 13 - 15%
 - 16 - 18%
 - 19 - 21%
 - 22 - 24%
 - > 25%
 - Local Roads [50']
 - Hydrologic Features
 - Parcels
 - Critical Watersheds**
 - Cave Creek
 - Sinking Creek
- 0 80 160 320 Feet
- Monroe County
Planning Department
Source: Monroe County GIS
Date: 1/26/2023



SITE PICTURES



Figure 1. Pictometry photo from April 2020, looking north.

COMPREHENSIVE PLAN DISCUSSION – PHASE I

The petition site is located in the **Suburban Residential** districts on the Monroe County Urbanizing Area

Plan portion of the Monroe County Comprehensive Plan. Points that align with the proposed PUD outline plan are highlighted in green. Points that differ from the MCUA districts are highlighted in grey.

Suburban Residential includes existing low-density single-family subdivisions and isolated multi-family apartment complexes. Different housing types are typically segregated, with multiple buildings having a similar or identical appearance. This development type is not recommended for extensive application beyond existing or currently planned developments. In some locations, it may be appropriate to extend this development pattern if it is directly adjacent to existing Suburban Residential subdivisions as an appropriate way to coordinate with those neighborhoods. However, the conservation community land use category offers a more appropriate alternative to the conventional suburban subdivision that balances the desire for non-urban living while also preserving rural character. The following guidelines should be considered if new suburban-style developments are approved; they also provide considerations for potential retrofitting of public infrastructure within existing neighborhoods.

A. TRANSPORTATION

Streets: Suburban residential subdivisions are auto-oriented by design. To the extent possible, this approach to residential development should be de-emphasized within the Urbanizing Area to prevent continued expansion of isolated “leap-frog” subdivisions and sprawl development patterns that require continued reliance on the automobile. New Suburban Residential streets should be designed to encourage interconnectivity to and through the neighborhood and to surrounding subdivisions. Cul-de-sacs should be discouraged unless necessary due to topographic or environmental constraints. Streets are typically designed with curb and gutter, but may also be designed to accommodate surface runoff with open street-side swales or ditches.

Bike, Pedestrian, and Transit Modes: Sidewalks and/or shared use paths should be provided on all streets, with connections to larger pedestrian and bicycle systems. Sidewalk retrofits in existing subdivisions should be considered after thorough consultation with and support from existing residents. Given their remote location and low-density development pattern, opportunities to serve Suburban Residential neighborhoods with public transportation are limited. Expansion opportunities for Rural Transit routes should be explored, with pick-up locations considered near entries to subdivisions.

B. UTILITIES

Sewer: New development should be served by the public sewer system. Localized package systems for individual residential subdivisions should be discouraged. Retrofit and tie-ins should be encouraged for older neighborhoods on septic.

Power: Overhead utility lines should be buried within subdivisions. Where possible, existing overhead lines along arterial frontages should also be buried.

Communications: Communications needs will vary within the suburban residential developments, but upgrades to infrastructure should be a key consideration for future development sites. Creating a standard for development of communications corridors should be considered to maintain uniform and adequate communications capacity.

C. OPEN SPACE

Park Types: Many of the older suburban subdivisions in the Urbanizing Area were developed without dedicated open space. new developments, such as Stone Chase, include platted open space reserves; these generally function to preserve natural features such as streams and tree stands, or to provide space for stormwater retention ponds. However, subdivisions are not currently required to provide usable park space, with the exception of voluntary cluster subdivisions. All new residential subdivisions should be designed to include neighborhood parks and/or greenways as a community amenity.

Urban Agriculture: Private residential gardens and local community gardens should be encouraged within commonly maintained open space areas or via conversion of undeveloped lots in established neighborhoods.

D. PUBLIC REALM ENHANCEMENTS

Lighting: Lighting needs will vary by street type and width but safety, visibility and security are

important. Local streets may be lighted, but lighting may be not be necessary in all low-density subdivisions.

Street/Site Furnishings: Suburban residential neighborhoods typically have few street furnishings beyond street lamps.

E. DEVELOPMENT GUIDELINES

Open Space: A minimum of 5% of total site area for new developments should be set aside for publicly accessible and usable open space areas. open spaces may be designed as formal park settings or informal, naturalized reserve areas. Natural areas should be accessible with trails or paths where appropriate. If not accessible, additional open space area should be provided. likewise, open space areas may include stormwater management features, but should not be dominated by large retention ponds with no additional recreational space.

Parking Ratios: Parking for single-family homes is typically accommodated on individual lots. on-street parking should also be permitted.

Site Design: Reverse frontage lots should be avoided. homes should not back onto arterial or collector streets.

Building Form: Modern suburban single-family construction has trended in two directions: either overly simplified (e.g. blank, windowless side facades) or overly complex (e.g. complicated building massing and roof forms). Homes should have recognizable forms and detailing appropriate to the architectural style, with an emphasis on “four-sided architecture”. Garages doors should not dominate the front facade; ideally garages should be set back from the front facade and/or side-loaded.

Materials: High quality materials, such as brick, stone, wood, and cementitious fiber should be encouraged. Vinyl and Exterior Insulated Finishing Systems (EIFS) may be appropriate as secondary materials, particularly to maintain affordability, but special attention should be paid to material specifications and installation methods to ensure durability and aesthetic quality.

Private Signs: Subdivision entry signs should be integrated into high-quality landscape designs.

PUD REVIEW CONSIDERATIONS

Section 811-6 (A) of the Monroe County Zoning Ordinance states: “The Plan Commission shall consider as many of the following as may be relevant to the specific proposal:

(1) The extent to which the Planned Unit Development meets the purposes of the Zoning Ordinance, the Comprehensive Plan, and any other adopted planning objectives of the County.

Findings:

- The existing and proposed development appears to be inconsistent with the Comprehensive Plan per the Suburban Residential district;
- The current use and potential expansion of the site would not support commercial uses;
 - The MCUA Phase I plan designates the petition site as “Suburban Residential”;
- The current zoning is Fieldstone PUD, Wiley Farms Tract F created by the City of Bloomington in 1994;
- The Comprehensive Plan designates the property as MCUA Suburban Residential;
- The current approved uses for the petition parcel have been determined to be the ‘high-density residential’ uses listed in the petitioner letter from the 1994 city of Bloomington PUD filing;
- The petition parcel has remained vacant since that time;
- The petitioner requests to add thirty-four (34) new uses;

(2) The extent to which the proposed plan meets the requirements, standards, and stated purpose of the Planned Unit Development regulations.

Findings:

- The proposed plan will need use definitions to be defined;

- Design standards were found specifically listed in the PUD documentation;
 - The site will not meet the design standards of the underlying zone, High-Density Residential;
 - The petitioner has not indicated that any other deviation from the Zoning Ordinance would be sought at this time related to density, dimension, bulk, use, required improvements, and construction and design standards;
 - Site plan improvements including parking, landscaping, and bioretention requirements will be addressed at the development plan stage;
 - See Findings under section A, regarding use;
- (3) **The extent to which the proposed plan departs from the zoning and subdivision regulations otherwise applicable to the subject property, including but not limited to, the density, dimension, bulk, use, required improvements, and construction and design standards and the reasons, which such departures are or are not deemed to be in the public interest.**
- Findings:*
- See Findings under section A;
 - One of the purposes of the PUD, under Chapter 811, is to encourage a harmonious and appropriate mixture of uses;
- (4) **The proposal will not be injurious to the public health, safety, and general welfare.**
- Findings:*
- See Findings (1), (2) and (8);
- (5) **The physical design and the extent to which it makes adequate provision for public services, provides adequate control over vehicular traffic, provides for and protects common open space, and furthers the amenities of light, air, recreation and visual enjoyment.**
- Findings:*
- Parking minimum requirements will be reviewed for the petition site once a design is submitted for review;
 - The site will meet the design standards of the underlying zone, General Manufacturing (MG);
 - Development plan requirements including parking, landscaping, and bioretention requirements will be addressed at the development plan stage.
- (6) **The relationship and compatibility of the proposal to the adjacent properties and neighborhoods, and whether the proposal would substantially interfere with the use of or diminish the value of adjacent properties and neighborhoods.**
- Findings:*
- See Findings (a), (b) & (d);
 - Other immediately surrounding uses include single-family residential to the southeast and east, duplexes/condominiums to the northeast, and vacant land to the west, east, and south;
 - Much of the surrounding area is zoned Planned Unit Development, Estate Residential 2.5;
 - Development plan requirements including parking, landscaping, and bioretention requirements will be addressed at the development plan stage.
- (7) **The desirability of the proposal to the County's physical development, tax base, and economic well-being.**
- Findings:*
- See Findings under Section 1;
- (8) **The proposal will not cause undue traffic congestion and can be adequately served by existing or programmed public facilities and services.**
- Findings:*
- Access is derived from S Fieldstone BLVD which is designated as a Local Road in the Thoroughfare Plan;

- All utilities are available to the petition site;
- See findings under (d);

(9) The proposal preserves significant ecological, natural, historical and architectural resources to the extent possible.

Findings:

- There are known karsts on the property;
- Drainage will be reviewed under a PUD Development Plan if the this petition is adopted;
- The area was originally listed as a ‘high-density residential’ part of the Fieldstone PUD request to the city of Bloomington in 1994.

EXHIBIT 1: Petitioner Outline Plan Statement



BYNUM FANYO & ASSOCIATES, INC.

ARCHITECTURE
CIVIL ENGINEERING
PLANNING

October 24, 2022

Monroe County Planning Department
And Monroe County Plan Commission
501 N. Morton Street, Suite 224
Bloomington, Indiana 47404

SUBJECT: Wylie Farm PUD Tract 'F'
Three (3) PUD Amendments

Monroe County Plan Commission or To Whom It May Concern:

On behalf of Authentic Homes, Inc., Bynum Fanyo & Associates, Inc. would like to request approval of three PUD amendments to the Wylie Farm PUD ordinance due to a site plan being proposed in Tract 'F' of the PUD area. The property is located at 800' east of the intersection of S Kirby Rd and S Fieldstone Blvd in Monroe County, Indiana. The approval request would make a way for a 1st phase in tract 'F' for 'convenience storage' in 2 proposed lots of a proposed subdivision (ROW dedication proposed as well). This PUD ordinance was originally approved by the City of Bloomington in October of 1994. This proposal would be an alteration of the PUD original concept to where 'manufacturing' or 'MP' type business would be located but is found in the PUD in area K right now. The lot owned by the developer currently contains 30.21 acres and is proposed to subdivide into 2 lots after dedicated ROW for local roads and utilities. This is the SW quarter of section 2, T8N, R2W, Van Buren township.

The proposed commercial plan would require three (3) amendments to the ordinance approved in 1994 as follows:

- 1) **Traffic and Circulation:** The 3rd paragraph under this heading on page 3 of the ordinance document revised to state: *Another local road the secondary collector runs from Kirby Road to Gifford Road. This road is intended to directly serve units and provide an indirect connection to Kirby and Gifford and a good connection to the internal collector roadway. This roadway will be completed in phases that follows the limit and physical extent of the last residential structure or commercial business developed of that phase. The routing of this local road shall be designed and finalized by the site engineer to best serve development. Possible routing of roads shown on pages 5-11 of this document but final routing to be designed at time of development and approved by Monroe County Highway Engineer.*
- 2) **Open Space:** The 4th paragraph under this heading on page 3 of the ordinance document revised to state: *There are numerous other locations on the site with existing vegetation or with steep slopes. These areas are proposed to be used as buffer and transitions between land uses and projects. Proposed local and collector roads to avoid steep slopes and existing vegetation to best extent*

528 NORTH WALNUT STREET
812-332-8030

BLOOMINGTON, INDIANA 47404
FAX 812-339-2990

possible. The routing of local or collector roads shall be designed and finalized by the site engineer to best serve development. Possible routing of roads shown on pages 5-11 of this document but final routing to be designed at time of development and approved by Monroe County Highway Engineer.

- 3) Land Use: The 2nd title under this heading is 'manufacturing' and should add this sentence under this title: Area F may have 3.5 acres maximum contained in one lot of MP zone with the allowable uses listed below. Only one use is allowed from allowable uses below in this one lot.

Also, on behalf of Authentic Homes, Inc., Bynum Fanyo & Associates, Inc. would like to request, if possible, the Plan Commission waive the need for a 2nd hearing and make a determination for these PUD amendments after the 1st hearing.

Let us know if you have any questions or concerns for this subdivision and use of this parcel of land.

Sincerely,
Bynum Fanyo & Associates, Inc.



Daniel Butler, PE, Project Engineer

EXHIBIT 2: Capacity Letter



4/6/2022

Bynum, Fanyo & Associates
528 N. Walnut St.
Bloomington, IN 47404

Re: Wiley Farm Section F
Near SE Corner of Kirby and Fieldstone

To whom it may concern::

The preliminary information for Wiley Farm Section F in Bloomington, IN was received on 4/6/2022 by CenterPoint Energy. A determination has been made that CenterPoint has natural gas facilities in the area to provide service subject to our standard policies and procedures.

This shall not be construed as approval of the preliminary plat/plans for said project, but rather a statement that facilities to provide service are available. A final approved engineering drawing and service load requirements must be submitted to CenterPoint to determine if capacity exists to meet the requested load.

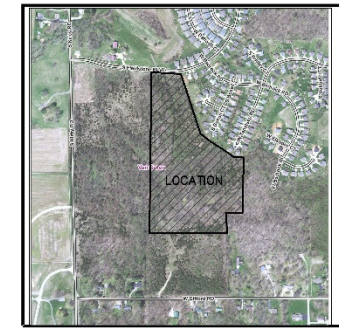
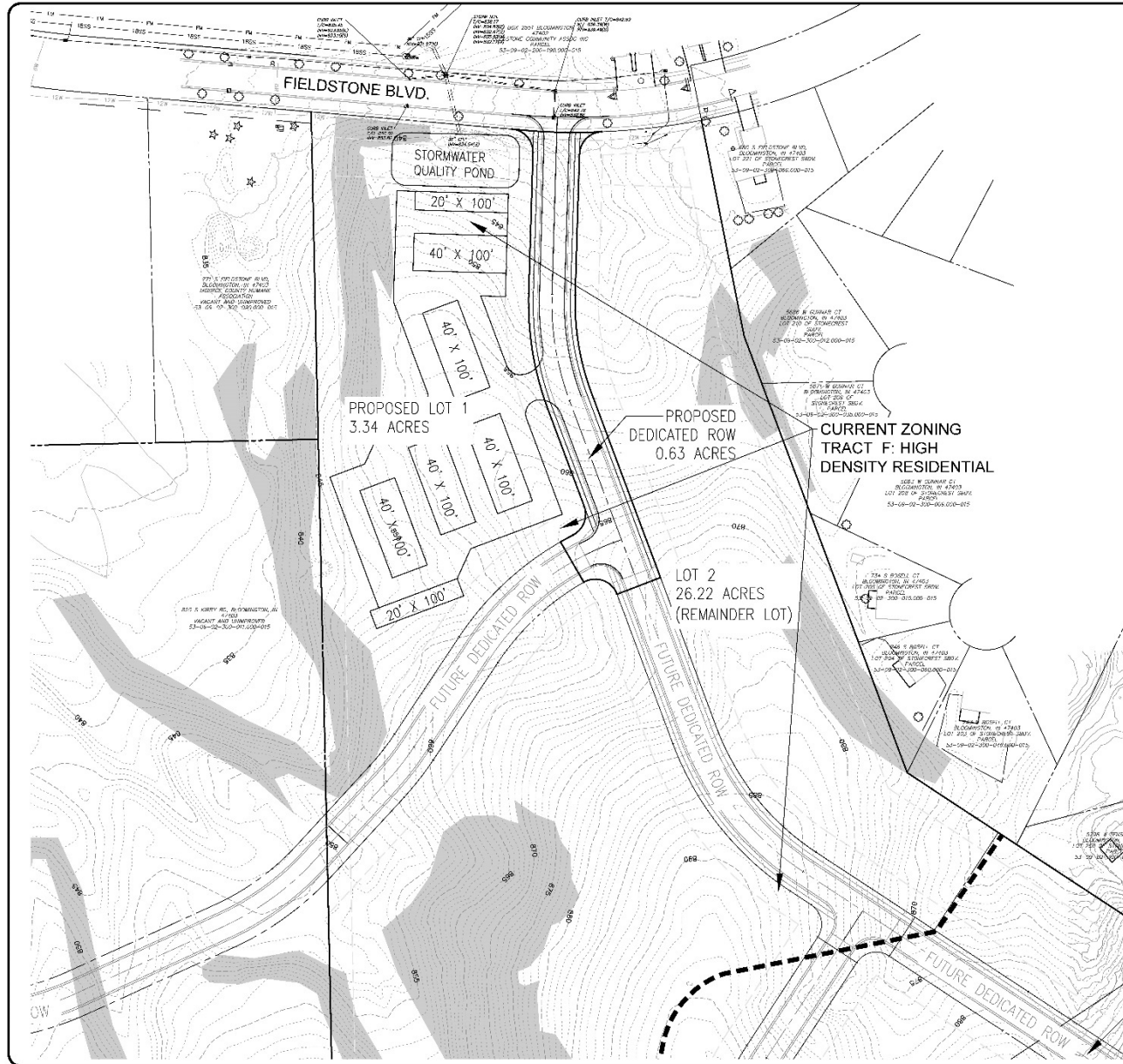
If you have further questions please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Joel Boser". The signature is written in a cursive style with a long, sweeping underline.

Joel Boser
Account Manager
812-948-4902

EXHIBIT 3: Site Plan (Conceptual)



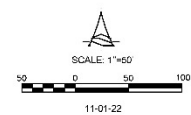
VICINITY/LOCATION MAP
SCALE: 1"=2000'

ADJACENT PROPERTIES USE
ALL EXISTING PROPERTIES SURROUNDING THIS PROPERTY ARE CURRENTLY USED AS SINGLE FAMILY RESIDENTIAL LOTS OF VARYING PROPERTY

TRACT F DETAILS
PLD DENSITY = 10 DU/AC
AREA = 18.4 ACRES
TOTAL UNITS ALLOWED = 184 UNITS
EXPOSED UNITS

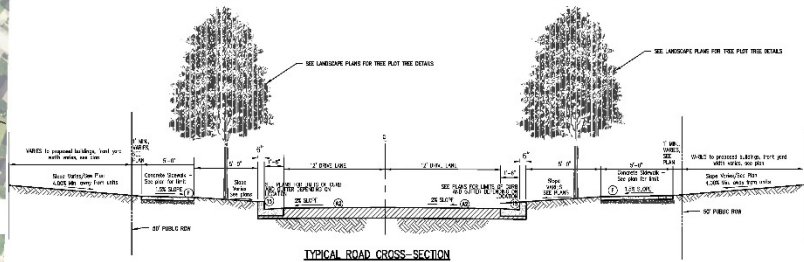
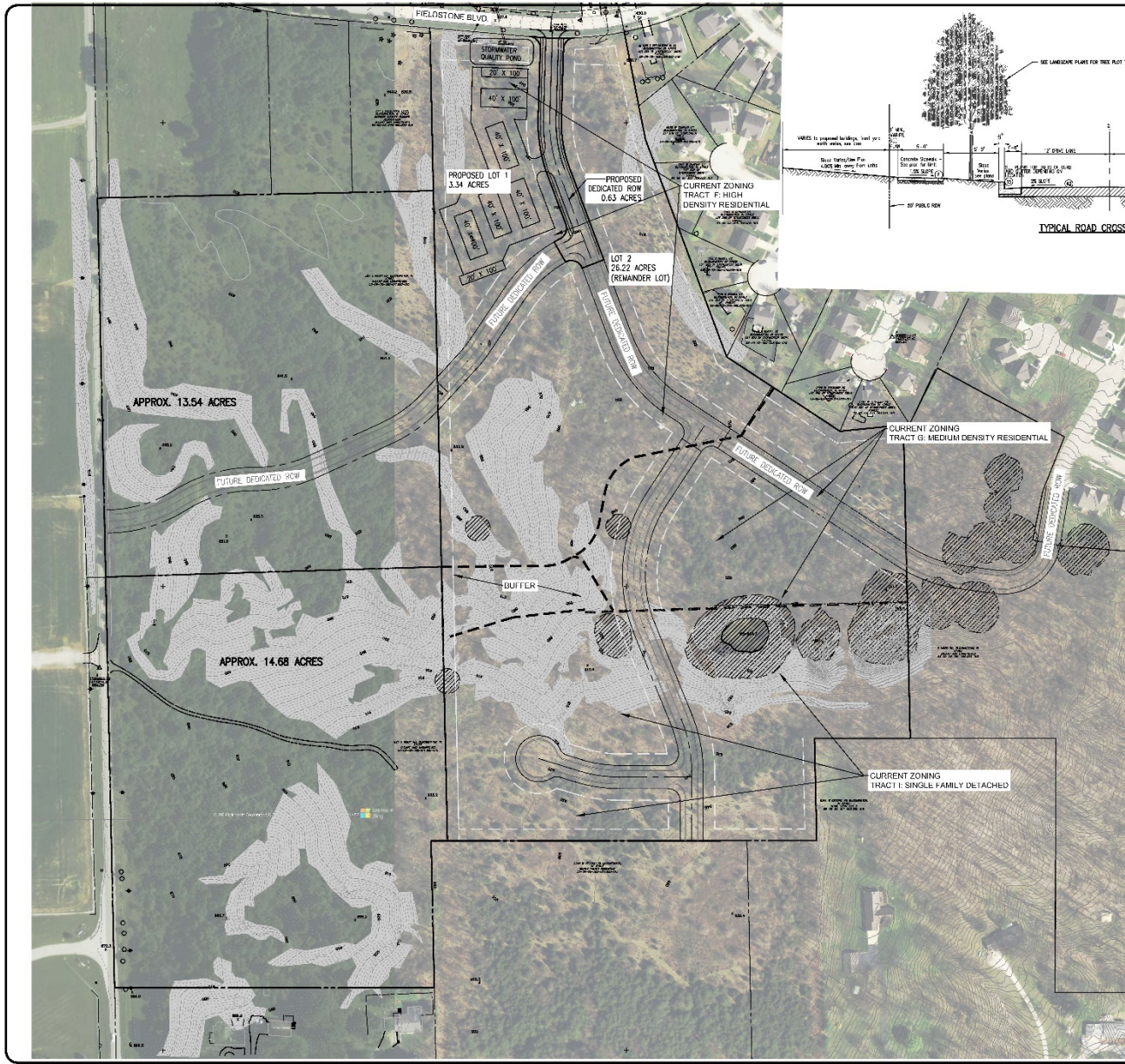
SITE LEGEND

- [Symbol] EXTENT OF EXISTING STEP SLOPES CONDITIONS - TO REMAIN UNDISTURBED EXCEPT FOR ROAD CROSSING
- [Symbol] EXTENT OF PROPOSED EROSION CONTROL/STABILIZATION SPACE UNITS - TO REMAIN UNDISTURBED EXCEPT FOR ROAD CROSSING



NOTE TO CONTRACTOR
CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

PROJECT NO: 402023	
ARCHITECTURE	PLANNING
CIVIL ENGINEERING	
BLOOMINGTON, INDIANA	
(317) 334-2990 (Fax)	
BENJAMIN WILEY ASSOCIATES, INC.	
505 North Indiana Street	
(317) 332-8230	
Contract No.	
PROPOSED WILEY FARM OUTLINE PLAN	
SECTION 'F' AREA	
BLOOMINGTON, INDIANA	
Title: TRACT 'F' ENLARGED SITE PLAN	
designed by: DJB	
checked by: DJB	
checked by: JSF	
sheet no: C301	
Project no.: 402023	



ADJACENT PROPERTIES USE

ALL ADJACENT PROPERTIES SURROUNDING THIS PROPERTY ARE CURRENTLY USED AS SINGLE FAMILY RESIDENTIAL LOTS OR VACANT PROPERTY

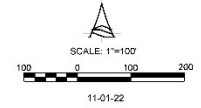
TRACT F DETAILS

RUD DENSITY = 10 DU/AC
 AREA = 15.4 ACRES
 TOTAL UNITS ALLOWED = 154 UNITS
 PROPOSED UNITS

SITE LEGEND

□ EXTENT OF EXISTING STEEP SLOPES CONDITIONS - TO REMAIN UNDEVELOPED (EXCEPT FOR ROAD CROSSING)

▨ EXTENT OF REQUIRED WAREZ CONSERVATION ESSENTIAL SPACE UNITS - TO REMAIN UNDEVELOPED (EXCEPT FOR ROAD CROSSING)



NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

REV'S ONLY

ARCHITECTURE
 CHALLENGING PLANNING
 BLOOMINGTON, INDIANA
 (617) 336-2800 (F-P)

BBB
 BRUNNENFANTO & ASSOCIATES, INC.
 528 north walnut street
 (617) 332-8030

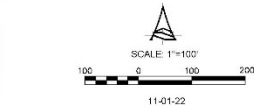
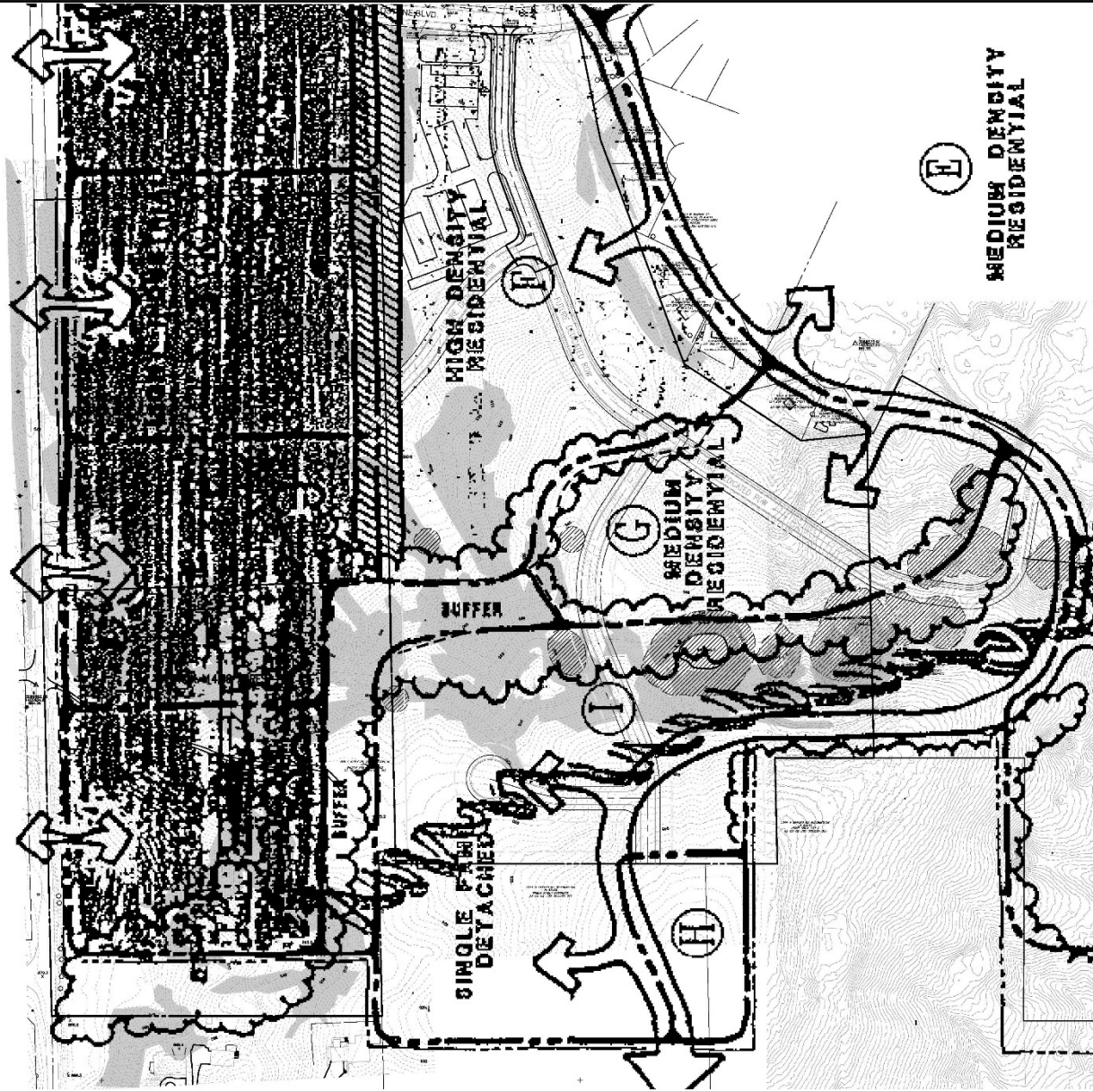
certified by:

PROPOSED WILEY FARM OUTLINE PLAN

SECTION F' AREA
 BLOOMINGTON, INDIANA

Site: OVERALL PROPERTY SITE PLAN

des'gned by: DJB
 drawn by: DJB
 checked by: JSF
 sheet no: C201
 project no: 402023



NOTE TO CONTRACTOR
 CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

		ARCHITECTURE CIVIL ENGINEERING PLANNING	
528 north school street (612) 332-8639		Bloomington, Indiana (612) 332-2600 (fax)	
PROPOSED WILEY FARM OUTLINE PLAN			
SECTION 'F' AREA BLOOMINGTON, INDIANA			
Date: PUD OVERLAY EXHIBIT			
designed by: DUB drawn by: DUB checked by: JSF sheet no: C202 project no: 422023			

EXHIBIT 4: HOA Meeting Synopsis



BYNUM FANYO & ASSOCIATES, INC.

ARCHITECTURE
CIVIL ENGINEERING
PLANNING

January 18, 2023

Monroe County Planning Department
Showers Building North
501 N Morton St, Suite 224
Bloomington, IN 47404

SUBJECT: Wylie Farm PUD Tract 'F' Amendment plan
Neighborhood Meeting for 'Fieldstone Community Association'

This letter serves to give a synopsis of the SUBJECT meeting required to hold for communication, collaboration, and helpful feedback for a new plan adjacent to an existing neighborhood.

This meeting was offered and held January 19, 2023 at the Monroe County Convention Center in the Finch Room at 5:30pm. It was advertised to the Fieldstone Community Association administrator, Michael Rousey, to advertise to all HOA members. Michael Rousey was responsive through e-mail to 'spread the word' to homeowners.

The meeting offered all current plans as displays for all to comment on and a presentation was offered for any to give feedback, ask questions, or provide comments.

There were no questions or comments offered.

Sincerely,

Bynum Fanyo & Associates, Inc.

528 NORTH WALNUT STREET
812-332-8030 OR DBUTLER@BYNUMFANYO.COM

BLOOMINGTON, INDIANA 47404
FAX 812-339-2990

EXHIBIT 5: Original Fieldstone Wiley Farm PUD Ordinance

ORDINANCE 94-50

**TO AMEND THE BLOOMINGTON ZONING MAPS
FROM RE TO RL/PUD AND MP/PCD
AND GRANT OUTLINE PLAN APPROVAL**

Re: 5701 WEST S.R. 48

(Brett Davis of J&B Builders, Petitioner)

WHEREAS, the Common Council passed a Zoning Ordinance amendment and adopted new incorporated zoning maps on June 7, 1978 which are now incorporated in Title 20 of the Bloomington Municipal Code; and

WHEREAS, the Plan Commission has considered this case, RL/PUD/MP/PCD-63-94 and has recommended that the petitioner, Brett Davis (J&B Builders), be granted an amendment to the Bloomington zoning maps, a PUD and PCD designation, and an outline plan approval and request that the Common Council consider his petition;

NOW, THEREFORE, BE IT HEREBY ORDAINED BY THE COMMON COUNCIL OF THE CITY OF BLOOMINGTON, MONROE COUNTY, INDIANA, THAT:

SECTION I. Through the authority of IC 36-7-4, the zoning for the property located at 5701 W. S.R. 48 be changed from RE to RL with a PUD designation. That property is further described as follows:

The Southwest Quarter of Section 2, Township 8 North, Range 2 West in Monroe County, Indiana, containing 160 acres more or less excepting therefrom the following described tracts:

Exception No. 1 - A part of the Southwest quarter of the Southwest quarter of said Section 2, Township 8 North, Range 2 West, described as follows: Beginning at a point on the South line of said quarter quarter, 600 feet west of the southeast corner thereof; thence NORTH 01 degree 43 minutes WEST and parallel with the east line of said quarter quarter 746 feet to an iron pipe; thence WEST 521 feet to an iron pipe; thence SOUTH 1 degree 43 minutes EAST 746 feet to the south line of said quarter quarter; thence EAST along said south line 521 feet to the place of beginning, containing 8.92 acres, more or less.

Exception No. 2 - A part of the Southwest Quarter of Section 2 Township 8 North Range 2 West, bounded and described as follows, to-wit: Beginning at the Southeast corner of said Southwest quarter; thence running west over and along the south section line 100 feet; thence NORTH 200 feet; thence EAST 100 feet and to the east boundary line of said quarter section; thence SOUTH over and along said east boundary line 200 feet and to the place of beginning, containing .5 acre, more or less.

Exception No. 3 - A part of the Southwest quarter of the Southwest quarter of Section 2, Township 8 North, Range 2 West, Van Buren Township, Monroe County, Indiana, and more particularly described as follows: Beginning SOUTH 88 degrees and 36 minutes EAST 480.00 feet from the Southwest corner of said Section, and on a railroad spike in the Gifford Road and on the south line of said Section; thence NORTH 210.00 feet to an iron rod; thence NORTH 88 degrees and 36 minutes WEST 200.00 feet to an iron rod; thence SOUTH 210.00 feet to a railroad spike in the said road and on the south line of said section; thence on the said road and section line SOUTH 88 degrees 36 minutes EAST 200.00 feet to the place of beginning, containing 1.00 acre more or less.

Course datum used in this description is based on an assumed due north bearing of the west line of said section.

Exception No. 4 - A part of the Southwest quarter of the Southwest quarter of Section 2, Township 8 North, Range 2 West, Van Buren Township, Monroe County, Indiana,

and more particularly described as follows: Beginning SOUTH 88 degrees and 36 minutes EAST 480.00 feet from the southwest corner of said Section, and on a railroad spike in the Gifford Road and on the south line of said section; thence NORTH 210.00 feet to an iron rod, thence SOUTH 88 degrees 36 minutes EAST 210.00 feet to an iron rod; thence SOUTH 210.00 feet to a railroad spike in the said road and on the south line of said Section, thence on the said Road and Section line NORTH 88 degrees 36 minutes WEST 210 feet to the place of beginning, containing 1.01 acres, more or less.

Exception No. 5 - A part of the Southwest quarter of the southwest quarter of Section 2, Township 8 North, Range 2 West, Van Buren Township, Monroe County, Indiana, and more particularly described as follows: Beginning at the southwest corner of said Section 2 and in Gifford Road; thence NORTH 210 feet along Kirby Road; thence SOUTH 88 degrees 36 minutes EAST 280 feet to an iron rod; thence SOUTH 210 feet to a railroad spike in said Gifford Road and on the south line of said Section; thence on the said road and section line NORTH 88 degrees 36 minutes WEST 280 feet to the place of beginning, containing 1.35 acres more or less.

Exception No. 6 - A part of the Southwest Quarter of Section 2, Township 8 North, Range 2 West, bounded and described as follows; to-wit: Beginning at a concrete nail in the centerline of the Gifford Road 300.0 feet west of the Southeast corner of the southwest quarter of said Section 2, Township 8 North, Range 2 West, said corner being marked by a concrete nail at the point of intersection of said centerline of said Gifford Road with the centerline of an unimproved public roadway running in a northerly direction therefrom; thence WEST over and along said centerline of said Gifford Road and south line of said quarter section for 300.0 feet to a concrete nail; thence leaving said centerline of said Gifford Road on a bearing of NORTH 1 degree 43 minutes WEST for 200.0 feet to an iron pipe, passing over another iron pipe, 22.2 feet from said centerline as measured along the described line; thence EAST 300.0 feet to an iron pipe; thence SOUTH 1 degree 43 minutes EAST for 200.0 feet to the point of beginning, passing over another iron pipe 22.0 feet therefrom as measured along the described line, containing 1.377, more or less.

Exception No. 7 - A part of the Southwest Quarter of Section 2, Township 8 North, Range 2 West, Monroe County, Indiana, bounded and described as follows: Beginning at a point on the south line of said Southwest quarter and in Gifford Road, said point of beginning begin NORTH 89 degrees 11 minutes 54 seconds WEST, 100.00 feet from the Southeast corner of said Southwest quarter, said point of beginning being also the Southwest corner of a tract of land that is described in a deed from William Carl and Beverly Juroff to Gary Lee and Nancy Jo Bruce and recorded March 29, 1979 in Deed Record 267, page 06 in the office of the Recorder of Monroe County, Indiana; thence from said point of beginning and with the west line of said Bruce tract and running NORTH 00 degrees 00 minutes 13 seconds WEST for 200.00 feet and to the Northwest corner of said Bruce tract; thence SOUTH 89 degrees 11 minutes 54 seconds EAST for 100.00 feet and to the Northeast corner of said Bruce tract on the east line of said Southwest quarter; thence with the east line of said Southwest quarter and running NORTH 00 degrees 00 minutes 13 seconds WEST for 137.33 feet; thence leaving said east line and running NORTH 89 degrees 11 minutes 54 seconds WEST for 258.26 feet; thence SOUTH 00 degrees 00 minutes 13 seconds EAST for 337.33 feet and to the south line of said Southwest quarter; thence with the south line of said Southwest quarter and running SOUTH 89 degrees 11 minutes 54 seconds EAST for 158.26 feet and to the point of beginning, containing 1.541 acres, more or less.

Also Excepting the following dedicated roadway.

A part of the Southwest Quarter of Section 2, Township 8 North, Range 2 West, Monroe County, Indiana, bounded and described as follows: Beginning at a point on the south line of said Southwest Quarter and in Gifford Road, said point of beginning being NORTH 89 degrees 11 minutes 54 seconds WEST 258.26 feet from the Southeast corner of said Southwest quarter; thence from said point of beginning and

running NORTH 00 degrees 00 minutes 13 seconds WEST for 674.67 feet; thence NORTH 89 degrees 11 minutes 54 seconds WEST for 60.00 feet; thence SOUTH 00 degrees 00 minutes 13 seconds EAST for 674.67 feet and to the south line of said Southwest quarter; thence with said south line and running SOUTH 89 degrees 11 minutes 54 seconds EAST for 60.00 feet and to the point of beginning, containing 0.929 acres, more or less.

Containing after said exceptions 143.38 acres.

Also, the Northwest Quarter of Section 2, Township 8 North, Range 2 West in Monroe County, Indiana, containing 134 acres more or less, excepting therefrom the following described tracts:

Exception A - A part of the said quarter section, bounded and described as follows, to-wit: Beginning at the Northwest corner of said quarter section, thence SOUTH 52 rods; thence EAST 28 rods; thence NORTH 32 rods; thence EAST 8 rods; thence NORTH 20 rods and to the north line of said quarter section; thence WEST 36 rods over and along the said north line, and to the place of beginning, containing 10.1 acres, more or less.

Exception B - A part of the said quarter section, bounded and described as follows, to-wit: Beginning at the northeast corner of said quarter section, where there is a stone put down in the ground on the Township line in the main road leading from Bloomington to Smith's Ferry, and running thence WEST 6 poles and 20 links to the half mile stake of Section 35, Township 9 North, Range 2 West where there is a stone put down on the Township line in said Road; thence SOUTH 7½ degrees EAST 137 poles and 23 links to a stone put down in the East and West center line; thence EAST 3 poles 6½ links to a stone put down in the East and West center line; thence NORTH 137 poles and 23 links to the place of beginning; said exception containing 4.31 acres, more or less.

Exception C - A part of the said quarter section, bounded and described as follows, to-wit: Beginning at a point on the north line of said quarter section 6 rods and 20 links west of the northeast corner thereof; thence SOUTH 7½ degrees EAST 20 rods; thence WEST parallel to the north line of said quarter section 404 feet; thence NORTH 7½ degrees WEST and parallel to the east line of this excepted tract 20 rods, and to the north line of the said quarter section; thence EAST 404 feet over and along the North line of said quarter section, and to the place of beginning, containing 3 acres, more or less.

Exception D - A part of the Northeast Quarter of the Northwest Quarter of Section Two (2), Township Eight (8) North, Range Two (2) West, Monroe County, Indiana, and more particularly described as follows: Beginning at a point on the North line of said Section and in the center line of State Road Number 48, said point being SOUTH 89 degrees 53 minutes 50 seconds WEST 825.20 feet from the Northeast corner of the Northwest Quarter of said Section; thence continuing along said North line and said center line SOUTH 89 degrees 53 minutes 50 seconds WEST 264.00 feet; thence leaving said North Line and said center line SOUTH 1 degree 54 minutes EAST 330.00 feet to an iron pipe; thence NORTH 89 degrees 53 minutes 50 seconds EAST 264.00 feet to an iron pipe; thence NORTH 1 degree 54 minutes WEST 330.00 feet to the place of beginning. Containing 2.00 acres, more or less.

Exception E - A part of the Northwest Quarter of Section 2, Township 8 North, Range 2 West, bounded and described as follows, to-wit: Beginning at a point on the north line of said quarter section 6 rods and 20 links west of the northwest corner thereof; thence running SOUTH 7½ degrees EAST 20 rods and to the real point of beginning which real point of beginning is the southeast corner of a certain tract of land conveyed by Turner Wiley and Ollie P. Wiley, to Leonard Edward Scaggs and Sarah Jean Scaggs, by Warranty Deed recorded in Deed Record 120, at page 86 of the records of the County Recorder of Monroe County, Indiana; running thence SOUTH 7½ degrees EAST 10 rods; thence WEST and parallel to the south line of the tract

above referred to 8 rods; thence in a NORTHEASTERLY direction and parallel to the tract herein conveyed 10 rods and to the southwest corner of the tract above referred to; thence EAST over and along the south line of said tract referred to 8 rods and to the place of beginning, containing 0.5 acres more or less.

Exception F - A part of the Northwest Quarter of Section 2, Township 8 North, Range 2 West, Monroe County, Indiana, bounded and described as follows, to-wit: Beginning at a point on the west line of said northwest quarter of Section 2, Township 8 North, Range 2 West, said point being 1245.75 feet south of the northwest corner of said quarter section, said point also being the southwest corner of a tract of land conveyed to Robert Byers by Russell Wiley, and recorded April 12, 1956 in Deed Record 119, page 592 in the office of the Recorder of Monroe County, Indiana; thence with the south line of said Byers tract and running from said point of beginning NORTH 87 degrees 10 minutes EAST for 205.00 feet; thence leaving the south line of said Byers tract and running SOUTH 02 degrees 09 minutes EAST for 100.00 feet; thence SOUTH 87 degrees 10 minutes WEST for 205.00 feet, and to the west line of said northwest quarter; thence NORTH 2 degrees 09 minutes WEST for 100.00 feet, and to the place of beginning, containing 0.47 acres more or less.

Exception G - A part of the Southwest Quarter of the northwest quarter of Section 2, Township 8 North, Range 2 West, Van Buren Township, Monroe County, Indiana, and more particularly described as follows: Beginning at a P.K. nail on the Kirby Road 3,499.0 feet north from the southwest corner of said section; thence NORTH 100.00 feet to a P.K. Nail on the said road, thence north 89 degrees and 20 minutes EAST 222.24 feet to a post; thence SOUTH 00 degrees and 52 minutes WEST 100.00 feet to an iron rod, thence SOUTH 89 degrees and 19 minutes WEST 220.82 feet to the place of beginning, containing 0.51 acres, more or less.

Exception H - A part of the Northwest quarter of Section 2, Township 8 North, Range 2 West, bounded and described as follows, to-wit: Beginning at a point on the west line thereof, 52 rods south of the northwest corner, running thence EAST a distance of 28 rods; thence SOUTH 12 rods; thence WEST 28 rods, and to the said west line, thence NORTH on said west line a distance of 12 rods, and to the point of beginning, containing 2.1 acres, more or less.

Exception I - A part of the Northwest quarter of Section 2, Township 8 North, Range 2 West, bounded and described as follows, to-wit: Beginning at a point on the west line thereof 64 rods south of the northwest corner running thence east a distance of 28 rods, thence SOUTH 11½ rods; thence WEST 28 rods, and to the said west line; thence NORTH on said west line a distance of 11½ rods, and to the point of beginning, containing 2 acres, more or less.

Exception J - A part of the Southwest Quarter of the Northwest Quarter of Section 2, Township 8 North, Range 2 West, Monroe County, Indiana, also being all of Lot Number 1 in Wiley Farms Subdivision, an unrecorded plat being more particularly described as follows: COMMENCING at the southwest corner of said Section 2; thence NORTH along the west line of said Section 2, a distance of 3,307.00 feet and to the point of beginning; thence continuing along said line NORTH 190.00 feet; thence leaving said line EAST 252.63 feet; thence SOUTH 190.00 feet; thence WEST to the point of beginning, containing 1.10 acres, more or less.

Exception K - A part of the Southwest quarter of the Northwest quarter of Section 2, Township 8 North, Range 2 West, Monroe County, Indiana, also being all of Lot 3 in Wiley Farms Subdivision an unrecorded plat being more particularly described as follows: COMMENCING at the southwest corner of said Section 2; thence NORTH along the west line of said Section 2 a distance of 2,849.00 feet to the point of beginning; thence continuing along said line NORTH 200.00 feet; thence leaving said line EAST 240.00 feet; thence SOUTH 200.00 feet; thence WEST 240.00 feet to the point of beginning. Containing 1.10 Acres, more or less, less 40 feet of even width lying east of the centerline of Kirby Road for a right-of-way.

Containing, after said exceptions 106.81 acres.

Also excepting:

A part of the Northwest Quarter of Section 2, Township 8 North, Range 2 West in Monroe County Indiana more particularly described as follows:

Commencing at the Northeast corner of the Northwest quarter of said Section 2; thence SOUTH along the east line of said quarter 50 feet; thence WEST parallel to the center of State Road 48 a distance of 1220 feet to the POINT OF BEGINNING; thence continuing WEST 377 feet; thence SOUTH 540 feet; thence EAST 237 feet, thence NORTHEASTERLY 558 feet to the POINT OF BEGINNING, containing 3.8 acres, more or less.

Also excepting:

A part of the Southeast Quarter of Section 2, Township 8 North, Range 2 West in Monroe County, more particularly described as follows:

Commencing at the Northwest corner of said Quarter Section thence SOUTH 200 feet; thence EAST 30 feet to the POINT OF BEGINNING; thence SOUTH parallel to the centerline of Kirby Road 2246 feet to a point 210 feet north of the south line of said quarter; thence EAST parallel with the south line of said quarter 600 feet; thence NORTH 840 feet; thence EAST 100 feet; thence NORTH 1406 feet; thence WEST 700 feet and to the POINT OF BEGINNING, containing 34.2, acres more or less.

Containing after all exceptions 212.2 acres, more or less.

SECTION II. Through the authority of IC 36-7-4 the zoning for two parcels of property located at 5701 W. S.R. 48 be changed from RE to MP with a PCD designation. That property is further described as follows:

A part of the Southeast Quarter of Section 2, Township 8 North, Range 2 West in Monroe County, more particularly described as follows:

Commencing at the Northwest corner of said Quarter Section thence SOUTH 200 feet; thence EAST 30 feet to the POINT OF BEGINNING; thence SOUTH parallel to the centerline of Kirby Road 2246 feet to a point 210 feet north of the south line of said quarter; thence EAST parallel with the south line of said quarter 600 feet; thence NORTH 840 feet; thence EAST 100 feet; thence NORTH 1406 feet; thence WEST 700 feet and to the POINT OF BEGINNING, containing 34.2, acres more or less.

ALSO:

A part of the Northwest Quarter of Section 2, Township 8 North, Range 2 West in Monroe County Indiana more particularly described as follows:


Commencing at the Northeast corner of the Northwest quarter of said Section 2; thence SOUTH along the east line of said quarter 50 feet; thence WEST parallel to the center of State Road 48 a distance of 1220 feet to the POINT OF BEGINNING; thence continuing WEST 377 feet; thence SOUTH 540 feet; thence EAST 237 feet, thence NORTHEASTERLY 558 feet to the POINT OF BEGINNING, containing 3.8 acres, more or less.

SECTION III. Through the authority of IC 36-7-4 and pursuant to Chapter 20.14 of the Bloomington Municipal Code, that an outline plan be approved.

SECTION IV. The Outline Plan shall be attached and made a part of this ordinance.

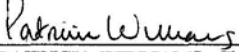
SECTION V. This ordinance shall be in full force and effect from and after its passage by the Common Council and approval by the Mayor.

PASSED AND ADOPTED by the Common Council of the City of Bloomington, Monroe County, Indiana, upon this 7th day of December, 1994.



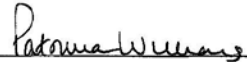
JIM SHERMAN, President
Bloomington Common Council

ATTEST:



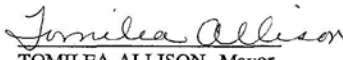
PATRICIA WILLIAMS, Clerk
City of Bloomington

PRESENTED by me to Mayor of the City of Bloomington, Monroe County, Indiana, upon this 9th day of December, 1994.



PATRICIA WILLIAMS, Clerk
City of Bloomington

SIGNED AND APPROVED by me upon this 9th day of December, 1994.



TOMILEA ALLISON, Mayor
City of Bloomington

SYNOPSIS

This ordinance grants a rezoning from RE to RL/PUD and MP/PCD and approves an outline plan for the 250 acre Wiley Farm located at 5701 W. S.R. 48.

Signed copies:
Planning
Petitioner - c/o SMITH
NEUBERGER

*****ORDINANCE CERTIFICATION*****

In accordance with IC 36-7-4-605 I hereby certify that the attached Ordinance Number 94-50 is a true and complete copy of Plan Commission Case Number RL/PUD/MP/PCD-63-94 which was given a recommendation of approval by a vote of 10 Ayes, 1 Nays, and 0 Abstentions by the Bloomington City Plan Commission at a public hearing held on October 31, 1994.

Date: November 1, 1994

Timothy A. Mueller

 Tim Mueller, Secretary
 Plan Commission

Received by the Common Council Office this _____ day of _____,

Patricia Williams

 Patricia Williams, City Clerk

Appropriation Ordinance # _____ Fiscal Impact Statement # _____ Ordinance Resolution # _____

Type of Legislation:

Appropriation	End of Program	Penal Ordinance
Budget Transfer	New Program	Grant Approval
Salary Change	Bonding	Administrative Change
Zoning Change	Investments	Short-Term Borrowing
New Fees	Annexation	Other _____

If the legislation directly affects City funds, the following must be completed by the City Controller:

Cause of Request:

Planned Expenditure _____ Emergency _____
 Unforeseen Need _____ Other _____

Funds Affected by Request:

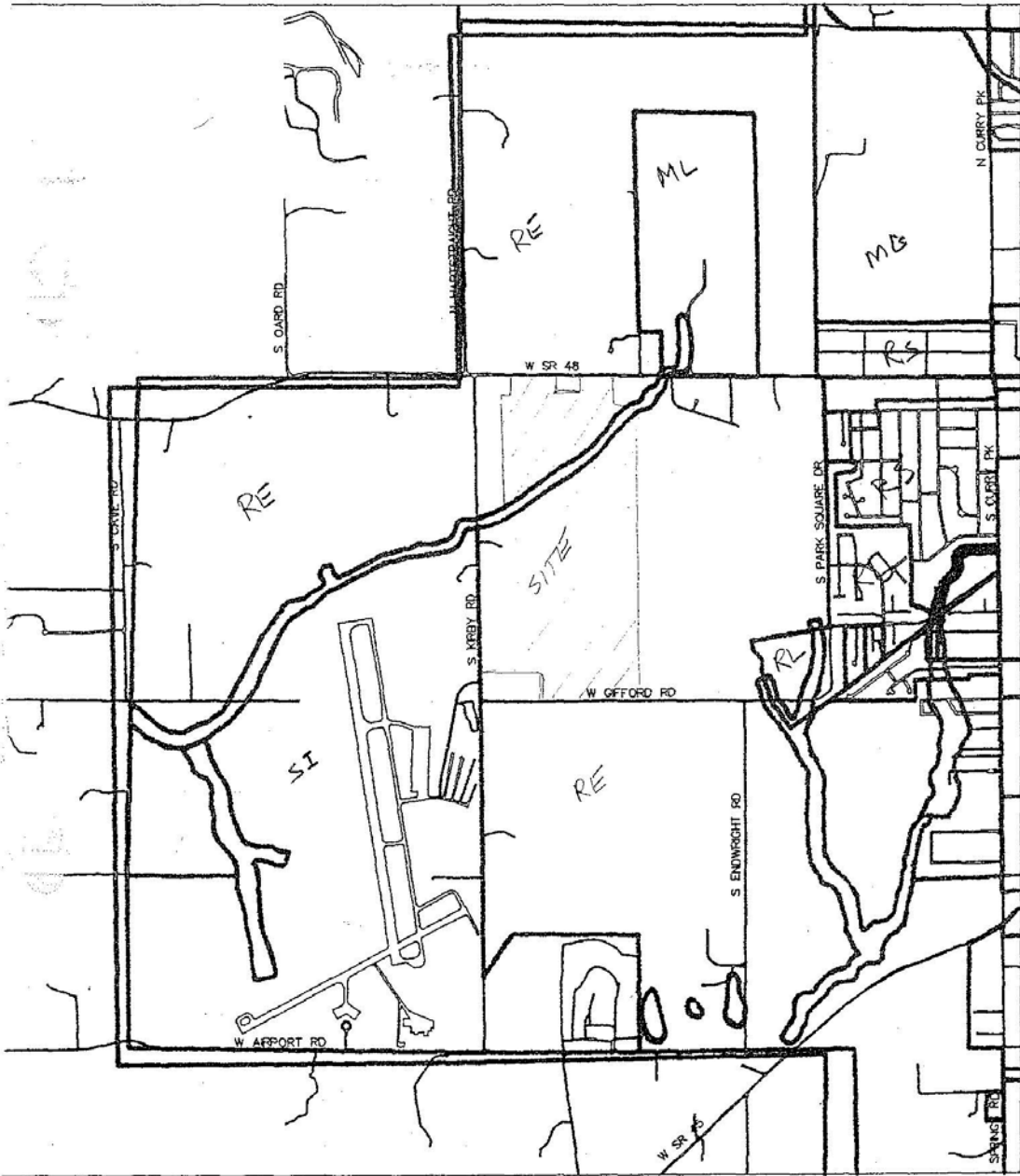
Fund(s) Affected	_____	_____
Fund Balance as of January 1	\$ _____	\$ _____
Revenue to Date	_____	_____
Revenue Expected for Rest of year	_____	_____
Appropriations to Date	_____	_____
Unappropriated Balance	_____	_____
Effect of Proposed Legislation (+/-)	_____	_____
Projected Balance	\$ _____	\$ _____

Signature of Controller _____

Will the legislation have a major impact on existing City appropriations, fiscal liability or revenues? Yes _____ No _____

If the legislation will not have a major fiscal impact, explain briefly the reason for your conclusion.

If the legislation will have a major fiscal impact, explain briefly what the effect on City costs and revenues will be and include factors which could lead to significant additional expenditures in the future. Be as specific as possible. (Continue on second sheet if necessary.)



MEMO

To: Common Council
From: Planning Department
Date: November 2, 1994
Case No.: RL/PUD-MP/PCD-63-94
Location: 5701 West State Road 48
Petitioner: Brett Davis, J&B Builders, Inc.
Counsel: Smith Neubecker & Assoc., Inc.

On October 31, 1994, the Bloomington Plan Commission approved a rezone of 250 acres currently zoned RE to RL/PUD and MP/PCD and outline plan approval. This parcel contains 250 acres and is bordered by S.R. 48 to the north, Kirby Rd. and the airport to the west, and Gifford Rd. to the south. There is farmland to the east along with large lot residences. The site is gently rolling pasture with trees scattered throughout the site. The site is impacted by two drainage systems (Cave Creek and Sinking Creek), karst topography, and some relatively steep slopes.

This parcel is proposed to be developed into a mixed use area, including light industrial, a business park, low, medium and high residential housing, and a park. The petitioner has attempted to work with the existing topography and drainage. The original proposal was changed slightly to increase the industrial use. The areas of development as proposed are summarized below.

- TRACT A 29 acres, located off S.R. 48, single family detached homes, 86 units, 2.97 DU/AC
- TRACT B 17.5 acres, located off S.R. 48, single family detached homes or institutional, 62 units, 3.54 DU/AC
- TRACT C 24.5 acres, located south of Tract B on the east side of the site, single family detached homes, 86 units, 3.51 DU/AC
- TRACT D 22.1 acres, located centrally located on the site just south of TRACT A, medium density residential, 100 units, 4.52 DU/AC
- TRACT E 37.6 acres, located along the east side of the site, medium density residential, 190 units, 5.05 DU/AC
- TRACT F 18.4 acres, located centrally on the site adjacent to the light industrial use, high density residential, 184 units, 10 DU/AC
- TRACT G 9.2 acres, located between Tracts I and F, medium density residential, 56 units, 6.09 DU/AC
- TRACT H 12.8 acres, located on the southeast corner of the site, large single family

home lots, 5 units, 0.39 DU/AC

TRACT I 21.1 acres, located on the south edge of the site, single family detached homes, 42 units, 1.99 DU/AC

TRACT J 7.2 acres, located on the south center portion of the site, single family detached homes, 15 units, 2.08 DU/AC

TRACT K 34.2 acres, located along the western edge of the site, 4 proposed lots

TRACT L 3.8 acres, limited neighborhood business off S.R. 48 (see list of proposed uses)

TRACT M 6.4 acre park

Right-of-way dedication is required along Gifford Rd. (35' from CL), S.R. 48 (50' from CL), and Kirby Rd. (40' from CL). One access point is proposed for S.R. 48, one access point for Gifford, and multiple access points for Kirby. An issue for development plan approval will be the number of accesses for the industrial portion of the site. Sidewalks will be required along the perimeter streets as well as the internal streets.

Drainage is a major issue to this development. Although this is outline plan stage, this area drains to two very sensitive basins; Sinking Creek and Cave Creek. Sinking Creek drains to the south where this proposal calls for larger estate size lots. The area draining towards Cave Creek includes industrial uses to the west, park to the east and high, medium and low density residential housing to the east and north. A business Park is planned for the north area of the site. The petitioners have done a considerable amount of engineering work to assure that the drainage situation will be acceptable. The concept now involves a larger area than originally proposed.

The detention area, much bigger than the regulatory floodplain, will allow an uncommon approach to storm drainage management. Conventional detention basins store the increase in the 100 year storm while the detention basin continues to discharge at the predevelopment rate of runoff. In other words, a big flow in and a small flow out occur simultaneously. The basin is sized to fill up during a 100 year storm, then continue to trickle down when the storm is over.

An impoundment of water would still be waiting where Cave Creek enters a cave downstream when water from a conventional basin would arrive downstream. The solution is to store 100% of the project's increase in runoff from a 100 year storm with no discharge. This requires a larger detention area and managed (human decision) release of the water. This is essentially what the Corps of Engineers does with the system of flood control reservoirs of which Lake Monroe is a part.

In addition, the petitioner's detention area will be sized to accommodate another 28 acre-feet (1 acre/1 foot deep) of water over and above the development's impact. The effect

is that the flood problem at the cave will actually be reduced, not just held constant.

The Growth Policies Plan includes the site in an area designated "landbank": areas in which major development should await contiguous development and urban services, with periodic reconsideration to determine whether development is warranted based on the nature of evolving development patterns. Early in the process of developing the new zoning ordinance, the Commission decided not to carry the "landbank" concept from plan to ordinance. The area along both sides of S.R. 48 in this vicinity were targeted for industrial zoning, given Park 48 and the airport's proximity. Urban density residential uses, perhaps clustered to avoid sinkholes, was discussed for the steeper, karst impacted portion of this site.

The area was viewed as an appropriate component of a "compact urban form" because the airport area and proposed airport related economic development lie to the west, Park 48 and proposed zoning for more economic development lie to the north, the area is served by an adequate highway, and severed by an elementary school to the east. Earlier this year, the petitioner received approval of a large-lot plat under the existing RE zoning, effectively blocking the industrial zoning scenario. After that approval, discussion continued as to what development alternatives might best serve the Growth Policies Plan's goals. Two fundamental issues drove this continued discussion: the inclusion of some land for industrial development, and the need for an exceptional response to flooding problems along Cave Creek west of the airport. The proposed plan is the result.

RE zoning motivates a developer to cookie-cutter the site into as many 40,000 s.f. lots as the regulations permit. Any acre devoted to common open space or stormwater detention would be a valuable lot foregone. A higher density enables the developer to allocate significant area to these functions. The plan shows several wooded buffer areas between land use components, a 6.4 acre park, and a very large detention area.

The mixed residential components at an average density of 3.7 units/acre are consistent with the plan's density goal for development in appropriate areas, and are well conceived in terms of wooded areas, other site features, and surrounding uses. The 3.8 acre business area at the S.R. 48 entrance is sized to serve the local needs for day-to-day convenience shopping.

Note that the MP, Manufacturing Park zoning, serves as the underlying zoning for both PCD components: the industrial area on Kirby and the neighborhood shopping on Whitehall Pike.

RL/PUD/MP/PCD-63-94

Brett Davis, J&B Builders, Inc.
5701 W. S.R. 48

Request for rezone of approximately 206.4 acres from RE to RL/PUD and proposed to be developed as a residential project with approximately 896 units, rezone of approximately 31.6 acres from RE to MP/PCD and proposed to be development as 27.38 acres light industrial, 3.8 acres limited neighborhood business, and a 6.4 acre park, and outline plan approval for the approximate 250 acre tract as a whole.

Conditions of approval:

1. The petitioner's development plan shall be designed with a report by a geotechnical consultant regarding the proposed stormwater detention system. This report should address the underlying geology of the Cave Creek basin, suitability of the detention basin's design, and measures for handling leakages in the system caused by karst features. If the geotechnical report determines that the 74 acre feet of additional stormwater cannot be detained, or if the specified storage cannot be accomplished in an appropriate location, then this outline plan provides that the land use shall be as permitted by the current zoning; residential estate (RE).
2. The entire detention facility must be fully completed with Phase I of the petitioner's development plans, or as otherwise determined by the Plan Commission.
3. The development plan shall contain a written agreement between the petitioner's and Monroe County for the operation of the stormwater detention facility by the County. If this written agreement between the petitioner's and the County cannot be secured prior to development plan approval then this outline plan provides that the lane use shall be as permitted by the current zoning; residential estate (RE).
4. Responsibility and ongoing funding for the maintenance of the stormwater detention facility will be provided by homeowner's association agreement. The agreement will enable Monroe County or the City of Bloomington to order maintenance or repairs, or to perform them at the homeowner's expense. This agreement shall be a component of any development plan.
5. Except for the stormwater commitments, the outline plan is a schematic representation; all engineering details, required dedications, and other site plan details are to be considered in the development plan approval process.
6. The Kirby Road entrances will be considered in the development plan review process. The Commission reserves the discretion to combine the entrances or require a service road.
7. Regarding the list of allowed uses: Chemicals and chemical products in the industrial

uses be limited to non-reactive combinations of previously prepared components. Delete Meat/Poultry/Seafood. Metal fabrication be limited to indoor processing and storage only with no significant external impacts. Delete Millwork and Sawmills. Paper products will exclude the manufacturing and use of pulp materials. Delete drugs and pharmaceuticals.

8. The Engineering staff and petitioner examine the possibility and feasibility of additional retention over and above that proposed.

October 31, 1994

To: Tim Mueller

From: T. Micuda, K. Komisarck, G. Heise,
M. Wedekind, P. Werner

Subj: RL/PUD-MP/PCD-63-94 J & B Builders 5701 W. SR 48

Please see our October 10, 1994 staff report for a full description of the site and some general environmental considerations. This report concentrates on recommendations.

Stormwater Detention - In light of the significant flooding that has occurred downstream in the Cavewood Estates subdivision and surrounding farmland, stormwater detention is the most important development issue on the site. Issues revolving around the detention plan include:

- 1) Basin Type - The Environmental Commission is in favor of using a dry detention basin in order to secure the maximum amount of storage capacity possible. The petitioner's plan is in agreement with this concept.
- 2) Basin Monitoring - The basin is being designed to manually control the release of stormwater flow. This is designed because the drainage downstream is so poor that it becomes necessary to hold back stormwater for much longer periods of time. We are supportive of a manually controlled detention basin and believe that it is the best way to insure that downstream residents will be adequately protected during large storm events. However, the Environmental Commission will not support a detention system of this importance that it would only be maintained by a homeowners association. An agreement between the petitioners and the County to insure governmental monitoring of the basin would be the best way to address this issue. If an agreement is not worked out to adequately address basin monitoring, the Environmental Commission would be reluctant to support an upzoning of land of this magnitude.
- 3) Geotechnical Report - The Environmental Commission strongly feels that a geotechnical report is necessary as a condition of any development plan approval for this site. This report should examine the underlying geology of the proposed detention area, locate any leakages in the basin due to karst features and propose adjustments in the size and capacity of the detention system based on any karst problems. Again, if the geotechnical shows that there are insoluble problems in the detention system due to karst, the Environmental Commission would not support any proposal at the densities being proposed by the petitioner.

A more complete report on the detention issue and other environmental issues will be given at the hearing as discussions with the petitioner and staff are completed.

cc. Rod Young

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Smith Neubecker & Associates, Inc.



Stephen L. Smith P.E., L.S.
President

Daniel Neubecker L.A.
Project Manager

September 1, 1994

City of Bloomington Plan Commission
c/o Tim Mueller, Director
City of Bloomington Plan Department
P. O. Box 100
Bloomington, IN 47402-0100

Dear Tim and Plan Commissioners:

We are pleased to submit this comprehensive land use plan for the development of the Wiley Farm on Bloomington's west side. This is an unique plan for an integrated development of a large (250 acres) parcel with varied features and opportunities.

We respectfully request consideration of the Plan Commission for rezoning from Residential Estate RE to RL Planned Unit Development and Plan Manufacturing Park. Our submission includes the outline plan drawings, outline plan statement, abbreviated property description and standard application form. Proof of notice to adjacent owners will be submitted prior to the hearing.

We look forward to working with you over ensuing weeks on this unique development proposal for Bloomington's west side.

Very truly yours,

A handwritten signature in black ink that reads "Steve Smith". The signature is written in a cursive, slightly slanted style.

Stephen L. Smith
SMITH NEUBECKER & ASSOCIATES, INC.

SLS:vp

Enclosures

cc: Lynn Coyne
Brett Davis
File #2296

4625 Morningside Drive
Post Office Box 5355
Bloomington, Indiana 47407-5355
Telephone 812 336-6536
FAX 812 336-0513

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**WILEY FARM
PLANNED DEVELOPMENT
OUTLINE PLAN STATEMENT
9/1/94**

The Wiley Farm is a planned development of a 250 acre tract at the corner of State Road 48 and Kirby Road on Bloomington's west side. Proposed is a mix of land uses that compliment each other, fit the existing features of the site, blend with surrounding land uses and meet many of the goals of the Bloomington Master policy plan.

The planned development calls for up to 896 residential units varying from 2.5 acre lot single-family to 10 units per acre multi-family. A small retail commercial area is proposed to compliment the project and serve area needs. Twenty-seven acres along the Kirby Road frontage adjacent to the airport is planned as a manufacturing park. The natural features of the site provide for open space, park land, buffers and transitions between land uses. Table 1 "Land Use and Density Summary" shows the size, maximum number of units and maximum density for each of the tracts.

This petition seeks rezone from the existing RE to RL Planned Unit Development and Planned Manufacturing Park.

LAND USE

RESIDENTIAL

The project will vary from estate lots to high density residential. Areas A, B and C are intended to be smaller lot single family detached subdivisions. Area D, E, and G are medium density residential and may be attached doubles, triples, quads, townhouses or small lot detached housing. Area F is high density housing intended to be multi-family buildings with multiple units in each building. Area H is estate lots at a density of 2.5 acres per lot. Areas I and J are large lot subdivision tracts of approximately two lots per acre.

MANUFACTURING

Area K is intended to be consistent with the current MP zone.

"The industrial park district is established to provide areas in which the use of the land is limited to light manufacturing, warehousing, wholesaling, storage and corporate offices."

Allowable uses in the MP portion of the project will include:

Commercial Trade

Business Service and Professional Office
Schools
Trade and Business
Building Trade Shops
Warehouses
Mini Warehouses

Commercial Wholesale

Building Material
Farm Products
Farm Supplies
Food Products
Household Goods

Manufacturing Processing

Apparel
Bakery
Dairy Products
Confectionery

Beverage Bottling
Chemicals and Chemical Products
Clocks
Scientific Instrument
Drugs and Pharmaceuticals
Electronic Equipment
Furniture
Meat, Poultry, Seafood
Medical Equipment
Metal Fabrication
Mill Work
Sawmills
Paper Products
Printing Newspapers
Research Laboratories
Miscellaneous Small Products
Sporting Goods, Toys, Novelties

Industrial Non-Processing

Warehouse
Storage

BUSINESS

Area L is designated as neighborhood serving retail services. This area shall be limited to 3.8 acres with a maximum of 30,000 gross square foot of building area. No individual use shall contain more than 10,000 square feet of gross floor area. Access will be directly to the internal collector street. Significant landscape and mounding will provide the interface between the business use and adjacent residential uses. Allowable uses will include:

Convenience Store
Day Care
Gift Shop
Retail Bakery
Drug Store
Personal Service
Arts and Crafts
Dairy Products
Floor Shop
Grocery
Meats

Hardware
Jewelry
Variety Store
Business and Professional Office
Clinics and Services
Doctor and Dentist Offices

OPEN SPACE

Extensive green space is proposed throughout this project to insure a pleasant residential environment. The natural site amenities are being retained, augmented and utilized to enhance the quality of the development.

An open space system shall be provided along the existing floodway. This system will include one or more lakes, detention, and natural green areas. This area becomes a major focal point of the development.

A neighborhood park is located in the central portion of the project utilizing some existing steeper sloped wooded land. This park also includes some flatter open areas that can be used for parking and open field play areas. The park may be developed, owned and maintained as a common area for this development or dedicated to the public for improvements and ownership. Discussion will commence between the applicant and City and County Parks Departments.

There are numerous other locations on the site with existing vegetation or with steep slopes. These areas are proposed to be used as buffer and transitions between land uses and projects.

TRAFFIC AND CIRCULATION

A key element to this planned development is the roadway network. A system of collector, secondary collector and local streets run throughout the project. The roadway connections are provided to all surrounding streets and properties.

The main collector roadway accesses State Road 48 and will serve as a thoroughfare into the project. From State Road 48 to the T-intersection no units shall have direct access to this thoroughfare. There will be numerous local roads entering the development serving parcels A, B, C, D, E and L. A center island will be constructed at S.R. 48 and a landscape plan developed along the R/W of this collector.

The secondary collector runs from Kirby Road to Gifford Road. This road is intended to directly serve units and provide an indirect connection to Kirby and Gifford and a good connection to the internal collector roadway.

A series of local streets will provide interconnection throughout the project as well as access to the land to the east. Direct accesses are proposed to Kirby Road for each of the four parcels of manufacturing land. Kirby is a relatively low volume road, and an attempt is being made to keep the development costs and associated land prices reasonable to encourage MP development in this location.

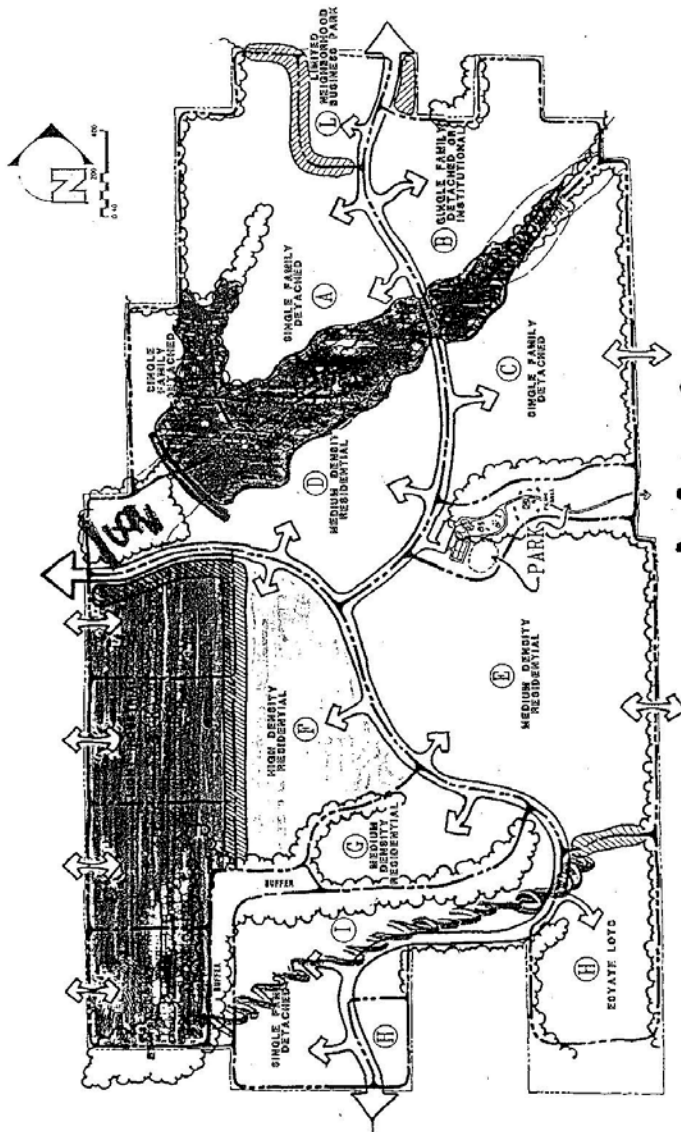
STORM WATER

A comprehensive storm water control system is proposed. The open space system along the existing floodway shall include significant detention facilities. The storm water detention shall be designed to provide a very long and slow discharge in recognition of downstream flooding problems. In so far as geologic conditions will allow, lakes shall be constructed in the floodway to serve both as amenities and as storm water control. An overall storm water plan will be designed with a first development plan.

SETBACKS

Building setbacks unique to this planned development are proposed based on the type of housing project. The following setbacks shall apply:

Housing Type and Area	Building Front Setback	Building Side Least Setback	Building Side Combined Setback	Rear Yard Setback
Single-Family Areas A, B & C	20 feet	6 feet	15 feet	25 feet
Medium Density Residential Areas D, E & G	20 feet	5 feet	10 feet	15 feet
Estate Lots Area H	30 feet	10 feet	25 feet	25 feet
Single-Family Large Lot Areas I & J	25 feet	8 feet	20 feet	25 feet



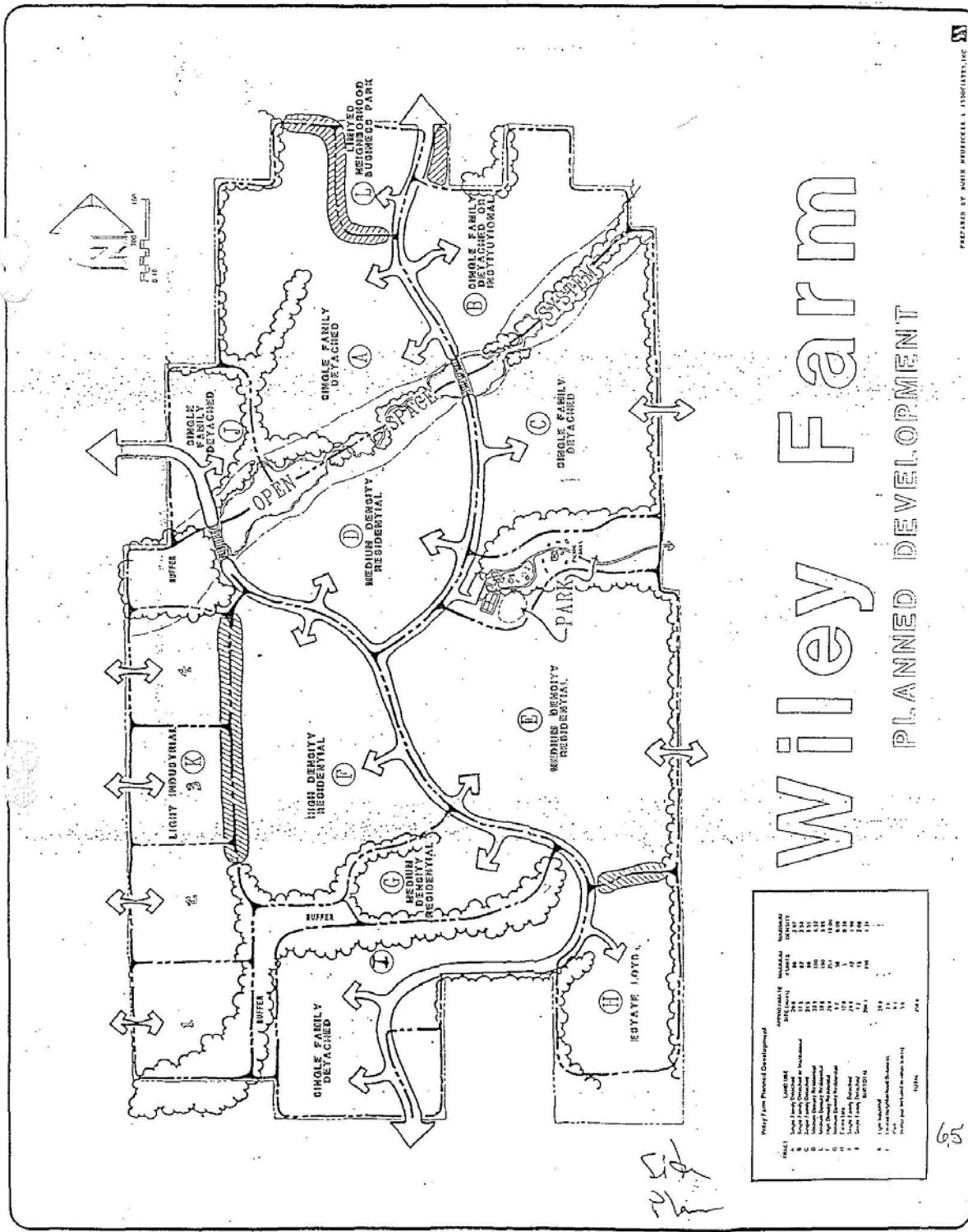
REVISIONS

Wiley Farm

PLANNED DEVELOPMENT

Summary of Proposed Development

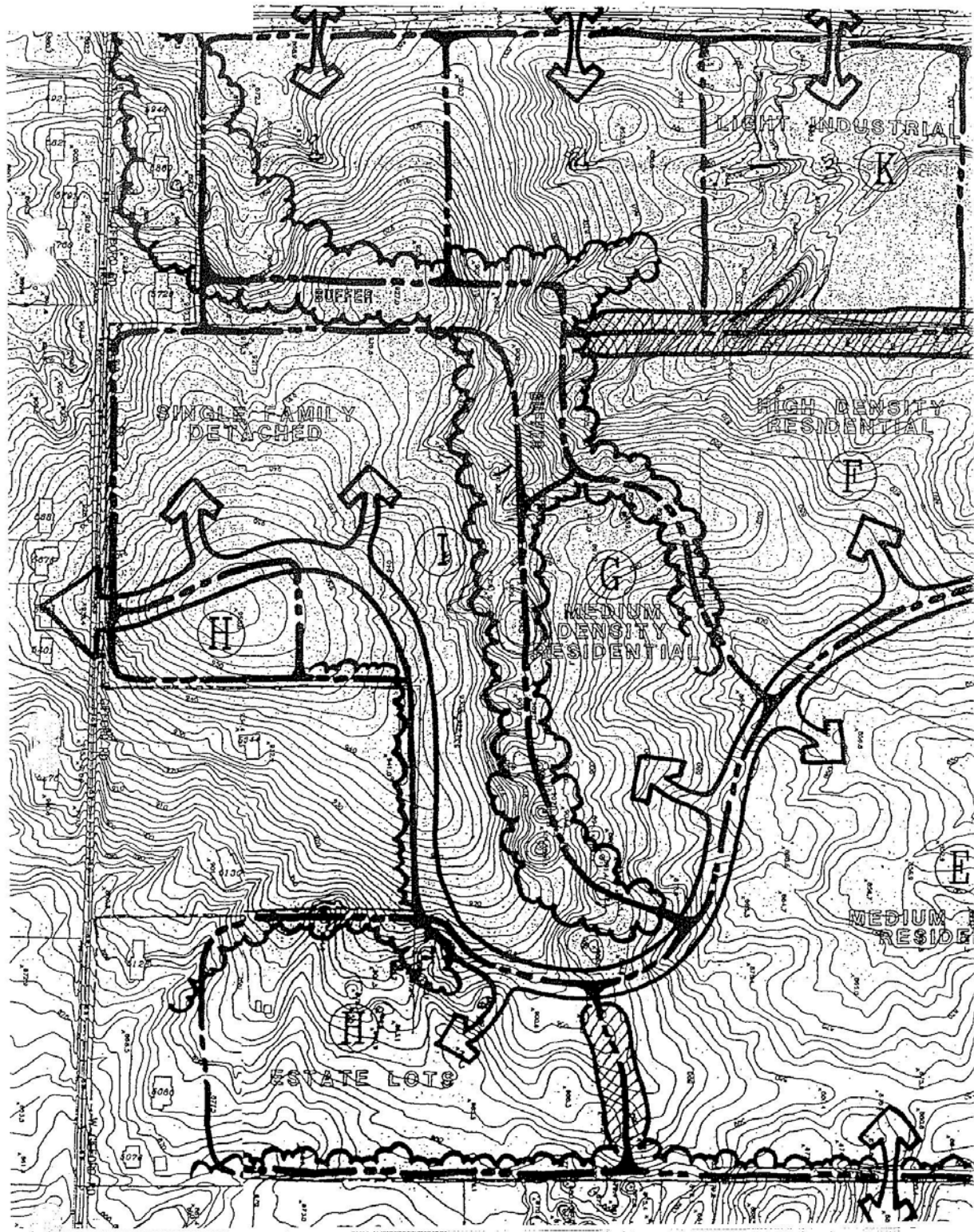
Category	Area (Acres)	Population	Units
Total	1,200	12,000	1,200
High Density Residential	300	3,000	300
Medium Density Residential	400	4,000	400
Single Family Detached	500	5,000	500
Neighborhood Business Park	20	200	0
Wilson Park	10	100	0
Suffer	10	100	0
Evate Lots	10	100	0

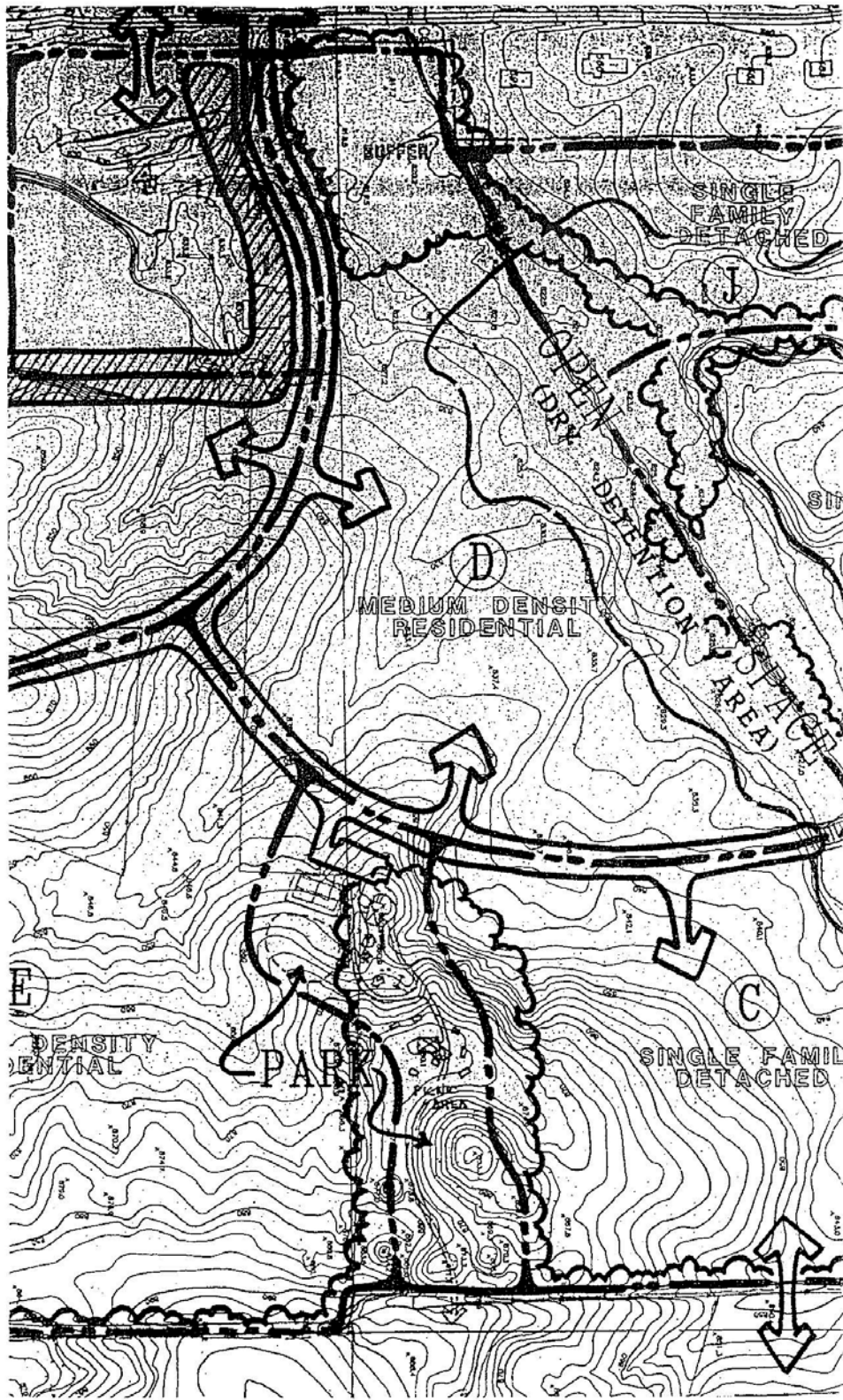


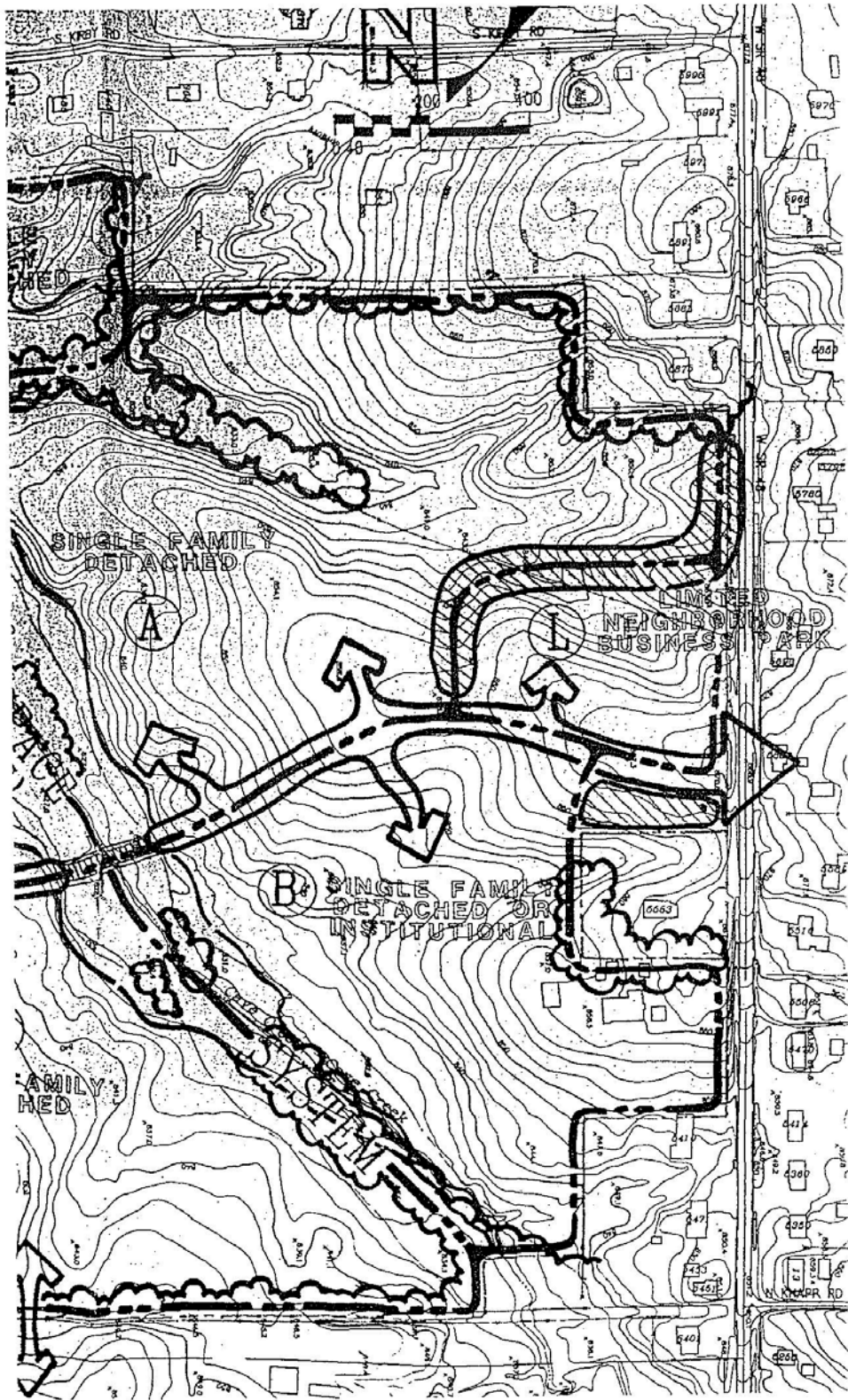
Wiley Farm Planned Development				
TRACT	LAND USE	APPROXIMATE SIZE (acres)	MAXIMUM # UNITS	MAXIMUM DENSITY
A	Single Family Detached	29.0	86	2.97
B	Single Family Detached or Institutional	17.5	62	3.54
C	Single Family Detached	24.5	86	3.51
D	Medium Density Residential	22.1	100	4.52
E	Medium Density Residential	37.6	190	5.05
F	High Density Residential	25.1 18.4*	254 184*	10.00
G	Medium Density Residential	9.2	56	6.09
H	Estate Lots	12.8	5	0.39
I	Single Family Detached	21.1	42	1.99
J	Single Family Detached	7.2	15	2.08
	SUBTOTAL	206.4 199.4	886 736	4.34
K	Light Industrial	27.8 34.2 *		
L	Limited Neighborhood Business	3.8		
	Park	6.4		
	Buffer (not included in other tracts)	5.6		
	TOTAL	250.0		

Table 1
Land Use and Density Summary

* INDUSTRIAL AREA WAS
INCREASED AS SUGGESTED
IN PRE-HEARING







Smith Neubecker & Associates, Inc.



October 26, 1994

Stephen L. Smith P.E., L.S.
President

Daniel Neubecker L.A.
Project Manager

City of Bloomington Planning Commission
c/o Tim Mueller, Director
P. O. Box 100
Bloomington, IN 47402-0100

RE: Wiley Farm Plan Development

Dear Tim and Plan Commissioners:

Ongoing communications and planning for the Wiley Farm Plan Development since the first public hearing of the Plan Commission have resulted in clarifications and/or updates to two items in the plan. These items are the amount of land allocated to **industrial** and the commitment on **storm water controls**.

The **industrial** area has been expanded eastward to the edge of the old "earth borrow area" and to a grade break that forms somewhat of a natural buffer between the industrial and the residential uses. This change, shown on the amended outline plan drawing, increases the industrial area to 34.2 acres.

Storm water. Further analysis of the storm water detention requirements indicates that a dry basin is appropriate because of the volume of storage necessary. The area will become green space with a storm water easement overlaid. Title to the land will either be with the Home Owners Association or with the County under the control of the County Drainage Board. Further investigation has indicated that the volume of runoff as well as the rate of runoff leaving this site and flowing towards Cave Creek needs to be addressed. Flooding in Cave Creek persists for several days after a large rainfall. This basin will be sized to reduce the volume of runoff during those days following the rainfall event. The water stored will be released after the downstream water has subsided. The basin will be sized to hold a 100-year post-development runoff to the 50-year pre-development rate and volume, the 50-year volume and rate to the 25-year volume and rate, and the 25-year rate to the 10-year volume and rate. Smaller storms will be allowed to flow in their normal fashion. In each of these cases the volume of water would be discharged from the basin at such time as the downstream facilities are able to handle the volume. The details of this design are being developed by Smith Neubecker & Associates, Inc. engineers in coordination with the City Engineering Department and the County Drainage Board. Full details will be developed for development plan stage. An analysis will also be performed at the development plan stage relative to potential karst impacts on the proposed basin.

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Post Office Box 5355
Bloomington, Indiana 47407-5355
Telephone 812 336-6536
FAX 812 336-0513

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Smith Neubecker & Associates, Inc.



City of Bloomington Planning Commission
c/o Tim Mueller
October 26, 1994
Page two

The updated outline plan reflects these changes.

Very truly yours,

A handwritten signature in black ink that reads 'Steve' in a cursive, stylized script.

Stephen L. Smith
SMITH NEUBECKER & ASSOCIATES, INC.

SLS:vp

Enclosures

cc: Lynn Coyne
Brett Davis
File #2296

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EXHIBIT 6: Karst Report

hydrogeology inc.

1211 S Walnut St
Bloomington, IN 47401

Authentic Homes Inc.
Attn: David Jenner
6100 W Cowden Rd
Ellettsville, In 47429

Subject:
**Authentic Homes – Karst Survey
Bloomington, IN**

Date: November 16, 2021

Contact:
Jason Krothe

Phone:
812-219-0210

Email: jnkrothe@hydrogeologyinc.com

Dear Mr. Jenner:

Hydrogeology Inc. (Hydrogeology) respectfully submits this karst report for multiple parcels located on S Kirby Road in Bloomington, IN. The combined parcels are approximately 36-acres (Figure 1).

1 – Overview

The Site is located near the intersection of S Kirby Road and S Fieldstone Blvd in Bloomington, Indiana and is approximately 36-acres (Figure 2). The property currently consists of mostly areas of trees with dense ground vegetation.

2 - Geology / Physiography

The Site is in the Mitchell Plateau physiographic region, which is one of the primary karst forming areas in Indiana. The bedrock at the Site includes the West Baden Group, Paoli Limestone, and Ste. Genevieve Limestone (Hasenmueller, Estell, Keith, and Thompson, 2008) (Figure 3). The West Baden Group consists primarily of shale, mudstone, and sandstone; with important but smaller amounts of limestone (Gray, 1962, table 2 and fig. 4; Gray, 1970, 1986). The Paoli Limestone is primarily limestone with smaller layers of shale and sandstone (Carr, 1986). The Ste. Genevieve Limestone is also primarily limestone with some layers of shale and sandstone (Carr, Rexroad, and Gray, 1986). All three bedrock units at the Site are known to form karst features. No water wells registered with the Indiana Department of Natural Resources (IDNR) were located at the Site.

3 – Sinkholes & Springs

Sinkholes are surface depressions that form in a variety of ways in karst areas (Figure 4). Sinkholes can have a swallow hole, which is an opening in the ground where water infiltrates. Groundwater flow in karst areas is predominantly fracture flow, meaning the bedrock itself has low permeability while the fractures in the bedrock are open conduits that allow water, soil, and other materials to travel quickly through the subsurface. Water that drains into a sinkhole can eventually discharge at a karst spring (Figure 5).

4 – Karst Desktop Review

A review of available karst resources was conducted prior to the field survey. Those resources include United State Geological Survey (USGS) topographic maps, Indiana Map 1-ft LIDAR topographic, karst spring maps, and private cave databases.

5 – Karst Field Survey

Hydrogeology conducted a karst field survey at the Site on November 12 and 16, 2021. The Site was walked at 10-foot transects to locate any karst features. Fifteen sinkholes were identified during the field survey and are described below (Figure 6, Appendix A). Sinkhole dimensions described below are based on 1-ft LIDAR topographic contours. All sinkholes were flagged and should be surveyed.

SH-01 – Sinkhole SH-1 is approximately 30 feet in diameter and 3 feet deep (Photo 1). No bedrock or opening was observed within the sinkhole.

Mitigation Measures: SH-01 should receive a 25-foot Sinkhole Conservancy Area (SCA) based on the Monroe County zoning guidelines. Additionally, erosion and sediment control measures should be installed around the rim of SH-01 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-02 – Sinkhole SH-02 is 15 feet long, 7 feet wide, and 3 feet deep (Photo 6). The sinkhole is soil filled with no apparent opening or bedrock.

Mitigation Measures: SH-02 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-02 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-03 – Sinkhole SH-03 is 50 feet long, 35 feet wide, and 5 feet deep. No bedrock or opening were observed within the sinkhole (Photo 8).

Mitigation Measures: SH-03 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-03 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-04 – Sinkhole SH-04 is 35 feet in diameter and 6 feet deep (Photos 9 and 10). Some amounts of bedrock are present within the sinkhole, but no surface opening was observed.

Mitigation Measures: SH-04 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-04 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-05 – Sinkhole SH-05 is 35 feet in diameter and 6 feet deep (Photo 11). Some amounts of bedrock are present within the sinkhole, but no surface opening was observed.

Mitigation Measures: SH-05 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-05 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-06 – Sinkhole SH-06 is 60 feet long, 40 feet wide, and 7 feet deep (Photos 16 & 17). The sinkhole has two distinct depressions, both with steep sides, soil openings, and bedrock.

Mitigation Measures: SH-06 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-06 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-07 – Sinkhole SH-07 is 55 feet long, 25 feet wide, and 3 feet deep (Photo 1). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-07 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-07 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-08 – Sinkhole SH-08 is 160 feet long, 100 feet wide, and unknown depth (Photo 20). The sinkhole is currently holding water and the northern side of the sinkhole appears to have been altered to help hold water. Due to the ponded water in this area, it was not possible to determine the physical characteristics of SH-08.

Mitigation Measures: SH-08 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-08 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-09 – Sinkhole SH-09 is 60 feet long, 35 feet wide, and 4 feet deep (Photos 21 and 22). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-09 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-09 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-10 – Sinkhole SH-10 is 100 feet long, 40 feet wide, and 6 feet deep (Photos 23 and 24). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-10 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-10 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-11 – Sinkhole SH-11 is 65 feet long, 45 feet wide, and 5 feet deep (Photos 25 and 26). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-11 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-11 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-12 – Sinkhole SH-12 is 65 feet long, 55 feet wide, and 8 feet deep (Photos 27 and 28). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-12 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-12 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-13 – Sinkhole SH-13 is 60 feet long, 35 feet wide, and 4 feet deep (Photo 33). The sinkhole is soil filled with no obvious opening or bedrock. Only the western edge of this sinkhole appears to be within the Site.

Mitigation Measures: SH-13 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-13 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-14 – Sinkhole SH-14 is 4 feet in diameter and 2 feet deep (Photo 37). The sinkhole is soil filled with no obvious opening or bedrock. The sinkhole is located along a south to north orientated drainage axis.

Mitigation Measures: SH-14 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-14 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-15 – Sinkhole SH-14 is 5 feet long, 2 feet wide, and 2 feet deep (Photo 38) and situated on the western Site boundary. The sinkhole is located at the base of a limestone outcrop. SH-15 is possibly outside of the property boundary for the Site and its location relative to the property boundary should be confirmed with a survey.

Mitigation Measures: SH-14 should receive a 25-foot SCA. Additionally, erosion and sediment control measures should be installed around the rim of SH-14 prior to land clearing operations and until revegetation has occurred at the Site after construction.

6 – Study Limitations

The identification of karst features at the Site was limited to surface inspection. No subsurface investigations were conducted for this study. Undocumented karst features are possible in the subsurface. Dense vegetation covers most of the Site. Identification of karst surface features can be difficult in areas with dense ground vegetation. Clearing of ground vegetation was not within the scope of work for this survey.

7 – Karst Best Management Practices

The following are karst management practices that should be considered for the Site:

Water Quality

Groundwater recharge in karst areas predominately occurs through sinkholes. Water infiltrates into a sinkhole, then flows along karst conduits and typically discharges to a karst spring. There is minimal filtration of the water throughout this shallow groundwater cycle. Therefore, it is critical to maintain or improve water quality at the Site.

Impacts to water quality at the Site are most likely to occur due to erosion and sediment mobilization during construction. Erosion and sediment control will be critical to preventing water quality impacts. All sinkholes should be protected with appropriate erosion and sediment controls for the duration of construction at the Site.

In addition to these measures a low salt no herbicide/pesticide spray policy should be implemented for the Site.

Drainage Alteration

Alteration of natural drainage patterns can result in the development of new sinkholes, particularly when run-off is concentrated. The drainage plan for the Site should maintain the existing drainage patterns wherever possible and prevent concentrated

hydrogeology inc.

1211 S Walnut St
Bloomington, IN 47401

run-off. To prevent development of new sinkholes, detention basins should be lined with an impervious material.

Unknown Karst Features

Previously unknown karst features are possibly present in the subsurface at the Site. If any previously unknown karst feature is identified during development of the Site, the features should be protected with erosion and sediment control measures and inspected by a karst specialist.


8 – Summary

A desktop review and field survey were conducted at the Site to identify any karst features. Fifteen sinkholes were identified at the Site. All sinkholes should have a 25-ft SCA and be protected with erosion and sediment control measures throughout the entire construction process. The karst field survey was limited to surface inspection with no subsurface investigation. Unknown karst features are possibly present in the subsurface at the Site. Dense vegetation was present over most of the Site, which prevented close ground inspection in those areas. If a previously unknown karst feature is discovered during construction activities the feature should be protected with erosion and sediment control measures and inspected by a karst specialist.

Hydrogeology appreciates the opportunity to provide this summary report. If you have any questions, concerns, or comments please do not hesitate to contact me directly at (812) 219-0210.

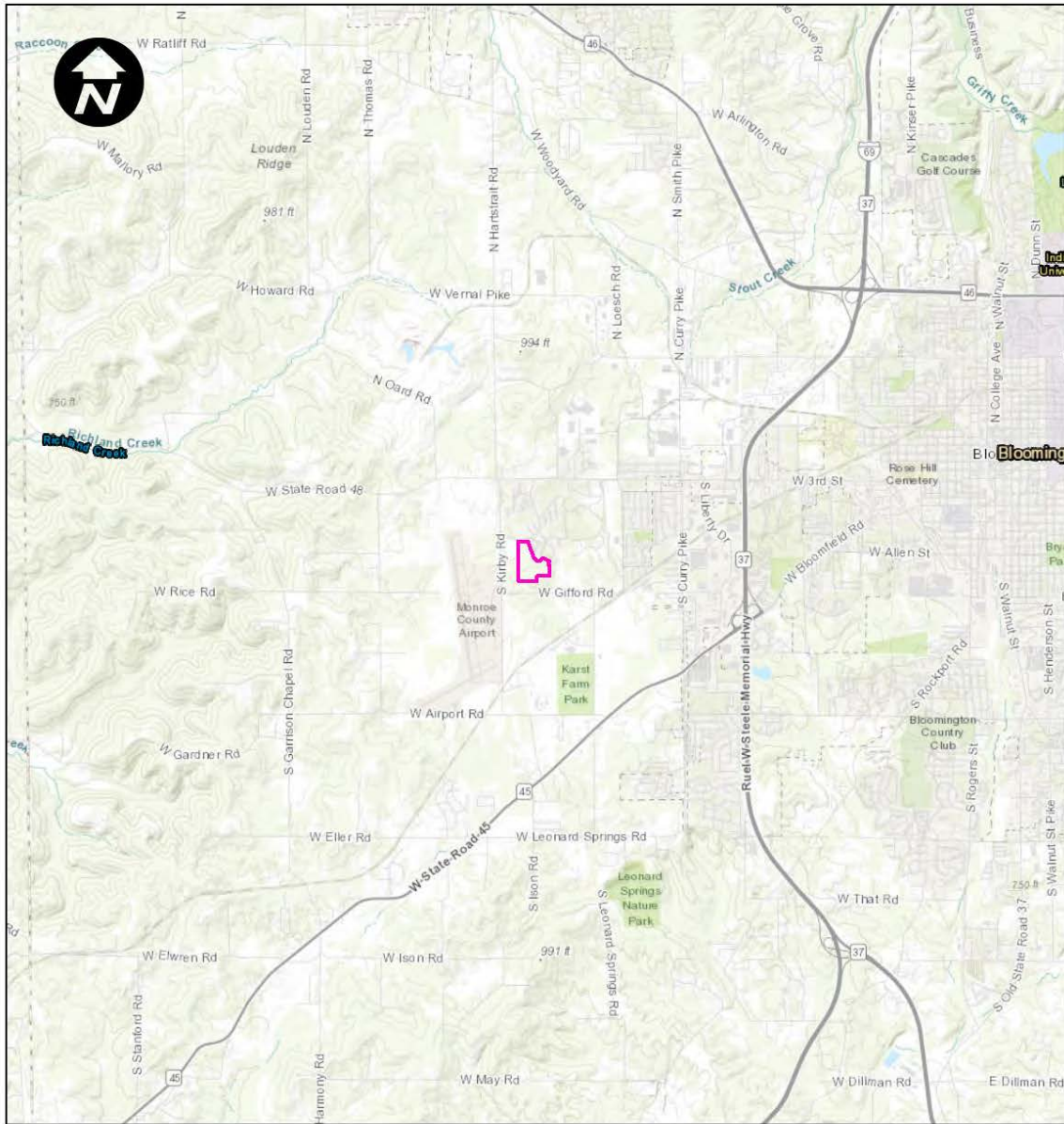
Sincerely,

Hydrogeology Inc.



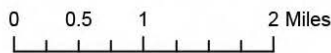
Jason N. Krothe, LPG IN-2511
President





LEGEND

 SITE



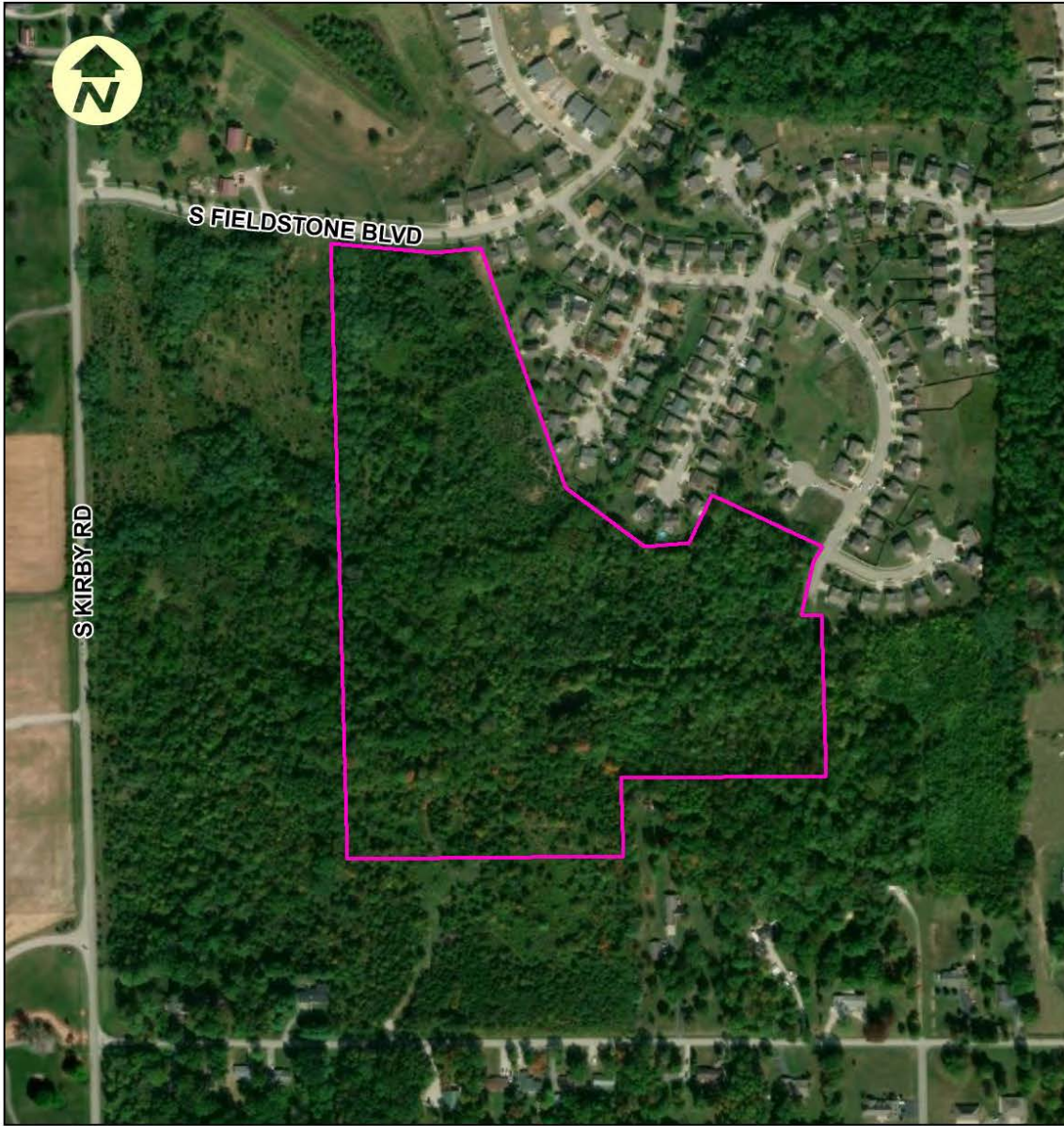
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**KARST SURVEY
AUTHENTIC HOMES
BLOOMINGTON, IN**

SITE LOCATION


hydrogeology inc.

**FIGURE
1**



LEGEND

 SITE

0 125 250 500 Feet


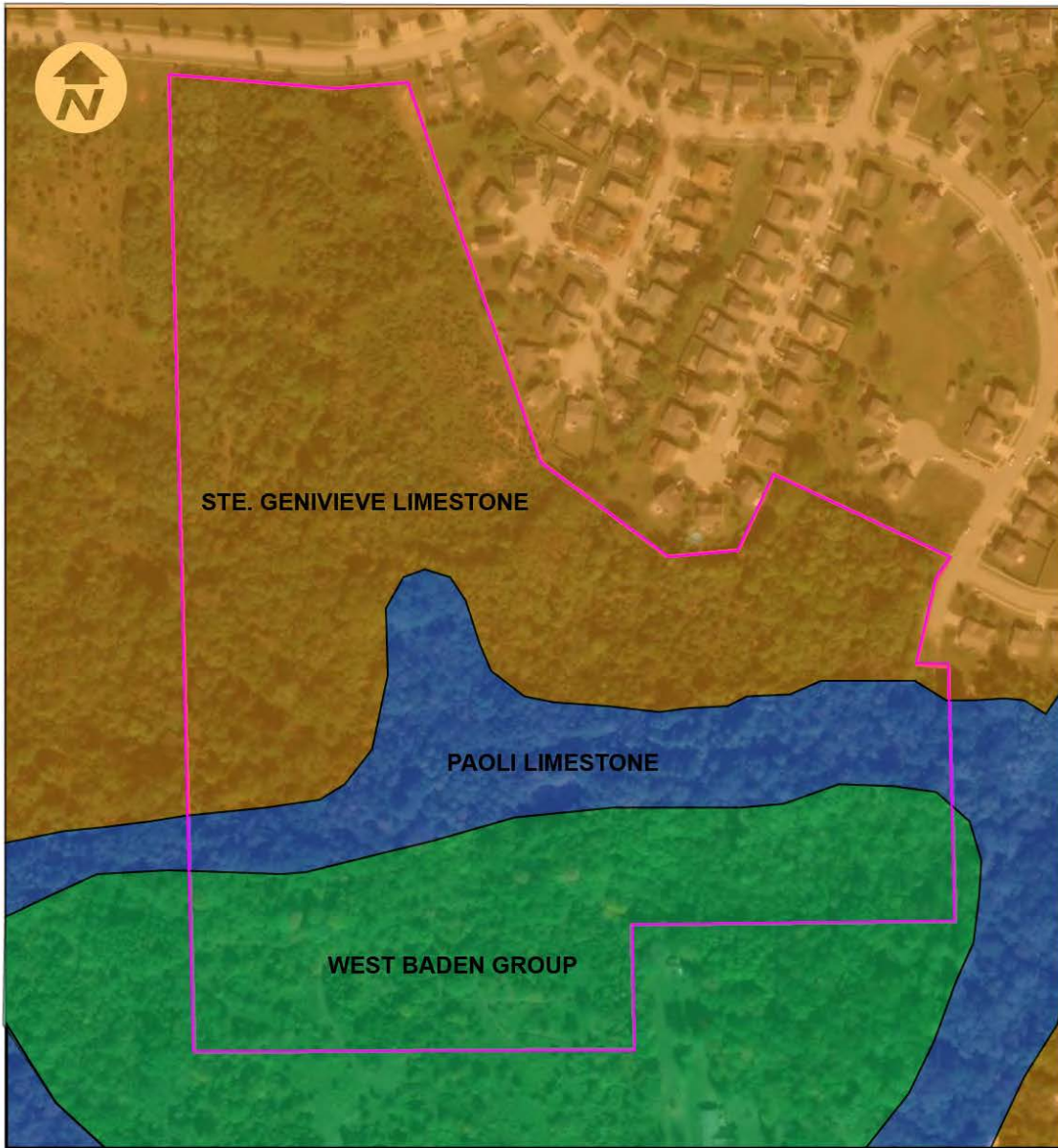
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

**KARST SURVEY
 AUTHENTIC HOMES
 BLOOMINGTON, IN**

SITE BOUNDARY

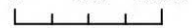


FIGURE
2



LEGEND

 SITE

0 125 250 ft


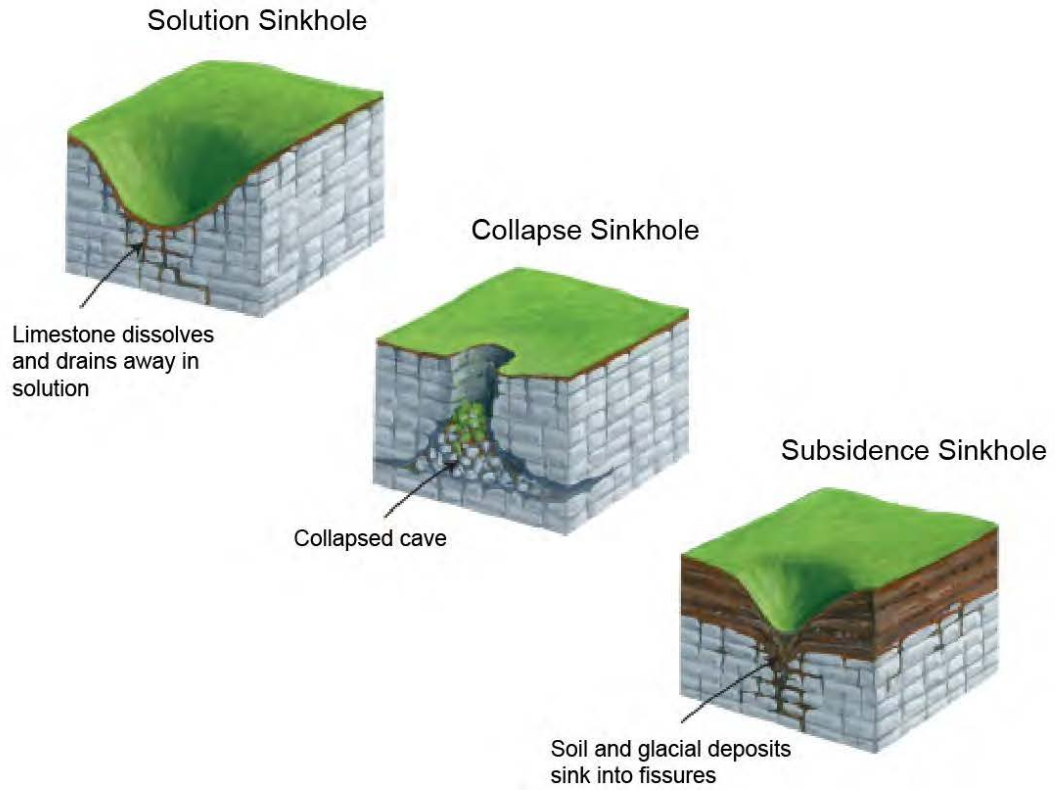
**KARST SURVEY
 AUTHENTIC HOMES
 BLOOMINGTON, IN**

BEDROCK

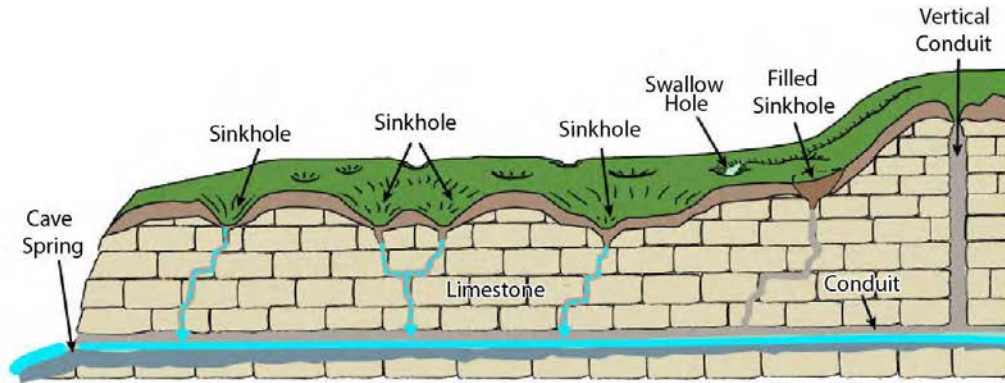
Source: Hasenmueller, W. A., Estell, C. M., Keith, B., and Thompson, T. A., 2009, Bedrock geologic map of Monroe County, Indiana: Indiana Geological Survey Miscellaneous Map 73, scale 1:48,000.

hydrogeology inc.

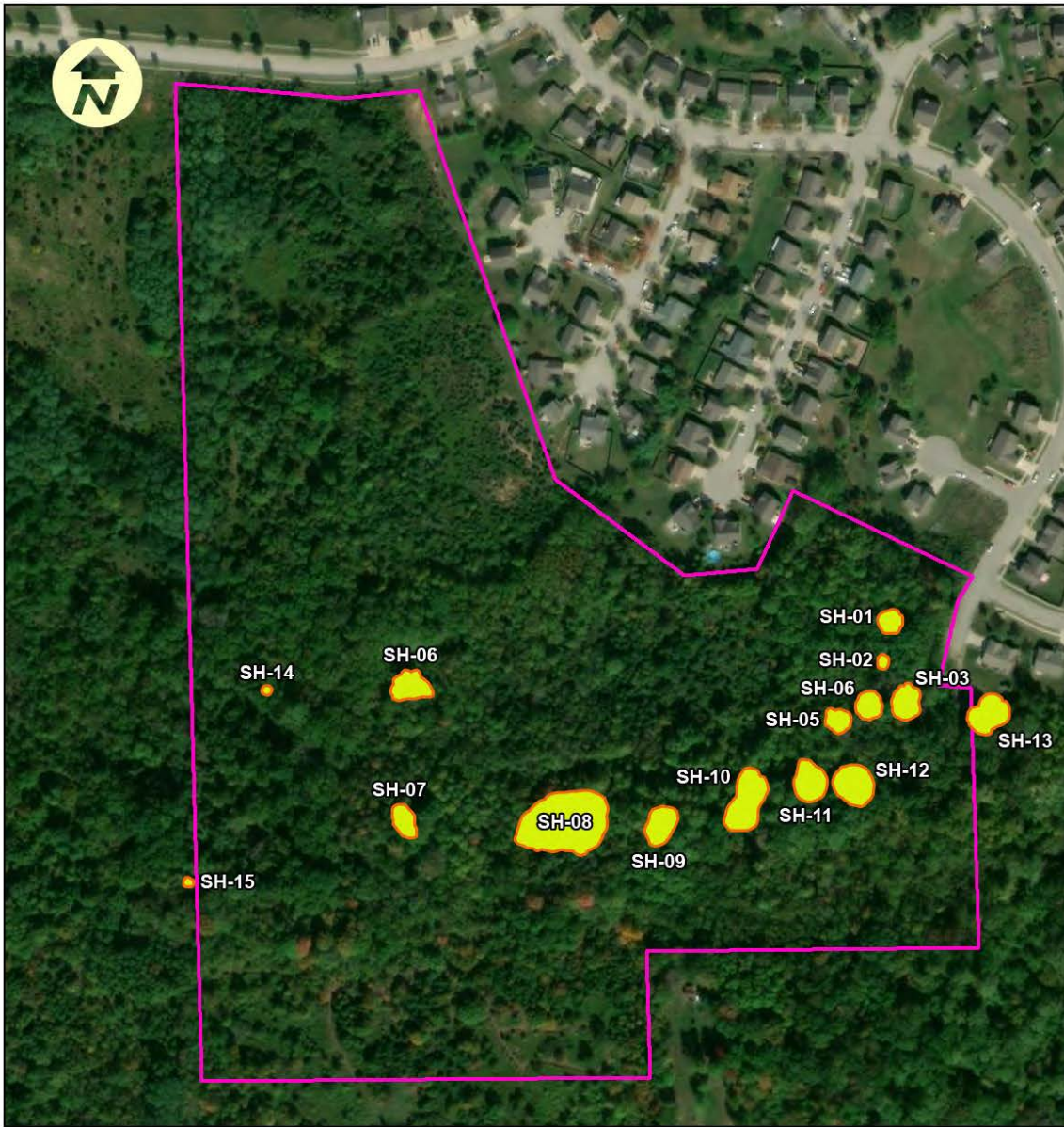
FIGURE
3



	KARST SURVEY AUTHENTIC HOMES BLOOMINGTON, IN
	SINKHOLE TYPES
	<div style="background-color: black; color: white; padding: 5px;">hydrogeology inc.</div> <div style="text-align: right;"> <small>FIGURE</small> 4 </div>

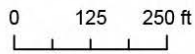


	KARST SURVEY AUTHENTIC HOMES BLOOMINGTON, IN
	CONCEPTUAL KARST CROSS SECTION
	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 2px 5px;">hydrogeology inc.</div> <div style="text-align: right;"> FIGURE 5 </div> </div>



LEGEND

- SITE
- SINKHOLE



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community


**KARST SURVEY
AUTHENTIC HOMES
BLOOMINGTON, IN**

SINKHOLES

hydrogeology inc.

FIGURE
6

Photograph Number: 1	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Sinkhole SH-01.	
Recommended treatment: 25-foot SCA	

Photograph Number: 2	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Northeast side of the property looking southwest.	
Recommended treatment: NA	

Photograph Number: 3
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Northeast side of the property looking south.
Recommended treatment: NA



Photograph Number: 4
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Northeast side of the property looking southeast.
Recommended treatment: NA





Photograph Number: 5
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Northeast side of the property looking southeast.
Recommended treatment: NA



Photograph Number: 6
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-02.
Recommended treatment: 25-foot SCA



Photograph Number: 7	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: West side of the property looking north.	
Recommended treatment: NA	

Photograph Number: 8	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Sinkhole SH-03.	
Recommended treatment: 25-foot SCA	

Photograph Number: 9
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-04.
Recommended treatment: 25-foot SCA



Photograph Number: 10
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-04.
Recommended treatment: 25-foot SCA





Photograph Number: 11
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-05.
Recommended treatment: 25-foot SCA





Photograph Number: 12
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Northeast side of the property looking southwest.
Recommended treatment: NA



Photograph Number: 13	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Center of the property looking southeast.	
Recommended treatment: NA	

Photograph Number: 14	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Center of the property looking southwest.	
Recommended treatment: NA	

Photograph Number: 15	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Center of the property looking southwest.	
Recommended treatment: NA	

Photograph Number: 16	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: Sinkhole SH-06.	
Recommended treatment: 25-foot SCA	

Photograph Number: 17
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-06.
Recommended treatment: 25-foot SCA



Photograph Number: 18
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-07.
Recommended treatment: 25-foot SCA



Photograph Number: 19
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: South side of the property looking south.
Recommended treatment: NA



Photograph Number: 20
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-08.
Recommended treatment: 25-foot SCA



Photograph Number: 21
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-09.
Recommended treatment: 25-foot SCA



Photograph Number: 22
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-09.
Recommended treatment: 25-foot SCA



Photograph Number: 23
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-10.
Recommended treatment: 25-foot SCA



Photograph Number: 24
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-10.
Recommended treatment: 25-foot SCA



Photograph Number: 25
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-11.
Recommended treatment: 25-foot SCA



Photograph Number: 26
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-11.
Recommended treatment: 25-foot SCA



Photograph Number: 27
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-12.
Recommended treatment: 25-foot SCA



Photograph Number: 28
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-12.
Recommended treatment: 25-foot SCA



Photograph Number: 29
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Southeast side of the property looking northwest.
Recommended treatment: NA



Photograph Number: 30
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: South side of the property looking north.
Recommended treatment: NA



Photograph Number: 31
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: South side of the property looking northeast.
Recommended treatment: NA



Photograph Number: 32
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: East side of the property looking west.
Recommended treatment: NA



Photograph Number: 33
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-13.
Recommended treatment: 25-foot SCA



Photograph Number: 34
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Northwest side of the property looking southeast.
Recommended treatment: NA



Photograph Number: 35
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: West side of the property looking east.
Recommended treatment: NA



Photograph Number: 36
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: West side of the property looking east.
Recommended treatment: NA



Photograph Number: 37
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-14.
Recommended treatment: 25-foot SCA



Photograph Number: 38
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Sinkhole SH-15.
Recommended treatment: 25-foot SCA



Photograph Number: 39
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Southwest side of the property looking northeast.
Recommended treatment: NA



Photograph Number: 40
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: South side of the property looking south.
Recommended treatment: NA



Photograph Number: 41
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Southwest side of the property looking northeast.
Recommended treatment: NA



Photograph Number: 42
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: South side of the property looking northwest.
Recommended treatment: NA



Photograph Number: 43
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: Center of the property looking south.
Recommended treatment: NA



Photograph Number: 44
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: North side of the property looking south.
Recommended treatment: NA





Photograph Number: 45
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: North side of the property looking southwest.
Recommended treatment: NA



Photograph Number: 46
Coordinates (UTM Meters) NA
Photograph Date: 11-12-21
Comments: North side of the property looking south.
Recommended treatment: NA



Photograph Number: 47	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: North side of the property looking south.	
Recommended treatment: NA	

Photograph Number: 48	
Coordinates (UTM Meters) NA	
Photograph Date: 11-12-21	
Comments: North side of the property looking south.	
Recommended treatment: NA	