

JAMIE WHITEHOUSE, AICP  
DIRECTOR OF PLANNING & ZONING  
(302) 855-7878 T  
(302) 854-5079 F  
jamie.whitehouse@sussexcountyde.gov



**Sussex County**

DELAWARE  
sussexcountyde.gov

## PLEASE NOTE

This paperless packet is published on the County's website for convenience purposes, and only includes information received up to the close of business on the day before a public hearing. Documents received after this, or documents submitted during the public hearing are not uploaded to the Paperless Packet. The legal record is the paper record maintained in the Offices of the Planning & Zoning Department.



COUNTY ADMINISTRATIVE OFFICES  
2 THE CIRCLE | PO BOX 417  
GEORGETOWN, DELAWARE

**PLANNING & ZONING COMMISSION**

ROBERT C. WHEATLEY, CHAIRMAN  
KIM HOEY STEVENSON, VICE-CHAIRMAN  
R. KELLER HOPKINS  
J. BRUCE MEARS  
HOLLY J. WINGATE



**Sussex County**

DELAWARE  
sussexcountyde.gov  
302-855-7878 T  
JAMIE WHITEHOUSE, AICP, MRTPI  
DIRECTOR

**PLANNING AND ZONING AND COUNTY COUNCIL INFORMATION SHEET**  
Planning Commission Public Hearing Date: June 23<sup>rd</sup>, 2022

Application: 2021-20 Lands of John J. Hamstead

Applicant: John J. Hamstead  
10909 Beach Highway  
Greenwood, DE 19950

Owner: John J. Hamstead  
10909 Beach Highway  
Greenwood, DE 19950

Site Location: The site is located on the west side of Chaser Lane, north of Rust Road (S.C.R. 635) approximately 1100-feet.

Current Zoning: General Residential (GR)

Proposed Zoning: General Residential (GR)

Comprehensive Land Use Plan Reference: Developing Area

Councilmanic District: District 2 - Green

School District: Milford School District

Fire District: Ellendale Fire Company

Sewer: On-site septic systems

Water: On-site well

TID: Not Applicable

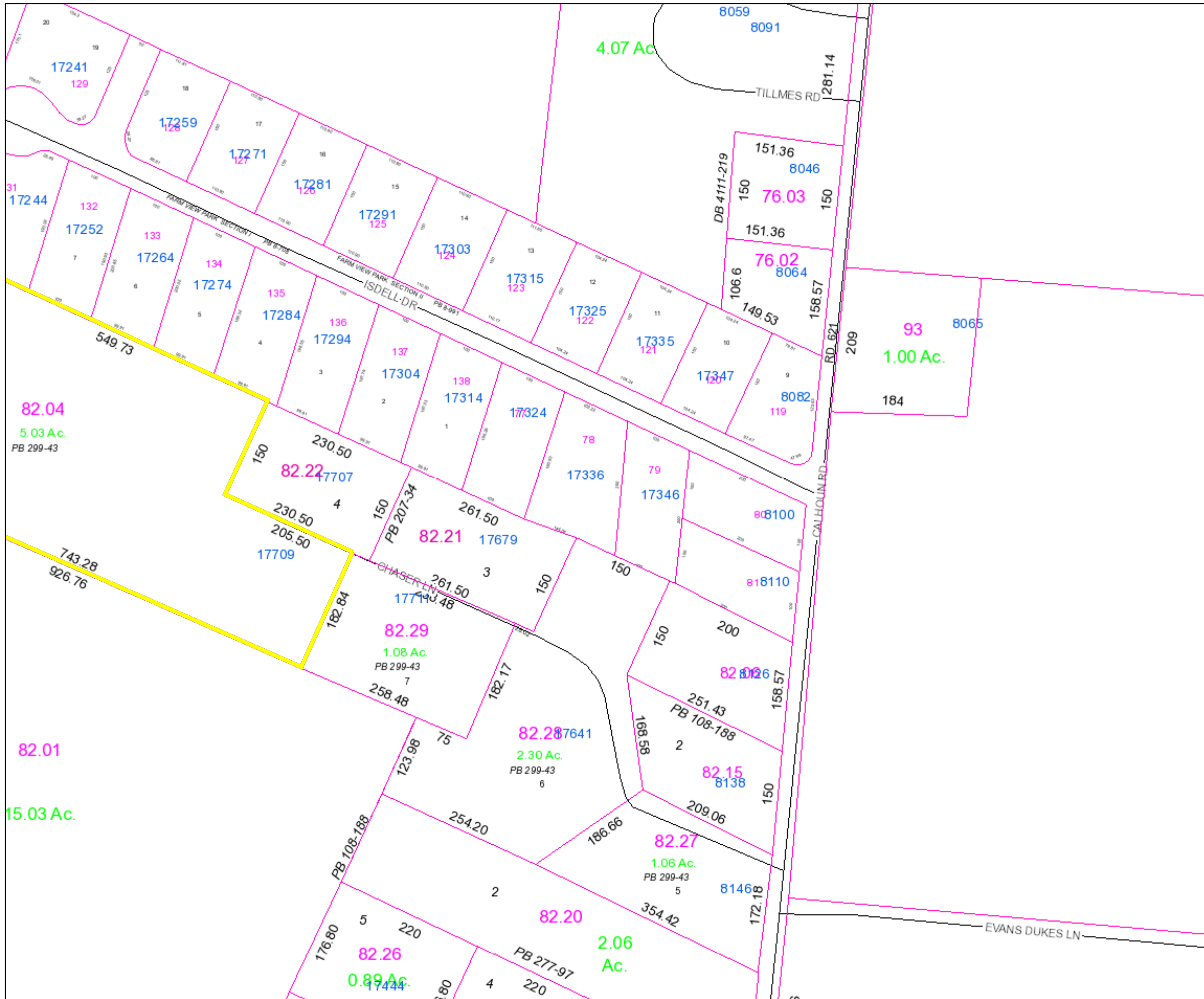
Site Area: 5.034 acres +/-

Tax Map ID: 130-6.00-82.04





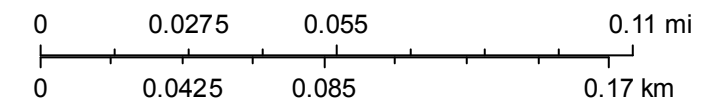
# Sussex County



<b>PIN:</b>	130-6.00-82.04
<b>Owner Name</b>	JJAK ENTERPRISES LLC
<b>Book</b>	5410
<b>Mailing Address</b>	10909 BEACH HWY
<b>City</b>	GREENWOOD
<b>State</b>	DE
<b>Description</b>	NW / CALHOUN RD
<b>Description 2</b>	NW / CHASER LN
<b>Description 3</b>	RESIDUAL LANDS
<b>Land Code</b>	

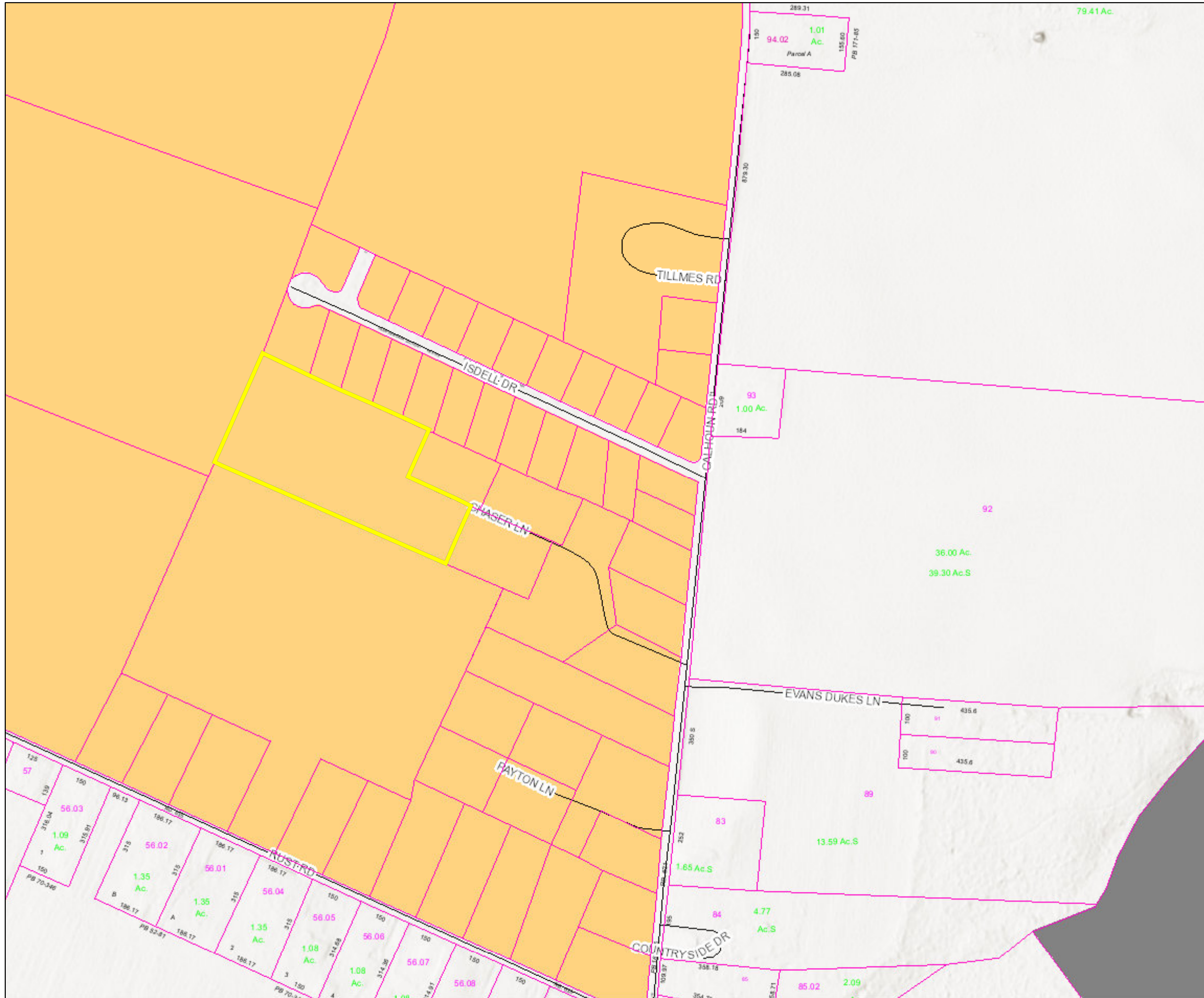
- polygonLayer
  - Override 1
- polygonLayer
  - Override 1
  - Tax Parcels
  - 911 Address
  - Streets
  - County Boundaries
- Flood Zones 2018**
  - 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
  - A
  - AE
  - AO
  - OPEN WATER
  - VE

1:2,257





# Sussex County



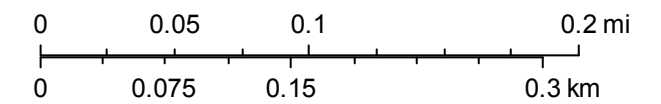
<b>PIN:</b>	130-6.00-82.04
<b>Owner Name</b>	JJAK ENTERPRISES LLC
<b>Book</b>	5410
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<b>Description</b>	NW / CALHOUN RD
<b>Description 2</b>	NW / CHASER LN
<b>Description 3</b>	RESIDUAL LANDS
<b>Land Code</b>	

- polygonLayer**

  - Override 1
- polygonLayer**

  - Override 1
- Tax Parcels
- Streets

1:4,514





# Sussex County



<b>PIN:</b>	130-6.00-82.04
<b>Owner Name</b>	JJAK ENTERPRISES LLC
<b>Book</b>	5410
<b>Mailing Address</b>	10909 BEACH HWY
<b>City</b>	GREENWOOD
<b>State</b>	DE
<b>Description</b>	NW / CALHOUN RD
<b>Description 2</b>	NW / CHASER LN
<b>Description 3</b>	RESIDUAL LANDS
<b>Land Code</b>	

### polygonLayer

Override 1

### polygonLayer

Override 1

⋮ Tax Parcels

911 Address

— Streets

⋮ County Boundaries

### Flood Zones 2018

⋮ 0.2 PCT ANNUAL CHANCE FLOOD HAZARD

⋮ A

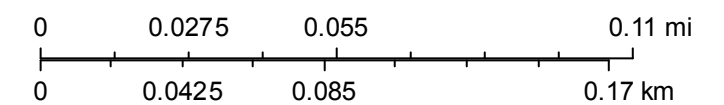
⋮ AE

⋮ AO

⋮ OPEN WATER

⋮ VE

1:2,257



# Sussex County Major Subdivision Application

## Sussex County, Delaware

Sussex County Planning & Zoning Department  
2 The Circle (P.O. Box 417) Georgetown, DE 19947  
302-855-7878 ph. 302-854-5079 fax

**Type of Application: (please check applicable)**

Standard:

Cluster:

ESDDOZ:

**Location of Subdivision:**

CHASER LANE, MILFORD, DE. 19963

**Proposed Name of Subdivision:**

JOHN J. HAMSTEAD

Tax Map #: 130-6.00-82.04

Total Acreage: 5.034 ACRES +/-

Zoning: GR

Density: 0.8

Minimum Lot Size: 0.866

Number of Lots: 4

Open Space Acres: NONE

Water Provider: PRIVATE

Sewer Provider: PRIVATE

**Applicant Information**

Applicant Name: JOHN J. HAMSTED

Applicant Address: 10909 BEACH HIGHWAY

City: GREENWOOD

State: DE

Zip Code: 19950

Phone #: 302-349-0805

E-mail: huntercreekhomes@aol.com

**Owner Information**

Owner Name: same SAME AS ABOVE

Owner Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone #: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Agent/Attorney/Engineer Information**

Agent/Attorney/Engineer Name: MILLER-LEWIS, INC.

STEVE M. SELLERS, PLS

Agent/Attorney/Engineer Address: 1560 MIDDLEFORD ROAD

City: SEAFORD

State: DE

Zip Code: 19973

Phone #: 302-629-9895

E-mail: stevesellers@millerlewisinc.com



# Check List for Sussex County Major Subdivision Applications

The following shall be submitted with the application

**Completed Application**

**Provide fifteen (15) copies of the Site Plan or Survey of the property and a PDF (via e-mail)**

- Plan shall show the existing conditions, setbacks, roads, floodplain, wetlands, topography, proposed lots, landscape plan, etc. **Per Subdivision Code 99-22, 99-23 & 99-24**
- Provide compliance with Section 99-9.
- Deed or Legal description, copy of proposed deed restrictions, soil feasibility study

**Provide Fee \$500.00**

**Optional - Additional information for the Commission to consider** (ex. photos, exhibit books, etc.) If provided submit seven (7) copies and they shall be submitted a minimum of ten (10) days prior to the Planning Commission meeting.

**Please be aware that Public Notice will be sent to property owners within 200 feet of the subject site and County staff will come out to the subject site, take photos and place a sign on the site stating the date and time of the Public Hearings for the application.**

**PLUS Response Letter** (If required)

**51% of property owners consent if applicable**

The undersigned hereby certifies that the forms, exhibits, and statements contained in any papers or plans submitted as a part of this application are true and correct.

I also certify that I or an agent on my behalf shall attend all public hearing before the Planning and Zoning Commission and any other hearing necessary for this application and that I will answer any questions to the best of my ability to respond to the present and future needs, the health, safety, morals, convenience, order, prosperity, and general welfare of the inhabitants of Sussex County, Delaware.

**Signature of Applicant/Agent/Attorney**

\_\_\_\_\_

Date: \_\_\_\_\_

**Signature of Owner**

\_\_\_\_\_

Date: 6/15/21

**For office use only:**

Date Submitted: \_\_\_\_\_

Fee: \$500.00 Check #: \_\_\_\_\_

Staff accepting application: \_\_\_\_\_

Application & Case #: \_\_\_\_\_

Location of property: \_\_\_\_\_

Date of PC Hearing: \_\_\_\_\_

Recommendation of PC Commission: \_\_\_\_\_

Sussex County, DE  
Treasury  
P.O. Box 601  
Georgetown, DE 19947  
Welcome

33019845-0032 Lindsey S 06/15/2021 10:13AM

PERMITS / INSPECTIONS

SUBDIVISION - FEE  
2021 Item: 202109111|Z005 500.00

500.00

Subtotal

500.00

Total

500.00

CHECK

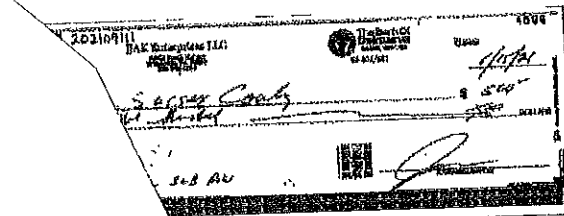
500.00

Check Number 004599

Change due

0.00

Paid by: JJAK ENTERPRISES LLC



you for your payment

County, DE COPY  
PLICATE RECEIPT



**SUSSEX COUNTY ENGINEERING DEPARTMENT  
UTILITY PLANNING & DESIGN REVIEW DIVISION  
C/U & C/Z COMMENTS**

TO: **Jamie Whitehouse**

REVIEWER: **Chris Calio**

DATE: **5/26/2022**

APPLICATION: **2021-20 Lands of John J. Hamstead**

APPLICANT: **John J. Hamstead**

FILE NO: **WSPA-5.02**

TAX MAP &  
PARCEL(S): **130-6.00-82.04 & 82.22**

LOCATION: **lying on the west side of Chaser Lane, approximately 1,100 feet north of Rust Road (SCR 635)**

NO. OF UNITS: **Create 5 single family lots**

GROSS  
ACREAGE: **5.034**

SYSTEM DESIGN ASSUMPTION, MAXIMUM NO. OF UNITS/ACRE: **4**

**SEWER:**

- (1). Is the project in a County operated and maintained sanitary sewer and/or water district?  
Yes  No
- a. If yes, see question (2).  
b. If no, see question (7).
- (2). Which County Tier Area is project in? **Tier 3**
- (3). Is wastewater capacity available for the project? **N/A** If not, what capacity is available? **N/A**.
- (4). Is a Construction Agreement required? **No** If yes, contact Utility Engineering at (302) 855-7717.
- (5). Are there any System Connection Charge (SCC) credits for the project? **N/A** If yes, how many? **N/A**. Is it likely that additional SCCs will be required? **N/A** If yes, the current System Connection Charge Rate is **Unified \$6,600.00** per EDU. Please contact **N/A** at **302-855-7719** for additional information on charges.

- (6). Is the project capable of being annexed into a Sussex County sanitary sewer district? **N/A**
- Attached is a copy of the Policy for Extending District Boundaries in a Sussex County Water and/or Sanitary Sewer District.
- (7). Is project adjacent to the Unified Sewer District? **No**
- (8). Comments: **The Sussex County Engineering Department does not currently have a schedule to provide sanitary sewer service to these parcels.**
- (9). Is a Sewer System Concept Evaluation required? **Not at this time**
- (10). Is a Use of Existing Infrastructure Agreement Required? **Not at this time**
- (11). **All residential roads must meet or exceed Sussex County minimum design standards.**

UTILITY PLANNING & DESIGN REVIEW APPROVAL:



---

John J. Ashman  
Sr. Manager of Utility Planning & Design Review

Xc: Hans M. Medlarz, P.E.  
Lisa Walls  
No Permit Tech Assigned

MILLER  
LEWIS, INC. LAND SURVEYING

1560 MIDDLEFORD RD.

• SEAFORD, DE. 19973

June 14, 2021

Sussex County Planning and Zoning Commission  
2 The Circle  
P. O. Box 417  
Georgetown, DE. 19947

RE: John J. Hamstead, T.M.# 130-6.00-82.04  
MAJOR SUBDIVISION

Dear Mr. Whitehouse,

The subject major subdivision will be submitted to Planning and Zoning Commission soon. On behalf of the applicant we respectfully request a waiver of the topographic, 30 buffer zone and county street construction requirement due to the minimal number and size of the lots.

Please feel free to call or email with any questions you may have.

Sincerely,



Stephen M. Sellers, PLS

enclosure

**Site Evaluation  
Reference #:  
565328**



25092 Oak Road  
Seaford, DE 19973

Phone & Text: (302) 629-2989  
Email: jayduke@comcast.net

**RECEIVED  
05/27/2021  
GROUNDWATER**

**SITE EVALUATION APPROVAL PAGE**

*The soils on this site are approved when the following is completed in full and signed by the approving authority. Isolation distance requirements, limited area of suitable soils, placement of fill, removal of soil, or compaction of the evaluated area may preclude construction permit approval or modify the type of system that may be permitted. An approved report must accompany any permit application. This is not a construction permit. All references to the Regulations refer to The Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems Amended 1/11/2014.*

<b>Owner(s) Name:</b>	JJAK Enterprises LLC	<b>Tax Map #:</b>	1-30-6-82.04
<b>Address:</b>	10909 Beach Highway Greenwood, DE 19950	<b>Lot #:</b>	9
<b>Initial System Type:</b>	Capping fill gravity-fed on-site wastewater treatment and disposal system (OWTDS). See Exhibits M or N in the Regulations. Other OWTDS options include any conventional/alternative technologies approved by DNREC.		
<b>Location of Drain Field:</b>	In the vicinity of soil borings (SB) #1 & #2 (hatched area on the plot plan).		
<b>Depth to Limiting Zone:</b>	58" to redox concentrations & depletions.		
<b>Replacement System Type:</b>	Same as above if space permits. Otherwise, the replacement system may be sand-lined in the vicinity of the initial system.		
<b>Location of Drain Field:</b>	In the immediate vicinity of soil borings referred to above.		
<b>Depth to Limiting Zone:</b>	Same as above.		

**Design Comments**

1. Maintain all isolation distances specified in Exhibit C of the Regulations.
2. Maintain a 100' isolation distance from all domestic wells and 150' from all public wells.
3. If the 100' isolation distance to the existing domestic well cannot be maintained, it can be reduced to a minimum isolation distance of 50', in accordance with Exhibit C of the Regulations.
4. **To avoid soil compaction, the area in the vicinity of the proposed drainfield should be identified and protected from any vehicular traffic or stockpiling of any material. In addition, any tree removal in this vicinity should be conducted according to DNREC guidelines.**

**Instructions to the Property Owner**

1. Contact a **Class B or C** System Designer.
2. A permeability rate of **40 minutes per inch (mpi)** has been estimated for the soils on this site. These estimated rates are used to determine the required size of the disposal area. They are based on soil texture and are derived from tables developed by the DNREC. You may elect to use the estimated rate to size the disposal system or have the appropriate tests conducted. Contact the Site Evaluator at (302) 629-2989 or DNREC [(302) 856-4561 in Sussex or (302) 739-9947 in Kent] for testing information.
3. Read the attached Site Evaluation Report for additional information.
- 4.

Report prepared by: Joseph C. Duke, Jr.  
Joseph C. Duke, Jr., CPSS

Date of report: May 26, 2021  
Class "D" License #: 4048

**For Official Use Only**

Field checked: \_\_\_\_\_  
DNREC Reviewing Soil Scientist **DNREC APPROVED**

Expiration Date: 6/2/26  
Approval Date: 6/2/21

*Disclaimer: Approval of a site evaluation indicates only that the site evaluation was conducted in compliance with the regulations. It is not an indication of the quality or correctness of the site evaluation.*

**IF THERE ARE QUESTIONS  
REGARDING THIS REPORT  
CONTACT CLASS D LICENSEE**

**THE CLASS D LICENSEE  
IS RESPONSIBLE FOR  
ERRORS/OMISSIONS**

**Site Evaluation  
Reference #:  
565329**



25092 Oak Road  
Seaford, DE 19973

Phone & Text: (302) 629-2989  
Email: jayduke@comcast.net

**RECEIVED  
05/27/2021  
GROUNDWATER**

**SITE EVALUATION APPROVAL PAGE**

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<b>Owner(s) Name:</b>	JJAK Enterprises LLC	<b>Tax Map #:</b>	1-30-6-82.04
<b>Address:</b>	10909 Beach Highway Greenwood, DE 19950	<b>Lot #:</b>	10
<b>Initial System Type:</b>	Capping fill gravity-fed on-site wastewater treatment and disposal system (OWTDS). See Exhibits M or N in the Regulations. Other OWTDS options include any conventional/alternative technologies approved by DNREC.		
<b>Location of Drain Field:</b>	In the vicinity of soil borings (SB) #2 & #3 (hatched area on the plot plan).		
<b>Depth to Limiting Zone:</b>	56" to redox concentrations & depletions.		
<b>Replacement System Type:</b>	Same as above if space permits. Otherwise, the replacement system may be sand-lined in the vicinity of the initial system.		
<b>Location of Drain Field:</b>	In the immediate vicinity of soil borings referred to above.		
<b>Depth to Limiting Zone:</b>	Same as above.		

**Design Comments**

1. Maintain all isolation distances specified in Exhibit C of the Regulations.
2. Maintain a 100' isolation distance from all domestic wells and 150' from all public wells.
3. If the 100' isolation distance to the existing domestic well cannot be maintained, it can be reduced to a minimum isolation distance of 50', in accordance with Exhibit C of the Regulations.
4. The evaluated soils in the vicinity of SB #1 (crosshatched area) meet the current regulatory requirements for a low pressure pipe (LPP) OWTDS designed with a 36" limiting zone and a 20 mpi estimated permeability rate. Contact a Class C designer and see Exhibit O in the Regulations.
5. **To avoid soil compaction, the area in the vicinity of the proposed drainfield should be identified and protected from any vehicular traffic or stockpiling of any material. In addition, any tree removal in this vicinity should be conducted according to DNREC guidelines.**

**Instructions to the Property Owner**

1. Contact a **Class B or C** System Designer.
2. A permeability rate of **30 minutes per inch (mpi)** has been estimated for the soils on this site. These estimated rates are used to determine the required size of the disposal area. They are based on soil texture and are derived from tables developed by the DNREC. You may elect to use the estimated rate to size the disposal system or have the appropriate tests conducted. Contact the Site Evaluator at (302) 629-2989 or DNREC [(302) 856-4561 in Sussex or (302) 739-9947 in Kent] for testing information.
3. Read the attached Site Evaluation Report for additional information.

**Report prepared by:** Joseph C. Duke, Jr. Date of report: May 26, 2021  
Class "D" License #: 4048

**For Official Use Only**

Field checked: \_\_\_\_\_ **DNREC APPROVED** Expiration Date: 6/2/26  
DNREC Reviewing Soil Scientist \_\_\_\_\_ Approval Date: 6/2/21

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IS RESPONSIBLE FOR  
ERRORS/OMISSIONS**

**Site Evaluation**  
**Reference #:**  
**565331**



25092 Oak Road  
Seaford, DE 19973

Phone & Text: (302) 629-2989  
Email: jayduke@comcast.net

**RECEIVED**  
**05/27/2021**  
**GROUNDWATER**

**SITE EVALUATION APPROVAL PAGE**

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<b>Owner(s) Name:</b>	JJAK Enterprises LLC	<b>Tax Map #:</b>	1-30-6-82.04
		<b>Lot #:</b>	11
<b>Address:</b>	10909 Beach Highway Greenwood, DE 19950	<b>Phone:</b>	(302) 542-0090
		<b>Email:</b>	huntercreekhomes@aol.com
<b>Initial System Type:</b>	Low-pressure pipe (LPP) on-site wastewater treatment and disposal system (OWTDS). See Exhibit O in the Regulations. Other OWTDS options include any conventional/alternative technologies approved by DNREC.		
<b>Location of Drain Field:</b>	In the vicinity of soil borings (SB) #1 & #2 (cross-hatched area on the plot plan).		
<b>Depth to Limiting Zone:</b>	38" to redox concentrations & depletions.		
<b>Replacement System Type:</b>	Same as above if space permits. Otherwise, the replacement system may be sand-lined in the vicinity of the initial system.		
<b>Location of Drain Field:</b>	In the immediate vicinity of soil borings referred to above.		
<b>Depth to Limiting Zone:</b>	Same as above.		

**Design Comments**

1. Maintain all isolation distances specified in Exhibit C of the Regulations.
2. Maintain a 100' isolation distance from all domestic wells and 150' from all public wells.
3. If the 100' isolation distance to the existing domestic well cannot be maintained, it can be reduced to a minimum isolation distance of 50', in accordance with Exhibit C of the Regulations.
4. **To avoid soil compaction, the area in the vicinity of the proposed drainfield should be identified and protected from any vehicular traffic or stockpiling of any material. In addition, any tree removal in this vicinity should be conducted according to DNREC guidelines.**

**Instructions to the Property Owner**

1. Contact a Class C System Designer.
2. A permeability rate of **40 minutes per inch (mpi)** has been estimated for the soils on this site. These estimated rates are used to determine the required size of the disposal area. They are based on soil texture and are derived from tables developed by the DNREC. You may elect to use the estimated rate to size the disposal system or have the appropriate tests conducted. Contact the Site Evaluator at (302) 629-2989 or DNREC [(302) 856-4561 in Sussex or (302) 739-9947 in Kent] for testing information.
3. Read the attached Site Evaluation Report for additional information.

**Report prepared by:** Joseph C. Duke, Jr., CPSS Date of report: May 26, 2021  
Class "D" License #: 4048

**For Official Use Only**

Field checked: \_\_\_\_\_ Expiration Date: 6/2/26  
DNREC Reviewing Soil Scientist **DNREC APPROVED** Approval Date: 6/2/21

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CONTACT CLASS D LICENSEE**

**THE CLASS D LICENSEE  
IS RESPONSIBLE FOR  
ERRORS/OMISSIONS**

**Site Evaluation  
Reference #:  
565332**



25092 Oak Road  
Seaford, DE 19973

Phone & Text: (302) 629-2989  
Email: jayduke@comcast.net

**RECEIVED  
05/27/2021  
GROUNDWATER**

**SITE EVALUATION APPROVAL PAGE**

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<b>Owner(s) Name:</b>	JJAK Enterprises LLC	<b>Tax Map #:</b>	1-30-6-82.04
<b>Address:</b>	10909 Beach Highway Greenwood, DE 19950	<b>Lot #:</b>	residual
<b>Initial System Type:</b>	Full-depth gravity-fed on-site wastewater treatment and disposal system (OWTDS). See Exhibits K or L in the Regulations. Other OWTDS options include any conventional/alternative technologies approved by DNREC.		
<b>Location of Drain Field:</b>	In the vicinity of soil borings (SB) #1 - #3 (hatched area on the plot plan).		
<b>Depth to Limiting Zone:</b>	60" to redox concentrations & depletions.		
<b>Replacement System Type:</b>	Same as above if space permits. Otherwise, the replacement system may be sand-lined in the vicinity of the initial system.		
<b>Location of Drain Field:</b>	In the immediate vicinity of soil borings referred to above.		
<b>Depth to Limiting Zone:</b>	Same as above.		

**Design Comments**

1. Maintain all isolation distances specified in Exhibit C of the Regulations.
2. Maintain a 100' isolation distance from all domestic wells and 150' from all public wells.
3. If the 100' isolation distance to the existing domestic well cannot be maintained, it can be reduced to a minimum isolation distance of 50', in accordance with Exhibit C of the Regulations.
4. **To avoid soil compaction, the area in the vicinity of the proposed drainfield should be identified and protected from any vehicular traffic or stockpiling of any material. In addition, any tree removal in this vicinity should be conducted according to DNREC guidelines.**

**Instructions to the Property Owner**

1. Contact a **Class B or C** System Designer.
2. A permeability rate of **40 minutes per inch (mpi)** has been estimated for the soils on this site. These estimated rates are used to determine the required size of the disposal area. They are based on soil texture and are derived from tables developed by the DNREC. You may elect to use the estimated rate to size the disposal system or have the appropriate tests conducted. Contact the Site Evaluator at (302) 629-2989 or DNREC [(302) 856-4561 in Sussex or (302) 739-9947 in Kent] for testing information.
3. Read the attached Site Evaluation Report for additional information.
- 4.

Report prepared by: Joseph C. Duke, Jr.  
Joseph C. Duke, Jr., CPSS

Date of report: May 26, 2021  
Class "D" License #: 4048

**For Official Use Only**

Field checked: \_\_\_\_\_

DNREC Reviewing Soil Scientist **DNREC APPROVED**

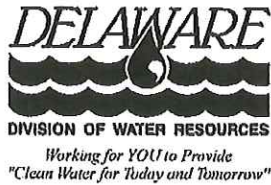
Expiration Date: 6/2/26

Approval Date: 6/2/21

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**THE CLASS D LICENSEE  
IS RESPONSIBLE FOR  
ERRORS/OMISSIONS**



**PERMIT  
242668**



Tax Parcel Number: 1-30-06.00-0082.04

Site Evaluation Number: 561172

Pursuant to provisions of Title 7, Delaware Code, Chapter 60, permission is hereby granted to:

**Hamstead, John J**

**10909 Beach Highway, Greenwood, DE 19950 US**

to construct, operate and maintain an onsite wastewater system.

Construction must be completed on or before 09/03/2022 , two years from permit issuance date. Construction must be performed by a person duly licensed by Delaware DNREC for such activity.

All current regulations governing wastewater system installation shall be followed.

All attached permit conditions shall be complied with.

The applicant is responsible for obtaining all additionally required permits and approvals.

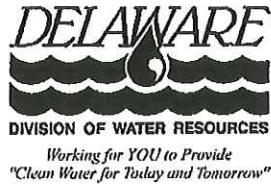
AUTHORIZED SIGNATURE

9/3/2020

Date

**DNREC APPROVED  
See Permit Conditions**





**PERMIT  
242668**



Tax Parcel Number: **1-30-06.00-0082.04**

Site Evaluation Number: **561172**

**Conditions for both Owner and Contractor**

§ 1 This system MUST be installed/repared by a licensed Class E System Contractor. The Contractor must call the Ground Water Discharges Section (GWDS) at (302) 739-9947 in Kent and New Castle Counties and (302) 856-4561 in Sussex County for system construction start-up authorization. The Contractor must call the GWDS for this authorization 24 hours prior to system construction start for Standard and I/A Systems and 72 hrs. prior for Large Systems. The Contractor must have an DNREC-approved permit copy on site during construction of this system.

§ 5 Connections and/or additions to the system other than what are proposed on the approved plot plan (s) are prohibited without prior approval from the Ground Water Discharges Section (GWDS).

§ 6 Roof downspouts, foundation drains, storm sewers, combined sewers or appurtenances thereto, or any sewer or device carrying or discharging either storm, surface, ground or cooling water, oil or water softener discharge shall not be connected to the system.

§ 20 The average daily discharge of this system is restricted to 600 gallons per day. Changes to permitted system flow must be pre-approved by the GWDS and may require a new permit(s) to be issued.

§ 23 A Certificate of Satisfactory Completion must be issued by the GWDS for this system prior to its use. The system is NOT approved for operation and maintenance until the required certificate has been issued.

§ 25 The battery in the timer shall be replaced at least once every year and can be accomplished by the property owner.

§ 70 If the approved disposal area is wooded, at the discretion of the Class E System Contractor, it is recommended that after tree-clearing the disposal area be checked again by a Class D Soil Scientist prior to system installation. Refer to the Regulations for lot clearing guidance and Exhibit FF for Lot Clearing/Disturbed Site Inspection Report.

§ 90 It is the responsibility of the Class E System Contractor, with cooperation of the property owner, to establish and make visible all property corners that define the property boundaries prior to system installation/inspection. Failure to comply with this condition may necessitate additional inspection(s) and delay subsequent site approval.

§ 94 The proposed/existing septic tank(s) must be upgraded with risers(2) for each compartment finished to above grade and a GWDS-approved outlet filter. The above-grade access covers shall be watertight and secure from vandalism. The outlet filter should be removed, inspected, cleaned and replaced per manufacturer's recommendations.

**Conditions for Contractor**

§ 3 The Class E System Contractor shall notify the Class C Design Engineer for an inspection prior to covering the installation. Approval to cover must be given by the Engineer/Authorized Designee. The Engineer shall provide As-Built drawings within ten (10) days after system inspection (if required).

§ 4 The Class E System Contractor shall contact a Class I Construction Inspector for an inspection prior to covering the installation and cap inspections for all New and Replacement gravity systems starting January 12, 2016. Approval for cover must be given by the Class I. For all Component Replacement and Repair permits the Class E System Contractor shall contact the GWDS for inspections until July 1, 2016 at which time the Class E shall contact a Class I for Inspection.

§ 7 The drainfield area, either above or below grade, must be installed according to the cross section in the permit design plan(s). Any changes to system depth/height will require pre-approval from the Class D Soil Scientist, the Class C Design Engineer (if applicable) and the GWDS.



Working for YOU to Provide  
"Clean Water for Today and Tomorrow"

## PERMIT 242668



Tax Parcel Number: 1-30-06.00-0082.04

Site Evaluation Number: 561172

§ 10 All electrical connections shall be waterproof, corrosion-resistant and explosion proof where applicable. All electrical connections and components utilized in an OWTDS, at a minimum, must comply with all National and Delaware Electrical Codes (Admin Code, Title 24, §1400) per Section 5.4.6.2.1.5 of the regulations.

§ 12 There shall be no soil disturbance within the primary and spare absorption areas except the minimum required for system/component installation and/or repair.

§ 13 The existing sewage disposal system drainfield and/or components shall be abandoned as required in Section 5.4.8 of the Regulations. Unless the existing tank(s), septic, dosing and/or lift, are incorporated into a replacement system design any tank(s), all cesspool(s)/seepage pit(s) and/or disposal areas as shown or indicated on the permit plot plan shall be located, pumped and either filled or removed/backfilled and an Abandonment Report (exhibit "Z") submitted.

§ 16 The Class E System Contractor shall install a battery in the timer.

§ 24 It is the responsibility of the Class E System Contractor to verify that ALL isolation distances, as noted and approved in the permit, can be maintained. Furthermore, the contractor shall notify the Class B or C Designer/Engineer AND the GWDS if field conditions exist that prohibit the ability to maintain the approved isolation distances and/or requirements of the Regulations.

§ 33 This system must be pressure-tested by a Class C Engineer/Authorized Designee.

§ 48 Final Site Restoration must comply with Section 5.4.5.5 of the Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems.

§ 66 A construction report must be prepared by the Class E System Contractor and submitted to the GWDS within ten (10) days of system completion. This is to include any changes that require a post-construction "As-Built" drawing. "As-Built drawings detailing changes to engineered (pressurized) systems must be submitted by the Class C Engineer.

§ 77 The Class E System Contractor shall comply with all Occupational Safety and Health Act (OSHA) regulations. OSHA regulations can be found at the website [www.osha.gov](http://www.osha.gov) or by contacting the U.S. Department of Labor.

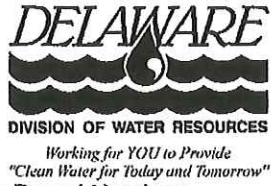
§ 91 All proposed changes to permit design MUST be submitted and approved in the form of a preconstruction "as-built" drawing prior to system installation. Contact the GWDS for guidance. Post-construction "as-built" drawings are subject to GWDS approval and MUST be submitted to the GWDS within ten (10) calendar days of system completion. All "as-built" drawings (pre or post) detailing changes to engineered systems MUST be generated by the Class C Design Engineer.

§ 92 This system type is classified as "mound" or "capping fill" and thus requires a second inspection to ensure sufficient soil "cap" or cover over the drainfield. The Class E System Contractor is to call the licensed Class C Engineer for a "cap" inspection within ten (10) calendar days after receiving a satisfactory pre-cover inspection, weather permitting.

### Conditions for Owner

§ 17 The property owner shall connect to the county or municipal sewer system if and when such services become available and shall be in accordance with County and/or Municipal rules and regulations. At time of connection the existing septic disposal system shall be abandoned per DNREC Regulations and permit voided unless the GWDS approves continued operation.

§ 18 This system shall be maintained in such a manner as to prevent abnormal odors or surfacing, pooling and/or discharging of wastewater onto any surface waters.



**PERMIT  
242668**



Tax Parcel Number: **1-30-06.00-0082.04**

Site Evaluation Number: **561172**

§ 19 The sites of the initial and replacement absorption facilities shall not be covered by asphalt or concrete or subject to vehicular traffic or any activity or similar loadings that would adversely affect the soils. These sites shall be maintained so that they are free from encroachments by ancillary buildings and additions to main structures.

§ 21 The septic tank must be pumped by a licensed Class F Liquid Waste Hauler at a minimum of once every three (3) years. Septic tanks constructed of non-masonry materials should be pumped only when the seasonal water table is low to minimize possible flotation risk and must be immediately refilled by the owner.

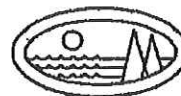
§ 76 The effluent filter, proposed or existing in either the outlet baffle of the septic tank, distribution box, septic tank lift station (Exhibit "V") or separate lift station vault, shall be cleaned and maintained as necessary to prevent clogging of the disposal system and can be performed by the property owner.

§ 93 The site evaluation supporting this permit will expire five(5) years after site evaluation approval date. System replacement after this date will require a new site evaluation and subsequent GWDS approval.



APPLICATION - PERMIT

DELAWARE DEPARTMENT OF NATURAL RESOURCES



DIVISION OF WATER RESOURCES  
Clean Water - for Today and Tomorrow

ON-SITE WASTEWATER SYSTEM

AND ENVIRONMENTAL CONTROL

Owner's Name: JOHN HAMSTEAD Phone: 302-349-0805

Address: 10909 BEACH HWY, GREENWOOD DE, 19950

Project Location: RESIDUAL LOT, CHASE LANE OFF CALHOUN ROAD, GEORGETOWN

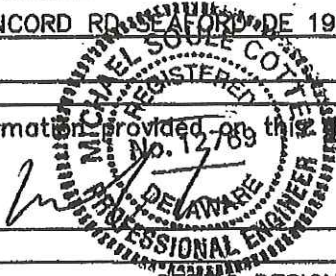
Tax Map # 130-6.00-82.04

Application Preparer: MICHAEL COTTEN P.E. DNREC License #: 4483

Preparer's Address: 10087 CONCORD RD, SEAFORD, DE 19973

Phone: (302)628-9164

I hereby affirm that the information provided in this document is accurate and complete.



8/26/20

Preparer's Signature

Date

- SEPTIC DESIGN CRITERIA -

(Please check all boxes that apply)

CF=Cap & Fill / FD=Full Depth

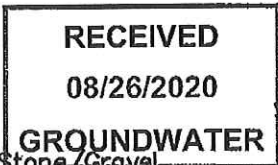
Type of Construction:

System Type:

- Replacement
- New Construction
- Component Replacement
- Repair to Existing System
- Authorization to Use Existing System
- Modification to Existing System

- Low Pressure Pipe (FD)
- Elevated Sand Mound
- Pressure Dose (FD)
- Holding Tank
- Gravity (FD)
- Std. Pressure Dose (FD)
- Std. Pressure Dose (CF)

- Low Pressure Pipe (CF)
- Wisconsin At-Grade
- Pressure Dose (CF)
- Subsurface Micro Irrigation
- Gravity (CF)
- Other: \_\_\_\_\_



Bed or  Trench Sand-lined  Yes  No

Gravelless Chamber or  Stone/Gravel Existing System Malfunctioning  Yes  No  N/A

Pre-Treatment Units

- Bio-Clear  Klargestar
- Septic Tank  Recirculating Sand Filter
- Other: \_\_\_\_\_

# of Bedrooms: 5  
 Average Percolation Rate: 40 MPI  
 Gallon Per Day Flow: 600 GPD  
 Minimum Square Ft. Required: 3,348 SF  
 Square Ft. Proposed: TRENCHES 16 EA 1.0 X 45.0LF = 3,600 SF

Central Water Available  Yes  No

(If yes, please state Utility Name: \_\_\_\_\_)

PROJECT #20-371

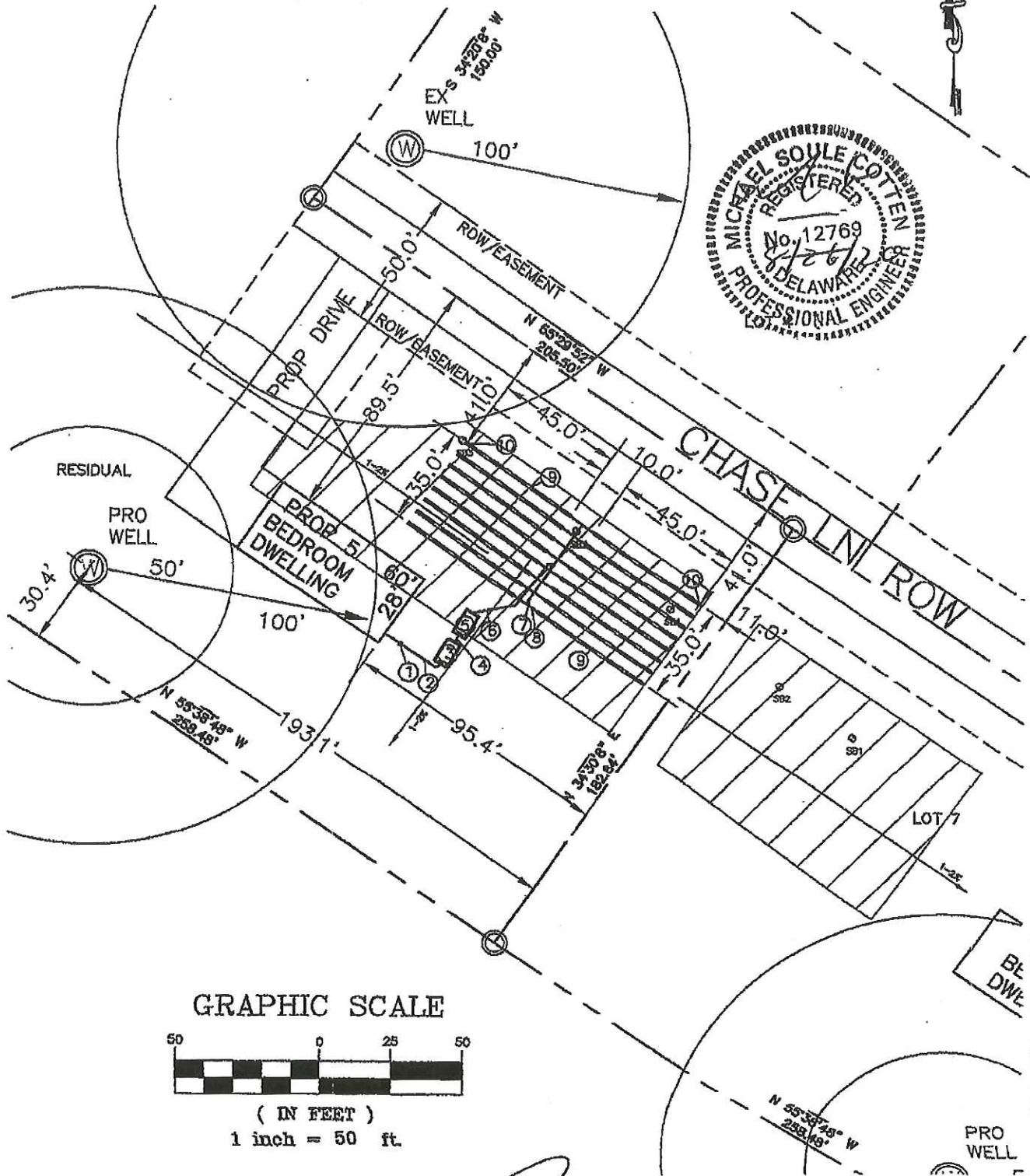
DATE: 08/25/2020

# COTTEN ENGINEERING LLC

CIVIL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS  
10087 CONCORD RD SEAFORD, DE 19775  
PHONE/FAX (302) 828-8184

TAX MAP#:130-6.00-82.04

NOTE: CONTACT SYSTEM DESIGNER IF SITE CONDITIONS CHANGE.



### GRAPHIC SCALE



( IN FEET )  
1 inch = 50 ft.

DESIGN BASED UPON LOT DIMENSIONS PROVIDED BY CLIENT AND FROM APPROVED SITE EVALUATION BY COASTAL SOIL. COTTEN ENGINEERING DID NOT PERFORM A SURVEY OF THIS PROPERTY.

OWNER'S/AUTHORIZED AGENT SIGNATURE: \_\_\_\_\_

DATE: 8/25/20

PROJECT #: 20-371

DATE: 08/25/2020

TAX MAP #: 130-6.00-82.04

# COTTEN ENGINEERING LLC

CIVIL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS  
10087 CONCORD RD SEAFORD, DE 19973  
PHONE/FAX (302) 628-9184

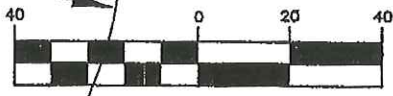
NOTE: CONTACT SYSTEM DESIGNER IF SITE CONDITIONS CHANGE.



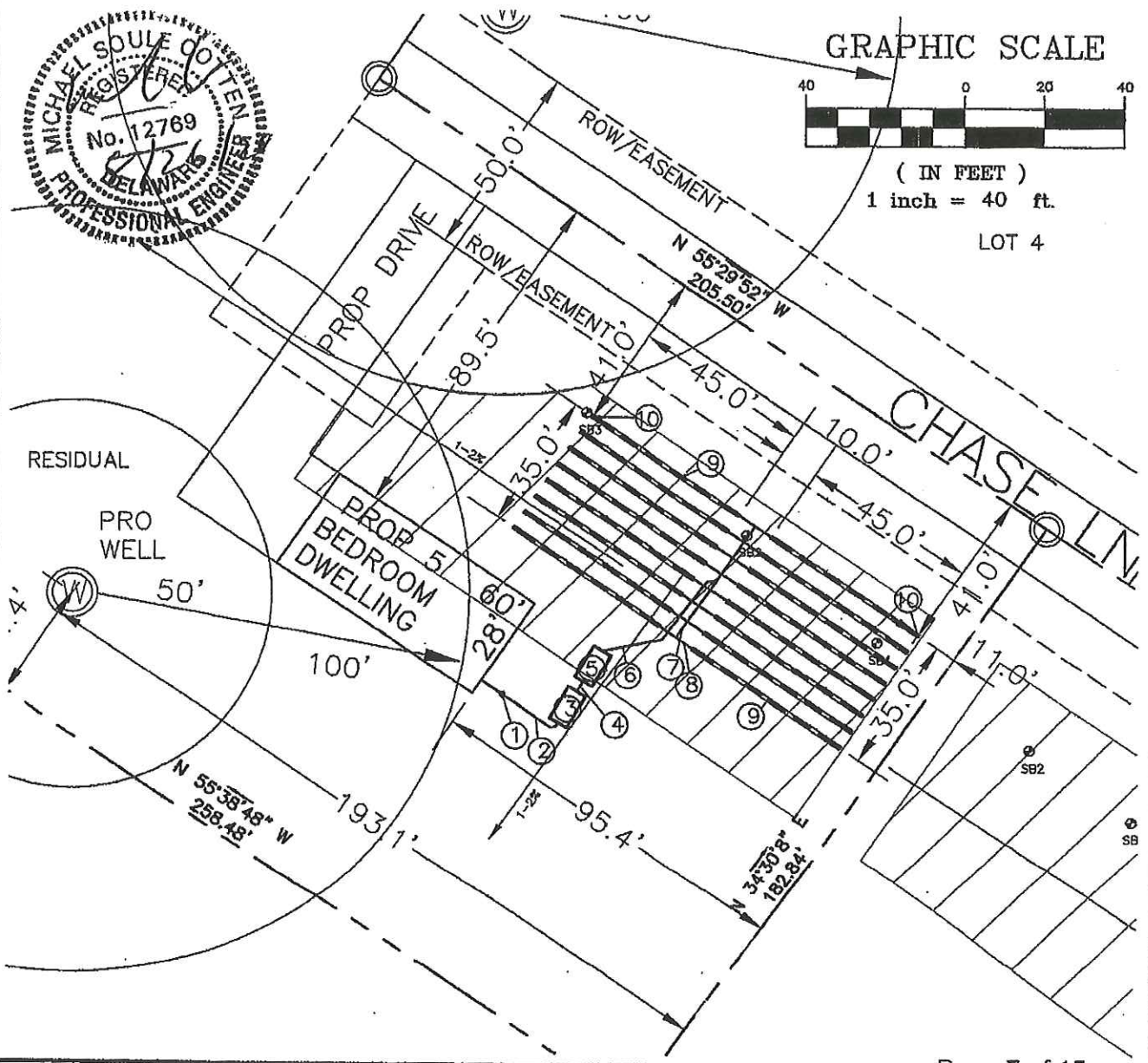
1. NEW SANITARY CLEANOUT
2. 25'± NEW 4" GRAVITY BUILDING SEWER LINE.
3. NEW 1500 GALLON CONCRETE TANK, WITH FILTER AND RISERS ACCORDING TO DNREC STANDARDS.
4. 3± LF NEW 4" PVC.
5. NEW 1500 DOSE TANK WITH GOULDS WE0712H PUMP.
6. 40 LF 3" SCH 40 PVS. TRANSMISSION LINE.
7. 35 LF OF 2" PVC MANIFOLD."
8. 5LF OF 1" NON PERF- SCH 40 PVC.
9. 16 EA LATERALS 45.0 LF OF 1" PERFORATED PVC WITH 7 EA.  $\frac{3}{8}$ " HOLES SPACED AT 6.0FT. TRENCH SHALL BE 45.5 FT OF 12" WIDE TRENCH, MINIMUM 9" COVER.
10. TYP CLEAN OUT/ TEST PORT.
11. APPROVED FULL DEPTH LPP DISPOSAL AREA.
12. SPARE SHALL BE SAND LINE ESM IN AREA OF INITIAL OR ALTERNATIVE SYSTEM IN RESIDUAL APPROVED DISPOSAL AREA.
13. CONTRACTOR SHALL CONTACT MISS UTILITY PRIOR TO ANY EXCAVATION AND VERIFY DIMENSIONS TO ADJACENT WELLS.
14. CONTRACTOR SHALL REMOVE ANY TREES WITHIN 10FT OF PROPOSED DISPOSAL AREA ACCORDING TO DNREC STANDARDS.
15. CONTRACTOR SHALL COORDINATE WITH OWNER ON SANITARY TIE INS. AND INVERT ELEVATIONS. AND RESTORATION OF SITE LANDSCAPING.
16. NO CONSTRUCTION TRAFFIC IS TO OCCURE WITHIN THE DISPOSAL AREA.
17. CONTRACTOR AND OWNER SHALL ABIDE BY THE RECOMMENDATIONS IN THE SOIL EVALUATION REPORT.



## GRAPHIC SCALE



( IN FEET )  
1 inch = 40 ft.  
LOT 4

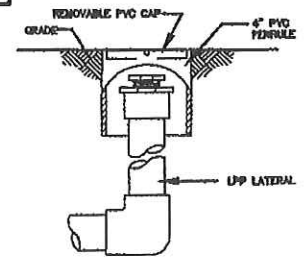


PROJECT # 20-371  
 DATE: 08/25/2020

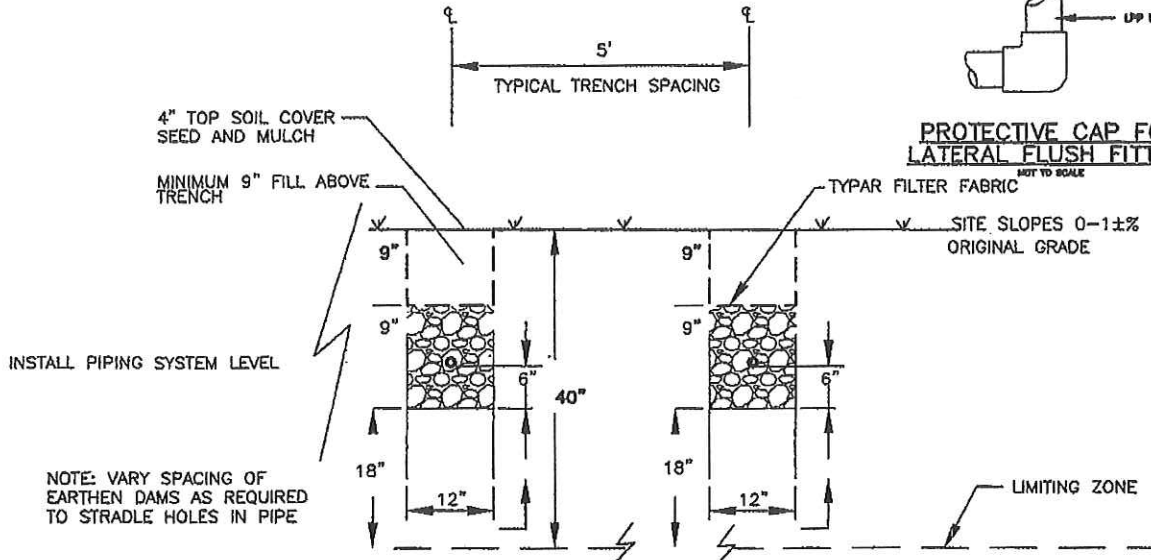
TAX MAP # 130-6.00-82.04

# COTTEN ENGINEERING LLC

CIVIL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS  
 10007 CONCORD RD SEAFORD, DE 19973  
 PHONE/FAX (302) 620-0104



**PROTECTIVE CAP FOR LATERAL FLUSH FITTING**  
NOT TO SCALE



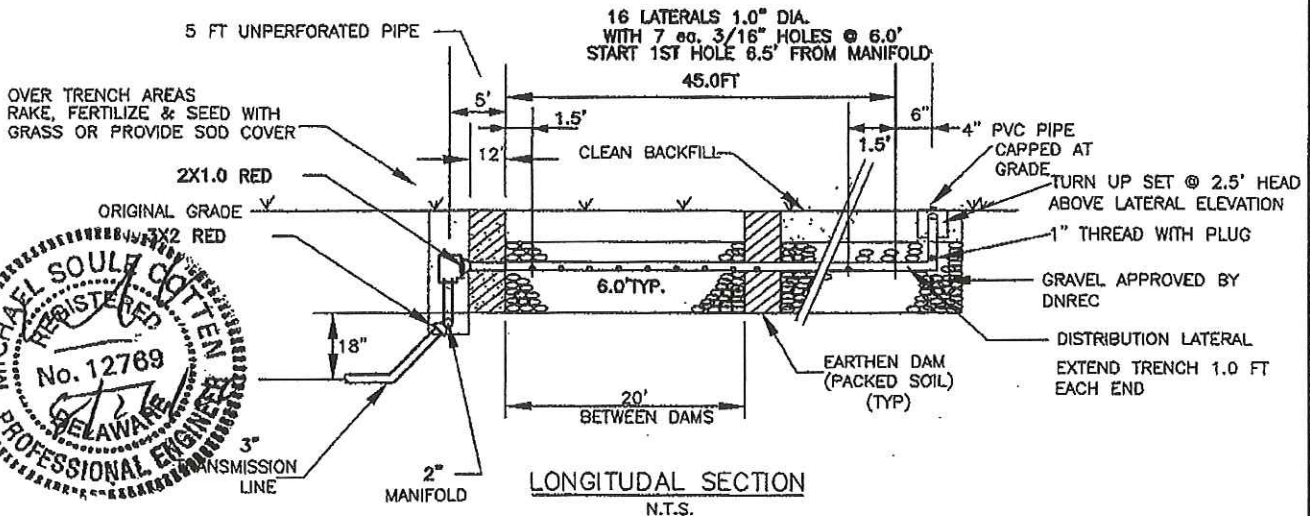
CONTRACTOR SHALL RAKE SIDE WALLS OF TRENCH TO REDUCE SMEARING

AT SOIL BORING # SB2

INSTALL PIPING SYSTEM LEVEL

**TRENCH CROSS SECTION**  
 N.T.S.

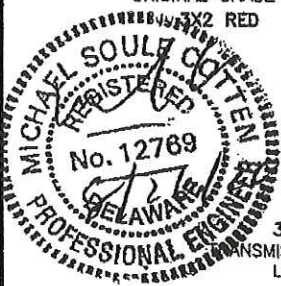
GRAVEL APPROVED BY DNREC



**LONGITUDINAL SECTION**  
 N.T.S.

## FULL DEPTH LPP SYSTEM

NO CONSTRUCTION TRAFFIC IS TO OCCURE WITHIN THE OWTDS AREA

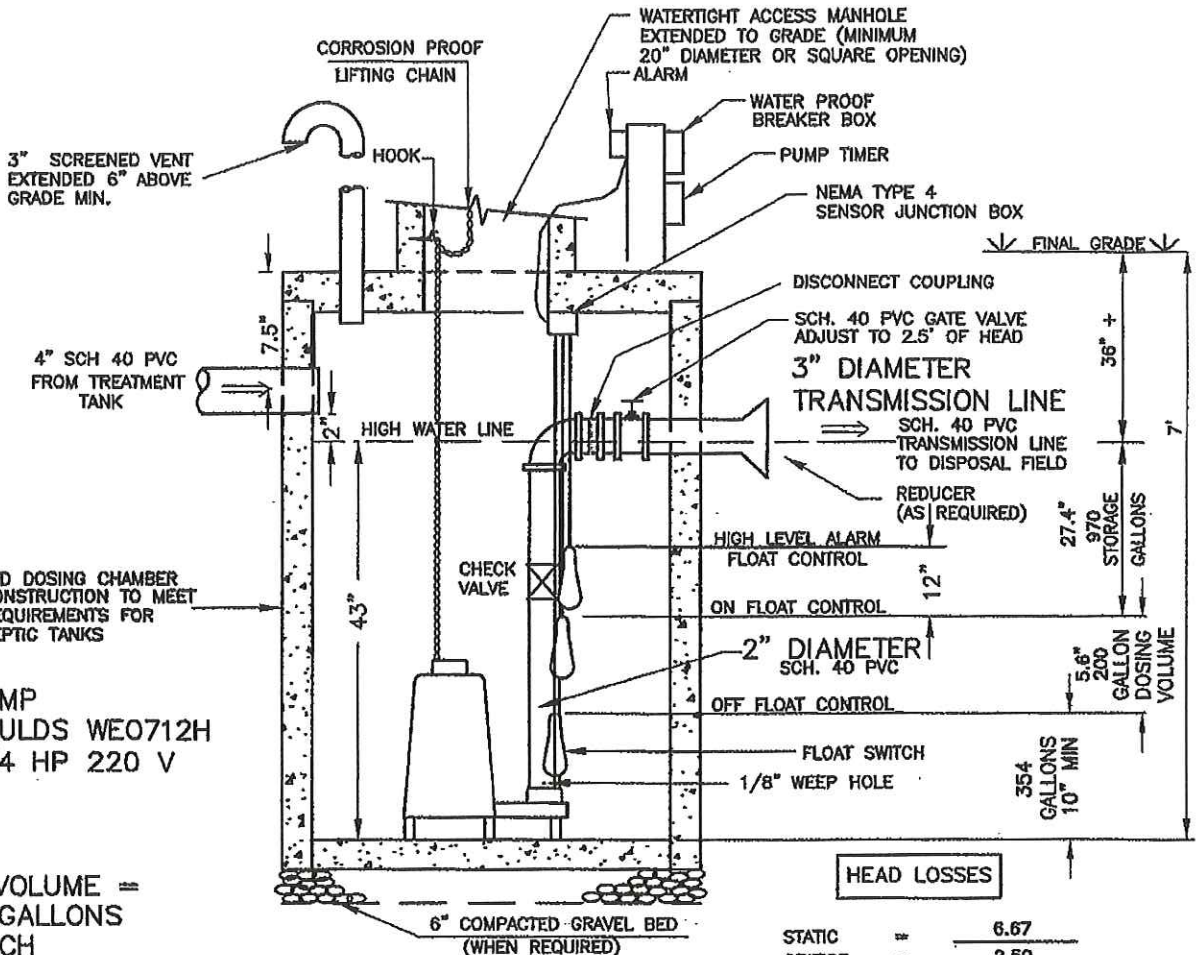


PROJECT #: 20-371  
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 PHONE/FAX (302) 628-9164

TAX MAP #: 130-6.00-82.04



PUMP  
 GOULDS WE0712H  
 3/4 HP 220 V

TANK VOLUME =  
 35.38 GALLONS  
 PER INCH

TIMER TO RUN  
 2.7 MIN  
 3 TIMES PER DAY

## SECTION STD 1500 GAL DOSE TANK

**NOTES:**

- \* MAXIMUM DEPTH FROM GRADE TO INVERT OF DOSING CHAMBER TO BE 9'-0"
- \* EXCAVATION LIMITS SHALL EXTEND AT LEAST 2 FEET BEYOND TANK PERIMETER
- \* ALL PIPE TO BE PVC SCHEDULE 40 OR SDR 26
- \* CHAMBER TO BE SIZED ACCORDING TO REQUIREMENTS OF DOSING VOLUME AND STORAGE.
- \* ALL DOSING CHAMBER COMPONENTS SHALL BE FIELD TESTED TO INSURE ACCURACY, WATERTIGHTNESS AND PROPER OPERATION OF ALL PUMPS AND ALARM CONTROLS
- \* ALL ELECTRICAL CONNECTIONS SHALL BE WATERPROOF, CORROSION RESISTANT AND EXPLOSION PROOF
- \* ALL TANK INLETS, OUTLETS; AND ACCESS EXTENSIONS SHALL BE PROPERLY SEALED WITH WATERTIGHT GROUT OR APPROVED JOINT SEALING COMPOUND
- \* PUMP SHALL BE CONNECTED TO A SEPARATE CIRCUIT FROM ALARM
- \* FLOATS TO BE INSTALLED ON FLOAT TREE NOT TRANSMISSION LINE





B3885



# ITT

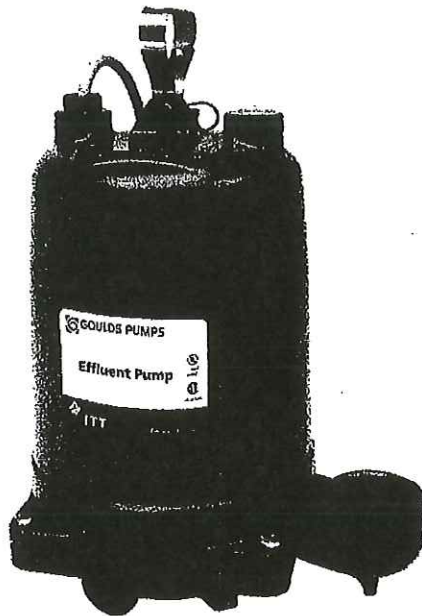
Wastewater

## Goulds Pumps

WE Series Model 3885

Submersible Effluent Pump

EXTENDED WARRANTY AVAILABLE FOR  
RESIDENTIAL APPLICATIONS.



### FEATURES

- **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
- **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.
- **Mechanical Seal:** Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.
- **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.
- **Fasteners:** 300 series stainless steel.
- Capable of running dry without damage to components.
- Designed for continuous operation when fully submerged.

 **GOULDS PUMPS**

Goulds Pumps is a brand of ITT Corporation.

[www.goulds.com](http://www.goulds.com)

*Engineered for life*





# ITT

## GOULDS PUMPS Wastewater

### APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

### SPECIFICATIONS

#### Pump

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

#### MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/2 – 1 1/2 HP models.
- Class F insulation on 2 HP models.

#### Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.

- 1/2 – 1 HP models have NEMA three prong grounding plugs.
- 1 1/2 HP and larger units have bare lead cord ends.

#### Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- **O-ring:** Assures positive sealing against contaminants and oil leakage.

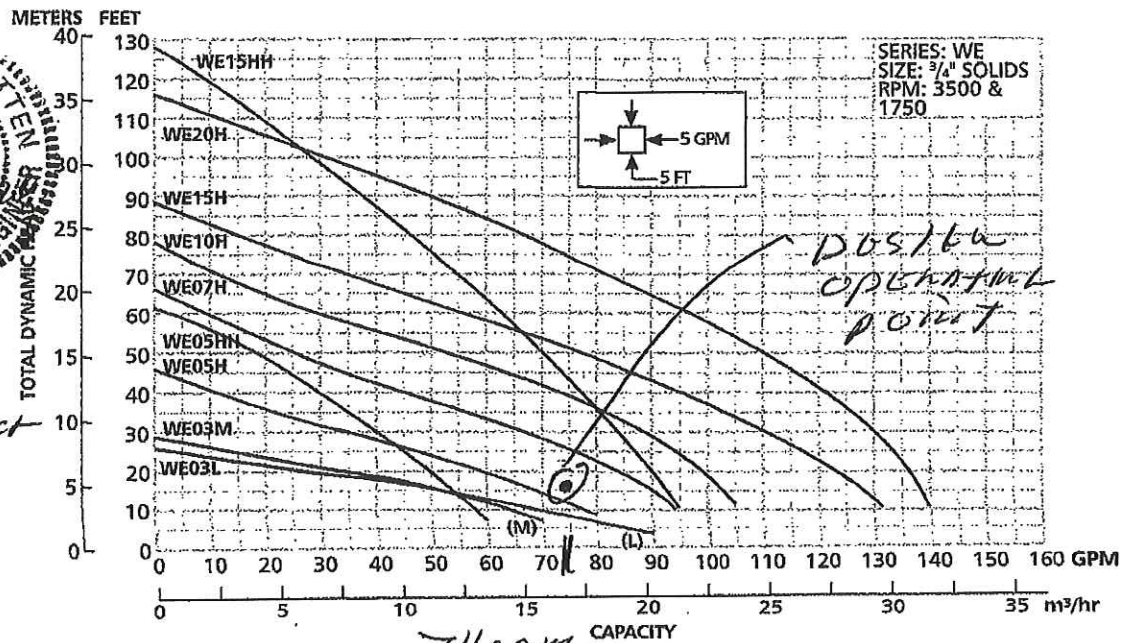
#### AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards  
By Canadian Standards Association File #LR38549  
Goulds Pumps is ISO 9001 Registered.



TDM  
16.92 ft





# ITT

## GOULDS PUMPS Wastewater

### MODELS

Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Efficiency %	Resistance		Power Cable Size	Weight (lbs.)	
										Start	Line-Line			
WE0311L	0.33	1	115	1750	5.38	10.7	30.0	M	54	11.9	1.7	16/3	56	
WE0318L			208			6.8	19.5	K	51	9.1	4.2			
WE0312L			230			4.9	14.1	L	53	14.5	8.0			
WE0311M			115			10.7	30.0	M	54	11.9	1.7			
WE0318M			208			6.8	19.5	K	51	9.1	4.2			
WE0312M			230			4.9	14.1	L	53	14.5	8.0			
WE0511H	0.5	1	115	3450	3.56	14.5	46.0	M	54	7.5	1.0	14/3	60	
WE0518H			208			8.1	31.0	K	68	9.7	2.4	16/3	60	
WE0512H			230			7.3	34.5	M	53	9.6	4.0	14/4	60	
WE0538H		3	200			4.9	22.6	R	68	NA	3.8	14/4	60	
WE0532H			230			3.3	18.8	R	70	NA	5.8			
WE0534H			460			1.7	9.4	R	70	NA	23.2			
WE0537H		575	1.4		7.5	R	62	NA	35.3	14/3	60			
WE0511HH		1	115		14.5	46.0	M	54	7.5			1.0		
WE0518HH			208		8.1	31.0	K	68	9.7			2.4		
WE0512HH			230		7.3	34.5	M	53	9.6			4.0		
WE0538HH		3	200		4.9	22.6	R	68	NA			3.8	14/4	60
WE0532HH			230		3.6	18.8	R	70	NA			5.8		
WE0534HH	460		1.8	9.4	R	70	NA	23.2						
WE0537HH	575	1.5	7.5	R	62	NA	35.3	14/3	70					
WE0718H	0.75	1	208	4.06	11.0	31.0	K			68	9.7	2.4		
WE0712H			230		10.0	27.5	J			65	12.2	2.7		
WE0738H		3	200		6.2	20.6	L			64	NA	5.7	14/4	70
WE0732H			230		5.4	15.7	K			68	NA	8.6		
WE0734H			460		2.7	7.9	K			68	NA	34.2		
WE0737H			575		2.2	9.9	L	78	NA	26.5				
WE1018H	1	1	208	4.44	14.0	59.0	K	68	9.3	1.1	14/3	70		
WE1012H			230		12.5	36.2	J	69	10.3	2.1				
WE1038H		3	200		8.1	37.6	M	77	NA	2.7	14/4	70		
WE1032H			230		7.0	24.1	L	79	NA	4.1				
WE1034H			460		3.5	12.1	L	79	NA	16.2				
WE1037H			575		2.8	9.9	L	78	NA	26.5				
WE1518H	1.5	1	208	4.56	17.5	59.0	K	68	9.3	1.1	14/3	80		
WE1512H			230		15.7	50.0	H	68	11.3	1.6				
WE1538H			200		10.6	40.6	K	79	NA	1.9				
WE1532H		3	230		9.2	31.7	K	78	NA	2.9	14/4	80		
WE1534H			460		4.6	15.9	K	78	NA	11.4				
WE1537H			575		3.7	13.1	K	75	NA	16.9				
WE1518HH	1.5	1	208	5.50	17.5	59.0	K	68	9.3	1.1	14/3	80		
WE1512HH			230		15.7	50.0	H	68	11.3	1.6				
WE1538HH			200		10.6	40.6	K	79	NA	1.9				
WE1532HH		3	230		9.2	31.7	K	78	NA	2.9	14/4	80		
WE1534HH			460		4.6	15.9	K	78	NA	11.4				
WE1537HH			575		3.7	13.1	K	75	NA	16.9				
WE2012H	2	3	230	5.38	18.0	49.6	F	78	3.2	1.2	14/3	83		
WE2038H			200		12.0	42.4	K	78	NA	1.7	14/4	83		
WE2032H			230		11.6	42.4	K	78	NA	1.7				
WE2034H			460		5.8	21.2	K	78	NA	6.6				
WE2037H			575		4.7	16.3	L	78	NA	10.5				





# ITT

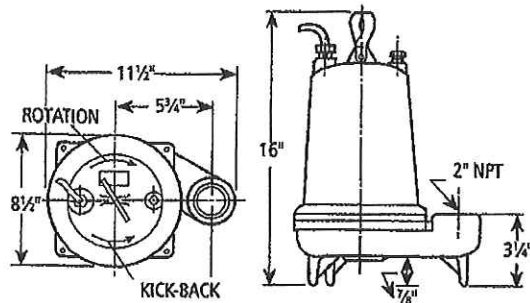
## Wastewater

### PERFORMANCE RATINGS (gallons per minute)

Order No.	WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE05HH	WE15HH	WE20H
HP	1/4	1/4	1/2	3/4	1	1 1/2	1/2	1 1/2	2
RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
5	86	-	-	-	-	-	-	-	-
10	70	63	78	94	-	-	58	95	-
15	52	52	70	90	103	128	53	93	138
20	27	35	60	83	98	123	49	90	136
25	5	15	48	76	94	117	45	87	133
30	-	-	35	67	88	110	40	83	130
35	-	-	22	57	82	103	35	80	126
40	-	-	-	45	74	95	30	77	121
45	-	-	-	35	64	86	25	74	116
50	-	-	-	25	53	77	-	70	110
55	-	-	-	-	40	67	-	66	103
60	-	-	-	-	30	56	-	63	96
65	-	-	-	-	20	45	-	58	89
70	-	-	-	-	-	35	-	55	81
75	-	-	-	-	-	25	-	51	74
80	-	-	-	-	-	-	-	47	66
90	-	-	-	-	-	-	-	37	49
100	-	-	-	-	-	-	-	28	30

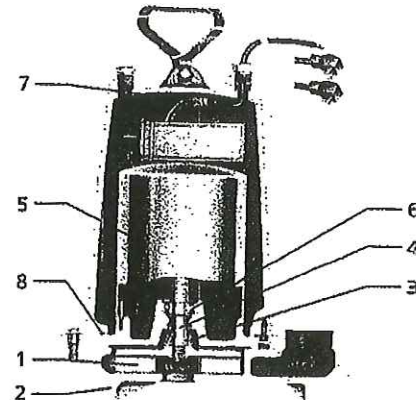
### DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



### COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



## GOULDS PUMPS

Goulds Pumps and the ITT Engineered Blocks Symbol are registered trademarks and tradenames of ITT Corporation.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

B3885 June, 2009

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*Engineered for life*



# MODEL TD Control Panel

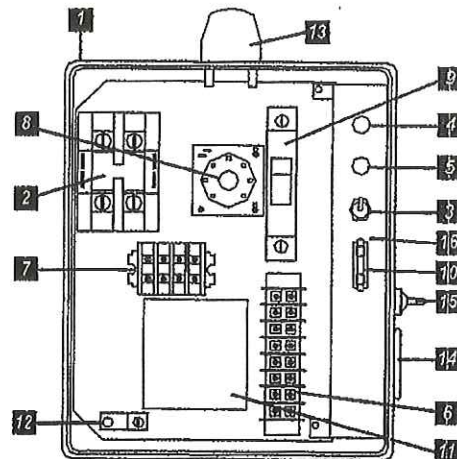
Single phase, simplex timed dosing pump control.

The Model TD control panel provides a reliable means of controlling one single phase pump in onsite septic installations. A programmable timer activates a magnetic motor contactor to turn the pump on and off. A low level cutout float overrides the timer to prevent the pump from running dry. An alarm float activates the audio/visual alarm system indicating a high liquid level. Common applications include sand filter systems, pressure distribution systems, mound systems, or any application requiring a timed dose.

## PANEL COMPONENTS

1. Enclosure measures 10 x 8 x 4 inches (25.40 x 20.32 x 10.16 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. Magnetic Motor Contactor controls pump by switching electrical lines.
3. HOA Switch for manual pump control.
4. Control Fuse
5. Alarm Fuse
6. Float Switch Terminal Block
7. Incoming Power Terminal Block
8. Programmable Timer with separate variable controls allows for setting the on and off times from .05 seconds to 30 hours.
9. Circuit Breaker provides pump disconnect and branch circuit protection.
10. Spare Fuse
11. Backplate Label includes diagram of float, pump, and power connections.
12. Ground Lug

NOTE: Timer Installation Label and Pump/Float Switch Installation Specification Label are located inside the panel on enclosure cover.



Model Shown TD1W914X

## STANDARD ALARM PACKAGE

13. Red Alarm Beacon provides 360° visual check of alarm condition.
14. Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
15. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
16. Horn Silence Relay (mounted under bracket).

NOTE: other options available.



## FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes two 20' SJE float switches
- Complete with step-by-step installation instructions
- Five-year limited warranty

## OPTIONAL FEATURE

- 34" (86.36cm) Panel Mounting Post (Factory Installed). Includes Duplex Installation Kit (Enclosure upsized to 10" x 8" x 6" (25.4 x 20.32 x 15.24 cm). Max. Enclosure size 14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.  
SEE PRICE BOOK FOR LIST PRICE.



**SJE Rhombus**

PO Box 1708, Detroit Lakes, MN 56502  
1-888-DIAL-SJE • 1-218-847-1317  
1-218-847-4617 Fax

email: customer.service@sjerhombus.com

www.sjerhombus.com

TD 1 W 1 2 4 H 1F, 6A, 17E

**MODEL TD**

**ALARM PACKAGE**

- 0 = select option (If you select "0", you must select option 1F)
- 1 = alarm package (includes test/normal/silence switch, red beacon, horn)

**ENCLOSURE RATING**

- W = Weatherproof, NEMA 4X (engineered thermoplastic)

**STARTING DEVICE**

- 1 = magnetic motor contactor 120/208/240V
- 9 = magnetic motor contactor 120V only

**PUMP FULL LOAD AMPS**

- 0 = 0-7 FLA
- 1 = 7-15 FLA
- 2 = 15-20 FLA

**PUMP DISCONNECTS**

- 4 = circuit breaker

**FLOAT SWITCH APPLICATION**

- H = 20' low level cutout (select 17 or 21 option)
- X = no floats

**OPTIONS** *Listed below*

- | <input checked="" type="checkbox"/> | CODE | DESCRIPTION   |
|-------------------------------------|------|---|
| <input checked="" type="checkbox"/> | 1F   | Door mounted alarm indicator with horn and test/normal/silence switch (must select "0" as an alarm package) |
| <input type="checkbox"/>            | 4B   | Red redundant off indicator and alarm (must select option "4D" if floats included)                          |
| <input type="checkbox"/>            | 4D   | Redundant off float   |
| <input type="checkbox"/>            | 4E   | Redundant off float, alarm activation (20' SJE PumpMaster® SPDT)  |
| <input checked="" type="checkbox"/> | 6A   | Auxiliary alarm contacts, form C  |
| <input type="checkbox"/>            | 8A   | Elapsed time meter  |
| <input type="checkbox"/>            | 8C   | Event (cycle) counter   |

- | <input type="checkbox"/>            | CODE | DESCRIPTION   |
|-------------------------------------|------|---|
| <input type="checkbox"/>            | 10E  | Lockable latch  |
| <input type="checkbox"/>            | 10K  | Anti-condensation heater  |
| <input type="checkbox"/>            | 10P  | Panel Mounting Post (Factory Installed. Includes Duplex Install. Kit)(Encl. upsized to 10x8x6, Max 14x12x6) |
| <input type="checkbox"/>            | 16A  | 10' cord in lieu of 20' (per float)   |
| <input type="checkbox"/>            | 16B  | 15' cord in lieu of 20' (per float)   |
| <input type="checkbox"/>            | 16C  | 30' cord in lieu of 20' (per float)   |
| <input type="checkbox"/>            | 16D  | 40' cord in lieu of 20' (per float)   |
| <input checked="" type="checkbox"/> | 17E  | Sensor Float® Mini (redundant off, high level alarm) ▲ (per float)  |
| <input type="checkbox"/>            | 18A  | Timer override float (20' SJE PumpMaster®) ●  |
| <input type="checkbox"/>            | 19X  | Door mounted pump run indicator   |
| <input type="checkbox"/>            | 21E  | SJE PumpMaster® (redundant off, high level alarm) ● (per float)   |

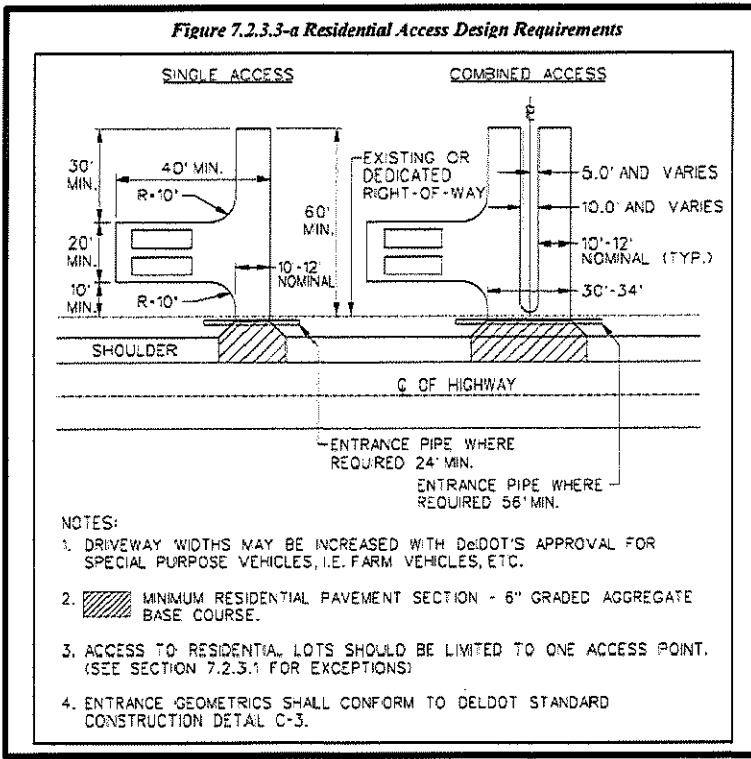
● Mechanically-activated ▲ Mercury-activated

*If additional features are required, call the factory for a quote on an Engineered Custom control panel.*

**SAMPLE**

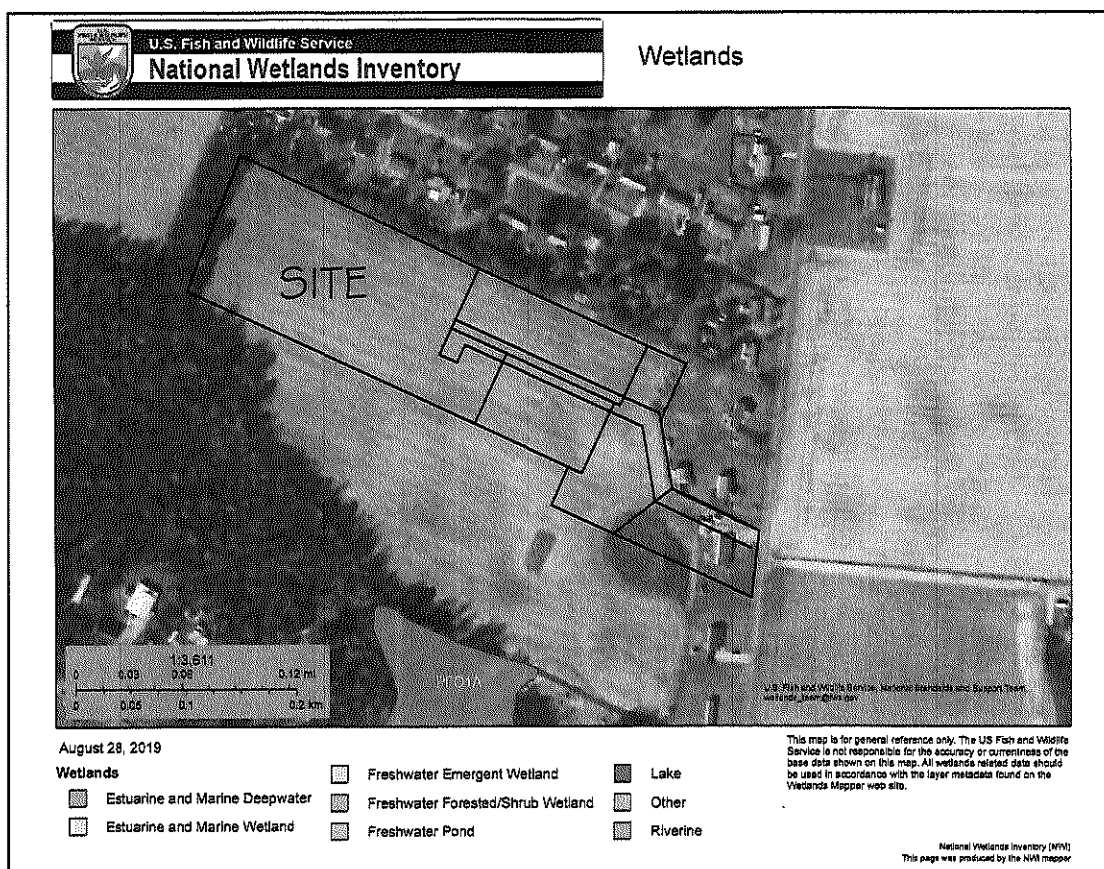
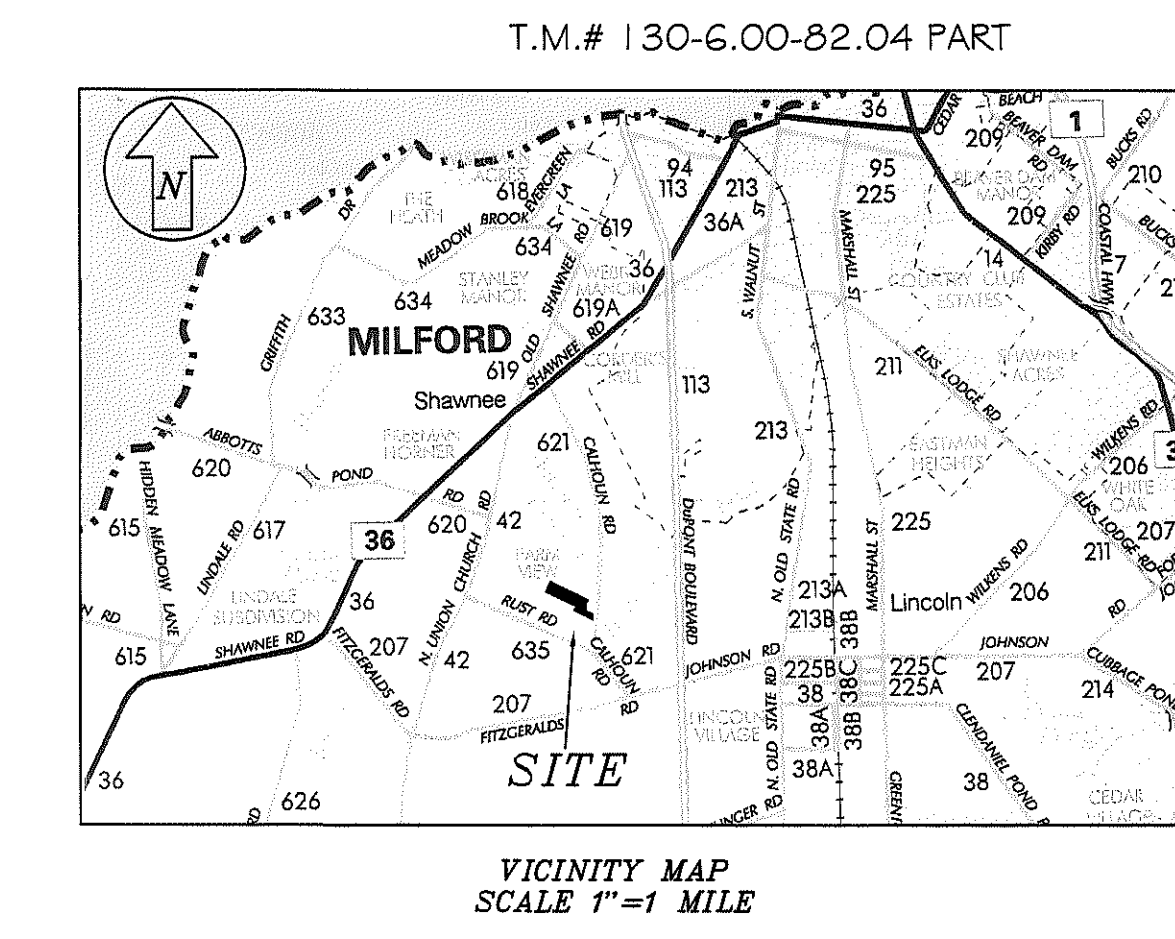
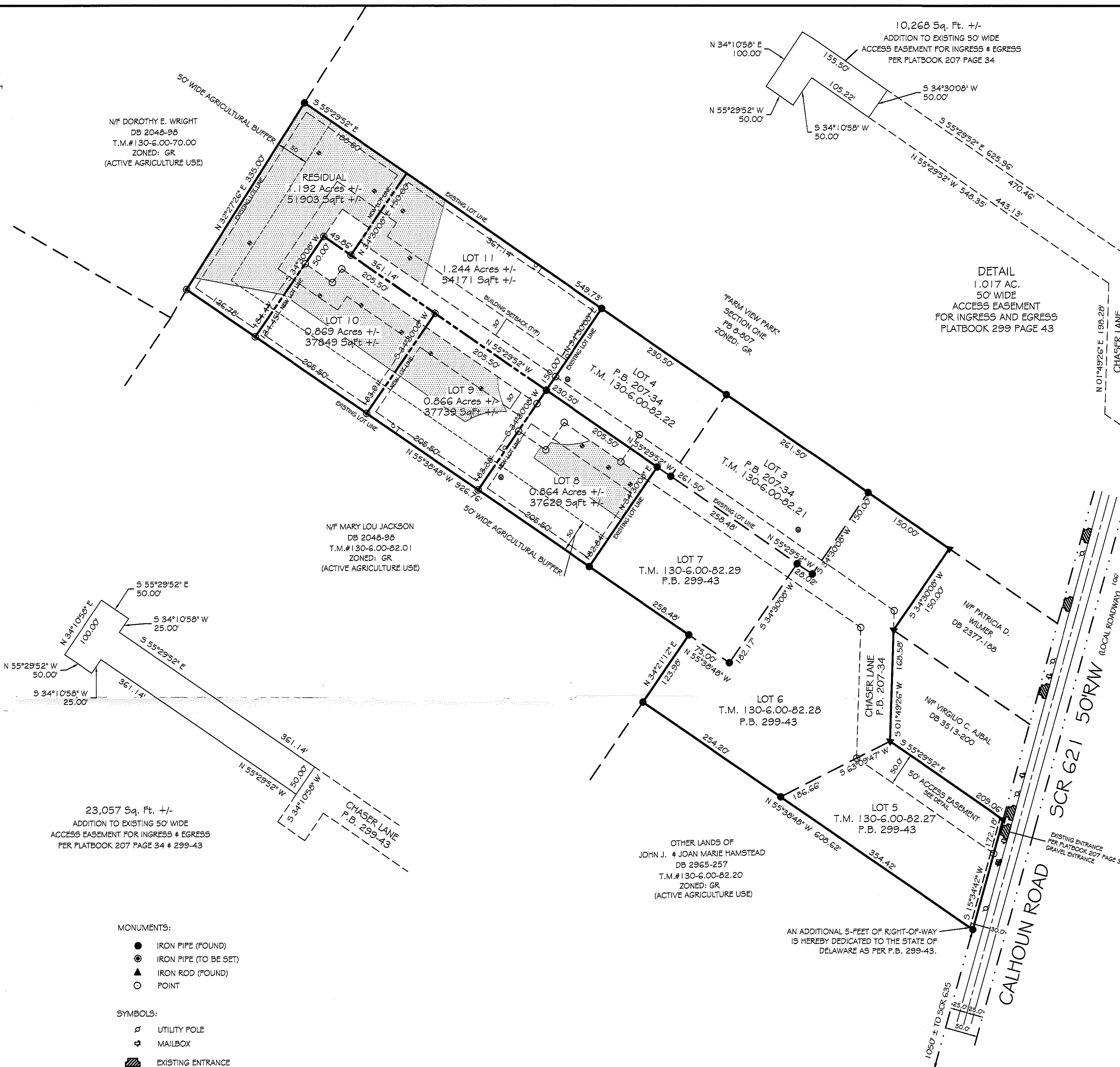
<b>MODEL</b>	TD	1	W	9	1	4	H	4E 18A 21E
Alarm Package		1						
Enclosure Rating			W					
Starting Device				9				
Pump Full Load Amps				1				
Pump Disconnect					4			
Float Switch Application							H	
Options: Redundant off float, Timer override float, SJE PumpMaster®								4E 18A 21E





NOTE: SHRUBBERY, PLANTINGS, SIGNS AND/OR OTHER VISUAL BARRIERS THAT COULD OBSTRUCT THE SIGHT DISTANCE OF A DRIVER PREPARING TO ENTER THE ROADWAY ARE PROHIBITED WITHIN THE DEFINED DEPARTURE SIGHT TRIANGLE AREA ESTABLISHED ON THIS PLAN. IF THE ESTABLISHED DEPARTURE SIGHT TRIANGLE AREA IS OUTSIDE THE RIGHT-OF-WAY OR PROJECTS ONTO AN ADJACENT PROPERTY OWNERS LAND, A SIGHT EASEMENT SHOULD BE ESTABLISHED AND RECORDED WITH ALL AFFECTED PROPERTY OWNERS TO MAINTAIN THE REQUIRED SIGHT DISTANCE.

NF DOROTHY E. WRIGHT  
DB 2048-98  
T.M.#130-6-00-70.00  
ZONED: GR  
(ACTIVE AGRICULTURE USE)



**GENERAL NOTES:**

- IF THE RESIDUAL LANDS OF THE APPLICANT ARE EVER DEVELOPED INTO A MAJOR SUBDIVISION, THEN THE ACCESS TO THE PARCELS CREATED BY THIS MINOR SUBDIVISION PLAN MAY BE REQUIRED TO BE FROM AN INTERNAL SUBDIVISION STREET.
- ALL ENTRANCES SHALL CONFORM TO THE DELAWARE DEPARTMENT OF TRANSPORTATIONS (DEL.D.O.T.S) CURRENT DEVELOPMENT COORDINATION MANUAL (DCM) AND SHALL BE SUBJECT TO ITS APPROVAL.
- THERE IS A FIFTY FOOT BUILDING SETBACK FROM LANDS USED FOR AGRICULTURAL PURPOSES FOR BUILDINGS REQUIRING AN OCCUPANCY APPROVAL FOR A RESIDENTIAL TYPE USE.
- LOTS 8, 9, 10, 11 AND RESIDUAL LAND SHALL HAVE ACCESS TO SCR 621 VIA THE 50' WIDE INGRESS/EGRESS EASEMENT (CHASER LANE).
- THE MAINTENANCE OF THE 50' WIDE ACCESS EASEMENT SHOWN ON THIS PLAN SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER AND/OR DEVELOPER OF THE TRACT, JOHN J. HAMSTEAD, HIS HEIRS AND ASSIGNS.
- THE PROPERTY IS LOCATED IN THE VICINITY OF LAND USED PRIMARILY FOR AGRICULTURAL PURPOSES ON WHICH NORMAL AGRICULTURAL USES AND ACTIVITIES HAVE BEEN AFFORDED THE HIGHEST PRIORITY USE.
- AN 'AGRICULTURAL PROTECTION NOTICE (99-6(G)(1))' IS HEREBY STATED.
- THE SUBDIVISION IS NOT WITHIN A WELLHEAD PROTECTION AREA.
- THE AREA IS LOCATED WITHIN A GOOD GROUNDWATER RECHARGE AREA.

**FIRE MARSHAL NOTES:**

- ALL FIRE LANES, FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE DELAWARE STATE FIRE PREVENTION REGULATIONS.
- MAXIMUM HEIGHT: 3 STORIES, NOT TO EXCEED 42'.
- BUILDING CONSTRUCTION TYPE: NFPA TYPE V WOOD FRAME.
- AUTOMATIC FIRE SPRINKLERS ARE NOT PROPOSED FOR ANY STRUCTURES.

**DATA COLUMN:**  
T.M.#130-6-00-82.04  
ZONING: GR  
GR BULK REQUIREMENTS: WIDTH: 75'  
DEPTH: 100'  
AREA: 32670 SqFt (3/4 Acre)  
THE LOT DENSITY CALCULATION IS 0.8  
BUILDING SETBACKS: FRONT: 30' (FROM CHASER LANE)  
SIDE: 10'  
REAR: 10'  
TRACT AREA: 5.034 ACRES ±  
EXISTING LOTS: 5 (NUMBERS 3 THROUGH 7)  
PROPOSED LOTS: 5 (INCLUDING RESIDUE)  
PRESENT USE: AGRICULTURAL  
PROPOSED USE: RESIDENTIAL  
ACCESS: S.C.R. 621 (CALHOUN ROAD)  
ROADWAY CLASSIFICATION: LOCAL ROADWAY  
WATER AND SEWER: INDIVIDUAL ON-SITE  
100 YEAR FLOODPLAIN: SITE IS NOT IMPACTED  
AS PER FIRM # 100050039J DATED 3/16/15  
THIS PROJECT IS NOT IN THE PROXIMITY OF A TID  
SPEED LIMIT ON CALHOUN RD. IS 50MPH (UNPOSTED)  
NEITHER STATE NOR FEDERAL WETLANDS, OR STANDING  
WATER WAS OBSERVED ON THE SITE.

- MONUMENTS:**
- IRON PIPE (FOUND)
  - ⊙ IRON PIPE (TO BE SET)
  - ▲ IRON ROD (FOUND)
  - POINT
- SYMBOLS:**
- ⊕ UTILITY POLE
  - ✉ MAILBOX
  - ▨ EXISTING ENTRANCE
  - EXISTING WELL
  - SOIL BORING
- LEGEND:**
- EXISTING RIGHT-OF-WAY LINE
  - - - PROPOSED RIGHT-OF-WAY LINE
  - EXISTING PROPERTY LINE
  - - - PROPOSED PROPERTY LINE
  - BUILDING SETBACK LINE
  - CENTERLINE
  - - - NEXT PROPERTY LINE
  - EASEMENT LINE
  - EDGE OF PAVING
  - AGRICULTURAL BUFFER
  - ▨ APPROVED SEPTIC AREA

APPROVED BY:	DATE
CHAIRMAN OR SECRETARY OF PLANNING COMM.	DATE
PRESIDENT OF COUNTY COUNCIL	DATE

THIS SURVEY AND PLAT DOES NOT VERIFY THE EXISTENCE OR NON-EXISTENCE OF RIGHT-OF-WAYS OR EASEMENTS CROSSING THIS PROPERTY. NO TITLE SEARCH PROVIDED OR STIPULATED.	
SURVEY CLASS: SUBURBAN	
DATE	REVISION
12/16/21	P#Z COMMENTS 09/08/21
01/14/22	P#Z COMMENTS 12/28/21

**MILIER LEWIS, INC.**  
LAND SURVEYING  
1560 MIDDLEFORD RD.  
SEAFORD, DELAWARE 19973  
PH: 302-629-8095 FAX: 302-629-2991  
E-MAIL: BOB@GLER@MILLERLEWISINC.COM

HUNDRED	CEDAR CREEK	COUNTY	SUSSEX
STATE	DELAWARE	DRAWN BY	SMS
REF.	DB 2965-257	DWG. FILE	HAMSTEAD
	JUNE 1, 2021		1-30-6-82.04#

I, STEPHEN M. SELLERS REGISTERED AS A PROFESSIONAL LAND SURVEYOR IN THE STATE OF DELAWARE, HEREBY STATE THAT THE INFORMATION SHOWN ON THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND MEETS THE STANDARDS OF PRACTICE AS ESTABLISHED BY THE STATE OF DELAWARE BOARD OF PROFESSIONAL LAND SURVEYORS. ANY CHANGES TO THE PROPERTY CONDITIONS, IMPROVEMENTS, BOUNDARY OR PROPERTY CORNERS AFTER THE DATE SHOWN HEREON SHALL REQUIRE A NEW REVIEW AND CERTIFICATION FOR ANY OFFICIAL OR LEGAL USE.

STEPHEN M. SELLERS, PLS 566 \_\_\_\_\_ DATE \_\_\_\_\_

WE, THE UNDERSIGNED, HEREBY CERTIFY TO THE OWNERSHIP OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT OUR DIRECTION, AND WE ACKNOWLEDGE THE SAME TO BE OUR ACT AND THAT WE DESIRE THE PLAN TO BE RECORDED ACCORDING TO LAW.

\_\_\_\_\_  
JOHN J. HAMSTEAD DATE \_\_\_\_\_

\_\_\_\_\_  
JOAN MARIE HAMSTEAD DATE \_\_\_\_\_

**SUBDIVISION PLAN FOR  
JOHN J. HAMSTEAD**

OWNERS ADDRESS: 10909 BEACH HWY.  
GREENWOOD, DE 19950.  
PHONE: (302) 349-0605  
E-MAIL: HUNTERGREEKHOMES@AOL.COM