

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION				FOR INSURANCE COMPANY USE	
A1. Building Owner's Name Steven Fessler				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 20 Woodmansee Boulevard				Company NAIC Number:	
City Barnegat		State New Jersey		ZIP Code 08005	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 17 Block 205					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential					
A5. Latitude/Longitude: Lat. 39°44'46.09" Long. 74°11'53.62" Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983					
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.					
A7. Building Diagram Number 6					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) 1,027 sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6					
c) Total net area of flood openings in A8.b 1,200 sq in					
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage 0 sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0					
c) Total net area of flood openings in A9.b 0 sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number Township of Barnegat #340396			B2. County Name Ocean		B3. State New Jersey
B4. Map/Panel Number 34029C0502	B5. Suffix F	B6. FIRM Index Date 09/29/2006	B7. FIRM Panel Effective/ Revised Date 09/29/2006	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 6
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source:					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source:					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 20 Woodmansee Boulevard			Policy Number:	
City Barnegat	State New Jersey	ZIP Code 08005	Company NAIC Number	

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings\* ☐ Building Under Construction\* ☒ Finished Construction

\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: GPS observations Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below.

☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: \_\_\_\_\_

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- |   |              |   |
|---|--------------|---|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)   | <u>3. 6</u>  | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor   | <u>15. 5</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only)   | <u>14. 2</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab)  | <u>N/A.</u>  | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | <u>10. 6</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)  | <u>3. 3</u>  | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)   | <u>3. 5</u>  | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support                                  | <u>3. 2</u>  | <input type="checkbox"/> feet <input type="checkbox"/> meters |

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☒ No ☐ Check here if attachments.

Certifier's Name David J. Von Steenburg, P.L.S.		License Number 34500	<div>Place Seal Here</div>
Title P.L.S.			
Company Name Morgan Engineering, LLC			
Address P.O. Box 5232			
City Toms River	State New Jersey	ZIP Code 08754	
Signature 	Date 09/15/2017	Telephone (732) 270-9690	

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

The dwelling sits on pilings with an enclosure. The furnace is lifted in the enclosure at elevation 10.6'. The hot water heater is lifted off the finished floor at elevation 21.4'. The air conditioner unit sits outside on a platform at elevation 25.4'. Engineered flood vent: Smart Vent 1540-520. (200 sq. in.) The dwelling is located in a LIMWA zone and is built to V-Zone standards. Latitude and longitude recorded from Google Earth. Benchmark elevation established through GPS observations and Leica RTK Network. (Preliminary FEMA Zone/Elev - AE8 [34029C0502G - Revised Preliminary January 30, 2015])

(16-01501R)



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City Barnegat	State New Jersey	ZIP Code 08005	Company NAIC Number	
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)				
<p>For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.</p> <p>E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).</p> <p>a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ . _____    <input type="checkbox"/> feet   <input type="checkbox"/> meters   <input type="checkbox"/> above or   <input type="checkbox"/> below the HAG.</p> <p>b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ . _____    <input type="checkbox"/> feet   <input type="checkbox"/> meters   <input type="checkbox"/> above or   <input type="checkbox"/> below the LAG.</p> <p>E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ . _____    <input type="checkbox"/> feet   <input type="checkbox"/> meters   <input type="checkbox"/> above or   <input type="checkbox"/> below the HAG.</p> <p>E3. Attached garage (top of slab) is _____ . _____    <input type="checkbox"/> feet   <input type="checkbox"/> meters   <input type="checkbox"/> above or   <input type="checkbox"/> below the HAG.</p> <p>E4. Top of platform of machinery and/or equipment servicing the building is _____ . _____    <input type="checkbox"/> feet   <input type="checkbox"/> meters   <input type="checkbox"/> above or   <input type="checkbox"/> below the HAG.</p> <p>E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unknown.   The local official must certify this information in Section G.</p>				
SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION				
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.				
Property Owner or Owner's Authorized Representative's Name				
Address		City	State	ZIP Code
Signature		Date	Telephone	
<div>Comments</div> <div><input type="checkbox"/> Check here if attachments.</div>				

FEMA Form 086-0-33 (7/15)

Replaces all previous editions.

Form Page 3 of 6

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IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 20 Woodmansee Boulevard			Policy Number:	
City Barnegat	State New Jersey	ZIP Code 08005	Company NAIC Number	
SECTION G – COMMUNITY INFORMATION (OPTIONAL)				
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.				
G1. <input type="checkbox"/> The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)				
G2. <input type="checkbox"/> A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.				
G3. <input type="checkbox"/> The following information (Items G4–G10) is provided for community floodplain management purposes.				
G4. Permit Number		G5. Date Permit Issued		G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for: <input type="checkbox"/> New Construction <input type="checkbox"/> Substantial Improvement				
G8. Elevation of as-built lowest floor (including basement) of the building: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____				
G9. BFE or (in Zone AO) depth of flooding at the building site: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____				
G10. Community's design flood elevation: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____				
Local Official's Name		Title		
Community Name		Telephone		
Signature		Date		
Comments (including type of equipment and location, per C2(e), if applicable)				
<div><input type="checkbox"/> Check here if attachments.</div>				



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City Barnegat	State New Jersey	ZIP Code 08005	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption Front view



Photo Two

Photo Two Caption Rear view

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City Barnegat	State New Jersey	ZIP Code 08005	Company NAIC Number	
<p>If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.</p>				
<div>Photo One</div>				
Photo One				
Photo One Caption				
<div>Photo Two</div>				
Photo Two				
Photo Two Caption				



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SEP 27 2017

## V ZONE DESIGN CERTIFICATE

BY: \_\_\_\_\_

Name Ryan Fessler Policy Number (Insurance Co. Use) \_\_\_\_\_  
Building Address or Other Description 20 Woodmansee Blvd Blk 205 Lt 17  
Permit No. 16-1083 City Barnesville State MS Zip Code 38805

## SECTION I: Flood Insurance Rate Map (FIRM) Information

Community No. 340396 Panel No. 340240602 Suffix F FIRM Date 9/29/2006 FIRM Zone(s) A30

## SECTION II: Elevation Information Used for Design

[NOTE: This section documents elevations used in the design – it does not substitute for an Elevation Certificate.]

1. Elevation of the Bottom of Lowest Horizontal Structural Member ..... 4.2 feet (NAVD88)
2. Base Flood Elevation (BFE)..... 4 feet (NAVD88)
3. Elevation of Lowest Adjacent Grade ..... 3.2 feet (NAVD88)
4. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design..... 4 feet (NAVD88)
5. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... 13 feet (NAVD88)

## SECTION III: V Zone Design Certification Statement

[NOTE: This section must be certified by a registered engineer or architect.]

I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE; and
- The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood. Wind loading values used are those required by the applicable State or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

## SECTION IV: Breakaway Wall Design Certification Statement

[NOTE: This section must also be certified by a registered engineer or architect when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot.]

I certify that (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:

- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood; and
- The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (wind and water loading values to be used are defined in Section III).

## SECTION V: Certification and Seal

This certification is to be signed and sealed by a registered professional engineer or architect authorized by law to certify structural designs. I certify the V Zone Design Certification Statement in Section III and the Breakaway Wall Design Certification Statement in Section IV (if applicable).

Certifier's Name ROB MUGENUS License Number 21A10(261200)  
Title ARCHITECT Company Name MUGENUS & ASSOCIATES ARCHITECTS  
Address P.O. Box 902 1907 BARNESVILLE, MISSISSIPPI 38805 State MS ZIP 38805  
Signature [Signature] Date 9.25.17 Telephone 601 444-8170

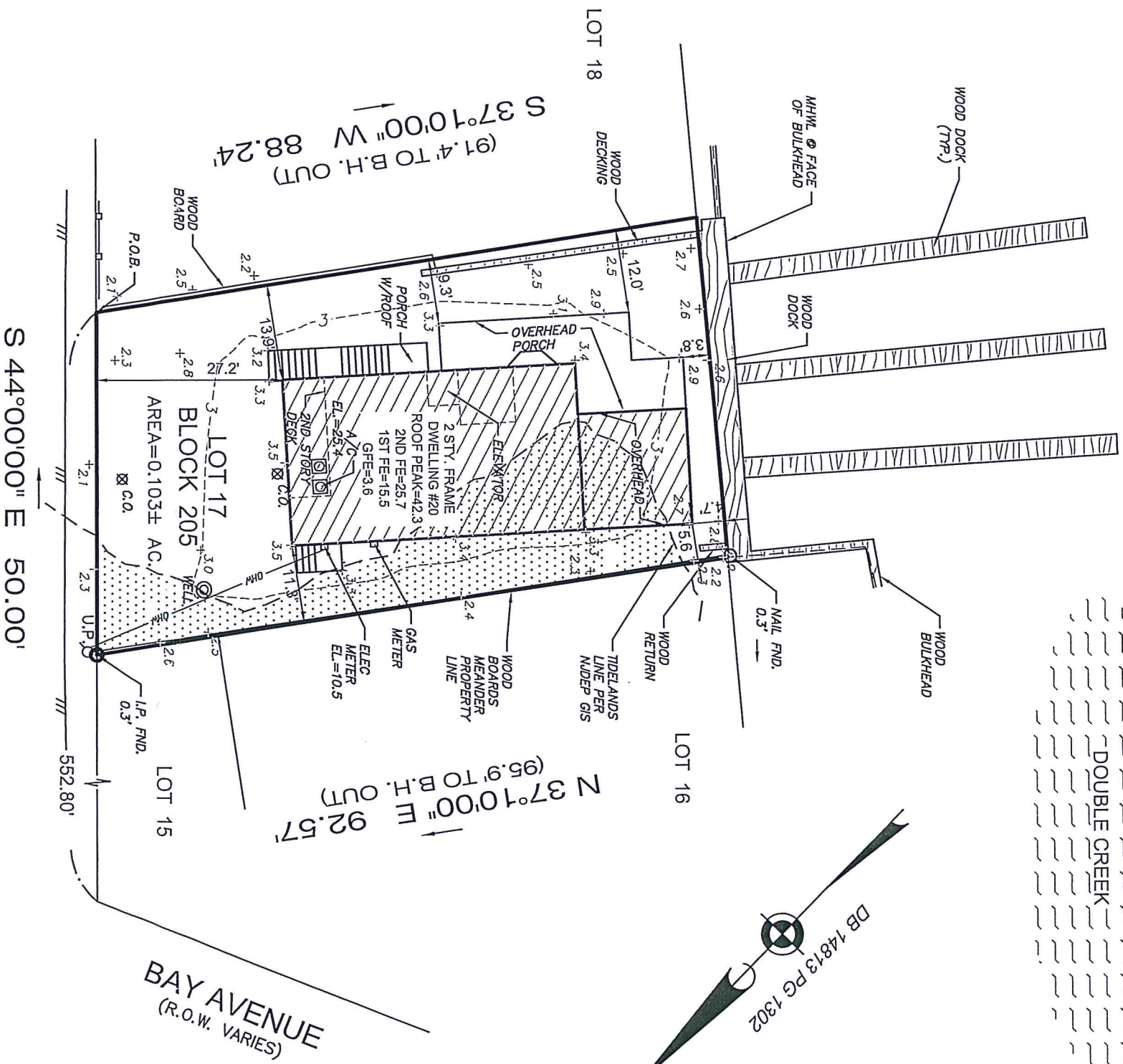
Place Seal  
Here



NO ATTEMPT WAS MADE TO DETERMINE IF ANY PORTION OF THE PROPERTY IS CLAIMED BY THE STATE OF NEW JERSEY AS TIDELANDS, ENVIRONMENTALLY SENSITIVE AREAS, IF ANY ARE NOT LOCATED BY THIS SURVEY. THIS SURVEY IS SUBJECT TO CONDITIONS WHICH AN ACCURATE TITLE SEARCH MIGHT DISCLOSE.

N 48°56'49" W  
49.52'

DOUBLE CREEK



NAIL SET  
ELEV=1.66  
BENCHMARK  
NAVD 1988 DATUM

WOODMANSEE BOULEVARD  
(33' R.O.W.)

PREPARED FOR: STEVEN FESSLER

NOTES:

1. PROPERTY IS LOCATED IN FLOOD ZONE AE ELEV. 6 AS SHOWN ON CURRENT FIRM MAP #34029C0502F, DATED 09/29/2006.
2. PROPERTY IS LOCATED IN FLOOD ZONE VE ELEV. 8 AS SHOWN ON PRELIMINARY FIRM MAP #34029C0502G, DATED 1/30/2015.
3. VERTICAL DATUM IS NAVD88 ESTABLISHED THROUGH GPS OBSERVATIONS AND NGS ONLINE POSITIONING USER SERVICE.

- I DECLARE THAT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF, THIS MAP OR PLAN MADE ON 9/5/17 BY ME OR UNDER MY DIRECT SUPERVISION IS IN ACCORDANCE WITH THE RULES AND REGULATIONS PROMULGATED BY THE STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS.
- THIS SURVEY DOES NOT PURPORT TO IDENTIFY BELOW GROUND ENCROACHMENTS, UTILITIES, SERVICES LINES OR STRUCTURES, WETLANDS, OR RIPARIAN RIGHTS. NO ATTEMPT WAS MADE TO DETERMINE IF ANY PORTION OF THE PROPERTY IS CLAIMED BY THE STATE OF NEW JERSEY AS TIDELANDS, ENVIRONMENTALLY SENSITIVE AREAS, IF ANY ARE NOT LOCATED BY THIS SURVEY.
- OFFSET DIMENSIONS FROM STRUCTURES TO PROPERTY LINES SHOWN HEREON ARE NOT TO BE USED TO REESTABLISH PROPERTY LINES.
- THIS SURVEY IS SUBJECT TO CONDITIONS WHICH AN ACCURATE TITLE SEARCH MIGHT DISCLOSE. SUBJECT TO RESTRICTIONS AND EASEMENTS RECORDED AND/OR UNRECORDED.
- PROPERTY CORNERS HAVE NOT BEEN SET AS PER CONTRACTUAL AGREEMENT. (N.J.A.C. 13:40-5.10)

CERTIFICATE OF AUTHORIZATION: 24GA28229800

**MORGAN**  
engineering & surveying  
P.O. BOX 5232  
TOMS RIVER, N.J. 08754  
TEL: 732-270-9690  
FAX: 732-270-9691  
www.morganengineeringllc.com

FINAL AS-BUILT SURVEY

LOT No. 17

BLOCK No. 205

TOWNSHIP OF BARNEGAT

COUNTY OF OCEAN

NEW JERSEY

Scale: 1"=20' Drawn By: DS Date: 9/5/17 JOB #: 16-01501R CAD File #: FINAL Sheet #: 1 OF 1

DAVID J. VON STEENBURG  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. No. 34500