Transmittal Letter

Solutions, IPEM

Jim Eriksen, PE 303 North Bedford Street Georgetown, DE 19947 p: 302.297.9215

e: jeriksen@solutionsipem.com





April 24, 2024

To:

DE DNREC Division of Water

SWDS

89 Kinas Highway

Attention:

Gregory Pope/Davison Mwale

Re:

Turnberry

Dover, DE 19901 302-739-9946	Job Number: G20076
We are sending you:	
	☐ Under Separate Cover
Delivery via:	
☑ UPS ☐ US Mail ☐ F	ed Ex 🔲 Hand Carried 🔲 Picked up 🔲 Other
Quantity Description	
1 Set of Autumnd	dale Sewer Plans
1 Sewer Narrative	Э
1 Completed App	
	ee (check #108170)
1 \$300 Advertisen	ment Fee (check # 108171)
1 CD w/ digital file	les
1 Sussex County F	P&Z Approval Letter
These are transmitted as ch	
☐ As requested ☒ Fo	or your use Resubmit copies for review Resubmit copies for approval
Comments:	
Copy to:	
50P) 101	
	Signature



Department of Natural Resources and Environmental Control 89 Kings Hwy Dover, DE 19901 dnrec.delaware.gov

Division of Water Commercial and Government Services Section

INSTRUCTIONS FOR COMPLETING THE PERMIT APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

The following items must accompany the application. Please note that incomplete application packages will be returned in their entirety and not reviewed until such time as all required information is received.

- □ 1. A narrative summary of the intended purpose and design of the proposed facilities.
- ≥ 2. One (1) set of final construction plans and specifications, if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only. One (1) electronic copy of final Plans.
- ☑ 3. One (1) electronic copy of final Plans.
- 4. The final plans must be drawn to scale showing slopes, inverts, pipe types and sizes, existing and proposed ground surfaces, tops of manholes, water lines, stormwater and stream crossings, encasements shown in plan and profile, and other information if pertinent or requested.
- 6. A check made payable to the State of Delaware for eight hundred twenty-five dollars (\$825.00), the non-refundable permit review fee. This fee covers the initial review and one follow-up review of any corrections or changes made to address the Division's comments. An additional eight hundred twenty- five dollars (\$825.00) non-refundable review fee must be submitted for resubmission of the plans if changes are made to the project which trigger a complete review of the permit application.
- 7. Your permit will have a public notice requirement if your system includes force mains or pump/lift stations. Include a check made payable to the State of Delaware for three hundred dollars (\$300.00) for the reimbursement of legal notices if the system has a force main connection or a pump/lift station.
- Please submit the completed application package, as outlined above, to DE DNREC, Division of Water, Commercial and Government Services Section, 89 Kings Highway, Dover, DE 19901. Please note, a new application, including the review fee, must be submitted if the Division's comments are not addressed or if requested supplemental information is not provided within one (1) year of the comment or request date.
- $oxed{\boxtimes}$ The following items must be submitted prior to permit issuance:
- 8. Verification from the appropriate county or municipal planning authority that the project has the proper zoning approval.
- 9. A letter from the owner/operator of the wastewater facilities to which the proposed collection and conveyance facilities connect. The letter must include confirmation that the owner/operator has approved the project, that the owner/operator will take responsibility for treating and disposing of the wastewater to be conveyed and that the downstream facilities have the capacity to manage the additional flows without causing or contributing to violations of Delaware's Environmental Protection Act (7 Del. C., Chapter 60) and the regulations promulgated thereafter. This includes, but is not limited to, unauthorized discharges such as overflows at manholes and violations of the treatment system's operating permit (for example, the National Pollutant Discharge Elimination System (NPDES) permit).
 - Visit us on the web at: https://dnrec.alpha.delaware.gov/water/surface-water/

Document last revised: January 11, 2023

Phone: (302) 739-9946

Fax: (302) 739-2296

APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

Application must be complete, typewritten or clearly printed

4/24/2024

Date Application Submitted

		PROJECT INF	ORMATION				
Project Name and Location/ Addre	SS						
Turnberry 23000 Block Hollyville	Road,	Harbeson, DE 19	951				
Tax Parcel Number(s) 234-16.	00 Pa	rcels 1.01, 1.02, 4.	.00, & 5.00				
County		Watershed (www.dnrec.d	lelaware.gov/swc/wa/P	ages/Watersh	nedAssessment.aspx)		
☐ Kent ☐ New Castle ☒ Su	ssex	☐ Chesapeake Bay ☐ DE Bay/Estuary ☑ Inland Bays/Atl Ocean ☐ Piedmont					
Sewer District or Interceptor		Wastewater Treatment/D	isposal Facility Name				
Artesian Wastewater Management Inc.		Stonewater Creek	Wastewater Trea				
Anticipated Construction Start Date		Treatment/Disposal Facility Owner and Operating Permit Number Artesian Wastewater Management Inc. Operating Permit #202221-02					
Please note, construction perm	its expire	three (3) years from the	e date of permit issua	ance.			
Are you requesting plan review	and co	nment or WPCC Constr	uction Permit issuan	ce? (circle c	one)		
Design Flow (gallons/day)			Peak Factor		Basis of Design		
Average 47,520	Peak	190,080	4.0		240 gal/EDU/Day		
Description 196 lot residential community, discharge via forcemain to futu	1 on-site ire Autur	nndale forcemain to exis	sting forcemain in the	site pump st dependence	ation to Subdivision.		
		OWNER/D	EVELOPER				
Company Name Hollyville Buyer, LLC							
Mailing Address							
20184 Phillips Street							
City			State	Zip			
Rehoboth Beach			DE	199	071		
Contact Name							
Tim Green							
E-Mail Address tgreen@schellbrothers	s.com						
Telephone (302) 226-1994		Cell		Fax			

			ENG	INEER						
Company Name										
Solutions IPEM										
Mailing Address										
303 North Bedfo	rd Street									
City				State Zip DF 19947						
Georgetown				DE						
Contact Name										
Jim Eriksen										
E-Mail Address										
jeriksen@solutio	nsipem.con									
Telephone		Cell		Fax						
(302) 297-9215										
		GRAVITY	SEWE	ER INFORMATIO						
Ownership	-									
☐ Public ☒ Private	☑ Residential ☐ Commercial ☐ Industrial ☐ Other?									
Type of Pipe	Length (ft)			nt Specification	Min. Slope (ff/ft)		Min. Velocity (ft/sec)			
PVC SDR 26	9283.10	8 \		all Bell & Spigot	0.0030		2.0			
Ductile Iron Pipe	78.40	10	Wa	all Bell & Spigot	0.0040		2.0			
							(0)			
Minimum Pipe Cover (ft)	Number of M	anholes	_	nanholes provided?	Maxi		ween Manholes (ft)			
4										
Minimum ten foot (10') he vertical separation from w	Ifı	not, explain provision	s to pre	vent cross-contami	nation:					
✓ Yes □ No										
Explain any special challe	nges (for example,	stream, highwa	ay and/o	r railroad crossings, d	irection	al drilling, elevated	l sewers, etc.)			
Comments										
1										

		I	PUMP/LI	IFT ST	Γ Α Ί	TON INFORM	OITAN	N		
Ownership	Type of Wastewater					If Other, list below				
☐ Public ☐ Private	☑ Resid	☐ Residential ☐ Commercial ☐ Industrial ☐ Other?								
Pump Station Flows (gallor							Peak Factor			
Design	Average			Peak			4.0			
	47,5			150,000						
Basis of Design 240 ga	al/EDU/I	Day		Pump Type non-			clog			
		p calc's an		P	Cycle Time (minutes)			Wet Well Detention Time (minutes)		
⊠ Yes □ No	☑ Yes □ No ☑ Yes □ No			ío						
Check valves provided on discharge line?					Gate valves provided on discharge line?					
☑ Yes □ No						☑ Yes ☐ No)			
If not, explain alternate pro	cedure:									
100										
Ventilation provided in wet well? Dry Well?				Is an alarm system include			ded?	e source of power?		
☑ Yes ☐ No ☐ Yes ☒			es 🛭 No			⊠ Yes □ No)		☑ Yes □ No	
What other provisions for emergency operations?										
1					of Effluent Above Pump			Friction Loss (ft)		
				rge head) (ft)			77.03			
6.0 19.1										
Pump Design Point	Pump Ope	rating	oint Static Head (ft)		d (ft)	Total H	Head (ft)		Required Motor Horsepower (hp)	
132GPM @ 105.9ft	133GPN	/I @	28.91 28.91			105.9			12	
			FOR	CE M	A TB	INFORMAT	CION			
Ani			FOR	CE WI	AII	I anoth (ft)	ION		Diamete	ur (in)
Type of Pipe					Length (ft)			4) (m)
C900 PVC				2,744						
Hazen-Williams "C" Design Type of Joints				Velocity Under Design Conditions (ft/sec)			Minimum Pipe Cover (ft		m Pipe Cover (ft)	
Factor 150	A OTTAL DOLLO					3.36 4				
Air relief valves specified? Clean-outs provided?				Maximum distance between clean-outs (ft)						
∀Yes □ No □ Yes ☑ No										
Minimum ten foot (10') ho (18") vertical separation from	rizontal & e	ighteer es mai	n inch ntained?	If not,	exp	lain provisions t	o preven	t cross-co	ntaminatio	on:
☑ Yes ☐ No										
Comments										

Turnberry Sanitary Sewer Narrative

Turnberry is a proposed residential subdivision in Sussex County located on the 23000 block of Hollyville Road. The subdivision will contain 196 single family lots and a pool/pool house. All the residential lots and pool house will be served by a gravity collection system which will discharge into a proposed Artesian Wastewater Management, Inc. pump station. The pump station will discharge via a 4" force main and tie into a future 4" forcemain from the nearby Autumndale subdivision, which will tie into an existing 6" forcemain in the nearby Independence Subdivision. Solutions IPEM has been provided with sewer tie-in locations and elevations along with existing and future pipe sizes, materials, and lengths for pump station design. The sewer system will be owned and maintained by Artesian Wastewater Management, Inc. The system has been designed per Artesian standards.

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
302-854-5079 F
JAMIE WHITEHOUSE, AICP, MRTPI
DIRECTOR

January 28, 2022

Mr. Jason Palkewicz, P.E. Solutions IPEM 303 North Bedford Street Georgetown, DE 19947 By email to: jpalkewicz@solutionsipem.com

Re: Notice of Decision letter for the Preliminary Subdivision Plan for Turnberry (2021-05) (F.K.A. Unity Branch) for the subdivision of a 145.424 acre parcel of land for the creation of one-hundred and ninety-six (196) single-family lots as a cluster subdivision to be located on the southeast side of Hollyville Road (S.C.R. 48)

Tax Parcels: 234-10.00-199.00, 234-16.00-1.01, 1.02, 3.00, 4.00 & 5.00

Dear Mr. Palkewicz,

At their meeting of Thursday, January 27, 2022, the Planning & Zoning Commission approved the Preliminary Subdivision Plan for Turnberry (2021-05) (F.K.A. Unity Branch) for the subdivision of a 145.424 acre parcel of land for the creation of one-hundred and ninety-six (196) single-family lots as a cluster subdivision. The properties are lying on the southeast side of Hollyville Road (S.C.R. 48). The proposed subdivision is not located within the Henlopen Transportation Improvement District (TID). The properties are located in the Agricultural Residential (AR-1) Zoning District and also lie within the Low Density Area per Sussex County's 2019 Comprehensive Plan.

The Preliminary Subdivision Plan is valid for three (3) years from the date of Planning Commission decision. A Final Subdivision Plan shall be approved within three (3) years of the date of approval of the Preliminary Plan or the action of the Planning Commission shall be deemed canceled. Unless an extension is granted, approval shall be rendered null and void if substantial construction is not commenced within five (5) years of the date of recordation of the final plat.

As part of their motion, the Planning Commission acted to approve the development subject to the following conditions (which shall be clearly annotated on the Revised Preliminary and Final Subdivision Plans):

- A. There shall be no more than 196 lots within the subdivision.
- B. The Final Site Plan shall confirm that at least 65% of the site remains as open space.
- C. The developer shall establish a homeowner's association responsible for the maintenance of streets, roads, buffers, stormwater management facilities and other common areas.
- D. The stormwater management system shall meet or exceed the requirements of the State and County. The Final Site Plan shall contain the approval of the Sussex Conservation District for the design and location of all stormwater management areas and erosion and sedimentation control facilities.



January 28, 2022 Notice of Decision Letter Tumberry (2021-05) (F.K.A. Unity Branch) Preliminary Subdivision Plan Page 2

E. There shall be a vegetated or forested buffer that is at least 30 feet wide installed along the perimeter of this subdivision. This buffer shall utilize existing forest or similar vegetation if it exists in the buffer area. Where trees currently exist in the buffer area, stump removal or construction activities that disturb the existing grade of the area within the buffer shall be prohibited. All silt fencing shall be located along the interior limit of the buffer area (the edge of the buffer nearest the interior development) and the Final Site Plan shall identify the "Limit of Disturbance" to prevent disturbance of the buffer area. As stated by the Applicant, all lots shall also be at least 40 feet from the perimeter of the development.

F. As stated by the Applicant, there shall be a buffer that is at least 50 feet wide from Unity Branch. There shall also be a buffer that is at least 50 feet wide from all non-tidal wetlands. There shall be minimum disturbance of trees and other vegetation within these buffer areas. Required silt fencing shall be installed upland of these buffer areas (using the edge of the buffer nearest the interior development) to avoid disturbance. Construction activities within the buffer area shall be minimum. Any disturbance in the buffer area shall be indicated on the Final Site Plan and the "Limits of Disturbance"

shall be indicated on the Final Site Plan.

G. The development shall comply with all DelDOT entrance and roadway improvement requirements.

H. As proffered by the Applicant, sidewalks shall be installed on at least one side of all internal streets with a connection to the DelDOT multimodal path. A system of fully shielded and downward screened streetlighting shall also be provided.

I. Amenities including a pool and poolhouse shall be constructed and open to use by residents of this development on or before the issuance of the 120th residential building permit. The Final Site Plan shall contain details as to the size and location of these amenities.

J. The subdivision shall be served by a publicly regulated central water system providing drinking water and fire protection.

K. Street design shall meet or exceed Sussex County standards.

L. Road naming and addressing shall be subject to the review and approval of the Sussex

County Mapping and Addressing Department.

M. Construction, site work, and deliveries shall only occur on the site between the hours of 7:00AM through 5:00PM, Monday through Friday, and 7:00AM through 2:00PM on Saturdays. No Sunday hours are permitted. A 24-inch by 36-inch "NOTICE" sign confirming these hours in English and Spanish shall be prominently displayed at the site entrance during construction.

N. The Applicant shall coordinate with the local school district regarding the location of a school bus stop within the subdivision. If required by the school district, the location

of a bus stop area shall be shown on the Final Site Plan.

O. The Final Site Plan and Recorded Restrictive Covenants shall state that agricultural activities exist nearby, and they shall include the Agricultural Use Protection Notice.

- P. The Final Site Plan shall include a Landscape Plan depicting all landscaping to be provided or preserved in all of the buffer areas. The Landscape Plan shall also clearly show all forested areas that will be preserved. The Landscape Plan shall also identify all "Limits of Disturbance" within the site.
- Q. The Final Site Plan shall include a Grading Plan for the site. No building permit shall be issued for individual lots until an individual lot grading plan has been supplied to and approved by Sussex County. No Certificate of Occupancy shall be issued until a

January 28, 2022 Notice of Decision Letter Turnberry (2021-05) (F.K.A. Unity Branch) Preliminary Subdivision Plan Page 3

grading certificate is submitted to the Building Code Department demonstrating general conformity with the individual site grading plan.

R. A Revised Preliminary Site Plan either depicting or noting these conditions must be

submitted to the Office of Planning and Zoning.

S. The Final Site Plan shall be subject to the review and approval of the Planning and Zoning Commission.

The Final Subdivision Plan must comply with the County's Zoning and Subdivision Codes, including submission of agency approval letters to the Planning and Zoning Office. The agency approvals required for Final Subdivision Plan approval include but are not limited to: the Sussex Conservation District, Office of the State Fire Marshal, Sussex County Engineering Department, Sussex County Mapping and Addressing Department, Office of Drinking Water (Public Health), the Delaware Department of Transportation (DelDOT) and the local school district with regard to any proposed bus stop provisions.

Once all agency approvals have been obtained, please submit a minimum of one (1) full-size (24 "x 36") and one (1) electronic PDF copy of a Final Subdivision Plan to the Planning and Zoning Office for consideration on the next available agenda for Planning Commission. It is recommended that two (2) copies of a check print are first submitted to staff for review.

Please note that a \$10.00 per lot fee will be required to be paid prior to the approval of any Final Subdivision Plan. For 196 lots, the fee is \$1,960.00.

Please feel free to contact me during business hours with any question from 8:30 AM – 4:30 PM, Monday through Friday, at 302-855-7878.

Sincerely,

Ms. Lauren DeVore

Laur De Von

Planner III

CC: Mr. Andy Wright, Chief Code Official - Building Code

Mr. John Ashman, Director of Utility Planning & Design - Engineering - Utility Planning

Ms. Susan Isaacs, Engineering Project Coordinator - Engineering - Public Works

Mr. Timothy Green, Director of Land Development - Schell Brothers, LLC

Ms. Mackenzie Peet, Esquire - Baird Mandalas Brockstedt, P.A.

Turnberry (2021-05) (F.K.A. Unity Branch) file



OVER 100 YEARS OF SUPERIOR SERVICE

🛕 Artesian Water Maryland 🛕 Artesian Wastewater Maryland

July 26, 2021

Mr. Chris Schell Schell Brothers, LLC 20184 Phillips Street Rehoboth Beach, Delaware 19971

RE: Unity Branch Subdivision Ability to Serve Letter

With reference to your request concerning Water and Wastewater Service (collectively, "Service") for Unity Branch Subdivision Project on Hollyville Road in Indian River Hundred, Sussex County, Delaware, with tax parcel numbers 234-10.00-199.00, 234-16.00-1.01, 234-16.00-1.02, 234-16.00-3.00, 234-16.00-4.00 and 234-16.00-5.00 (the "Property"), please be advised as follows:

Subject to the following conditions, Artesian Water Company, Inc. and Artesian Wastewater Management, Inc. (collectively, "Artesian") are willing and able to provide Service to the Property that meets all applicable State of Delaware, Delaware Department of Natural Resources and Environmental Control, and Sussex County standards. Artesian has the water and wastewater Certificates of Public Convenience and Necessity ("CPCNs") from the Delaware Public Service Commission.

Based on current conditions and subject to the development entity and Artesian entering Water and Wastewater Service Agreements (collectively, "Agreements") that addresses the financial terms of the provision of Service for the Property, in accordance with Artesian's tariff as approved by the Delaware Public Service Commission, Artesian is willing and able to provide the required Service for this Property.

This letter shall expire if Agreements are not executed within one year of the date of this letter.

If you have any questions, please do not hesitate to contact us.

Yours very truly,

Katherine E. Garrison

Katherine E. Garrison Senior Planning Designer

		April 30	, 2024				42
	RCVD FROM	Schell B	rothers LLC				\$825.00
n		Eight H	undred twenty-fiv	e dollars	and 00/100		DOLLARS
	FOR	Plan rev	iew fee WPCC 30	029/24 Tu	nberry		
Ш							
()	ACCT	\$	825.00	х	CHECK#	108170	
	PAYMENT	\$	825.00		CASH		
RECEIP		\$	(•		OTHER	BY	Kevin Bronson
				M			
	D	NREC, S	urface Water Disc	charges S	ection, 89 K	ings Hwy, D	over, DE 19901

/D FROM	Schell Br	others LLC				20000
						\$300.0
	Three Hu	undred Dollars a	nd 00/100			DOLLARS
FOR	WPCC L	egal Notice Rein	nburseme	nt 3029/24		
ACCT	\$	300.00	х	CHECK #	108171	
YMENT	\$	300.00		CASH		
	\$	•		OTHER	BY	Kevin Bronson
	ACCT AYMENT	ACCT \$ AYMENT \$	ACCT \$ 300.00 AYMENT \$ 300.00	ACCT \$ 300.00 X AYMENT \$ 300.00	ACCT \$ 300.00 x CHECK# AYMENT \$ 300.00 CASH	ACCT \$ 300.00 x CHECK# 108171 AYMENT \$ 300.00 CASH