

3080/24

Civil Engineering Associates, LLC

55 West Main Street
Middletown, DE 19709
302-376-8833
302-376-8834 fax

TRANSMITTAL SHEET

TO:	DE DNREC, Division of Water Commercial & Government Services Section	REF:	Dolby North
	89 Kings Highway		Sanitary Sewer Construction Plans
	Dover, DE 19901		
PHONE:	302-739-9946	<input checked="" type="checkbox"/> US MAIL	<input type="checkbox"/> HAND CARRIED
ATTN:		<input type="checkbox"/> UPS	<input type="checkbox"/> TO BE PICKED UP
DATE:	September 19, 2024	<input type="checkbox"/> FED-X	<input type="checkbox"/> OTHER
FROM:	Ronald H. Sutton, Jr.		

IF THE ENCLOSED IS NOT AS NOTED, PLEASE CONTACT US AT ONCE.

		For Your Review
Copies	Description	
1	Sanitary Sewer Construction Plan Set	<div style="border: 2px solid blue; padding: 5px; display: inline-block;"> <p style="color: blue; font-weight: bold; margin: 0;">RECEIVED</p> <p style="color: red; font-weight: bold; margin: 0;">SEP 23 2024</p> <p style="color: blue; font-weight: bold; margin: 0;">DNREC Division of Water</p> </div>
1	Narrative Summary	
1	Check for \$1,150.00	
1	Application	
1	Pump Station Report	
1	CD of PDFs	
1	City of Seaford Approval/Acceptance Letter	

Copies To:	Remarks:
	If there is anything else you may require feel free to contact us.
	Project Ref: 23022



CIVIL ENGINEERING ASSOCIATES
• ENGINEERS • SURVEYORS • CONSTRUCTION SERVICES

55 West Main Street
Middletown, DE 19709

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Phone: 302-376-8833
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September 11, 2024

State of Delaware
Department of Natural Resources
& Environmental Control
Division of Water
89 Kings Highway
Dover, Delaware 19901

**RE: Narrative
Dolby North
Project No.: 21066**

This project is the Major Subdivision of Dolby North (Tax Parcel No. 331-4.00-37.00). It is located approximately 2,630 feet south east of the intersection of Old Furnace Road and State Route 13 (a.k.a Sussex Highway). Dolby North consists of 157 residential lots (single family lots) served by a gravity sewer system and a pump station.

The proposed sewer system has a design flow rate of 39,250 GPD, a daily peak flow of 157,000 GPD, and a peak factor of 4. The wastewater flow from the subdivision is gravity fed to the pump station within Dolby North. The wastewater flow from the pump station will tie into a City of Seaford manhole next to the City of Seaford pump station along State Route 13 (a.k.a Sussex Highway).

The owner/operator is City of Seaford and will be part of the City of Seaford Sewer District. Enclosed are the sanitary sewer and pump station plan sheets from the Construction Improvement Plan Set, Pump Station Design Report, and an approval/acceptance letter from the City of Seaford.



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

Division of Water
Commercial and Government Services Section

Phone: (302) 739-9946
Fax: (302) 739-2296

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 (paper copy), if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only.
- 3. One (1) electronic copy of final Plans.
- 4. The final plans must be drawn to scale showing slopes, invert, 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.
- 5. For pump/lift stations and force mains, include all calculations and pump/performance curves.
- 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.
- 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.delaware.gov/water/commercial-government/>

**APPLICATION FOR THE CONSTRUCTION OF
WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS**

Application must be complete, typewritten or clearly printed

Date Application Submitted _____

PROJECT INFORMATION			
Project Name and Location/ Address Dolby Property (North) ~ 2,630 LF South East of the intersection of Old Furnace Road and Route 13			
Tax Parcel Number(s) 331-4.00-37.00			
County <input type="checkbox"/> Kent <input type="checkbox"/> New Castle <input checked="" type="checkbox"/> Sussex	Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) <input checked="" type="checkbox"/> Chesapeake Bay <input type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont		
Sewer District or Interceptor City of Seaford	Wastewater Treatment/Disposal Facility Name City of Seaford		
Anticipated Construction Start Date	Treatment/Disposal Facility Owner and Operating Permit Number City of Seaford		
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment or <u>WPCC Construction Permit issuance</u> (circle one)			
Design Flow (gallons/day) Average 39,250	Peak 157,000	Peak Factor 4	Basis of Design City of Seaford Public Works
Description			
OWNER/DEVELOPER			
Company Name D.R. Horton, Inc. - New Jersey			
Mailing Address 671 South Carter Road, Suite 6			
City Smyrna	State DE	Zip 19977	
Contact Name Jay Heilman			
E-Mail Address CJHeilman@drhorton.com			
Telephone 302-382-3694	Cell 484-643-3708	Fax	

Owner: **Jay A. Dolby Trustee (c/o Jay Dolby)**
22347 Sussex Highway email: **jay@dolbyandassociates.com**
Seaford, DE 19973

ENGINEER

Company Name **Civil Engineering Associates, LLC**

Mailing Address **55 West Main Street**

City **Middletown** State **DE** Zip **19709**

Contact Name **Ronald H. Sutton, Jr., P.E.**

E-Mail Address **ron@cea-de.com**

Telephone **302-376-8833** Cell **302-547-2444** Fax

GRAVITY SEWER INFORMATION

Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	Type of Sewer System <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?	If Other, list below
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Type of Pipe	Length (ft)	Diameter (in)	Joint Specification	Min. Slope (ft/ft)	Min. Velocity (ft/sec)
SDR-35 PVC	4,941	8	Integral Gasket	0.0028	2

Minimum Pipe Cover (ft) 6.29	Number of Manholes 23	Drop manholes provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Maximum Distance Between Manholes (ft) 400 ft.
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Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If not, explain provisions to prevent cross-contamination: concrete encasement around sewer provided where < 18" separation occurs
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Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.)

Comments

PUMP/LIFT STATION INFORMATION				
Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		Type of Wastewater <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below
Pump Station Flows (gallons/day) Design		Average 39,250	Peak 157,000	Peak Factor 4
Basis of Design 109 GPM			Pump Type Submersible Pump	
Will peak flows be accommodated if largest unit fails? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump calc's and pump curves attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cycle Time (minutes) 10
				Wet Well Detention Time (minutes) 14
Check valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Gate valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If not, explain alternate procedure:				
Ventilation provided in wet well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Dry Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Is an alarm system included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				Alternate source of power? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What other provisions for emergency operations? Backup Generator & SCADA Controls				
Height of Influent Above Pump (suction head) (ft) 6.09		Height of Effluent Above Pump (discharge head) (ft) 14.63		Friction Loss (ft) 47.03
Pump Design Point 109 GPM/61.00'	Pump Operating Point ~1256PM/72'	Static Head (ft) 13.97	Total Head (ft) 61.00	Required Motor Horsepower (hp) 5.0 HP
FORCE MAIN INFORMATION				
Type of Pipe SDR-21 PVC		Length (ft) 3,411 ft		Diameter (in) 4 in
Hazen-Williams "C" Design Factor 140	Type of Joints Integral Gaskets	Velocity Under Design Conditions (ft/sec) > 2 ft/s		Minimum Pipe Cover (ft) 4 ft
Air relief valves specified? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Maximum distance between clean-outs (ft) N/A
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			If not, explain provisions to prevent cross-contamination:	
Comments				



414 High Street | PO BOX 1100
Seaford, DE 19973
302.629.9173
302.629.9307 fax
www.seafordde.com

September 11, 2024

DE DNREC Division of Water, Commercial, and Government Services Section
89 Kings Highway
Dover, DE 19901

RE: Dolby North Subdivision

Dear DNREC,

As per your request, this letter is to verify the property has the correct zoning and that the City has adequate water capacity to service the above referenced project.

This subdivision was approved by the City in August 2024 with the R-2 Medium Density Residential Zoning designation. Single Family dwellings are a use by right in this zone.

The City's waste water treatment facility's capacity is allocated at 2.0 MGD; the daily flows are currently 1.1 MGD. The project has been reviewed and the plans for water/sewer installation and connections have been approved.

Should you require additional information, please feel free to contact me at 302-629-9173.

Sincerely,

Michael Bailey
Building Official

RECEIPT

	September 24th, 2024		110	
RCVD FROM	DRH Inc Controlled Disbr Acct.		\$1,125.00	
	One Thousand One Hundred Twenty Five Dollars and 00/100 <i>DOLLARS</i>			
FOR	WPCC 3080/24 Legal notice and permit application fee - Dolby Property North			
ACCT	\$	1,125.00	x	CHECK # 1890773
PAYMENT	\$	1,125.00		CASH
	\$	-		OTHER BY <i>Kevin Bronson</i>

DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901