



ENGINEERING, LLC

ENGINEERING • PLANNING • CONSTRUCTION MANAGEMENT

February 8, 2019

TDEC Division of Water Resources
Water Pollution Control Unit
William R. Snodgrass TN Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243

RE: **Plans Review**
US Highway 41A Pump Station and Sewer Line Extension- Phase 2
City of Decherd, Franklin County
543-02.02

TN Dept. of Env. & Conservation

FEB 13 2019

Division of Water Resources

Dear Sirs:

Please find enclosed for your review and approval 5 sets of plans for the referenced sanitary sewer line extension project in the City Limits of Decherd, TN. This is considered Phase 2 of a project that you reviewed and approved in 2018 under Wastewater Project Number 17.0834. That project was for the sewer pump station and a portion of the gravity sewer lines up to Manhole 11 along US Hwy 41A. That project excluded the gravity sewer lines from Manhole 11 to Manhole 15. This Phase 2 project is to receive approval of 1,300 LF of 8" PVC SDR 26 gravity sewer line from MH 11 to Manhole 15.

Specifications are per the Decherd Water & Sewer Department's standard specifications. Also enclosed are hydraulic calculations and review fees in the amount of \$150.00.

The system owner is:

Decherd Water & Sewer Department
Mr. Eric Bradford, Director
P.O. Box 488
Decherd, TN 37324
ebradford@decherd.net

If you have any questions or need any additional information, please contact me at (931) 728-2638.

Sincerely,
St. John Engineering, LLC


Scot St. John, P.E.

WPN19-0083
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Cc: Eric Bradford, Decherd Water & Sewer Department

Hydraulic Design Criteria

Date: 2/1/2019

Sheet 1 of 1

Project: US 41A Sewer Extension 543-02.02		Area Served		Total Area Served	Additional Flow	Avg Sewage Flow	Max Sewage Flow	Pipe Diam	Invert Elevations		Sewer Grade	Sewer Fall	Velocity Flowing Full	Capacity Flowing Full	Velocity at Max Flow
		From MH	To MH						Length	Length					
Street															
Main Line to North	11	12	400	1	4		0.0535	0.2139	8	946.67	945.07	1.60	2.68	0.83	1.78
	12	13	400	1	3		0.0401	0.1604	8	948.37	946.77	1.60	2.68	0.83	1.69
	13	14	150	0	2		0.0267	0.1069	8	949.07	948.47	0.60	2.68	0.83	1.50
	14	15	350	2	2		0.0267	0.1069	8	951.59	949.17	2.42	3.29	1.08	1.79

Notes: Assumed 6 gpm/ commercial lot and peaking of 4



CT Dept. of Env. & Conservation
 FEB 13 2019
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