

McGuire Engineering, LLC

Civil Engineering · Land Planning

March 12, 2018

Manager, Municipal Facilities Section
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
6th Floor, L&C Annex
401 Church Street
Nashville, TN 37243-1534

**RE: White Oak PD Phase 2
Sanitary Sewer Plans
Arlington, TN**

TN Dept. of Env. & Conservation

MAR 21 2018

Division of Water Resources

#002081

To Whom It May Concern:

Attached please find three (3) sets of signed sewer construction plans, hydraulic calculations, and a check for review fees. The plans show 1492 lf of 8" gravity sewer to be constructed for a new residential subdivision and ties into an existing 8" main in the Arlington public sewer system. The system flows to the Northwestern Wastewater Treatment Plant in the Town of Arlington.

If you have any questions, please contact me at (901) 854-3420.

Sincerely,

Mark McGuire, PE
President



WPN18 0180

WPN 18 0180

Town of Arlington

5854 Airline Road
PO Box 507
Arlington, TN 38002



P: 901.867.2620
F: 901.867.2638

February 27, 2018

Mr. Mark McGuire, P.E.
McGuire Engineering
289 Miss Camryn Lane
Collierville, TN 38017

WPN 18.0180
WPN 18.0181

RE: WHITE OAK 1ST ADDITION
PHASES 2 & 3
ARLINGTON, TENNESSEE

Dear Mr. McGuire:

I have reviewed your sewer plans for the above referenced projects, and they are acceptable to the Town of Arlington. The existing wastewater system has adequate capacity to handle the projected flow from these developments. These sewer lines will become part of the public sewer system upon completion of construction and acceptance of White Oak 1st Addition, Phases 2 and 3 by the Town of Arlington. You are hereby authorized to submit these plans to the State of Tennessee Department of Environment and Conservation for their review and approval.

If you have questions or need additional information, please give me a call.

Sincerely,

Steve Hill, P.E.
Town Engineer

/sh

cc: Ms. Cathy Durant
Mr. Terry Perkins
Ms. Angela Reeder
Mr. Jason Allen

**Board of
Mayor &
Aldermen**

Mike Wissman
Mayor

Harry McKee
Vice Mayor

Larry Harmon
Alderman

Cheryl Pardue
Alderman

Jeff McKee
Alderman

Oscar Brooks
Alderman

Jeremy Biggs
Alderman

SANITARY SEWER FLOW CALCULATIONS

JOB TITLE: **White Oaks PD Phase 2**
 LOCATION: ARLINGTON, TN
 DATE: 12-Mar-18

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LOCATION	FROM SMH	INVERT ELEVATION	TO SMH	INVERT ELEVATION	LEN (FT)	# LOTS SERVED	AVERAGE FLOW(CFS)	PEAK FLOW(CFS)	PIPE DIA(IN)	GRD %	FULL VEL(FPS)	FULL CAP(CFS)	VEL (FPS)
Bulrush Drive	plug 1	344.74	1	339.40	152	18	0.019	0.039	8	3.52	6.49	2.27	2.07
Bulrush Drive	1	339.30	2	337.74	105	20	0.022	0.043	8	1.49	4.23	1.47	1.70
Bulrush Drive	2	337.64	3	337.20	88	22	0.024	0.048	8	0.50	2.45	0.85	1.27
Bulrush Drive	3	337.10	4	334.71	239	18	0.019	0.039	8	1.00	3.46	1.21	1.56
Bulrush Drive	4	334.61	5	330.63	246	33	0.036	0.071	8	1.62	4.41	1.54	2.11
Linden Oak Drive North	plug 2	325.03	6	324.83	20	19	0.021	0.041	8	1.00	3.46	1.21	1.56
Linden Oak Drive North	6	324.73	7	321.08	385	27	0.029	0.058	8	1.00	3.46	1.21	1.66
Linden Oak Drive North	7	320.98	ex. Plug 8	319.60	257	32	0.035	0.069	8	0.50	2.45	0.85	1.41

