

WAUFORD

J. R. Wauford & Company, Consulting Engineers, Inc.
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WPN 16-0915

November 11, 2016

RECEIVED

NOV 15 2016

TN DEPT. OF ENVIRONMENT
AND CONSERVATION
DIVISION OF WATER RESOURCES

TDEC Division of Water Resources
Municipal Facilities Section
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

RE: S.R. 50 Utility Relocation - Sewer
Marshall County, Tennessee
Wauford Project No. 2002

To Whom It May Concern:

Enclosed you will find four (4) sets of the plans and specifications for the subject project along with a set of design notes and the plans review fee. The existing sewer system is being modified to accommodate a TDOT road project.

Please do not hesitate to contact me if you need additional information or have questions.
Thanks.

Yours very truly,

J. R. WAUFORD & COMPANY,
CONSULTING ENGINEERS, INC.

Robert S. Qualman

Robert S. Qualman, Jr., P.E.
Manager of Construction Services

RSQ:lan

Enclosures

cc: Trigg Cathey, Lewisburg

WPN 16-0915

Hydraulic Design Criteria for Sewers

PROJECT: Lewisburg Hwy 50 TDOT Relocation Wauford Project No. 2002 STREET	FROM MH	TO MH	LENGTH MH	AREA SERVED	TOTAL AREA SERVED ACRES	Q per ACRE MGD	AVG SEWAGE FLOW MGD	MAX SEWAGE FLOW MGD	PIPE DIAM. IN	INVERT ELEVATIONS		SEWER GRADE %	SEWER FLOW FT	VELOCITY FLOWING FULL FPS	CAPACITY FLOWING FULL MGD
										UPPER MH	LOWER MH				
SR 50	51.2	51.1	226.58	*	*	.004	*	*	8	729.80	728.80	.44	1.00	2.2	.45
	51.1	54	143.02			.004			8	728.80	728.17	.44	.63	2.2	.45
	52.4	52.3	188.35			.004			12	732.32	731.94	.20	.38	2.0	1.05
	52.3	52.2	206.05			.004			12	731.74	731.32	.20	.42	2.0	1.05
	52.2	52.1	174.25			.004			12	731.32	730.97	.20	.35	2.0	1.05
	52.1	52	61.04			.004			12	730.87	730.75	.20	.12	2.0	1.05
	53.41	53.4	140.00			.004			8	745.00	742.00	2.14	3.00	4.6	1.05
	53.5	53.4	115.00			.004			8	740.50	739.93	.50	.57	2.3	.48
	53.4	53.3	236.43			.004			8	739.73	736.42	1.40	3.31	3.8	.75
	53.3	53.2	111.48			.004			8	736.22	733.45	2.48	2.77	5.0	1.15
	53.2	53.1	231.54			.004			8	733.45	732.72	.40	.73	2.0	.45
	53.1	5-3	164.15			.004			8	732.52	731.86	.40	.66	2.0	.45
	53.2	53.2.1	80.00			.004			8	733.82	733.50	.40	.32	2.0	.45
	53.2.1	53.2	12.33			.004			8	733.50	733.45	.40	.05	2.0	.45
	53.1.1	53.1	91.26			.004			8	733.83	732.72	1.22	1.11	3.5	.75
	53.4.1	56	90.00			.004			8	743.22	742.32	1.00	.90	3.2	.70
	54.5	54.4	127.78			.004			8	730.00	718.08	1.50	1.92	3.9	.90
	54.4	54.3	37.95			.004			8	717.93	717.36	1.50	.57	3.9	.90
	54.3	54.2	370.00			.004			8	717.21	710.00	1.95	7.21	4.5	1.05
	54.2	54.1	280.00			.004			8	710.00	701.75	2.95	8.25	5.5	1.25
	54.1	54	184.27			.004			8	701.50	700.58	.50	.92	2.3	.50
	55.3	55.2	67.00						18	697.50	697.18	.48	.32	Transmission	
	55.2	55.1	167.24						18	696.97	696.17	.48	.80	Line	
	55.1	55	48.70						18	695.91	695.74	.35	.17	"	
	55.1.2	55.1.1	193.62			.004			10	706.24	703.73	1.30	2.51	4.4	1.60
	55.1.1	55.1	45.09			.004			10	703.73	696.74	15.50	6.99	7.5+	2.60+
	57.2	57.1	165.00			.004			8	732.00	728.04	2.40	3.96	4.9	1.10
	57.1	57	190.14			.004			8	728.04	723.48	2.40	4.56	4.9	1.10

* - Existing sewers and MH's are being moved a short distance to accommodate a road widening TDOT project. No new customers are added to the system.