TENNESSEE DEPARTMENT OF TRANSPORTATION STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

COUNTY:	L. PIN NUM	9006-0240-04 AUDERDAL IBER: 124 TION: BF	E 637.00	ER O	VERFLO	ROUTE: CITY:	S.R. 87			
MAINTEN S.T.I.D. PROG. DE PUBLIC T YEAR PRO PROJECTE	NANCE EVELOP TRANS. O DJECT PR ED LETT	MENT & A & AERO. GOGRAMME ING DATE:	DM. [ED FOR CO]]] ONST	RUCTION	PAVEMEN STRUCTU SURVEY & TRAFFIC S OTHER	RES & ROAL SIGNAL	OWAY DE DESIGN		
BASE Y	FAR		DES	IGN Y	EAR		ROA	SIGN DWAY RUCKS	DES AVEI DAILY	RAGE
AADT	YEAR	AADT	DHV	1%	YEAR	DIR.DIST.	DHV	AADT	FLEX	RIGID
410	2022	490	64	13	2042	65-35	9	14	39	59
REQUEST	ED BY:	NAME DIVISION ADDRESS	S.T.I.D J.K. PC	LK B	LDG. , TN. 372	43		DATE	2/28/18	_
		TATION	STRONG Tom DATE 2.28.18 TATION MANAGER I , JAMES K. POLK BUILDING						<u>8</u>	
APPROVE.	D BY:	JIM WATEI ASSISTANT SUITE 1000	DIRECT		K BUILI	DING	1	DAT	E <u>3/1/</u> /	18

COMMENTS:

THIS TRAFFIC BASED ON 2017 CYCLE COUNTS. THE DESIGN YEAR TRAFFIC IS BASED ON GROWTH RATE FROM THE ADAM COMPUTER PROGRAM.

DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 AADT.

TENNESSEE DEPARTMENT OF TRANSPORTATION STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

PROJECT NO.:	49006-0240-04	ROUTE NO.: S.R. 87
COUNTY: LAUDE	ERDALE	CITY:
PROJECT DESCRI	PTION: BRIDGE OVER OVERFLOW	N @ L.M. 3.88

FAP Rural

Pavement Structural Design

Calculation of Equivalent Daily 18 Kip Single Axle Loads

		ADT	Ĩ	Flexible			Т	Rigid		
Тур	pe Vehicle	(No. Counted)		18-kip Factor	Ţ	ADL		18-kip Factor	Τ	ADL
Pass. c	ars and				T		Т		Г	
motorc	ycles (1-2)	278		0.001		0		0.001		0
Pick-up	, Panel,		ĺ		T		Т		Γ	
Van	(3)	109		0.005		1		0.004		0
	Buses (4)	2		0.300	I	11	T	0.300		11
Sing.	2-axle,		ij		T		T			
	6-tire (5)	4		0.240		1		0.310		1
Unit	3-axle or		ì		T		Т	1		
	more (6-7)	8		1.700		14		2.300		18
	4-axle (8)	15	Ì	1.110	Ι	17		1.500		23
Comb.	5-axle or				T		T		l	
	more (9-13)	34		1.320		45		2.200		75
	Totals				Ī		T			
(20	32 AADT)	450				78			L	118

Suggested Percentages of Trucks in Design Lane

5,000 or less ADT	95%
5,000 - 10,000 ADT	90%
10,000 - 15,000 ADT	85%
15,000 - 20,000 ADT	80%
20,000 - 30,000 ADT	75%
30,000 - 40,000 ADT	70%
40,000 Plus	60%

No. of Lanes:	2
% Trucks in Design Lane:	100%
ADL in Decign Lone:	

ADL in Design Lane:

FLEX:	0.5	X	1.00	X	77.5	=	39	
RIGID:	0.5	Х	1.00	Х	118.3	=	59	

ADL Calculations By:	RANDY BOGUSKIE	Date:	2/28/2018
Reviewed By:	Tone Kunter	Date: Z	·28·(8
[REV. 7/1/14]	1 19 10		

MSLINK	1 -				
ID_NUMBER	49SR087001	医腹膜 基基	\mathcal{N}		
BLM	3.88	20 16 16 20	\sim		
NBR_STRCT	49SR08700111		\ *\	FILE OF	
NBR_TENN_CNTY	LAUDERDALE		/ \\		
NBR_RTE	SR087	No gan ⊞e			Ball Rice Da
			L DERDALE		
	A THE STREET STREET			DATE OF THE PARTY	

LAUDERDALE COUNTY 5.R. 87@L.M. 3.88