December 21, 2022

Mr. Bruce E. Albright
1210 E Frazee Ave
Vergas, MN 56587

Re: Speed Study on CSAH 4 and CSAH 60 in Vergas

Dear Bruce:

Based on your request for a Speed Study on a section of County State Aid Highway (CSAH) 4 and CSAH 60 in Vergas, dated February 7, 2021, the Otter Tail County Board of Commissioners adopted Resolution 2021-32 on February 23, 2021 that the Minnesota Department of Transportation (Mn/DOT) proceed with a study in this area.

Mn/DOT has completed their study and are not recommending any changes to the speed limit in this area. Attached for your information is a copy of their letter and study results dated December 19, 2022.

We will be revising the 55 mph speed limit sign with an End 40 mph sign as recommended.

If you have any questions or require more information, please feel free to contact me at any time.

Sincerely,
Otter Tail County Highway Department

Charles H. Grotte, P.E.
County Engineer

Cc: File
    Matthew Yavarow, Assistant County Engineer
    Ricky Swanberg, Lead Sign Technician
    Julie Lammers, City of Vergas

DEPARTMENT OF TRANSPORTATION

MnDOT District 4
1000 Highway 10 West
Detroit Lakes, MN 56501

December 19, 2022

Charles H. Grotte, P.E.
County Engineer
Otter Tail County Highway Dept.
505 South Court Street, Suite 1
Fergus Falls, MN 56537

Dear Mr. Grotte,

MnDOT received a speed study request for County State Aid Highways (CSAH) 4 and 60 in the City of Vergas. The speed study was requested by a Resolution from the Otter Tail County Board of Commissioners on behalf of the City of Vergas.

MnDOT has completed the speed study for this section of CSAH 60 on the northwest end of Long Lake at the intersection of CSAH 4. A radar check was conducted on CSAH 60 where the current posted speed limit is 40 mph westbound entering the City of Vergas and 55 mph eastbound leaving the City of Vergas. The radar check showed that the 85th percentile speed was 48 mph for vehicles traveling eastbound, and 47 mph for vehicles traveling westbound. The 85th percentile speed reflects a safe speed for existing conditions as perceived by most of the drivers. Speed checks north of CSAH 60 on CSAH 4 were not conducted as this is a stop condition for a T-intersection.

While the road curves around the lake in this area, there appears to be adequate sight lines for the existing intersections. To address the numerous driveways on this stretch of roadway, the county has striped this section as no passing.

MnDOT also researched the crashes for the last five years along CSAH 60 within the study area. The crash reports showed that there were 4 crashes in the last 5 years on this segment of road. There were no injuries resulting from the crashes.

Based on the information above, a reduction in the current 40 mph speed limit is not recommended. The present speed limit is appropriate for CSAH 60 in the area requested to be studied. The existing 55 mph speed limit sign on the north side of Long Lake was installed by MnDOT when this roadway was MN TH 228. One suggestion for consideration would be to remove the eastbound 55 mph speed limit sign and replace it with an End 40 mph sign. The 55 mph speed limit sign is not required as this is a statutory speed limit. The End 40 mph sign will reinforce the existing speed limit and may discourage drivers from speeding up as they leave the City of Vergas prior to the intersection of CSAH 4.

Thank you for your request.

Sincerely,

Trudy A. Kordosky

Trudy A. Kordosky
District Traffic Engineer

CC: Nathan Gannon, DSAE

Equal Opportunity Employer

FIELD SPEED SURVEY SUMMARY

Road # OTC 60   Zone 40 MPH   Location BEACH/RA ENTRANCE
Ref. Pt.   Time 6:30-8:30 AM
County OTTER TAIL   Weather CLEAR   Road Type 2-lane
Date 6/7/2021   Machine   NB: 85th %ile 63 MPH   Pace 53 to 62
Day Monday   Observer(s)   SB: 85th %ile 62 MPH   Pace 52 to 61

PASSENGER VEHICLES

| SPEED (mph) | NORTH BOUND EAST BOUND | | | | SPEED (mph) | SOUTH BOUND | | | |
| | INDIVIDUAL VEHICLES | | ACCUMULATED VEH. | | | INDIVIDUAL VEHICLES | | ACCUMULATED VEH. | |
	# of vehicles	% vehicles	# of vehicles	% vehicles		# of vehicles	% vehicles	# of vehicles	% vehicles
80		0.0%	110	100%	80		0.0%	96	100%
79		0.0%	110	100%	79		0.0%	96	100%
78		0.0%	110	100%	78		0.0%	96	100%
77		0.0%	110	100%	77		0.0%	96	100%
76	1	0.9%	110	100%	76		0.0%	96	100%
75		0.0%	109	99%	75		0.0%	96	100%
74		0.0%	109	99%	74		0.0%	96	100%
73		0.0%	109	99%	73		0.0%	96	100%
72		0.0%	109	99%	72		0.0%	96	100%
71	1	0.9%	109	99%	71	2	2.1%	96	100%
70		0.0%	108	98%	70		0.0%	94	98%
69		0.0%	108	98%	69		0.0%	94	98%
68	1	0.9%	108	98%	68		0.0%	94	98%
67		0.0%	107	97%	67		0.0%	94	98%
66	1	0.9%	107	97%	66	1	1.0%	94	98%
65	4	3.6%	106	96%	65	4	4.2%	93	97%
64	6	5.5%	102	93%	64	3	3.1%	89	93%
63	3	2.7%	96	87%	63	4	4.2%	86	90%
62	4	3.6%	93	85%	62	4	4.2%	82	85%
61	5	4.5%	89	81%	61	5	5.2%	78	81%
60	11	10.0%	84	76%	60	6	6.3%	73	76%
59	5	4.5%	73	66%	59	10	10.4%	67	70%
58	15	13.6%	68	62%	58	2	2.1%	57	59%
57	11	10.0%	53	48%	57	10	10.4%	55	57%
56	12	10.9%	42	38%	56	12	12.5%	45	47%
55	9	8.2%	30	27%	55	9	9.4%	33	34%
54	3	2.7%	21	19%	54	9	9.4%	24	25%
53	9	8.2%	18	16%	53	6	6.3%	15	16%
52	3	2.7%	9	8%	52	6	6.3%	9	9%
51	2	1.8%	6	5%	51	1	1.0%	3	3%
50	2	1.8%	4	4%	50	2	2.1%	2	2%
49	1	0.9%	2	2%	49		0.0%	0	0%
48	1	0.9%	1	1%	48		0.0%	0	0%
47		0.0%	0	0%	47		0.0%	0	0%
46		0.0%	0	0%	46		0.0%	0	0%
45		0.0%	0	0%	45		0.0%	0	0%
44		0.0%	0	0%	44		0.0%	0	0%
43		0.0%	0	0%	43		0.0%	0	0%
42		0.0%	0	0%	42		0.0%	0	0%
41		0.0%	0	0%	41		0.0%	0	0%
40		0.0%	0	0%	40		0.0%	0	0%

FIELD SPEED SURVEY SUMMARY

Road # OTC 4
Ref. Pt.
County Otter Tail
Date 8/16/2019
Day Friday

Zone 55 MPH
Time 7:30 AM
Weather clear
Machine
Observer(s)

Location Just east of OTC 60

Road Type 2-lane
NB: 85th %ile 63 MPH Pace 56 to 65
SB: 85th %ile 64 MPH Pace 58 to 67

PASSENGER VEHICLES

SPEED (mph)	NORTH BOUND / EAST BOUND INDIVIDUAL VEHICLES # of vehicles	% vehicles	ACCUMULATED VEH. # of vehicles	% vehicles	SPEED (mph)	SOUTH BOUND INDIVIDUAL VEHICLES # of vehicles	% vehicles	ACCUMULATED VEH. # of vehicles	% vehicles
80		0.0%	76	100%	80		0.0%	53	100%
79	1	1.3%	76	100%	79		0.0%	53	100%
78		0.0%	75	99%	78		0.0%	53	100%
77		0.0%	75	99%	77		0.0%	53	100%
76		0.0%	75	99%	76		0.0%	53	100%
75		0.0%	75	99%	75		0.0%	53	100%
74		0.0%	75	99%	74		0.0%	53	100%
73		0.0%	75	99%	73		0.0%	53	100%
72		0.0%	75	99%	72	1	1.9%	53	100%
71		0.0%	75	99%	71		0.0%	52	98%
70		0.0%	75	99%	70		0.0%	52	98%
69		0.0%	75	99%	69		0.0%	52	98%
68	1	1.3%	75	99%	68	1	1.9%	52	98%
67	1	1.3%	74	97%	67	1	1.9%	51	96%
66	1	1.3%	73	96%	66	2	3.8%	50	94%
65	5	6.6%	72	95%	65	2	3.8%	48	91%
64	2	2.6%	67	88%	64	2	3.8%	46	87%
63	1	1.3%	65	86%	63	2	3.8%	44	83%
62	4	5.3%	64	84%	62	4	7.5%	42	79%
61	5	6.6%	60	79%	61	6	11.3%	38	72%
60	7	9.2%	55	72%	60	2	3.8%	32	60%
59	3	3.9%	48	63%	59	6	11.3%	30	57%
58	3	3.9%	45	59%	58	5	9.4%	24	45%
57	7	9.2%	42	55%	57	1	1.9%	19	36%
56	3	3.9%	35	46%	56	1	1.9%	18	34%
55	2	2.6%	32	42%	55	3	5.7%	17	32%
54	1	1.3%	30	39%	54	2	3.8%	14	26%
53	2	2.6%	29	38%	53	1	1.9%	12	23%
52	2	2.6%	27	36%	52	3	5.7%	11	21%
51	3	3.9%	25	33%	51	2	3.8%	8	15%
50	6	7.9%	22	29%	50	3	5.7%	6	11%
49	1	1.3%	16	21%	49		0.0%	3	6%
48	2	2.6%	15	20%	48		0.0%	3	6%
47	7	9.2%	13	17%	47		0.0%	3	6%
46	1	1.3%	6	8%	46	3	5.7%	3	6%
45	1	1.3%	5	7%	45		0.0%	0	0%
44	2	2.6%	4	5%	44		0.0%	0	0%
43		0.0%	2	3%	43		0.0%	0	0%
42		0.0%	2	3%	42		0.0%	0	0%
41		0.0%	2	3%	41		0.0%	0	0%
40	2	2.6%	2	3%	40		0.0%	0	0%

Otter Tail Co 4 just east of OTC 60s.xls

FIELD SPEED SURVEY SUMMARY

Road # OTC 60   Zone 40 MPH   Location Loon Lake Park Entrance
Ref. Pt. _____   Time 7:30 AM
County Otter Tail   Weather clear   Road Type 2-lane
Date 8/15/2019   Machine _____   EB: 85th %ile 47 MPH Pace 38 to 47
Day Thursday   Observer(s) _____   WB: 85th %ile 48 MPH Pace 37 to 46

PASSENGER VEHICLES

| SPEED (mph) | EAST BOUND | | | | SPEED (mph) | WEST BOUND | | | |
| | INDIVIDUAL VEHICLES | | ACCUMULATED VEH. | | | INDIVIDUAL VEHICLES | | ACCUMULATED VEH. | |
	# of vehicles	% vehicles	# of vehicles	% vehicles		# of vehicles	% vehicles	# of vehicles	% vehicles
60		0.0%	146	100%	60		0.0%	98	100%
59		0.0%	146	100%	59	1	1.0%	98	100%
58		0.0%	146	100%	58		0.0%	97	99%
57		0.0%	146	100%	57		0.0%	97	99%
56		0.0%	146	100%	56		0.0%	97	99%
55		0.0%	146	100%	55		0.0%	97	99%
54	1	0.7%	146	100%	54	1	1.0%	97	99%
53		0.0%	145	99%	53		0.0%	96	98%
52		0.0%	145	99%	52	1	1.0%	96	98%
51	1	0.7%	145	99%	51	3	3.1%	95	97%
50	3	2.1%	144	99%	50	2	2.0%	92	94%
49	3	2.1%	141	97%	49	5	5.1%	90	92%
48	6	4.1%	138	95%	48	3	3.1%	85	87%
47	8	5.5%	132	90%	47		0.0%	82	84%
46	8	5.5%	124	85%	46	4	4.1%	82	84%
45	9	6.2%	116	79%	45	4	4.1%	78	80%
44	13	8.9%	107	73%	44	3	3.1%	74	76%
43	17	11.6%	94	64%	43	9	9.2%	71	72%
42	9	6.2%	77	53%	42	7	7.1%	62	63%
41	11	7.5%	68	47%	41	8	8.2%	55	56%
40	12	8.2%	57	39%	40	10	10.2%	47	48%
39	13	8.9%	45	31%	39	5	5.1%	37	38%
38	12	8.2%	32	22%	38	14	14.3%	32	33%
37	7	4.8%	20	14%	37	5	5.1%	18	18%
36	3	2.1%	13	9%	36	1	1.0%	13	13%
35	4	2.7%	10	7%	35	2	2.0%	12	12%
34	4	2.7%	6	4%	34	5	5.1%	10	10%
33		0.0%	2	1%	33	1	1.0%	5	5%
32	2	1.4%	2	1%	32	3	3.1%	4	4%
31		0.0%	0	0%	31	1	1.0%	1	1%
30		0.0%	0	0%	30		0.0%	0	0%
29		0.0%	0	0%	29		0.0%	0	0%
28		0.0%	0	0%	28		0.0%	0	0%
27		0.0%	0	0%	27		0.0%	0	0%
26		0.0%	0	0%	26		0.0%	0	0%
25		0.0%	0	0%	25		0.0%	0	0%
24		0.0%	0	0%	24		0.0%	0	0%
23		0.0%	0	0%	23		0.0%	0	0%
22		0.0%	0	0%	22		0.0%	0	0%
21		0.0%	0	0%	21		0.0%	0	0%
20		0.0%	0	0%	20		0.0%	0	0%

Otter Tail Co 60 at Loon Lake Vergas 2019.xls