

Johnson, Russell M (DOT)

From: Motsko, Randi Lynn (DOT)
Sent: Friday, May 19, 2017 8:07 AM
To: Johnson, Russell M (DOT)
Cc: Schacher, Sarah E (DOT)
Subject: Pt. Whitshed DD
Attachments: Whitshed Rd & Ped Improv_NFHWY00129.pdf

Attached is the completed Design Designation for Point Whitshed Road & Pedestrian Improvements

Thanks,
Randi Motsko

Randi Motsko
Transportation Data Programs
Highway Data
Alaska DOT & PF 2301 Peger Rd
Fairbanks, AK 99709
(907) 451-2386

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities

TO: Sarah E. Schacher, P.E.,
Preconstruction Engineer
Northern Region

DATE: May 11, 2017

FILE NO: I:\Traffic Data\Design\2017\Whitshed Rd & Ped
Improvements_NFHWY00129.doc

**TELEPHONE
NO:** 451-5150

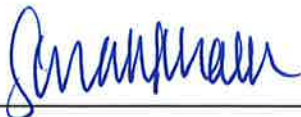
FROM: Judy Chapman
Planning Chief
Northern Region

SUBJECT: Whitshed Rd and Pedestrian Improvements
NFHWY00129/TBD
Design Designation Request

Please approve the attached design designation by signing the endorsement below which enables your staff to proceed.

Currently the traffic data section has a continuous counting station within the scope of this project. Please contact us regarding any questions about the impact construction will have on this site.

Any questions should be directed to Scott Vockeroth at 451-2251.



5/17/2017

Sarah E. Schacher, P.E., Preconstruction Engineer

Date

RLM

cc: Russell Johnson, P.E., Engineering Manager, Northern Region

Attachment

Please circulate and return Traffic Data & Forecasting Manager	
Planning Manager(outside FNSB)	MLC
Planning Chief	JMC
Fairbanks Area Planner(FNSB)	
Traffic & Safety	PhJ
Any changes, additions, or questions, Please write on this sheet	

DESIGN DESIGNATION
Northern Region Planning
Traffic Data & Forecasting

ROUTE NAME: Point Whitshed Road
STATE ROUTE NO: 211400
CDS MILEAGE: 0.00 - 0.753
FUNCTIONAL CLASS: Major Collector
URBAN/RURAL: Rural

	YEAR	AADT	%	
AADT	2015	1260		
	2030	1465		
	2045	1700		
DHV	2030		13.7	200
	2045			235
D				55-45
T			6.00 %	Total
			0.00	Class 4
			5.00	Class 5
			0.50	Class 6
			0.25	Class 8
			0.25	Class 9
			0.00	Class 10
			0.00	Class 13
ESAL'S (Design Lane)	To Be Provided by Design			


MEMORANDUM

State of Alaska
Department of Transportation & Public Facilities
Northern Region Design and Engineering Services

TO: Judy Chapman
Planning Chief
Northern Region

DATE: May 3, 2017

FILE NO: H:\Projects\Communities\Cordova\00129_Whitshed\7 Eng Support\1 Planning\Design Designation Request memo 2017.docx

THRU: Sarah E. Schacher, P.E. 
Preconstruction Engineer
Northern Region

PHONE NO: 451-5059

FAX NO: 451-5126

FROM: Russell Johnson, P.E. 
Engineering Manager
Northern Region

SUBJECT: Whitshed Road and Pedestrian
Improvements
NFHWY00129/TBD
Design Designation Request

Please provide a Design Designation for the subject project.

- ☒ Present AADT
- ☒ Design Year AADT (2045)
- ☒ Mid-Design Period AADT (2030)
- ☒ Design Hourly Volume
- ☒ Directional Split
- ☒ Percent Trucks
- ☒ Design Functional Classification
- ☐ Intersection Turning Movement Counts at:
- ☐ Other (*Specify*)

The project is scheduled for construction in FY2020.

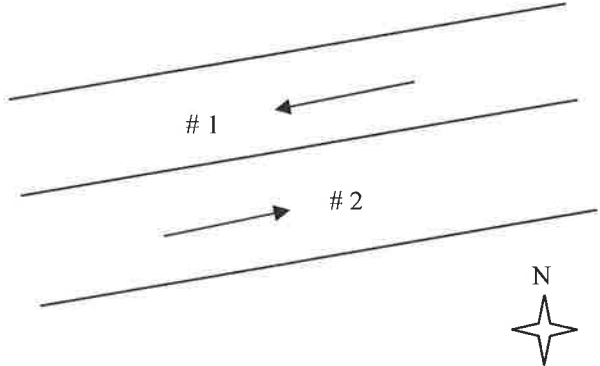
Please complete the attached Traffic Data Request Form.

Attachment: as stated

dmd/

Traffic Data Request Form

Alaska Department of Transportation & Public Facilities

Requested by: Russell Johnson, P.E.			Design Project Number: NFHWY00129	Date Requested: May 3, 2017
Base Year: 2016 <i>15</i> Base Year Total AADT: <i>1260</i> AADT Growth Rate: <i>1%</i> Forward (%/yr): End Year: 2045 Back Cast (%/yr): Begin Year:			Common Route Name: Whitshed Road Functional Class: Urban / <i>Rural</i> Historic M.P. Interval: MP 0.00 – 0.75	CDS Route Name: Point Whitshed Road (211400) CDS M.P. Interval: MP 0.00 – 0.7533
Truck Category	Load Factor (ESALs per Truck)	% of Total AADT in Truck Category	Lane Configuration Sketch: (Designer: Provide sketch of lane layout. Number each lane and show directions.) 	
2-axle	<i>See</i>			
3-axle	<i>Attached</i>			
4-axle				
5-axle				
≥6-axle				
Percent of Base Year Total AADT for Each Numbered Lane in Configuration Sketch:			Comments:	
Lane # 1	% <i>55</i>			
Lane # 2	% <i>45</i>			
Lane #	%			
Lane #	%			
Lane #	%			
Data Provided By: <i>Randi Motoko</i>			Provider's Signature: <i>RAMA</i>	Date Provided: <i>5/11/17</i>

Transportation & Public Facilities Roadway Information Portal (RIP)









































Report Route Log





CDS Route POINT WHITSHED ROAD (211400)

From Milepoint 0

To Milepoint 5.9725

Filter FacilityType INTERCHANGE RAMP;NON-INVENTORY;WYE;SECONDARY FERRY ACCESS;ROUNDBOUT;PRIMARY FERRY ACCESS;NON-INTERCHANGE RAMP;MAINLINE;CONNECTOR

Milepoint	Attribute	Side	Feature CDS	Description	Viewer
0	 Intersection	B	210000	COPPER RIVER HIGHWAY	 
0	Functional Class	-	-	Start MAJOR COLLECTOR	 
0	FHWA Urban Area	-	-	Start RURAL AREA (RURAL)	 
0.4	Traffic Station	-	-	11140000	 
0.9606	 Intersection	R	-	WHISKEY RIDGE ROAD	 
1.0423	 Milepost	R	-	1	 
1.1168	 Bridge Midpoint	U	-	ECCELES CREEK (4089)	 
1.7647	Functional Class	-	-	MAJOR COLLECTOR -> LOCAL	 
1.7698	 Bridge Midpoint	U	-	HENEY CREEK (0844)	 
1.7904	Traffic Station	-	-	33148000	 
1.996	 Milepost	R	-	2	 
3.0256	 Milepost	R	-	3	 
3.9739	 Milepost	R	-	4	 
5.0157	 Milepost	R	-	5	 
5.1632	 Bridge Midpoint	U	-	HARTNEY BAY (1085)	 

Milepoint	Attribute	Side	Feature CDS	Description	Viewer
5.9725	Functional Class	-	-	End LOCAL	 
5.9725	FHWA Urban Area	-	-	End RURAL AREA (RURAL)	 

Computations and Historic Data**Project:** Point Whitshed Road and Pedestrian Improvements**Project #** NFHWY00129**Historic AADT**

Route:	211400	Year	AADT
Station:	11140000	2000	
	Pt. Whitshed S of Copper River Hwy	2001	1224
Milepoint:	0.33	2002	
		2003	
		2004	
		2005	
		2006	
		2007	
		2008	
		2009	1243
		2010	
		2011	
		2012	
		2013	
		2014	1274
		2015	1260

Growth rate for calculations was 1.00% due to historic traffic patterns

Growth Rate factors

2030 1.161

2045 1.348

Future AADTs

Year	AADT
2015	1260
2030	1465
2045	1700

K-factor 13.70%**DHV=** 2030 200

2045 235

Direction Split (D)= € 55-45**Class Data**

211400						Percent By Class					
Station #	Description	CDS MP	Year	4	5	6	8	9	10	13	Total Truck %
11140000	Pt. Whitshed S of Copper River Hwy	0.33	2015	0.00	5.00	0.50	0.25	0.25	0.00	0.00	6.00
	Load Factors			1	0.50	0.85	1.20	1.55	2.24	2.24	
	# Axles			2/3	2	3	4	5	6	7+	