CATTLE PASS CONSIDERATION

North Dakota Department of Transportation
Environmental & Transportation Services
SFN 10155 (Rev. 02-2009)

	Project
PCN	Parcel(s)
Station	
Owner	

FENCED ACREAGE INVOLVED	Total Acreage	Ac. Rt. of L_c	Ac. Lt. of L_c

NUMBER OF CATTLE	Dairy	Beef	Horses

Location of Water Source of Sources
Anticipated Crossings Per Day
Damages
Cost of Well (if applicable)

GENERAL CRITERIA

1. Does the request meet the cattle passes sequence and justification general criteria listed in the Right of Way Manual, 2007 Edition?

   ☐ Yes ☐ No

   a. If answer is no, the property owner must pay for the actual contract cost of the installation.

   b. If the answer is yes, please submit this form to the Design Division.

DESIGN DATA

Design Speed

Decision sight distance available: ☐ Yes ☐ No

DECISION SIGHT DISTANCE (FT.)

Design Speed (mph)	Rounded for Design
30	450- 625
40	600- 825
50	750-1,025
60	1,000-1,275
70	1,100-1,450

AASHTO - Geometric Design of Highways and Streets (2001 Edition)

Forecast Traffic: Pass.	Trucks	Total ADT
Curve or Tangent		
Typical Section: Graded Roadway Width		Ft. Inslope Ratio

ECONOMIC FACTORS

Cattle Pass Installation

Length of cattle pass required:
Estimated cost of cattle pass:
Estimated cost of extra excavation (if applicable):
Can cattle pass be combined with a drainage structure? ☐ Yes ☐ No

Drainage Structure Data (if applicable)

Size of drainage structure:
Estimated cost of drainage structure:
Drainage area in acres:
Location of drainage structure: Sta.

JUSTIFICATION CALCULATION

1.	Estimated cost of cattle pass installation.		
2.	Estimated cost of drainage structure if a combined structure is possible.		
3.	Balance to be justified as a cattle pass cost.		
4.	Amount of safety benefits.		
5.	Amount of road user benefits.		
6.	Amount of mitigated damages.		
7.	Total benefits.		
8.	Difference between Line 3 and Line 7. If the amount on Line 7 exceeds that on Line 3, the installation is justified.		
9.	If Line 3 exceeds Line 7, the installation cannot be justified and property owner must contribute the difference of		

Approved ☐ Yes ☐ No
Reason and Conditions, if any

By: _____

ENVIRONMENTAL & TRANSPORTATION SERVICES ENGINEER (TYPE OR PRINT)

SIGNATURE

TITLE

DATE