Sutrorm -	2232 V2	By using this form you are agreeing to our terms of use. Please read:
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DC	DT-166					
App	plication for Highway Access Permit					
Sou	Ith Dakota Department of Transportat Instructions: Please contact the local South Da supporting documents must accompany this applie documentation for each access requested. Attach a Owner and applicant agree to comply with special a	tion kota Department of Transportation office to determine what action. Please submit a separate application and supporting additional sheets as necessary. Please print or type. and standard conditions if access permitted.				
mpleted by applicant).	Property Owner: Name(s): Prevailing Wind Park, LLC Mailing Address: 2180 S 1300 E ste 600 City, State, Zip Daytime Phone: 325-207-9064	Applicant (if different from Owner): Name(s): Mailing Address: City, State, Zip Daytime Phone:				
	Property to be Served by Approach: County: Bon Homme Section: 31 Township: Monroe Range: 61-W Or Subdivision: Street Address: Block/Lot: City: Cothered	State Highway to be Accessed by Approach: State Highway Number: 46 Access would be 927 from 405TH AVE street). (nearest cross)				
nit Application (to be c	Land Use of Property to be Served (check one): ☐ Agricultural: acres served	Type of Permit Requested (check one) New approach Change in use Temporary access Improve existing access Relocate existing access Remove existing access Requested Approach Width (check one) 24' 30' 36' 40'				
Peri	Local Government Reviews: County: Comments: Concurrence signature: Date:	Municipality: Comments: Concurrence signature:				
	Estimated Date of Construction: June, 2019 I, the undersigned, request permission to construct regulations set forth in SDCL 70:09. Signature of Applicant:	or modify an access approach subject to the rules and				
	Signature of Owner (if different than applicant):	Same Date: 5/17/19				
/ SDDOT).	Supporting Materials Required: (Required) (Received) Access Approach Design Vicinity Map Traffic Volumes Three Copies of Site Plan	Received by SDDOT: Date: / /				
e completed by	Traffic Control Plan Proof of Liability Insurance Detailed Development Plan Drainage Plan Traffic Impact Study Revegetation Plan	Access Approved Access Approved with Variance:				
ecision (to b	Access Must be Constructed By://	r Denial)				
Permit D	SDDOT Area Engineer Signature: Date: <u>\$132119</u>	SDDOT Area: Area Office Yankton Contact Person <u>Rod</u> Gall Contact Phone <u>605-668-2929</u> Permit Number <u>YA - 1-2018</u> 2019-1				

Distribution: Original – Owner; Copies – Access Management, Area Office v.10/2005

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DO1-100	D	0	T-1	66
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	hway Access Permit Application	on Review Sheet (to	be completed by SDDOT)
Highway Access C	assification: (check one)		
Expressway			Highway <u>46</u>
Free Flow U	rban		MRM + Displacement <u>277+37</u>
	Urban		Left Right 778
Urban Deve			Average Dally Traffic //
Rural	5		Accidents (three years)
Highway Alignment standing on access)	to Left of Access (as seen when	Highway Alignment standing on access)	to Right of Access (as seen when
Straight	Stopping Sight Distance: 1100 ft.	Straight	Stopping Sight Distance: 1200 ft.
Turns left	Entering Sight Distance: 100 ft.	Turns left	Entering Sight Distance: 12.00 ft.
Turns right	Posted Speed Limit: 65 mph	Turns right	Posted Speed Limit 65 mph
	0-3% grade	Flat	× 0-3% grade
Flat	3-5% grade	Slopes up	3-5 % grade
Slopes up	>5% grade	Slopes down	>5% grade
Li Siopes down		_	
Significant Design	and Potential Impact Consideration	I s (check all that apply	and explain checked items):
Sidewalks or Bil	e Paths Surface Drainage	Distance to	Nearby Streets, Both Directions
Curb & Gutter	Drainage Structures	Distance to	Nearby Driveways, Both Directions
On-Street Parkin	ng Major Structures	Others Stree	ets with Access or Available Access
Historical Resou	Guard Rall		rol Devices or Relocation Needed
	Railroad Tracks		ssovers
Explain impact on	design: No change	in acce	55. The approach
will be	used frequently	during a	in Smill construction
Charles A.	chall he aged	hath	sides of the
Jigns .	L (Truck Cont	1) 1, 1	raes of the
approac	n, LIPOLCA Cross	ing darin	g construction.
SDDOT Region Trat	fic Engineer Review (optional):	SDDOT Access Mar	agement Review (optional):
Comments:		Comments:	agement to the to parentally.
Signature:	date://	Signature:	datas 1 1
			date://
			date://
APPROACH DESIG	N SKETCH		List Attachments:
APPROACH DESIG	N SKETCH		List Attachments:
APPROACH DESIG	N SKETCH		List Attachments:
APPROACH DESIG	N SKETCH		List Attachments:
APPROACH DESIG	N SKETCH		List Attachments:
APPROACH DESIG	N SKETCH		List Attachments:
APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Hailbox details Cattle guard Sidewalk details Median crossovern
APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Hailbox details Cattle guard Sidewalk details Median crossovers Recreation paths
APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings
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APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer
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APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Cuth & gutter
APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Hailbox details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Curb & gutter Traffic Control
APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Curb & gutter Traffic Control Sign/signal/marking
APPROACH DESIG	N SKETCH		List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Curb & gutter Traffic Control Sign/signal/marking Other
APPROACH DESIG	formed by: R 1 Conff		List Attachments: Driveway details Culvert details Culvert details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Curb & gutter Traffic Control Sign/signal/marking Other Date: 05/22/127

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	ARCH C.M.P. SAFETY ENDS										
Equv. Dia. (Inch)	(Incl	nes)	Min. Thick.		Dimensions			(Inches)	L Dim	L Dimensions	
	Span	Rise	Inch	Gage	А	н	w	Overall Width	Slope	Length (Inch)	
18	21	15	.064	16	8	6	27	43	6:1	30	
21	24	18	.064	16	8	6	30	46	6:1	48	
24	28	20	.064	16	8	6	34	50	6:1	60	
30	35	24	.079	14	12	9	41	65	6:1	84	
36	42	29	.109	12	12	9	48	72	6:1	114	
42	49	33	.109	12	16	12	55	87	6:1	138	
48	57	38	.109	12	16	12	63	95	6:1	168	
54	64	43	.109	12	16	12	70	102	6:1	198	
60	71	47	.109	12	16	12	77	109	6:1	222	
72	83	57	.109	12	16	12	89	121	6:1	282	

CIRCULAR C.M.P. SAFETY ENDS										
Pipe	Min.	Thick.	Dim	iens	ions	L Dim	ensions			
Dia. (Inch)	Inch	Gage	А	Н	W Overall Width		Slope	Length (Inch)		
15	.064	16	8	6	21	37	6:1	30		
18	.064	16	8	6	24	40	6:1	48		
21	.064	16	8	6	27	43	6:1	66		
24	.064	16	8	6	30	46	6:1	84		
30	.109	12	12	9	36	60	6:1	120		
36	.109	12	12	9	42	66	6:1	156		
42	.109	12	16	12	48	80	6:1	192		
48	.109	12	16	12	54	86	6:1	228		
54	.109	12	16	12	60	92	6:1	264		
60	.109	12	16	12	66	98	6:1	300		

Safety ends shall be fabricated from galvanized steel conforming to the requirements of the Specifications.

Safety bars shall be fabricated from steel schedule 40 pipe in conformance with ASTM A53, grade B or HSS 3.5X.216 in conformance with ASTM A500, grade B.

Slotted holes for safety bar attachment shall be provided for all end sections.

Attachment to circular pipes 15" through 24" diameter shall be made with Type #1 straps. All other sizes shall be attached with Type #2 rods and lugs.

When stated in the plans, optional toe plate extension shall be punched and bolted to end section apron lip with $\frac{3}{8}$ " diameter galvanized bolts. Steel for toe plate extension shall be same gauge as end section. Dimensions shall be overall width less 6" by 8" high.

Installation shall be performed in accordance with the Specifications.

Cost of all work and materials required for fabrication and installation of safety ends shall be incidental to the bid items for the various sizes of safety ends.

	S D D	C. M. P. SAFETY ENDS	PLATE NUMBER 450.38
Published Date: 2nd Qtr. 2019	0 T		Sheet 2 of 2

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App	plication for Highway Access Permit					
Sou	Ith Dakota Department of Transportat Instructions: Please contact the local South Dal	ion kota Department of Transportation office to determine what				
	documentation for each access requested. Attach a Owner and applicant agree to comply with special a	additional sheets as necessary. Please print or type. and standard conditions if access permitted.				
olicant).	Property Owner: Name(s): Prevailing Wind Park, LLC Mailing Address: City, State, Zip Daytime Phone: Property to be Served by Approach: Counting Charles Mix	Applicant (if different from Owner): Name(s): Mailing Address: City, State, Zip Daytime Phone: State Highway to be Accessed by Approach:				
ompleted by ap	Section:	State Highway Number: 46 Access would be 2625 feet (north, south, east or west) from 50 50 (nearest cross street).				
it Application (to be co	Land Use of Property to be Served (check one): Agricultural: acres served Business: typetotal square footage of buildings: number of employees Residential: number of single-family dwellings , or number of multi-family dwellings , or number of multi-family dwellings	Type of Permit Requested (check one) New approach Change in use Temporary access Improve existing access Relocate existing access Remove existing access Requested Approach Width (check one) 24' 30' 36' 40'				
Per	County:Comments: Concurrence signature:Date:	Municipality: Comments: Concurrence signature: Date:				
	Estimated Date of Construction: June, 2019 I, the undersigned, request permission to construct of regulations set forth in SDCL 70:09. Signature of Applicant:	or modify an access approach subject to the rules and Date: <u>5/17/19</u>				
	Signature of Owner (if different than applicant):	Same Date: 5/17/19				
eted by SDDOT).	Supporting Materials Required: (Required) (Received) Access Approach Design Vicinity Map Traffic Volumes Three Copies of Site Plan Traffic Control Plan Proof of Liability Insurance Detailed Development Plan	Received by SDDOT: Date: <u>5117119</u> Decision: (to be made after Application Review) Access Approved Access Approved				
on (to be compl	Drainage Plan Traffic Impact Study Revegetation Plan Other Terms and Conditions of Approval (or Reason for	Access Approved with Variance:				
Decisi	Access Must be Constructed By://					
Permit	SDDOT Area Engineer Signature: Date: <u>5 /28//9</u>	SDDOT Area: Area Office $\underline{Yankton}$ Contact Person <u>Rod</u> <u>Gall</u> Contact Phone <u>605 - 668 - 292</u> 9 Permit Number <u>YA</u> - 2019 - 2				

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v.10/2005

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DOT-16	66
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SDDOT Highway Access Permit Applicatio	n Review Sheet (to be completed by SDDOT)				
Highway Access Classification: (check one)					
Expressway	Highway <u>46</u>				
Free Flow Urban	MRM + Displacement 297+76				
Intermediate Urban					
	Average Daily Traffic				
X Rural	Accidents (three years) 12 Pr				
Highway Alignment to Left of Access (as seen when	Highway Alignment to Right of Access (as seen when				
standing on access)	standing on access)				
Straight Stopping Sight Distance: 1200 ⁺ ft.	Straight Stopping Sight Distance: (200"ft.				
Turns left Entering Sight Distance: <u>1200</u> ft.	Turns left Entering Sight Distance: 1200 ² ft.				
Turns right Posted Speed Limit: 63 mph	I urns right Posted Speed Limit 65 mph				
Concerned IN 0-3% grade	Elat 0-3% grade				
Flat 3-5% grade	Slopes up				
Slopes up >5% grade	Slopes down >5% grade				
Significant Design and Potential Impact Considerations	s (check all that apply and explain checked items):				
Sidewalks or Bike Paths Surface Drainage	Distance to Nearby Streets. Both Directions				
Curb & Gutter Drainage Structures	Distance to Nearby Driveways, Both Directions				
On-Street Parking Major Structures	Others Streets with Access or Available Access				
Shoulder Width Guard Rail	Traffic Control Devices or Relocation Needed				
Historical Resources Above-Ground Utilities Railroad Tracks	Median Crossovers				
Explain impact on design:	in access. The approach				
will be used France H	during construction of				
in the second frequently	, danny contraditor of				
windmills. signs (Tinch	r Crossing) should be used				
during construction of	f wind mills,				
SDDOT Region Traffic Engineer Review (optional):	SDDOT Access Management Review (optional):				
Comments:	Comments:				
Signature: date://	Signature: date://				
	List Attachments				
APPROACH DESIGN SKETCH	Driveway details				
	Culvert details				
	Rail crossings				
	Storm sewer				
	Pavement				
	Curb & gutter				
	Traffic Control				
	Sign/signal/marking				
	Other				

			DCU	CN			C T V				
ARCH U.M.F. SAFEIT ENDS											
Equv.	(Incl	nes)	Min.	Thick.	Dim	iens	ions	(Inches)	L Dim	ensions	
Dia. (Inch)	Span	Rise	Inch	Gage	А	н	W	Overall Width	Slope	Length (Inch)	
18	21	15	.064	16	8	6	27	43	6:1	30	
21	24	18	.064	16	8	6	30	46	6:1	48	
24	28	20	.064	16	8	6	34	50	6:1	60	
30	35	24	.079	14	12	9	41	65	6:1	84	
36	42	29	.109	12	12	9	48	72	6:1	114	
42	49	33	.109	12	16	12	55	87	6:1	138	
48	57	38	.109	12	16	12	63	95	6:1	168	
54	64	43	.109	12	16	12	70	102	6:1	198	
60	71	47	.109	12	16	12	77	109	6:1	222	
72	83	57	.109	12	16	12	89	121	6:1	282	

	CIRCULAR C.M.P. SAFETY ENDS											
Pipe	Min.	Thick.	Dim	iens	ions	(Inches)	L Dime	ensions				
Dia. (Inch)	Inch	Gage	А	Н	W	Overall Width	Slope	Length (Inch)				
15	.064	16	8	6	21	37	6:1	30				
18	.064	16	8	6	24	40	6:1	48				
21	.064	16	8	6	27	43	6:1	66				
24	.064	16	8	6	30	46	6:1	84				
30	.109	12	12	9	36	60	6:1	120				
36	.109	12	12	9	42	66	6:1	156				
42	.109	12	16	12	48	80	6:1	192				
48	.109	12	16	12	54	86	6:1	228				
54	.109	12	16	12	60	92	6:1	264				
60	.109	12	16	12	66	98	6:1	300				

Safety ends shall be fabricated from galvanized steel conforming to the requirements of the Specifications.

Safety bars shall be fabricated from steel schedule 40 pipe in conformance with ASTM A53, grade B or HSS 3.5X.216 in conformance with ASTM A500, grade B.

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	S D D O T	C. M. P. SAFETY ENDS	plate NUMBER 450.38
Published Date: 2nd Otr. 2019			Sheet 2 of 2

DC	- 2232 V2 By Using this form you are ag	greeing to our terms of use. Please read:						
/pp	plication for Highway Access Permit							
ίοι	th Dakota Department of Transportat	ion						
	Instructions: Please contact the local South Dat supporting documents must accompany this applic documentation for each access requested. Attach a Owner and applicant agree to comply with special a	kota Department of Transportation office to determine what ation. Please submit a separate application and supporting additional sheets as necessary. Please print or type. Ind standard conditions if access permitted.						
•	Property Owner: Name(s): Prevailing Wind Park, LLC Mailing Address: 2180 S 1300 E ste 600 City, State, Zip Salt Lake City, UT 84106	Applicant (if different from Owner): Name(s): Mailing Address: City, State, Zip						
	Daytime Phone: 325-207-9064	Daytime Phone:						
:	Property to be Served by Approach: County: Charles Mix Section: 12 Township: Lone Tree	State Highway to be Accessed by Approach: State Highway Number: 50						
	Range: <u>62-W</u> Or Subdivision: Block/Lot:	Access would be <u>1314</u> feet (north south) east or west) from 298TH ST (nearest cross						
	Street Address:	street).						
	Land Use of Property to be Served (check one): Agricultural: acres served Business: typetotal square footage of buildings: number of employees Residential: number of single-family dwellings , or number of multi-family dwellings	Type of Permit Requested (check one) New approach ✓ Change in use Temporary access Improve existing access Relocate existing access Remove existing access Remove existing access Requested Approach Width (check one)						
	Other: describe Wind Turbine Access	24' 🗹 30' 🗌 36' 🗌 40' 🗌						
	Local Government Reviews:	Bill						
	Comments:	Comments:						
	Concurrence signature: Date:	Concurrence signature:Date:						
	Estimated Date of Construction: June, 2019							
	I, the undersigned, request permission to construct or regulations set forth in SDCL 70:09.	or modify an access approach subject to the rules and						
_	Signature of Applicant:	MAX M/ I Date: 5/17/19						
	Signature of Owner (if different than applicant):	5AME Date: 5/17/19						
	Supporting Materials Required: (Required) (Received) Access Approach Design Image: Comparison of the second sec	Received by SDDOT: Date: <u>5 177179</u>						
י אב הטווואופובע אל סברי	Vicinity Map Traffic Volumes Three Copies of Site Plan Traffic Control Plan Proof of Liability Insurance Detailed Development Plan Drainage Plan Traffic Impact Study Revegetation Plan Other							
	Terms and Conditions of Approval (or Reason fo	or Denial)						
Deci	Access Must be Constructed By:/_/	SDDOT Area						
Permit	Date: 05128/9	Area Office $\underline{Yaakton}$ Contact Person \underline{Rod} Gall Contact Phone $\underline{GoF} - \underline{Gog} - \underline{2929}$ Permit Number $\underline{YA} - \underline{2019} - \underline{3}$						

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v.10/2005

DOT-166								
SDDOT Highway Access Permit Applicati	on Review Sheet (to be completed by SDDOT)							
Highway Access Classification: (check one) Expressway Free Flow Urban Intermediate Urban Urban Developed Urban Fringe Rural Highway Alignment to Left of Access (as seen when standing on access) Straight Turns left Turns right Stopping Sight Distance: (200 ⁻ ft. Posted Speed Limit: 6.5 ⁻ mph	Highway 50 MRM + Displacement 337 + 900 Left Right Average Daily Traffic 321 Average Daily Traffic 321 Accidents (three years) 0.56 Highway Alignment to Right of Access (as seen when standing on access) Straight Stopping Sight Distance: (200 ft. Entering Sight Distance: (200 ft. Posted Speed Limit Turns right Posted Speed Limit							
X Flat > 0-3% grade Slopes up 3-5% grade Slopes down > 5% grade	Flat 20-3% grade Slopes up 3-5 % grade Slopes down >5% grade							
Significant Design and Potential Impact Consideration	ns (check all that apply and explain checked items):							
Sidewalks or Bike Paths Curb & Gutter On-Street Parking Shoulder Width Historical Resources Historical Resources Curb & Gutter Major Structures Guard Rail Above-Ground Utilitie Railroad Tracks	Distance to Nearby Streets, Both Directions Distance to Nearby Driveways, Both Directions Others Streets with Access or Available Access Traffic Control Devices or Relocation Needed Median Crossovers							
Explain impact on design: No change will be used frequent the windmills. Signs (Tra during construction of SDDOT Region Traffic Engineer Review (optional):	in access. The approach ily during construction of ick Crossing) should be used in d mills.							
Comments:	Comments:							
APPROACH DESIGN SKETCH	List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Curb & gutter Traffic Control Sign/signal/marking Other							
SDDOT Review Performed by: Rod Gori	Date: <u>5 128 1/ 9</u>							

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Published Date: 2nd Qtr. 2019

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Sheet / of 2

	ARCH C.M.P. SAFETY ENDS									
Equv.	(Inches)		Min. Thick.		Dimensions			(Inches)	L Dimensions	
Dia. (Inch)	Span	Rise	Inch	Gage	A	н	w	Overall Width	Slope	Length (Inch)
18	21	15	.064	16	8	6	27	43	6:1	30
21	24	18	.064	16	8	6	30	46	6:1	48
24	28	20	.064	16	8	6	34	50	6:1	60
30	35	24	.079	14	12	9	41	65	6:1	84
36	42	29	.109	12	12	9	48	72	6:1	114
42	49	33	.109	12	16	12	55	87	6:1	138
48	57	38	.109	12	16	12	63	95	6:1	168
54	64	43	.109	12	16	12	70	102	6:1	198
60	71	47	.109	12	16	12	77	109	6:1	222
72	83	57	.109	12	16	12	89	121	6:1	282

CIRCULAR C.M.P. SAFETY ENDS									
Pipe	Min.	Dim	iens	ions	L Dim	L Dimensions			
Dia. (Inch)	Inch	Gage	А	A H W Overd Widt		Overall Width	Slope	Length (Inch)	
15	.064	16	8	6	21	37	6:1	30	
18	.064	16	8	6	24	40	6:1	48	
21	.064	16	8	6	27	43	6:1	66	
24	.064	16	8	6	30	46	6:1	84	
30	.109	12	12	9	36	60	6:1	120	
36	.109	12	12	9	42	66	6:1	156	
42	.109	12	16	12	48	80	6:1	192	
48	.109	12	16	12	54	86	6:1	228	
54	.109	12	16	12	60	92	6:1	264	
60	.109	12	16	12	66	98	6:1	300	

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	S D D	C. M. P. SAFETY ENDS	plate number 450.38
Published Date: 2nd Qtr. 2019			Sheet 2 of 2

App	plication for Highway Access Permit	lon				
301	Instructions: Please contact the local South Dal supporting documents must accompany this applic documentation for each access requested. Attach a Owner and applicant agree to comply with special a	kota Department of Transportation office to determine what ation. Please submit a separate application and supporting additional sheets as necessary. Please print or type. nd standard conditions if access permitted.				
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ompleted by applica	Property to be Served by Approach: County: Bon Homme Section: 4 Township: Avon Range: 61-W Or Block/Lot: Street Address: City:	State Highway to be Accessed by Approach: State Highway Number: 46 Access would be 2140 from 407TH AVE street). (nearest cross) Type of Permit Requested (check one) New approach Change in use Temporary access Improve existing access Relocate existing access Requested Approach Width (check one) 24' 2 30' 36' 40'				
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Pe	County:Comments:Date:	Municipality: Comments: Concurrence signature: Date:				
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	Signature of Applicant: MMU	X) Om I Date: 5/17/19				
SDDOT).	Signature of Owner (if different than applicant): Supporting Materials Required: (Required) (Received) Access Approach Design Vicinity Map Traffic Volumes	Received by SDDOT: Date: 057/71/9				
be completed by S	Three Copies of Site Plan Traffic Control Plan Proof of Liability Insurance Detailed Development Plan Drainage Plan Traffic Impact Study Revegetation Plan Other	Decision: (to be made after Application Review) Access Approved Access Approved with Variance: Access Denied				
ecision (to	Terms and Conditions of Approval (or Reason for Access Must be Constructed By: $5/7/20$	r Denial)				
Permit D	SDDOT Area Engineer Signature: Date: 051281(9	SDDOT Area: Area Office Yank ton Contact Person Rod Gyll Contact Phone 605-668-2829				

Distribution: Original - Owner; Copies - Access Management, Area Office

v.10/2005

SDDOT Highway Access Permit Application Review Sheet (to be completed by SDDOT)									
Highway Access Classification: (check one) Expressway Free Flow Urban Intermediate Urban Urban Developed Urban Fringe Rural	Highway <u></u> <u></u> Highway <u></u> MRM + Displacement <u>3⊄/</u> + <u>/69</u> Left □ Right <u>Ø</u> Average Daily Traffic <u>778</u> Accidents (three years) <u>(. 4/</u>								
Highway Alignment to Left of Access (as seen when	Highway Alignment t	o Right of Access (as seen when							
Standing on access) Straight Turns left Turns right Stopping Sight Distance: /2.00 ft. Entering Sight Distance: /2.00 ft. Posted Speed Limit: Slopes up	Straight Turns left Turns right Flat Slopes up	Stopping Sight Distance: 1200 ft. Entering Sight Distance: 1200 ft. Posted Speed Limit 65 mph							
Slopes down		□>5% grade							
Significant Design and Potential Impact Considerations	s (check all that apply a	and explain checked items):							
Sidewalks or Bike Paths Curb & Gutter On-Street Parking Shoulder Width Historical Resources Railroad Tracks	Distance to Nearby Streets, Both Directions Distance to Nearby Driveways, Both Directions Others Streets with Access or Available Access Traffic Control Devices or Relocation Needed Median Crossovers								
Explain impact on design: Approach s shown in stradard plat be placed as shown w All CMP & Safety will	Explain impact on design: Approach shall be constructed as shown in standard plates (Attached) signs mest be placed as shown when constructing approach. All CMP & Safety will be purchased by the owner.								
SDDOT Region Traffic Engineer Review (optional): Comments:	SDDOT Access Mana Comments:	igement Review (optional):							
Signature: date://	Signature:	date://							
APPROACH DESIGN SKETCH	E: Sere Safe	List Attachments: Driveway details Culvert details Mailbox details Fencing details Cattle guard Sidewalk details Median crossovers Recreation paths Rail crossings Auxiliary lanes Storm sewer Pavement Curb & gutter X Traffic Control Sign/signal/marking							
Fu J SDDOT Review Performed by:	end	Other							
Subor Review Performed by: Kod Gall		Date: 2 1631/7							

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	ARCH C.M.P. SAFETY ENDS										
Equv.	(Incl	(Inches)		Min. Thick.		iens	ions	(Inches)	L Dim	ensions	
Dia. (Inch)	Span	Rise	Inch	Gage	А	Н	W	Overall Width	Slope	Length (Inch)	
18	21	15	.064	16	8	6	27	43	6:1	30	
21	24	18	.064	16	8	6	30	46	6:1	48	
24	28	20	.064	16	8	6	34	50	6:1	60	
30	35	24	.079	14	12	9	41	65	6:1	84	
36	42	29	.109	12	12	9	48	72	6:1	114	
42	49	33	.109	12	16	12	55	87	6:1	138	
48	57	38	.109	12	16	12	63	95	6:1	168	
54	64	43	.109	12	16	12	70	102	6:1	198	
60	71	47	.109	12	16	12	77	109	6:1	222	
72	83	57	.109	12	16	12	89	121	6:1	282	

CIRCULAR C.M.P. SAFETY ENDS									
Pipe	Min.	Dim	iens	ions	L Dimensions				
Dia. (Inch)	Inch	Gage	А	A H W Over Widt		Overall Width	Slope	Length (Inch)	
15	.064	16	8	6	21	37	6:1	30	
18	.064	16	8	6	24	40	6:1	48	
21	.064	16	8	6	27	43	6:1	66	
24	.064	16	8	6	30	46	6:1	84	
30	.109	12	12	9	36	60	6:1	120	
36	.109	12	12	9	42	66	6:1	156	
42	.109	12	16	12	48	80	6:1	192	
48	.109	12	16	12	54	86	6:1	228	
54	.109	12	16	12	60	92	6:1	264	
60	.109	12	16	12	66	98	6:1	300	

Safety ends shall be fabricated from galvanized steel conforming to the requirements of the Specifications.

Safety bars shall be fabricated from steel schedule 40 pipe in conformance with ASTM A53, grade B or HSS 3.5X.216 in conformance with ASTM A500, grade B.

Slotted holes for safety bar attachment shall be provided for all end sections.

Attachment to circular pipes 15" through 24" diameter shall be made with Type #1 straps. All other sizes shall be attached with Type #2 rods and lugs.

When stated in the plans, optional toe plate extension shall be punched and bolted to end section apron lip with $\frac{3}{8}$ " diameter galvanized bolts. Steel for toe plate extension shall be same gauge as end section. Dimensions shall be overall width less 6" by 8" high.

Installation shall be performed in accordance with the Specifications.

Cost of all work and materials required for fabrication and installation of safety ends shall be incidental to the bid items for the various sizes of safety ends.

	S D D	C. M. P. SAFETY ENDS	PLATE NUMBER 450.38
Published Date: 2nd Qtr. 2019	0 T		Sheet 2 of 2