

Amended and extended July 2, 2018.

Chris Michels, WisDOT

APPLICATION/PERMIT FOR CONNECTION TO STATE TRUNK HIGHWAY

Wisconsin Department of Transportation (WisDOT)
DT1504 4/2009 s. 86.07(2) Wis. Stats. & Ch. Trans 231 Wis. Adm. Code

- This form is an application for permission for a STH Connection. If approved, the permit does **not** create a **right of access** or **access easement** for the property.
- If the property has any legal restrictions that prohibit access to a state trunk highway (STH), WisDOT cannot approve a STH connection permit for the property.
- Please **type or print neatly in ink**. Fill out the required information on **both sides** of this form per the instructions. One form is required per connection. For more information, visit: www.dot.wisconsin.gov/business/rules/property-permits.htm
- Please provide a copy of the property deed with all applications.

WISDOT OFFICE
INFORMATION

Document Identification Number: 46-100253067

 2018
 WisDOT-NW Region-Eau Claire
 Access Management Coordinator
 718 W Clairemont Avenue
 Eau Claire, WI 54701

APPLICANT INFORMATION	1. Applicant Name and Mailing Address – Street/PO Box, City, State, ZIP Code Richard & Estella Bauer W5004 USH 10 Durand WI 54736			2. Property Owner Name / Address (If not applicant)	
				3. If Not Property Owner, Reason for Application	
CONNECTION LOCATION INFORMATION	4. Highway Number(s) USH 10	5. County Pepin	6. ☐ City ☐ Village ☒ Town of: Durand	7. Side of the Highway ☐ North ☒ South ☐ East ☐ West	
	8. Located within the NE Quarter, of the NW Quarter, Section 25, Town 25 North, Range 13 West			9. Fire or Street Number (If applicable) W5003	
	10. Name of Nearest Side Road from Location Distance and Direction from Side Road Brunner Road 3,000 Feet East (Feet or Miles) (N, S, E, W)			11. How far is the location from the nearest non-side road connection on the same highway? 1642 (Feet or Miles)	
	Log Mile or Reference Point (Filled in by WisDOT):				
CONNECTION TYPE INFORMATION	12. Proposed Activity (Check one) ☐ Construct New ☒ Alter Existing ☐ Remove Existing ☐ Permit Existing	13. Proposed Use (Check one – See instructions for category description) ☐ Urban – Commercial/Industrial ☒ Rural – Agricultural ☐ Urban – Residential ☐ Public Road ☐ Rural – Commercial/Industrial ☐ Trail or Trail Crossing ☐ Rural – Residential Is this a change of the existing use (If applicable)? ☐ Yes ☒ No		16. Proposed Trips Per Day (Check one) ☐ Seasonal ☐ 101-1000 ☒ 1-50 ☐ Over 1000 ☐ 51-100 Peak hour traffic count: _____	
	14. Proposed Width: 35'	15. Proposed Surface: Gravel	QUESTIONS 17-27 on BACK PAGE		

All connections have restrictions, which include the information preprinted and filled-in on this application along with any conditions, covenants, supplemental provisions, superimposed notes, and detail drawings added by WisDOT. The applicant shall be responsible for complying with these restrictions along with the construction and maintenance of the connection. It is further understood that WisDOT's approval is subject to applicant's full compliance with relevant state statutes and administrative rules, plus any laws, codes, rules, regulations, ordinances and permit requirements of other jurisdictional agencies. The alteration of this form by the applicant is prohibited. Under s. 86.073 Wisconsin Statutes, WisDOT's permit denial or revocation may be appealed.

The applicant affirms that all information provided on and submitted with this form is correct and complete. Providing incorrect or incomplete information may result in permit denial or revocation as well as criminal prosecution under s. 946.32 Wisconsin Statutes.

Richard & Estella Bauer
 X *Estella Bauer* 5-25-2018
 (Property Owner or Authorized Representative) (Date)
 (If Computer-filled, Brush Script Font)
 715 672-5407 pbrook@nelson-fel.net
 (Area Code and Telephone #) (E-mail address if available)

FOR OFFICIAL WISDOT USE ONLY – DO NOT WRITE BELOW THIS LINE

☒ THE FOLLOWING SUPPLEMENTAL PROVISIONS APPLY

See attached exhibit A for supplemental provisions. This permit is approved and extended as provided herein.

☒ Permit APPROVED (THIS PERMIT IS REVOCABLE)
☐ Permit DENIED
☐ Application DISMISSED

X *Chris Michels* 6/1/2018
 (WisDOT Authorized Representative) (Date)
 (If Computer-filled, Brush Script Font)

☐ Temporary permit. Expiration date:☐ This permit voids / replaces permit #☒ Shared connection

Co-user name: Bechel / Asher

Related permit # 100253068

17. ☒ Yes ☐ No Is the property zoned? Provide documentation from the jurisdictional zoning authority.

18. Explain how the land is currently being used: ag

19. ☐ Yes ☒ No Are you aware of any plan to change the zoning or land use for the property? If yes, explain.

20. ☐ Yes ☒ No Is this connection for property that was part of a land division or assemblage created on or after 2/1/99? If yes, explain.

21. ☒ Yes ☐ No Do you own other property abutting the highway that is next to the property that this connection will serve? If yes, describe. Joining

Note 1: Answering "yes" to #20 or 21 may result in a Wis. Administrative Code Trans 233 review by WisDOT. If this is needed, the processing of your application may be delayed.

22. ☐ Yes ☒ No Does the property abut or border another public road? If yes, provide the road's name.

23. ☐ Yes ☒ No Are there any existing connections serving the property? If yes, how many? _____

24. ☐ Yes ☒ No Are there any restrictions on the number, use, or location of connections to the property?

25. ☒ Yes ☐ No Are there any access easements across the property (recorded or unrecorded)?

Note 2: If you answered "yes" to #24 or 25, provide a copy of all documents relevant to the restrictions and/or easements

26. Provide the property tax identification number: 39-1401365 / Parcel #TD 004-00316-0002

27. What is the proposed construction completion date for the connection? See Conditions of Issuance #9. Early June 2018
SP

004-00323-0000
004-00311-0000
004-00322-0000

FOR ANY NEW CONNECTION OR CONNECTION TO BE MOVED, APPLICANT SHALL PLACE A FLAG OR MARKER IN THE HIGHWAY DITCH OR FORESLOPE (VISIBLE FROM THE HIGHWAY) AT THE PROPOSED LOCATION.

CONDITIONS OF ISSUANCE

1. WisDOT reserves the right to make such changes, additions, repairs, relocations and removals within statutory limits to the connection or its appurtenances on the right-of-way as may at any time be considered necessary to facilitate relocation, reconstruction, widening, and maintenance of the highway, or to provide proper protection to life and property on or adjacent to the highway, or if alternative access to the property becomes available.

2. Except in cases where the indicated connection may be constructed by forces acting on behalf of WisDOT due to a highway improvement or maintenance project, the permittee shall do all of the following: (a) Furnish all materials, do all work, and pay all costs for the construction and maintenance of the connection and its appurtenances on the right-of-way. Materials used and the type and quality of the work shall be appropriate for the connection type specified in this permit; (b) Do all work without jeopardy to, or interference with, traffic using the highway; (c) Promptly restore to WisDOT's satisfaction and at least pre-existing conditions, highway surfaces, shoulders, ditches, vegetation, drainage appurtenances, guardrail, signs, electric conduits/cables, etc. disturbed by any work; (d) Maintain the connection and its appurtenances within the right-of-way limits, which includes keeping them in a proper state of repair, preventing the blockage or impairment of right-of-way drainage, and preventing aboveground obstacles to occur that could cause serious injury or death to a motorist in an errant vehicle; (e) Not disturb or cause the disturbance of any survey marker without the prior written approval of WisDOT.

3. The permittee, indicated on the reverse side, represents all parties in interest, and agrees that any connection or approach constructed by or for the permittee is for the purpose of obtaining access to the property (listed in #26) and not for the purpose of parking or servicing vehicles, or for advertising, storage, or merchandising of goods on the right-of-way.

4. The permittee shall not make any changes to the connection, its appurtenances, or adjacent right-of-way, including, without limitation, changes to the location (#4-11), use (#13), width (#14), surface (#15), or increase the number of trips per day (#16) approved by this permit without obtaining prior written approval from WisDOT. WisDOT will evaluate all potential highway impacts that may arise from the proposed change(s) and therefore, does not guarantee approval.

5. The permittee, successors or assigns agree to hold harmless the State of Wisconsin and its duly appointed agents and employees against any action for personal injury or property damage sustained by reason of the exercise of this permit.

6. WisDOT does not assume any responsibility for the removal or clearance of snow, ice or sleet, or the opening of windrows of such material upon any portion of any connection along any state trunk highway even though snow, ice or sleet is deposited or windrowed on said connection by its authorized representative engaged in normal winter maintenance operations.

7. Under Wisconsin Administrative Rule Trans 401, the permittee shall implement proper erosion control and storm water management measures at all times during work operations and upon completion of the connection to protect all restored areas until the replacement vegetation achieves sustained growth.

8. Rock, asphalt, concrete, timber or other embankment retention or marking treatments for the connection are prohibited.

9. If the permitted work has not been started by the construction completion date, this permit is null and void. If the work has been started but is not finished by the construction completion date, no additional work shall be done unless authorized through an approved written time extension or a subsequent permit from WisDOT. Accomplishment of any part of the work shall verify agreement by the permittee to conform to this permit and to be bound by all of its requirements, restrictions, and obligations, all of which shall continue to be in full force and effect. WisDOT does not guarantee the approval of a time extension or subsequent permit since the conditions WisDOT based its permit approval upon may have changed between the permit approval date and time extension request date.

EXHIBIT A

The following supplemental provisions apply:

Applicant Bauer owns an easement to traverse the East 30' of the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$, Section 25, T25N, R13W, Pepin County, as described in that land contract recorded at Vol. 121 of Records, page 603, official records of Pepin County, Wisconsin and in that deed From Diane S. Olsen to Karen Bechel, recorded at Volume 265 of records, page 459, and as document No. 132780, official records of Pepin County, Wisconsin. Said easement is within the boundaries of the public road, old USH 10, which straddles the quarter-section line between the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ and the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of said Section 25, and has been continuously used to access the lands in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of said Section 25. This permit grants Bauer permission to work in the right-of-way of current USH 10 and former USH 10 to establish a connection better suited for ingress and egress by farm equipment consistent with the need to maintain safe access for a single family residence.

The connection to USH 10 authorized by this permit is for the purpose of providing shared ingress and egress to one single family residence in the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of said Section 25, and agricultural farming access for lands in the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ south of USH 10, the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$, all in Section 25, T25N, R13W, Pepin County, Wisconsin for the number of trips per day indicated in the permit. Any other use of the connection not permitted herein, increase in traffic volume, or change in the type of vehicles utilizing this connection for purposes other than its permitted use may result in the revocation of this permit and in the removal or modification of the connection. Notwithstanding the foregoing, Applicant or shared connection co-user named herein may apply to the Department for permission to change the volume or use authorized at the connection at any time.

Installation shall be performed consistent with the standard detail drawings attached hereto which are made a part of this permit. To provide for proper drainage of the highway, the finished grade of the connection shall be approximately 6 inches below the existing edge of the roadway pavement at a distance of 15 feet from the edge of the roadway pavement.

Fill slopes shall be 6:1 or flatter. An 18" corrugated culvert approximately 50' in length with 4:1 apron sidewalls shall be installed to facilitate drainage of the existing ditch at approximately the location of the existing culvert. The approximately 50' of total culvert length may be achieved by extending the existing culvert to the needed length. The permit holder is required to update both sides of the driveway to a 6:1 side slope and place a 4:1 endwall on each end of the culvert. The culvert shall use the minimum length of pipe necessary to span the driveway and allow for appropriate endwalls. In no event may the length of the culvert exceed 100 feet.

This permit authorizes the construction of a connection that exceeds the width permitted for noncommercial rural driveway connections as authorized by s. Trans 231.01(5), Wis. Admin Code. The reasons for permitting the width exception include: (1) the connection is between USH 10 and old USH 10, two public highways, and a driveway serving a single family residence and therefore could be improved to public road connection standards; (2) the angle formed between the Bauer easement (which traverses old USH 10) and current USH 10 highways is less than 90 degrees at their junction, necessitating an increased width connection in this instance to safely provide improved sight for vehicles and access for large farm equipment; (3) to facilitate large farm equipment turning into the proper lane on USH 10, and (4) to reduce the likelihood of vehicles falling off of or missing the improved portion of the connection and damaging the ditch or highway. This exception has been authorized in the manner

EXHIBIT A (cont.)

provided for in the WisDOT Highway Maintenance Manual, s. 9-10-10, section 8.0, *Throat Width, Driveway Return Radius, and Throat Length*. and Ch. Trans 231, Wis. Admin Code.

The fire or street number to which this permit shall apply is W5003, not W14593 as stated in the application.

All construction and use of the connection shall be consistent with the rights of the servient fee owner to the USH 10 highway, old USH 10, and Bauer easements. All maintenance and snow-plowing of the connection and that portion of old USH 10 over which the Bauer easement traverses shall be responsibility of permittees.

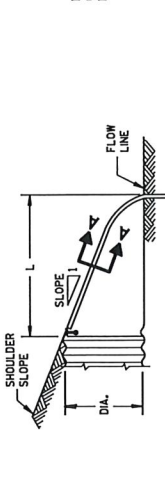
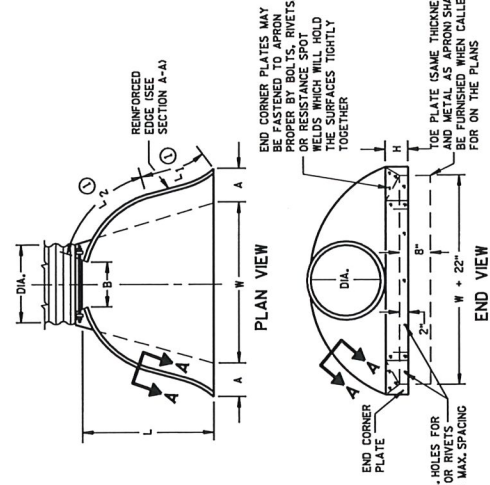
Work under this permit began in June, 2018. Permission is hereby granted to complete work on or before September 1, 2018. See conditions of issuance par. 9 regarding further extension of the time to complete the work authorized by this permit.

For reference:

- The connection permitted by this permit is located at fire number 5003, U.S. Highway 10.
- Bechel co-user property tax ID number is 004-00316-0001.

METAL APRON ENDWALLS									
DIMENSIONS (inches)									
PIPE DIA. (IN.)	MIN. THICK. (IN.)	MIN. STEEL ALUM. (IN.)	A	B	H	L	L ₁	L ₂	APPROX. SLOPE
12	.064	.060	6	6	21	12	17 1/2	84	2 1/2 TO 1
15	.064	.060	7	6	26	14	21 1/2	84	2 1/2 TO 1
18	.064	.060	8	10	31	15	26 1/2	84	2 1/2 TO 1
21	.064	.060	9	10	36	16	31 1/2	84	2 1/2 TO 1
24	.064	.060	10	13	41	18	36 1/2	84	2 1/2 TO 1
30	.079	.075	12	16	51	21	46 1/2	102	2 1/2 TO 1
36	.079	.075	14	19	61	24	56 1/2	102	2 1/2 TO 1
42	.089	.085	16	22	71	27	66 1/2	102	2 1/2 TO 1
48	.089	.085	18	27	81	32	76 1/2	102	2 1/2 TO 1
54	.089	.085	18	30	91	36	86 1/2	102	2 1/2 TO 1
60	.089	.085	18	33	96	39	91 1/2	102	2 1/2 TO 1
66	.089	.085	18	36	101	42	96 1/2	102	2 1/2 TO 1
72	.103	.103	18	39	111	45	106 1/2	102	2 1/2 TO 1
78	.103	.103	18	42	121	48	116 1/2	102	2 1/2 TO 1
84	.103	.103	18	45	131	51	126 1/2	102	2 1/2 TO 1
90	.103	.103	18	48	141	54	136 1/2	102	2 1/2 TO 1
96	.103	.103	18	51	151	57	146 1/2	102	2 1/2 TO 1

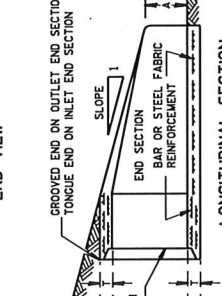
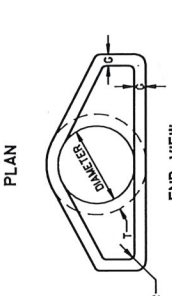
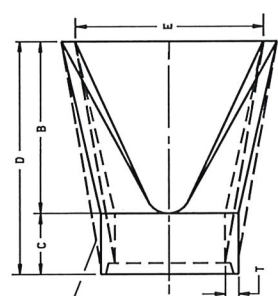
x EXCEPT CENTER PANEL SEE GENERAL NOTES



SIDE ELEVATION
METAL ENDWALLS

REINFORCED CONCRETE APRON ENDWALLS									
DIMENSIONS (inches)									
PIPE DIA. (IN.)	T	A	B	C	D	E	G	APPROX. SLOPE	
12	2	4	24	48 1/2	12 1/2	24	2	3 TO 1	
15	2 1/2	6	27	46	13	30	2 1/2	3 TO 1	
18	2 1/2	6	27	46	13	30	2 1/2	3 TO 1	
21	2 1/2	6	27	46	13	30	2 1/2	3 TO 1	
24	2 1/2	6	27	46	13	30	2 1/2	3 TO 1	
30	3 1/2	10 1/2	48 1/2	96 1/2	24	42	3 1/2	3 TO 1	
36	3 1/2	10 1/2	48 1/2	96 1/2	24	42	3 1/2	3 TO 1	
42	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
48	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
54	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
60	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
66	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
72	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
78	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
84	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	
90	4 1/2	12 1/2	54 1/2	108 1/2	24	42	4 1/2	3 TO 1	

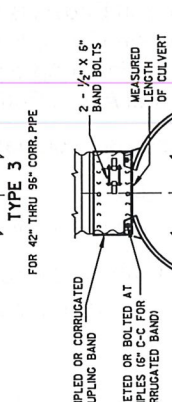
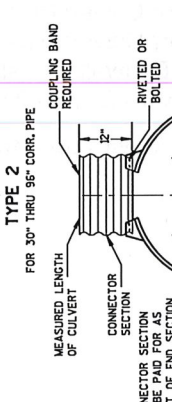
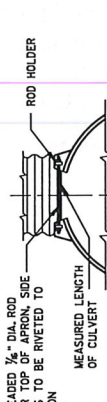
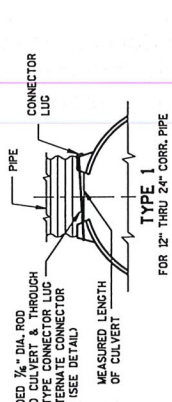
**MAXIMUM



LONGITUDINAL SECTION
CONCRETE ENDWALLS



ALTERNATE FOR TYPE 1 CONNECTOR STRAP
END SECTION CONNECTOR STRAP



ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

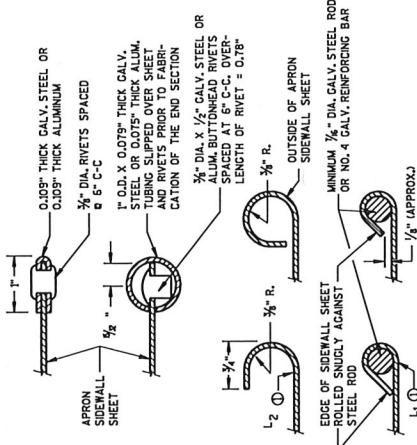
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM ENDWALLS. THE REINFORCED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60\"/>

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS, OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60\"/>

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAD ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

FOR PIPE SIZES UP TO 60\"/>

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-30-94
DATE
/s/ Rory L. Reinhardt
CHIEF ROADWAY DEVELOPMENT ENGINEER
PWA

*Apron Endwalls for Culvert Pipe***References:**[FDM 19-15-70](#)[FDM 13-1-15](#)[FDM 13-1-17](#)**Bid items associated with this drawing:**

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
520.1000 - 1199	Apron Endwalls for Culvert Pipe (size)	EACH
521.1000 - 1199	Apron Endwalls for Culvert Pipe Steel (size)	EACH
522.1000 - 1199	Apron Endwalls for Culvert Pipe Reinforced Concrete (size)	EACH
525.0300 - 0399	Aluminum Apron Endwalls for Aluminum Culvert Pipe (size)	EACH
525.0400 - 0499	Steel Apron Endwalls for Aluminum Culvert Pipe (size)	EACH

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
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SPV.0060 if non-standard size is specified.	
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Other SDDs associated with this drawing:

SDD 8F4	Joint Ties for Concrete Pipe
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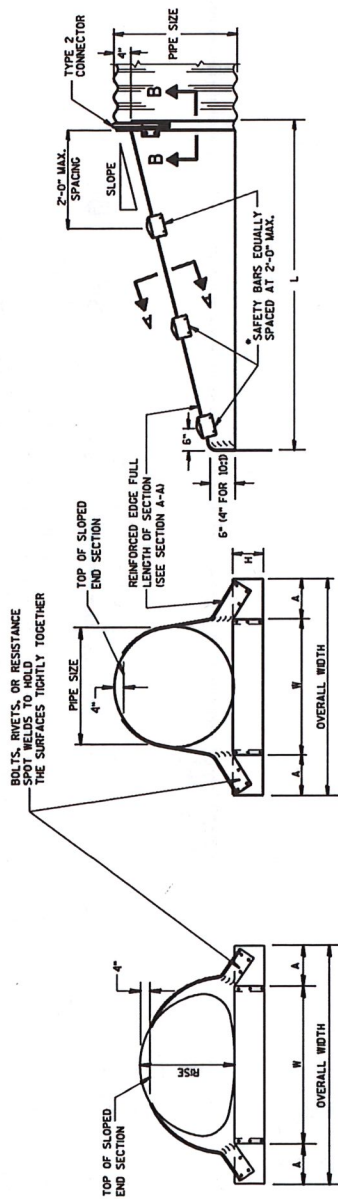
Design Notes:

Joint ties are required for the apron endwall and the last 2 sections of culvert and storm sewer pipe installations. See Standard Specifications.

Contact Person:

Ann-Marie Kirsch (608) 267-3766

8F7: Steel Apron Endwalls for Culvert Pipe and Pipe Arch Sloped Side Drains



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS									
PIPE DIA. (INCHES)	MIN. THICK. (INCHES)	DIMENSIONS (INCHES)			L DIMENSIONS				
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30
18	.064	8	6	24	40	4:1	32	6:1	48
21	.064	8	6	27	43	4:1	44	6:1	60
24	.064	8	6	30	46	4:1	56	6:1	72
27	.064	8	6	33	49	4:1	68	6:1	84
30	.064	8	6	36	52	4:1	80	6:1	96
33	.064	8	6	39	55	4:1	92	6:1	108
36	.064	8	6	42	58	4:1	104	6:1	120
39	.064	8	6	45	61	4:1	116	6:1	132
42	.064	8	6	48	64	4:1	128	6:1	144
45	.064	8	6	51	67	4:1	140	6:1	156
48	.064	8	6	54	70	4:1	152	6:1	168
51	.064	8	6	57	73	4:1	164	6:1	180
54	.064	8	6	60	76	4:1	176	6:1	192
57	.064	8	6	63	79	4:1	188	6:1	204
60	.064	8	6	66	82	4:1	200	6:1	216

*NOTE: THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



MINIMUM 1/2" DIA. GALV. STEEL ROD OR NO. 4 GALV. REINFORCING BAR

3" GALVANIZED PIPE, FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

EDGE OF SIDEWALL SHEET ROLLED TO THE OUTSIDE SNUGLY AGAINST STEEL ROD

1/2" DIA. HOLES

1/2" (APPROX.)

5 1/4"

SECTION A-A

REINFORCED EDGE

1/2" DIA. HEX HEAD BOLTS (TYPICAL)

ISOMETRIC VIEW

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE

NOTE: STEEL END SECTION SHALL BE FIRMLY REDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

MASTIC FILLER REQUIRED

D-1/2"

D-1/2"

D-1/2"

15"

VAR.

NOT

MEASURED LENGTH OF CULVERT

TYPE 2 CONNECTION DETAIL

ROD HOLDER

THREADED 1/2" DIA. ROD OVER TOP OF END SECTION. SIDE LUGS TO BE RIVETED TO APRON

SECTION B-B

CORRUGATION SIZED TO FIT PIPE OR SLEEVE

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2005

DATE

1/2" JACOBY H. ZOGRO

ROADWAY STRUCTURES DEVELOPMENT

ENGINEER

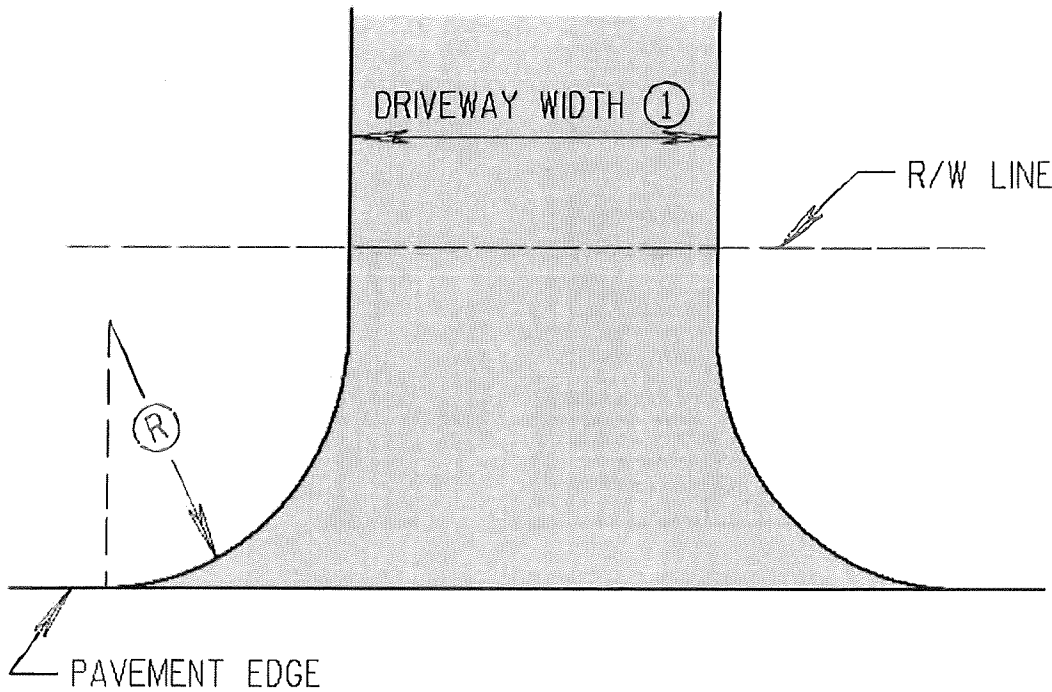
P.W.B.

S.D.D. 8 F 7-5

6

6

DRIVEWAY CONSTRUCTION DETAILS



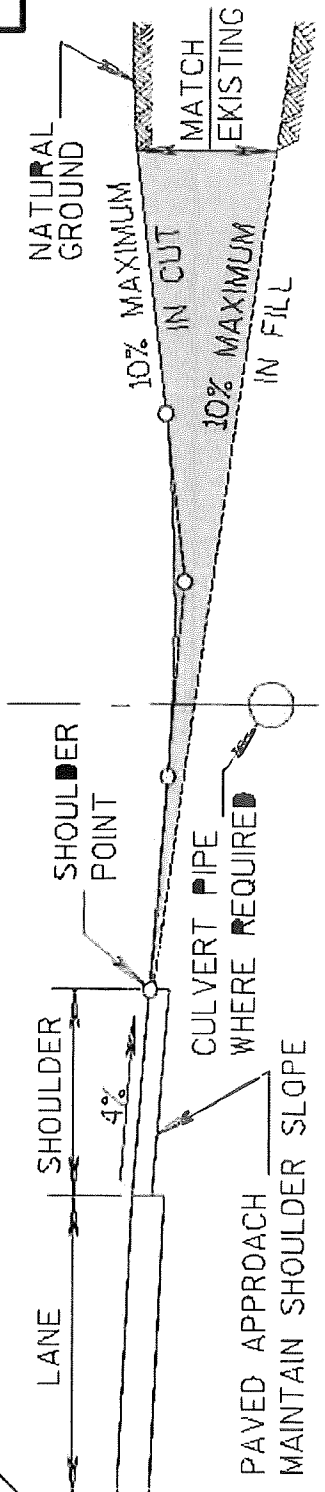
COMMERCIAL

- ① DRIVEWAY WIDTH: 35' max, 12' min
- Ⓡ RADII: 40' max,
(20' for inside angled driveway)

NON-COMMERCIAL

- ① DRIVEWAY WIDTH: 35' max, 12' min
16' desirable
- Ⓡ RADII: 8.5' normal, 30' max

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL
BE CONTAINED WITHIN THE HIGHWAY RIGHT-OF-WAY



CROSS-SECTION

