Utility Accommodation Policy & Permitting Updates

2018 Region Utility Conferences





Today's topics

• 2017 achievements: Permit form and UAP revised

- Overhead line clearance
- Intersections and roundabouts
- Potholing
- Permit issuance
- Work start and finish dates
- Location maps
- Permit drawings what's missing what's added
- Pavement restoration
- Don't do this...

 Tree or vegetation cutting/spraying

Casing

Permit form revisions

	5. Applicant Work Order (If any)	7. Work Location (Check/IList all that apply)	8. Highway (Check-List all that apply)
		Town:	WIS:
 Facility Type (Check all that apply): and Description (Size, material, diameter, kVvoltage, pressure, # 	12. Proposed Work Methods (Check all that apply)	Village:	
fibers, etc.)	Plow		
TelecComm:	Trench	City:	interstate
Electric:	Place fill material	Cou <u>nty:</u>	
Gas/Oil:	CasingHand/mechanical	12 Work Zone Description (Charle all that apply)	14. Is the facility near a survey
Water:	excavation	13. Work Zone Description (Check all that apply)	monument? (HMM 09-15-35)
San Sewer:	Open cut pavement Rock blasting	Not applicable Full road closure: detour	Yes (Call 1-866-568-2852 or
Casing:		Full road closure: temporary	email geodetic@dot.wi.gov)
Conduit:	Bore:	Lane closure: without flagging	No
· · · · · · · · · · · · · · · · · · ·	Hydraulic (Auger/Jack/Tunnel)	Lane closure: with flagging	15. Will any appurtenances be
·	Pneumatic (Mole)	I ane encroachment (2 feet or less)	installed with the facility?- (If yes, provide a description and/or
Transmission 📃 Service:	Directional 1 (Manually tracked) Directional 2 (Computer tracked)	Intersection/roundabou	OPEDT C 12/8/2015 0.28-00 AM
RegStd	Unknown (At this time)	Shoulder/parking lane c inserted:	OBERT C, 12/8/2015 9:28:00 AM
Distribution Service: Exp		Doilroad groccing	pressway location
10. Facility Orientation (Check all that apply)	Attach to poles/towers:	Freeway/expressway location	16. I rans 401 project designation?
Crossing R/W Parallel R/W	New Existing Guys**	Off shoulder: within clear zone<	(Provide a formal erosion control plan for all Major projects with
Underground Overhead	(Diameter) (Name of existing owner)	30' off white line	this application. <u>SeeHMM 09-15-</u> 55)
Structure attachment	(** Provide details for all guy wires on plan sheets)	In R/W: outside clear zoneOff	Minor Major
11. Work Types (Check all that apply)	Pothole (Subsurface-utility	shoulder: ≥ 30' off white line	
New construction	excavation):	Near R/Wright-of-way line:	17. Are any environmental permitsapprovals, certifications or
Improve/repair existing	AirWater jetting	within clear zone or fence	approvals permits required from
Removal	VacuumWater	Non-freeway/expressway location	other regulatory agencies?- (If yes, provide a copy of each item
Maintenance	Tree/vegetation control:	Off shoulder: < 15' off white line	If no, -orprovide proof of other agency coordination as needed
Discontinued, left in place	Cut and/or trim	Near R/W line: outside clear zone	with this application.)
Joint installation	Chemically treat Remove	Off shoulder: ≥ 15' off white line	Yes No
		Back of curb: $< 2'$ behind	
		Back of curb: ≥ 2' behind Not applicable 14. Is the proposed facility	
		- INDE APPRICADIC 14. IS THE PROPOSED FACILITY	



DT1553

APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON **HIGHWAY RIGHT-OF-WAY**

Wisconsin Department of Transportation

7/2017 s. 66.0831, 84.08, 85.15, 86.07(2)(a), 86.16, 182.017 and other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address	2. Work Start Date 3. Work Finish Date*	6. Location Description (1/4 section, section, town, ran	ge; provide plat and/or location maps)
	4. Is the work due to a WisDOT highway project?		
	Yes No		
	5. Applicant Work Order (If any)	7. Work Location (List all that apply)	8. Highway (List all that apply)
		Town:	WIS:
 Facility Type (Check all that apply) and Description (Size, material, voltage, pressure, # fibers, etc.) 	12. Proposed Work Methods (Check all that apply)	Village:	US:
		City:	Interstate:
	Place fill Rock blasting		
	□ Place cable □ Open cut	County:	
Water:	in conduit pavement Hand/mechanical excavation	13. Work Zone Description (Check all that apply). (Provide relevant diagram(s) with application.)	14. Is the facility near a survey monument? HMM 09-15-35
Sewer:	_	Not applicable	If yes, call (866) 568-2852 or email geodetic@dot.wi.gov.
Casing:	Bore:	Full road closure: detour	
Conduit:	Hydraulic (Auger/Jack/Tunnel) Pneumatic (Mole)	Full road closure: temporary	🗌 Yes 🗌 No
	Directional 1 (Manually tracked)	Lane closure: without flagging	15. Will appurtenances be installed
Transmission Service	Directional 2 (Computer tracked)	Lane closure: with flagging	with the facility? If yes, provide a description and/or specification
Distribution Service (ESCP)	Unknown (At this time)	Lane encroachment (2 feet or less)	for each item.
10. Facility Orientation (Check all that apply)		Intersection/roundabout	Yes No
	Install or attach to poles/towers:	Shoulder/parking lane closure	
Underground Overhead	🗌 New 🗌 Existing 🗌 Guys	Railroad crossing	16. Trans 401 project designation? If Major, provide a formal erosion
Crossing Parallel		Freeway/expressway location	control plan. <u>HMM 09-15-55</u>
OSOW high clearance route	(~Diameter) (Name of existing owner) (Provide details for all guy-wires on plan sheets)	\square Off shoulder: < 30' off white line	🗌 Major 🔲 Minor
Structure attachment	(1 Tovide details for all guy-wires on plan sheets)	□ Off shoulder: \geq 30' off white line	
Scenic easement (Off right-of-way)	Pothole (Subsurface excavation):	□ Near right-of-way line or fence	17. Are any environmental approvals,
11. Work Types (Check all that apply)	Air 🗌 Water		certifications or permits required from other regulatory agencies,
New facility Remove	Tree/vegetation control:	Non-freeway/expressway location	including tribal governments? If yes, provide a copy of each
☐ Joint install ☐ Maintenance	Trim (Prune)	Off shoulder: < 15' off white line	item. If no, provide proof of other
☐ Improve or ☐ Discontinue,	Remove (Cut)	□ Off shoulder: \geq 15' off white line	agency coordination as needed.
repair existing left in place	Chemically treat	Back of curb: < 2' behind	🗌 Yes 🗌 No
		Back of curb: $\geq 2'$ behind	

* Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has not been completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. ANY PERMIT ISSUED IS REVOCABLE.

18. Utility Person Responsible for Construction Telephone Number 19. Utility or Project 24/7 Emergency Contact Telephone Number	It is understood and agreed that WisDOT approval is subject to the ap compliance with all pertinent statutes, as well as any regulations and jurisdictional agencies (which may be more restrictive), any suppleme provisions, and WisDOT's <u>Utility Accommodation Policy</u> , current editi	rules of other ental permit	
20. Provide company name and address of utility authorized representative if not employed by the applicant.	(Utility Authorized Representative Signature – If filled via computer, brush script font)	(Date)	
21. Provide additional work details, if needed (use back page or include	(Title) (Telephone Number)	(Email Address)	
separate pages)	This permit does not transfer any land, or give, grant or convey any la land, or easement in WisDOT right-of-way. It is not assignable or tran utility facility changes ownership, this permit terminates. The new ow a permit in order to operate and maintain the facility in WisDOT right-o	sferrable. If a mer must obtain	
For Wisconsin Department of Transportation Use Only			
UTILITY SHALL NOTIFY WISDOT REPRESENTATIVE	Review All Supplemental Permit Provisions	Application Received	
LISTED BELOW 3 DAYS BEFORE STARTING ANY WORK:	Revisions Made to Drawings or Other Pages		
Region contact, office address, telephone number and email address	Lane Closure System notification required <u>HMM 09-15-60</u>	Application Completed	
	Insurance or performance bond required		
WisDOT,	☐ Joint installation: See permit(s) #	Permit Issued	
	I Private utility (Non-public ownership and/or use)	Descrit Extended	
	Private utility (Non-public ownership and/or use) Expedited Service Connection Permit	Permit Extended	
	Expedited Service Connection Permit		
		Permit Extended Permit Amended	
	Expedited Service Connection Permit		
	Expedited Service Connection Permit	. Permit Amended	

(WISDOT Improvement Project ID Numbers, if applicable)

(WISDOT Authorized Representative Signature – If filled via computer, Brush Script font)

PREVIOUS INDEMNIFICATION

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes, harmless from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person. Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.

Notwithstanding the foregoing, a private contractor or subcontractor with the State under Chapter 84 Wisconsin Statutes, that fails to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2007-2008), remains subject to the payment to the Applicant of the actual cost of repair of intentional or negligent damage by the contractor or subcontractor to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-ofway, and remains subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the contractor or subcontractor.

Notwithstanding the foregoing, if the State, or its officers, employees and agents, fail to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2007-2008), the State or its officers, employees and agents, remain subject to the payment to the Applicant of the actual cost of repair of willful and intentional damage by the State, or its officers, employees and agents, to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, and remain subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the State, its officers, employees and agents.

No indemnification of private contractors or subcontractors with the State under Chapter 84 Wisconsin Statutes, shall apply in the event of willful and intentional damage by such private contractors or subcontractors to the property, lines and facilities of the Applicant located on the highway right-of-way pursuant to this permit or any other permit issued by the State for the location of property, lines or facilities on highway right-of-way.

Proposed indemnification

Similar to other state contracts

HOLD HARMLESS: The permittee will indemnify and save harmless the State of Wisconsin and all of its officers, agents and employees from all suits, actions, or claims of any character brought for or on account of any injuries or damages received by any persons or property resulting from the operations of the permittee, or of any of its contractors, in prosecuting work under this permit.

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes, harmless from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed. placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its employees, agents, contractors, subcontractors or officers. frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person. Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.

Notwithstanding the foregoing, a private contractor or subcontractor with the State under Chapter 84 Wisconsin Statutes, that fails to

comply with sections 66.0 31 and 182.0175 Visconsin Statutes (2007-2008), remains subject to the syme to be Applicant of the actual cost of repair of intention or new cent damage by the contractor or subcontractor to any property, lines facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property income



lities on highway right-of-

way, and remains subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the contractor or subcontractor.

Notwithstanding the foregoing, if the State, or its officers, employees and agents, fail to comply with sections 66.0831 and 182.0175



Wisconsin Statutes (2007 2000), and otato or its officers, employees and agents, remain subject to the payment to the Applicant of the actual cost of repair of windul and in antional damage by the State, or its officers, employees and agent to any property, lines or facilities placed by or on behalf of the Applican purpuant to this permit or any other permit issued by the State for location of property, lines or

facilities on highway right-of-way, and remain subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the State, its officers, employees and agents.

No indemnification of print State under Chapter 84 W scopsin Statutes, shall apply in the event of willful and intentional subcontractors to the property, s and located on the highway other permit issued by the State for the location of property, lines or facilities on highway right-or-way.



subcontractors with the private contractors or acilities of the Applicant ght-r way sursuant to this permit or any

CURRENT

INDEMNIFICATION

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes harmless, as allowed by Wisconsin law, from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person.

Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit dy or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.

APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY (continued)

Wisconsin Department of Transportation DT1553

Use this section to provide information that does not fit on front page

21. Provide additional work details, if needed (use back page or include separate pages)

UAP – Revisions

Utility accommodation policy

State ROW permits

(Also known as Highway Maintenance Manual - Chapter 9, Section 15)

Highway maintenance	Procedure	Subject	Current	Previous	Revisions
State ROW permits	09-15-01	Purpose and General Policy	🔁 Jul 2016	🖄 Aug 2014	🕒 View
Utility permits	09-15-05	Statutes and Definitions	🔁 Jul 2016	🛆 Aug 2014	🖾 View
Utility accommodation	09-15-10	Compliance	🔁 Dec 2010		
policy	09-15-15	Permit Process, Application Form & Instructions	🔁 Jul 2017	🛆 Aug 2014	🖄 View
Utility coordination	09-15-20	Expedited Service Connection Permits	🔁 Jul 2017	🔁 Jul 2016	🔁 View
STH connection permits	09-15-25	Location Requirements	🔁 Jul 2017	🕒 Dec 2010	🔁 View
Work on highway ROW	09-15-30	Structure Attachments	🕒 Dec 2010		
permits	09-15-35	Survey Monument Protection	🕒 Dec 2010		
Utility permits on	09-15-40	Controlled-Access Highways	🔁 Jul 2016	🔁 Nov 2011	🔁 View
WisDOT railroad	09-15-45	Construction	🔀 Jul 2017	🖾 Jun 2015	🔁 View
property	09-15-50	Environmental Conditions	🖾 Dec 2010		
STH detour permits	09-15-55	Erosion Control and Stormwater Management	🖾 Dec 2010		
Environmental coordination	09-15-60	Work Zone Traffic Control	🕒 Dec 2010		
		Work Zone Traffic Control Safety Booklet*	🕒 Mar 2013	Jan 2006	N.A.
		Traffic Control, 2-Lane Roundabout	SDD 15D-37		
		Flagger Handbook*	🔁 Mar 2011		
	09-15-65	Requirements for Specific Utilities	🕒 Jul 2016	🖾 Dec 2010	🖾 View
	09-15-70	WisDOT Utility Permit Staff Directory and Region Boundary Map	🕒 Dec 2016	🕒 Jul 2016	🕒 View

*Please discard old versions of these booklets.

Overhead line clearance

• UAP revised to aid overheight freight movement



Overhead line clearance



• HMM 09-15-25, Location Requirements

2.2 Overhead Clearances

Vertical clearances for overhead utility facilities shall comply with all applicable state and national electrical codes. In all cases, facilities crossing over the highway shall at no time be less than 17 feet above the high point of the traveled way. WisDOT has also adopted a network of <u>high clearance routes</u> that require additional clearance for all utility facilities enabling oversize vehicles to safely pass underneath. Facilities crossing over the highways identified on these maps shall at no time be less than the summation of 20 feet plus the closest approach distance in Appendix A, Table A-1, of the National Electrical Safety Code (NESC) 2017 edition.

See Figure 1 for a clearance diagram.

July 2017

Page 1

• Special thanks to electric utilities for helping WisDOT to develop the proper NESC language

¹ The 45-degree cone of support is measured from the top of the monument due to lateral movement potential, whereas it is measured from the bottom for a footing.





Minimum Clearances

Minimum Clearances



10. Facility Orientation (Check all that apply)

Underground
 Crossing
 Parallel
 <u>OSOW high clearance route</u>
 Structure attachment
 Scenic easement (Off right-of-way)

Freight planning maps

Structure and road resources

Consultant contracts

Disadvantage Business Enterprises

Environment

HCCI

Highway maintenance

Real Estate

Roadway design files

Roadway standards

Structures

Traffic operations

Utilities

Oversized Overweight Truck Route (OSOW-TR) maps

These maps are intended for planning purposes only.

- 🗳 Statewide
- 🖪 Milwaukee County
- 🔄 North Central Region
- 🗋 Northeast Region
- Dorthwest Region
- B Southeast Region
- B Southwest Region

OSOW High Clearance Route maps

These maps are intended for planning purposes only.

- 🗳 Statewide
- 🔀 North Central Region
- 🖾 Northeast Region
- 🖾 Northwest Region
- 🖾 Southeast Region
- 🖾 Southwest Region

Wind tower routes

This map is intended for planning purposes only.

• 🖾 Statewide





***Map shows bridge and sign structure constraints with minimum vertical clearance of 2D feet or less. Monotubes structures shown are only for those where mitigation by counter-directional movements is known to not be an option. This data was created for use by the Wiscontin Department of Transportation (WisDDT). Any other use or recompliation of the information, while not prohibited, is the sole responsibility of the user. WisDDT expressly disclaims all liability regarding fitness of the use of the information for other than WisDDT business. No liability, either expressed or implied, is assumed by WisDDT, or their employees, for the accuracy of the data delineated herein.



Intersections and roundabouts

• New language in HMM 09-15-25



5.0 Intersections and Roundabouts

Place new utility facilities to the outside of intersections and roundabouts (RABs) rather than directly through their interior. On improvement projects, relocate utilities away from or to the outside of RABs if handholes, valves, or other appurtenances would be in the driving lanes or truck apron areas. The main reason for this is the difficulty associated with future maintenance and access to the facility due to the need for complex work zone traffic control and/or a detour or closure of the RAB.



Permits involving tree or vegetation cutting/spraying



2.1 Cutting/Spraying Guidelines

All permit applications for spraying require Central Office review, but submit them to the Region office initially. When submitting a permit application for spraying/cutting, explain or identify:

- 1) The highway side(s) the activity will be occurring (map highlighting is acceptable if it is on both sides)
- 2) The chemical(s) that will be sprayed and their active ingredients (provide list to WisDOT upon request)
- 3) How the chemicals will be applied (wand, broadcast)
- 4) The person(s) who will be applying the chemicals and their Wisconsin applicators license number(s)
- 5) How adjacent property owners will be notified prior to spraying (mail, door card, phone, in-person)?
- 6) If the spraying will occur near wetlands or waterways. If yes, has DNR been notified?
- 7) The type of cutting (trimming, selective cutting, whole tree removal)
- 8) What will be done with the cut wood (removed from site, given to nearby property owner, chipped/mulched)?
- 9) How will Oak Wilt and Emerald Ash Borer guidelines be handled, if applicable?
- 10) The types of equipment that will be used (bucket trucks, brushhogs, ATVs)
- 11) The names and cell phone numbers for the lead workers or supervisors on each crew or contractor working in the ROW. If it is not available now, provide when giving WisDOT the 3-day advance start notice.
- 12) How will traffic be handled, i.e., what type(s) of work zone traffic control will be used?

Subsurface utility excavation Potholing HMM 09-15-45, Section 3.3

Table 1: Basic Potholing Steps

- 1) Saw cut pavement full-depth with a bit 12" to 16" in diameter resulting in a "core".
- 2) Remove core and save for reuse if structurally sound.
- 3) Place a protective steel ring to protect the edge of the opening from damage.
- Use vacuum equipment to excavate compacted material from the bottom of base course to beneath the utility facility.
- 5) Perform utility work (e.g., watch bore head, leak repair, service connection).
- 6) Protect utility facility with fine material.
- Place self-mixing flowable fill material from the top of the fine material to bottom of the base course (fill is designed to be traffic-bearing in ~90 minutes).
- 8) Place non-shrink grout (grout is designed to be traffic-bearing in ~90 minutes).
- 9) Place the removed core (or a generic equivalent replacement core) in the remaining opening (original alignment and orientation is maintained if removed core is used) forcing the grout to the surface to fill the annular space and core extraction hole.
- 10) Seal the restored opening.

Pothole (Subsurface excavation):



Figure 2: Improper pothole restoration

Casing: HMM 09-15-45 Section 3.5

9.	Facility	Type (Check a	ll that apply) and	d Description
	(Size, n	naterial, voltage	e, pressure, # fik	ers, etc.)

Comm:	
Electric:	
Gas/Oil:	
Water:	
Sewer:	
Casing:	
Conduit:	
:	



- WisDOT does not require casing
- WisDOT *recommends* casing:
 - For facility protection
 - To aid in future expansion
 - To eliminate future boring costs
- When casing is used, extend it at least:
 - 2 feet beyond the toe of slope
 - 3 feet beyond the ditch line
 - 2 feet beyond the curb in an urban section

Permit Issuance: Maintaining Highway Authority

• Wis. Stat. 86.07(2)(a) – Digging in highways...

(2) (a) Subject to par. (b) and s. 86.16 (1m) (a) 2. and (c) and (6), no person shall make any excavation or fill or install any culvert or make any other alteration in any highway or in any manner disturb any highway or bridge without a permit therefor from the highway authority maintaining the highway. Such permit shall

- WisDOT issues permits on state trunk highways (STHs)
- Local governments issue permits on their highways
 - Includes connecting highways
- On STHs, potential problems with parking areas, terraces and sidewalks in municipalities
 - Typically WisDOT does not maintain these areas



2.0 Policy

A state trunk highway through a municipality remains on the state maintained highway system unless it is designated a connecting highway. If it is not designated a connecting highway, the responsibility for maintenance of the traveled way remains with the department. The traveled way is defined as the width of roadway accommodating through traffic and all marked turn lanes, this includes the paved surface and base course only.

The maintenance of features outside or under the traveled way within a city, village, or urban-section township, is the responsibility of the municipality. These features include, but are not limited to:

- maintenance of the parking lanes,
- curb and gutter,
- sidewalks,
- sidewalks on bridges,
- multi-purpose paths,
- drainage facilities (including all storm sewers, inlets, related manholes and structure, storm water quality devices, etc., either outside or under the traveled way).







WIS 67, Walworth





Permit Issuance: Region v. Central Office (BHM)

- Region offices issue most permits
- Bureau of Highway Maintenance issues permits for:
 - Expedited service connections (Not individual requests for service)
 - The longitudinal occupation of interstates, freeways, and freeway/expressway mixes (hybrids) <u>HMM 09-15-40</u>
 - Communications (including cellular), electric transmission
 - 20-year occupation fee involved
 - All longitudinal installations of private utility facilities
 - All installations not in conformance with, or exceptions to, the Utility Accommodation Policy
 - These two items also require FHWA approval

Work Start & Finish Dates

	1	
2. Work Start Date	3. Work Finish Date★	6. Location Description
4. Is the work due to a W		
🔲 Yes 🔲 No		
5. Applicant Work Order	7. Work Location (List a	
		Town:
12. Proposed Work Meth	Village:	
Trench	Plow	
Place fill	Rock blasting	City:
Place cable	Open cut	County:







2. Work Start Date

Choose date or type Upon Approval

Upon approval

Ŧ

Work Start and Finish Dates: Why are they important?

- Issuance of other utility permits
- Issuance of work on highway ROW permits
- Planned or emergency maintenance work
- Permanent Restoration
- OSOW freight movement



- Utility coordination: improvement projects
- Calls from the public, businesses, press, etc.
- WisDOT needs to know when you are working

3. Work Finish Date★

- * Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has not been completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. ANY PERMIT ISSUED IS REVOCABLE.
 - ★ Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has but has not bee completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. ANY PERMIT ISSUED IS REVOCABLE

Location maps

6. Location Description (1/4 section, section, town, range; provide plat and/or location maps)

7. Work Location (List all that apply)	8. Highway (List all that apply)
Town:	WIS:
Village:	US:
City:	Interstate:
County:	
County map from WisDOT website



Plat map



D'DU LAC COUNTY

Municipal map



fy

State of Wisconsin Department of Transpo<u>rtation</u>



County maps

Travel by road

Commemorative

County maps

highways and bridges

Official highway map

Out-of-state travel

Park and ride lots

Rest areas

RIDESHARE

Rustic Roads

Interactive map | List of counties

The Wisconsin Department of Transportation is pleased to provide highly detailed county maps online. Produced at a 1:100,000 scale, the maps contain the following pieces of information:

- Major local road networks
- Interstate corridors
- U.S., state, and county routes
- Recreation areas
- Points of interest
- Hospitals
- Schools

- Airports
- Urban boundaries
- Railroads
- Town roads with names
- Federal and state forest boundaries
- Indian reservations
- Township boundaries

The maps are color Adobe PDF files at 11" x 17" size. They are single county productions only and **not** designed to act as a foldable roadmap.

Go to the desired county on the map below to see its detailed view or choose from an alphabetical county list.

- To print a detailed view:
 - Open a map
 - Zoom to the detailed area
 - Select print
 - Select options
 - Select current view
 - Select print

State Trunk Highway maps

Scenic Byway program

511 Wisconsin Travel Information



HMM 09-15-15 Permit Drawings

2.3 Permit Drawings

Each permit application shall contain adequate drawings showing the proposed location of the utility facility within the R/W with respect to the existing highway, any proposed highway improvement, and any existing utility facilities. The details shall include dimensions from the proposed utility installation to the commonly accepted R/W line and edge of the traveled way.



Provide dimensions from known points

- Right-of-way line
- Fence
- Edge of pavement
- Edge of travel lane
 - White stripe
- Centerline
- Other utilities
- Scale
- Stationing
- Section lines

MATCH LINE STA. 116+875 SEE SHEET 165



What's missing with an application...

- Erosion control plans
- Traffic control plans
 - Medium to larger projects
- Environmental approvals, etc.
 - DNR, ACOE correspondence, wetland maps
 - Arch/Historical sites
 - Tribal coordination
- 3-day notice sent to WisDOT
- Appurtenances (not labeled, described, etc.)



PRODUCT SPECIFICATIONS

Outdoor Enclosure Manual







Modular Outdoor Equipment Enclosure (MOEE)



What may be added...

SPECIAL SUPPLEMENTAL PERMIT PROVISIONS

It is understood and agreed that approval of this utility permit is subject to applicant's full compliance with the standard supplemental permit provisions, special supplemental provisions found listed below, and the Wisconsin Department of Transportation's *Utility Accommodation Policy (UAP)*, current edition (Also known as Highway Maintenance Manual – Chapter 9, Section 15) http://www.dot.wisconsin.gov/business/rules/property-uap.htm

Permit Number: 2017141(2) Time extension granted 10/19/2017

- Contractor must maintain a 11' minimum lane width (measured from centerline to edge of traffic control for parking lane closure) through areas of parking lane closure, otherwise a lane shift for both directions of travel must be accommodated then.
- 2. (HMM 09-15-60-4.2) Send the LCS request to WisDOT for review and approval at the appropriate time in accordance with the following advance notifications guidelines:
 - a. 7 calendar days for any freeway ramp, lane or shoulder closure
 - b. 7 calendar days for full roadway closure of any state highway (detour involved)
 - c. 7 calendar days for closures that may impact oversize/overweight (OSOW) permits
 - d. 3 business days for closures non-freeway or shoulder closures

Contact Josh Falk, (920) 366-8033 or joshua.falk@dot.wi.gov.

- BRRTS #03-45-269397 (SCENIC VALLEY COOP) Ground water contamination in ROW http://dnr.wi.gov/botw/GetActivityDetail.do?detailSeqNo=269397.
 BRRTS #03-45-001981 (WESTERFELD OIL) ground water contamination, potentially in ROW http://dnr.wi.gov/botw/GetActivityDetail.do?detailSeqNo=28662. WDNR contact information available at links.
- 4. (*HMM 09-15-45-3.2*) Manual tracking is prohibited over traffic lanes. The bore head can be tracked up to the shoulder edge or back of curb.

Pavement Restoration

• Need to do better – starts with the excavation





Figure 2: Concrete pavement repair without sawcut. Note top of pavement edge and missing dowel bar. In lower picture, dowel bars in gutter are bent and not ready to accept slurry.





Don't do this...

HMM 09-15-45

5.2 Pavement Restoration Requirements

Sawcut all pavement full-depth when open cutting. Attachment 3 has examples when pavement is not sawcut.

Concrete pavement shall be restored in conjunction with WisDOT standard detail drawing <u>13C9</u>. Avoid creating additional joints when possible. The minimum dimension for a patch will be 6' by the full lane or shoulder width. High early strength concrete may be specified when needed. Additional guidance on concrete pavement repair can be found in <u>FDM 14-25-10</u>, <u>Exhibit 10.1</u>.

The minimum dimension for an asphaltic concrete patch will be 6' by the distance to the nearest joint or seam. Use hot mix asphalt whenever possible. If cold patch is needed in an emergency, replace with hot mix as soon as possible. Figure 4 below shows improper asphaltic pavement restoration.



Figure 4: Both patches improperly backfilled/compacted, and not patched to nearest joint or seam

















Before



Don't do this...



Don't do this...



November 20 at 7:49pm · Racine, WI · 🛞

How did this happen? This at Taylor Avenue and Wood Road in Mount Pleasant, WI. Taylor avenue just opened after a couple months to rebuild and resurface the roadway. Shouldn't this power pole been removed before the curb and gutter and road resurfacing was completed. What state or local official allowed this to happen?



PLEASE don't do this...



Central Office is moving...

• My new address effective February 28:

Bureau of Highway Maintenance 4822 Madison Yards Way South Building – 5th Floor Madison, WI 53705

PO Box 7986 South Building – 5th Floor Madison, WI 53707-7986





Where can WisDOT's Utility Accommodation Policy be found?

- <u>http://wisconsindot.gov/Pages/doing-bus/real-estate/permits/utility-uap.aspx</u>
- Scan the QR code on the agenda



Comments, questions, criticisms, concerns...

Bob Fasick State ROW Permits Engineer (608) 266-3438 robert.fasick@dot.wi.gov



This presentation is available at:

ftp://ftp.dot.wi.gov/dtsd/bhm/permits/utility/region-utility-confs/