



Attachment 1: Start and Work Completion Notice

Utility Permit Start Work Notice

Provide all information and e-mail or fax to the utility permit coordinator or other region contact listed on the approved permit form **a minimum three working days** prior to the start of the work. When restoration is complete and ready for inspection, e-mail or fax to the same contact.

WisDOT Utility Permit Number:

SOUTHWEST REGION

Mark Goggin
mark.goggin@dot.wi.gov
Fax: 608-243-3380 Madison office
608-789-7896 La Crosse office

Utility Company:

Utility Job Number:

SOUTHEAST REGION

Ryan Schnurer
dotdsdseutilitypermits@dot.wi.gov
Fax: 262-548-6891

WisDOT Project Number:

NORTHEAST REGION

Project Location:

Ray Drake
ray.drake@dot.wi.gov
Fax: 920-492-0144
NE Utility Unit General E-Mail:
dotdsdneutilitycoordination@dot.wi.gov

Utility Contractor Contact Name and 24-Hour Number:

NORTH CENTRAL REGION

Traffic Control Provider and 24-Hour Number:

Keith Rutkowski – Wis Rapids office
keith.rutkowski@dot.wi.gov
Fax: 715-421-7300

Construction Start Date:

Terry Catlin – Rhinelander office
terry.catlin@dot.wi.gov
Fax: 715-365-5780

Construction Completion Date:

NORTHWEST REGION

Heather Dresel
HeatherL.Dresel@dot.wi.gov
Fax: 715-836-2807 Eau Claire office

Completion Notice

Restoration is complete and ready for inspection. File notices within **10 calendar days** of restoration completion. Restore within **two weeks** from completion of utility construction.

Restoration Completion Date:

APPLICATION / PERMIT

TO CONSTRUCT, OPERATE and MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

s.66.0831, 84.08, 85.15, 86.07(2), 86.16, 182.017 and such other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address Carrie Lewis Superintendent Milwaukee Water Works 841 N. Broadway, Rm 409 Milwaukee, WI 53202		2. Work Start Date 3/17/2014	3. Work Finish Date* 4/11/2014	6. Location Description (1/4 section, section, town, range; provide plat map or location sketch) S.E.1/4 of S31; T8N; R21E N. Lovers Ln. (STH 100) - W. Hampton Av.	
9. Facility Type (Check all that apply): Size (Diameter, kV, pressure, # fibers, etc.) <input type="checkbox"/> Telecom: _____ <input type="checkbox"/> Electric: _____ <input type="checkbox"/> Gas/Oil: _____ <input checked="" type="checkbox"/> Water: 11' of 12", 7' of 6" <input type="checkbox"/> San Sewer: _____ <input type="checkbox"/> _____: _____ <input type="checkbox"/> Transmission <input type="checkbox"/> Service: Std <input checked="" type="checkbox"/> Distribution <input type="checkbox"/> Service: Exp		4. Is the work due to a WisDOT highway project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		7. Work Location (Check/list all that apply) <input type="checkbox"/> Town: _____ <input type="checkbox"/> Village: _____ <input checked="" type="checkbox"/> City: Milwaukee <input checked="" type="checkbox"/> County: Milwaukee	
10. Facility Orientation (Check all that apply) <input type="checkbox"/> Crossing R/W <input type="checkbox"/> Parallel R/W <input checked="" type="checkbox"/> Underground <input type="checkbox"/> Overhead <input type="checkbox"/> Structure attachment		5. Applicant Work Order (If any) WT410130752		8. Highway (Check all that apply) <input checked="" type="checkbox"/> WIS 100 <input type="checkbox"/> US _____ <input type="checkbox"/> Interstate _____ <input type="checkbox"/> _____	
11. Work Types (Check all that apply) <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Improve/repair existing <input checked="" type="checkbox"/> Removal <input checked="" type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Discontinued, left in place <input type="checkbox"/> Joint installation		12. Proposed Work Methods (Check all that apply) <input checked="" type="checkbox"/> Trench <input type="checkbox"/> Plow <input type="checkbox"/> Casing <input type="checkbox"/> Rock blasting <input type="checkbox"/> Open cut pavement Bore: <input type="checkbox"/> Hydraulic (Auger/Jack) <input type="checkbox"/> Pneumatic (Mole) <input type="checkbox"/> Directional 1 (Manually tracked) <input type="checkbox"/> Directional 2 (Computer tracked) <input type="checkbox"/> Unknown (At this time) Attach to poles/towers: <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Guys** (Diameter) (Name of existing owner) (** Provide details for all guy wires on plan sheets) Subsurface utility excavation: <input type="checkbox"/> Water jetting <input type="checkbox"/> Vacuum Tree/vegetation control: <input type="checkbox"/> Cut and/or trim <input type="checkbox"/> Mow <input type="checkbox"/> Chemically treat		13. Work Zone Description (Check all that apply) <input type="checkbox"/> Full road closure: detour <input type="checkbox"/> Full road closure: temporary <input checked="" type="checkbox"/> Lane closure: without flagging <input type="checkbox"/> Lane closure: with flagging <input type="checkbox"/> Lane encroachment (2 feet or less) <input type="checkbox"/> Intersection/roundabout <input checked="" type="checkbox"/> Shoulder/parking lane closure <input checked="" type="checkbox"/> Off shoulder: within clear zone <input type="checkbox"/> In R/W: outside clear zone <input type="checkbox"/> Near R/W line: within clear zone <input type="checkbox"/> Near R/W line: outside clear zone <input type="checkbox"/> Not applicable	
18. Utility Person Responsible for Construction Patrick W. Pauly, P.E. Mains Design Engineer		19. Utility or Project 24/7 Emergency Contact Patrick W. Pauly, P.E. Mains Design Engineer		15. Will any appurtenances be installed with the facility? (If yes, provide a description and/or specification of each item with this application.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
20. Is the utility a member of Diggers Hotline? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, provide line-locate number _____		21. Provide additional project work details, if needed (Continue on back or include separate page) Removal of existing hydrant and installation of new hydrant to accommodate paving project 2030-09-70.minor excavation required in State ROW 5ft in Right Turn Lane of W Hampton Av. 16 ft behind curb.		16. Trans 401 project designation? (For all Major projects, provide a formal erosion control plan with this application. See HMM 09-15-55) <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Major	
22. If not employed by applicant, authorized representative's company name and address		23. Signature of Authorized Representative - If filled via computer, Brush Script font <i>Carrie M. Lewis</i>		17. Are any environmental permits, certifications or approvals required from other regulatory agencies? (If yes, provide a copy of each item or proof of agency coordination with this application.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Superintendent of the Milwaukee Water Works (Title and/or print name)		Date Application Received 1/27/2014	
		(414) 286-2801 (Authorized Representative Telephone Number)		Date Application Completed 2/12/2014	
		Carrie.M.Lewis@milwaukee.gov (Authorized Representative E-mail Address)		Date Application Denied	
				Permit Issuance Date 2/12/14	
				Permit Extension Date	
				Permit Number 40U-308-14	

* NOTE: If the work described is not completed by the "Work Finish Date" specified, this permit is null and void, and the work shall not be completed unless authorized through a subsequent permit or an approved time extension. **ANY PERMIT ISSUED IS REVOCABLE.**

18. Utility Person Responsible for Construction Patrick W. Pauly, P.E. Mains Design Engineer	(Area Code) Telephone Number (414) 286-8167	19. Utility or Project 24/7 Emergency Contact Patrick W. Pauly, P.E. Mains Design Engineer	(Area Code) Telephone Number (414) 286-8167
20. Is the utility a member of Diggers Hotline? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, provide line-locate number _____		It is understood and agreed that approval is subject to applicant's full compliance with the pertinent statutes, as well as any rules and regulations of other jurisdictional agencies, which may be more restrictive, and with the Wisconsin Department of Transportation's Utility Accommodation Policy (UAP) , current edition. http://www.dot.wisconsin.gov/business/rules/property-uap.htm	
21. Provide additional project work details, if needed (Continue on back or include separate page) Removal of existing hydrant and installation of new hydrant to accommodate paving project 2030-09-70.minor excavation required in State ROW 5ft in Right Turn Lane of W Hampton Av. 16 ft behind curb.			
22. If not employed by applicant, authorized representative's company name and address		23. Signature of Authorized Representative - If filled via computer, Brush Script font <i>Carrie M. Lewis</i>	
		Superintendent of the Milwaukee Water Works (Title and/or print name)	
		(414) 286-2801 (Authorized Representative Telephone Number)	
		Carrie.M.Lewis@milwaukee.gov (Authorized Representative E-mail Address)	



This permit does not transfer any land; nor give, grant or convey any land right, right in land, nor easement in WisDOT right-of-way. It is not assignable or transferrable. If ownership in a utility facility changes, WisDOT may void and supersede a permit and reissue it to the new owner upon request and with sufficient proof of ownership.

↓ For Wisconsin DOT Use Only ↓

<input checked="" type="checkbox"/> THE UTILITY SHALL NOTIFY WisDOT 3 DAYS BEFORE STARTING WORK AT: Region contact, title, office address, telephone number, and e-mail address Denise Rosenthal SE Region Utility Coordinator 262-548-8733 Wisconsin Department of Transportation 141 NW Barstow Street Waukesha, WI 53187	<input checked="" type="checkbox"/> REVIEW ALL SUPPLEMENTAL PERMIT PROVISIONS <input checked="" type="checkbox"/> REVISIONS MADE to DRAWINGS or OTHER PAGES <input type="checkbox"/> Lane Closure System notification required: HMM 09-15-60 <input type="checkbox"/> Insurance or performance bond required <input type="checkbox"/> Joint installation: See permit(s) # _____ <input type="checkbox"/> Private utility (Non-public ownership and/or use) <input type="checkbox"/> Expedited Service Connection Permit <input type="checkbox"/> This permit voids & supersedes # _____ issued: _____ <input type="checkbox"/>	Date Application Received 1/27/2014
		Date Application Completed 2/12/2014
		Date Application Denied
		Permit Issuance Date 2/12/14
		Permit Extension Date
2030-09-70/71 WisDOT Improvement Project ID Numbers (if applicable)		Permit Number 40U-308-14
<i>Craig Hardy</i> (WisDOT Authorized Representative Signature - If filled via computer, Brush Script font)		

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

Eastern-most northbound lane of N. Lovers Ln. (STH 100) to be affected by construction traffic. Traffic control setup to be similar to Work Zone Safety Manual (2013), pages 32,39.

Installation will impact the W Hampton Av Westbound to N Lovers Ln Northbound - Right Turn Lane. Traffic Control setup to be similar to Work Zone Safety Manual(2013) page 38.

For sidewalk closures, a pedestrian walkway will be provided similar to Work Zone Safety Manual (2013), page 55. When a full sidewalk closure is needed, detour to be provided similar to Work Zone Safety Manual (2013), page 54.

Attendance at the weekly contractor meetings will be required during the time that relocation work is expected to occur in order to coordinate traffic control activities.

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-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 (2007-2008), 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.



Start Work Notice:

1) Prior to the start of utility construction, the utility operator **MUST** forward a copy of the attached utility start work notice to the Wisconsin Department of Transportation (WisDOT) regional utility permit coordinator. Failure to do so will result in revocation of this permit.



Permit Requirements:

2) There shall be no deviations from the approved construction plans covered under this permit without additional written authorization from the WisDOT utility permit coordinator.

3) A complete copy of the permit WisDOT issues a utility for its proposed work shall be in the possession of the utility's work force, consultant, contractor or subcontractor at all times when work is being performed within the right-of-way (R/W). This includes a copy of WisDOT's approval for a service connection under an Expedited Service Connection Permit (ESCP). Electronic copies are acceptable.

4) Failure to maintain a permit on the work site shall cause this permit to become null and void. A subsequent permit will be required to complete the previously permitted work.

5) This permit is valid only for utility construction on WisDOT controlled highway right-of-way. Permits from other federal, state, county and local agencies may be required.

6) Utility construction shall not interfere with any WisDOT construction project or maintenance operation.

7) Underground facility locates shall be done prior to construction.



Work Time Restrictions:

8) No lane closures can occur between the hours of 3 PM and 7PM. No long term (overnight closures) are allowed for this permit



Work Zone Traffic Control:

9) Work Zone Traffic Control (WZTC) shall be in accordance with the Wisconsin Manual of Uniform Traffic Control Devices (WMUTCD) chapter VI.

10) Traffic control shall be maintained throughout construction and shall be altered at anytime upon the request of WisDOT, the county or local highway department or any law enforcement agency.

11) Flaggers shall be used whenever conditions warrant.

12) At the end of each work day, construction signage shall be knocked down or removed. Turning sign faces away from traffic is no longer allowed.

13) Signage in place longer than 7 continuous calendar days shall be post mounted per the attached detail.



Wisconsin Lane Closure System (LCS) Notification:

14) Lane, shoulder, ramp closures or encroachments on XXX XX require lane closure notification to the southeast region traffic engineer. The LCS request shall be sent to WisDOT for review and approval **14 calendar days** prior to the need for a freeway closure, or **3 business days** prior to the need for a non-freeway closure.

15) The utility or their contractor shall set up an account and request lane closures at the following link: <http://transportal.cee.wisc.edu/closures/>



I-94 North/South Freeway and ZOO Interchange Projects Lane Closures and Restrictions:

16) Prior to the start of construction all lane closures and restrictions shall also be coordinated with WisDOT



Traffic Coordinator Stephanie Skowronski at 414-750-1397 or Stephanie.Skowronski@dot.wi.gov

WisDOT Holiday Shutdowns:

17) No utility work with the exception of emergency work shall be performed during the following holidays. All work shall stop prior to and resume after the holidays on the following dates and times. All unnecessary traffic control shall be knocked down or moved outside the clear zone:

Labor Day-August 30, 2013-12pm through September 3, 2013-6am
Thanksgiving-November 27, 2013-12pm through December 2, 2013-6am
Christmas-December 23, 2013-12pm through December 26, 2013-6am
New Years-December 30, 2013-12pm through January 2, 2014-6am
Martin Luther King, Jr. Day-January 17, 2014-12pm through January 21, 2014-6am
Memorial Day-May 23, 2014-12pm through May 27, 2014-6am
Independence Day-July 3, 2014-12pm through July 7, 2014-6am

Wisconsin State Fair:

18) No utility work shall take place on XXX XX during Wisconsin State Fair from August 1, 2013 through August 11, 2013.

Survey Monuments:

19) **NOTE:** The proposed utility work is at or near a WisDOT survey monument. Prior to any construction activity the utility operator shall contact WisDOT at 1-888-568-2852 or geodetic@dot.wi.gov

Freeway System Entry Restrictions:

20) There shall be no entry to the freeway system right-of-way inside the security fences towards the surface of the traveled way for any reason.

Utility Installation at Risk:

21) The proposed facility is being installed at the risk & expense of the facility owner/operator. The work authorized in this permit is within the limits of a future WisDOT improvement project. If the proposed facility will require future relocation and/or adjustment, it will be at the facility owners' expense.

Erosion Control:

22) Prior to the start of construction, all applicable erosion control devices including inlet protection shall be placed, inspected, monitored and maintained on a daily basis by the utility operator or their contractor.

23) Spoil removed from excavations shall be placed in an upland area. The perimeter of each spoil pile shall be wrapped with silt fence or other devices to prevent soil loss or soil run off.

24) Whenever construction operations require dewatering, the displaced water shall be pumped through filter fabric bags or temporary settling basins constructed prior to discharge from the work site.

25) Inlet protection shall be removed once construction operations are complete and the work area is stabilized.

26) Silt fence or other erosion control devices shall be removed after substantial vegetative growth has occurred.

Tree Trimming & Removal Operations Ash Species:

27) Prior to the cutting, pruning or trimming of any ash trees, the utility shall consult the State of Wisconsin's Emerald Ash Borer (EAB) website: <http://www.emeraldashborer.wi.gov/>



28) The utility and their contractor shall follow the rules and regulations as established by the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP).

29) The utility shall contact DATCP directly with any specific questions regarding their work and disposition of ash species while working on WISDOT right of ways.

Tree Trimming & Removal Operations Non- Ash Species:

30) Brush, logs & debris from tree trimming & removal from non-ash species shall be hauled off the work site during and at the end of each work day or chipped.

31) Wood chips from non-ash species shall not be stockpiled. Any non-ash wood chips shall be spread out and dispersed accordingly to match the existing grade.

32) Stumps from non-ash species shall be cut flush to the existing grade.

Existing Pavements & Right-of-Way:

33) Existing inlets, drainage structures, drain tiles or other drainage facilities damaged during construction shall be repaired or replaced in kind. The contractor shall notify WisDOT of any damaged facilities.

34) Equipment and material shall be moved outside the clear zone at the end of each work day.

35) Open excavations shall be plated or protected by other means during and at the end of each work day to ensure public safety. Energy absorbing terminals (EATS) or other crash protection devices shall be used with concrete barrier walls.

36) Existing highway pavements shall be kept and swept clean of mud and debris from construction and trucking operations during and at the end of each work day.

Directional Drill, Bore & Jack, Plow & Trenching Operations:

37) All road crossings shall be bored or directionally drilled. Open cutting of any pavements is strictly prohibited and not authorized under this permit.

38) Manual tracking or guiding of directional drill heads from the pavement surface of the highway for utility crossings is strictly prohibited.

Subsurface Utility Exploration (S.U.E.) Operations:

39) If water jetting is permitted, the utility or their contractor shall furnish to WisDOT digital pictures taken before and after the S.U.E. excavating from the same camera angle of the roadway section. Vacuum excavations need not pictures.

40) The pavement area for removal shall be cored. Saw cutting is prohibited. The core hole over the existing utility in pavement areas shall be no larger than 12" diameter inside the wheel paths and no larger than 16" outside the wheel paths.

41) The areas specified on the construction plan where potential conflicts exists with other existing utilities, shall be the only areas where S.U.E. excavating will be allowed to be completed.

42) Flowable fill or slurry backfill per the attached detail shall be used in zones 1 & 2 to restore the voids left behind from the S.U.E. excavating.

43) The pavement core shall be fastened back in place with utilibond or an equivalent epoxy type adhesive. The pavement core shall be placed flush with the existing pavements.

44) The utility operator shall inspect and monitor the areas were S.U.E was performed on a routine basis.



45) WisDOT will require pavement removal and replacement at the utility operator's expense in areas where S.U.E. was performed and subsequent pavement failure occurs. WisDOT will determine final limits of pavement removal and replacement.

Aerial Construction Operations:

46) A minimum of three work days in advance, the contractor shall coordinate rolling closures for aerial crossings with the respective county sheriff's office and local law enforcement agencies.

47) The rolling closures for the purpose of detaching or attaching an overhead cable crossing the highway shall be completed during off peak traffic hours. The rolling closure shall be completed under dry pavement conditions.

48) The utility or their contractor shall be responsible for all costs associated with the protection of traffic.

49) Anchors and guy cables shall be installed in accordance with clear zone requirements outlined in the WisDOT facilities development manual (FDM) chapter 11-15-1

50) Anchors and guy cables shall be installed in accordance with clear zone requirements outlined in the WisDOT facilities development manual (FDM) chapter 11-45-10 bicycle facilities.

Further details can be viewed in the WisDOT bicycle facilities design handbook at:

<http://www.dot.wisconsin.gov/projects/state/docs/bike-facility.pdf>

WisDOT Improvement Projects Coordination:

51) The utility work is within the limits of a WisDOT construction project. Coordination must be done with WisDOT project manager XXX to ensure closure conflicts do not arise. Contact XXX at XXX-XXX-XXXX or XXX.XXX@dot.wi.gov

52) The utility work is within the limits of a WisDOT construction project. The utility shall attend the WisDOT weekly construction meeting. Contact XXX for time and location.

Soft Surface Restoration:

53) Temporary soft restoration to stabilize the work site shall be completed in a timely manner during and immediately following utility construction. Excess spoil shall be hauled off the work site.

54) Final soft restoration shall consist of placing a minimum 4 " of topsoil, WisDOT spec seed, and fertilizer and erosion mat.

55) The contractor shall notify WisDOT as soon as final restoration has been completed and the work site is ready for inspection.

56) The utility operator or their contractor shall coordinate temporary and final soft restoration and restoration limits with the WisDOT project manager or the WisDOT project leader on the work site.

Soft Surface Restoration- Late Season :

57) For late season seeding and restoration after October 1st. See the attached document.

Sidewalk Removal/ Replacement:

58) Sidewalk removal, backfill requirements and sidewalk replacement shall be coordinated in advance with the respective local municipality (owner).



Open Cut Pavement:

59) Existing pavements specifically authorized for removal to accommodate placement of utility facilities shall be **SAW CUT** full depth prior to the use of pavement breaking equipment.

60) Pavement cuts shall not be completed from November 1st through April 1st. Pavement restoration shall occur before November 1st or before materials become unavailable, whichever occurs 1st.

61) Pavement removed, shall be hauled off the work site during and at the end of each work day.

62) Temporary sheeting and shoring shall be used as necessary to prevent cave-ins.



Slurry Backfill:

63) Slurry backfill per the attached detail shall be the required backfill for excavations in zones 1 & 2.



Granular Backfill:

64) The use of granular backfill in lieu of slurry backfill for excavations within highway pavement areas and shoulder shall be pre-approved or authorized in advance by the WisDOT regional utility permit coordinator.

65) Granular material, shall be placed in lifts or layers 12" or less each in depth, and mechanically compacted to the density of the adjacent and undisturbed material.

66) Water jetting and use of excess water to facilitate mechanical compaction is strictly prohibited.



Concrete Pavement Restoration:

67) Concrete pavement restoration shall consist of replacing in kind the concrete removed with high early strength concrete mix reinforced per the attached details.

68) Pavement restoration shall occur before November 1st or before materials become unavailable, whichever occurs 1st.

69) Concrete pavement shall be replaced from joint to joint. The minimum longitudinal length is 6 feet.

70) Concrete pavement without a bituminous asphalt overlay shall have a tined or heavily broomed finish.

71) Curb and gutter damaged or removed during construction operations shall be replaced in kind per the attached detail.



Bituminous Asphalt Pavement Restoration:

72) Bituminous asphalt pavement restoration shall consist of replacing in kind the bituminous asphalt overlay removed to match the existing bituminous asphalt thickness.

73) Pavement restoration shall occur before November 1st or before materials become unavailable, whichever occurs 1st.

74) Bituminous asphalt shall be replaced from seam to seam and overlay the longitudinal length of the concrete patch. The minimum longitudinal length is 6 feet.



Gravel Shoulders:

75) Gravel shoulder material removed or disturbed due to construction operations shall be replaced in kind, graded and shaped to match the existing gravel shoulders.



Epoxy Pavement Markings:



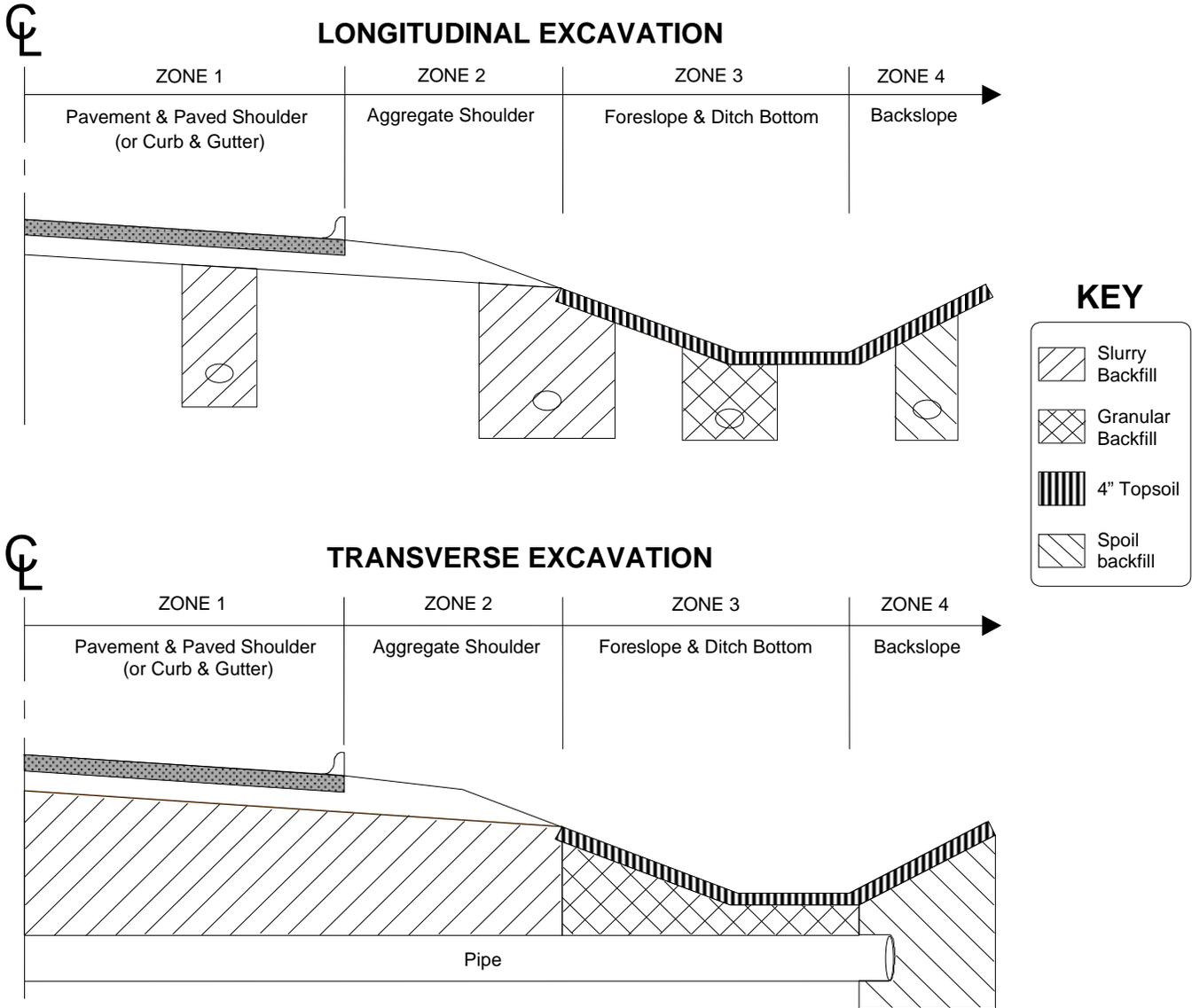
76) Epoxy pavement markings removed shall be replaced in kind with an epoxy based pavement marking paint along with reflective bead materials.

Temporary Pavement Markings:

77) Temporary pavement markings when authorized by the WisDOT regional utility permit coordinator in lieu of epoxy pavement markings that are removed shall be replaced in kind with a latex based or equivalent pavement marking paint along with reflective beads.

78) Temporary pavement markings shall have a 2 year minimum service life.

Attachment 2: Backfilling Excavation Detail Drawings



NOTES

- 1) Use slurry backfill to replace the excavated material in ZONES 1 and 2.
- 2) If the work area covers BOTH ZONES 2 & 3, use slurry backfill to replace the excavated material.
- 3) Use granular backfill to replace the excavated material in ZONE 3. Granular backfill placement and gradation shall conform to WisDOT's Standard Specifications for Road and Bridge Construction, current edition.
- 4) Place backfill in ZONES 3 & 4 to within 4" of the finished grade to allow for topsoil placement.
- 5) Suitable spoil backfill may be used in ZONE 4 at the discretion of WisDOT.

SLURRY BACKFILL

The materials shall be placed in a clean concrete mixer truck and thoroughly mixed in the following quantities FOR EACH CUBIC YARD REQUIRED:

- SAND 1,350 lbs
- #1 STONE 750 lbs
- #2 STONE 1,150 lbs
- WATER 25 gals (0 to -0.5 gal variance)

No additional water will be allowed. The above weights are damp weights. Just prior to placing the slurry backfill, the mixer shall be run at mixing speed for one full minute to assure an even mixture.



Division of Transportation System Development
Southeast Regional Office
141 N.W. Barstow Street
P.O. Box 798
Waukesha, WI 53187-0798

Scott Walker, Governor
Mark Gottlieb, P.E., Secretary
Internet: www.dot.wisconsin.gov

Telephone: (262) 548-5903
Facsimile (FAX): (262) 548-6891
E-Mail: waukesha.dtd@dot.state.wi.us

December 2, 2013

MR. JEFFREY POLENSKE
MILWAUKEE, CITY OF
841 N BROADWAY RM 701
MILWAUKEE, WI 53202

SUBJECT: TRANS 220 WORK PLAN APPROVAL
PROJECT I.D.: 2030-09-70
MAYFAIR ROAD, CITY MILWAUKEE
BURLEIGH ST TO SILVER SPRING DR
STH-100
MILWAUKEE COUNTY

Dear Ms. Cornell:

This letter is to inform you that I have received your proposed work plan for the subject project and have found it to be in conformance with Trans 220.

The utility portion of the Special Provisions of the DOT highway contract is based on your work plan. If any of this information changes, contact me immediately at (262) 548-8733 so that I can correct our contract documents.

You are hereby authorized to proceed with the non-compensable portion of your adjustment and/or relocation work after all necessary permits to occupy highway rights of way have been approved. Please contact me to inform me of the date you plan to start construction and when you have completed the adjustment and/or relocation work.

Please keep in mind that this approval constitutes only DOT acceptance of your work plan. You may need to obtain approvals, permits, or easements from other parties prior to relocating any utility facilities within or outside the project corridor. You will need to coordinate any other approvals needed directly with the affected parties.

It will be necessary to notify me of any substantial change to the planned relocation of your facilities and if you plan to use a subcontractor. If you have any questions, please contact me at (262) 548-8733.

Sincerely,

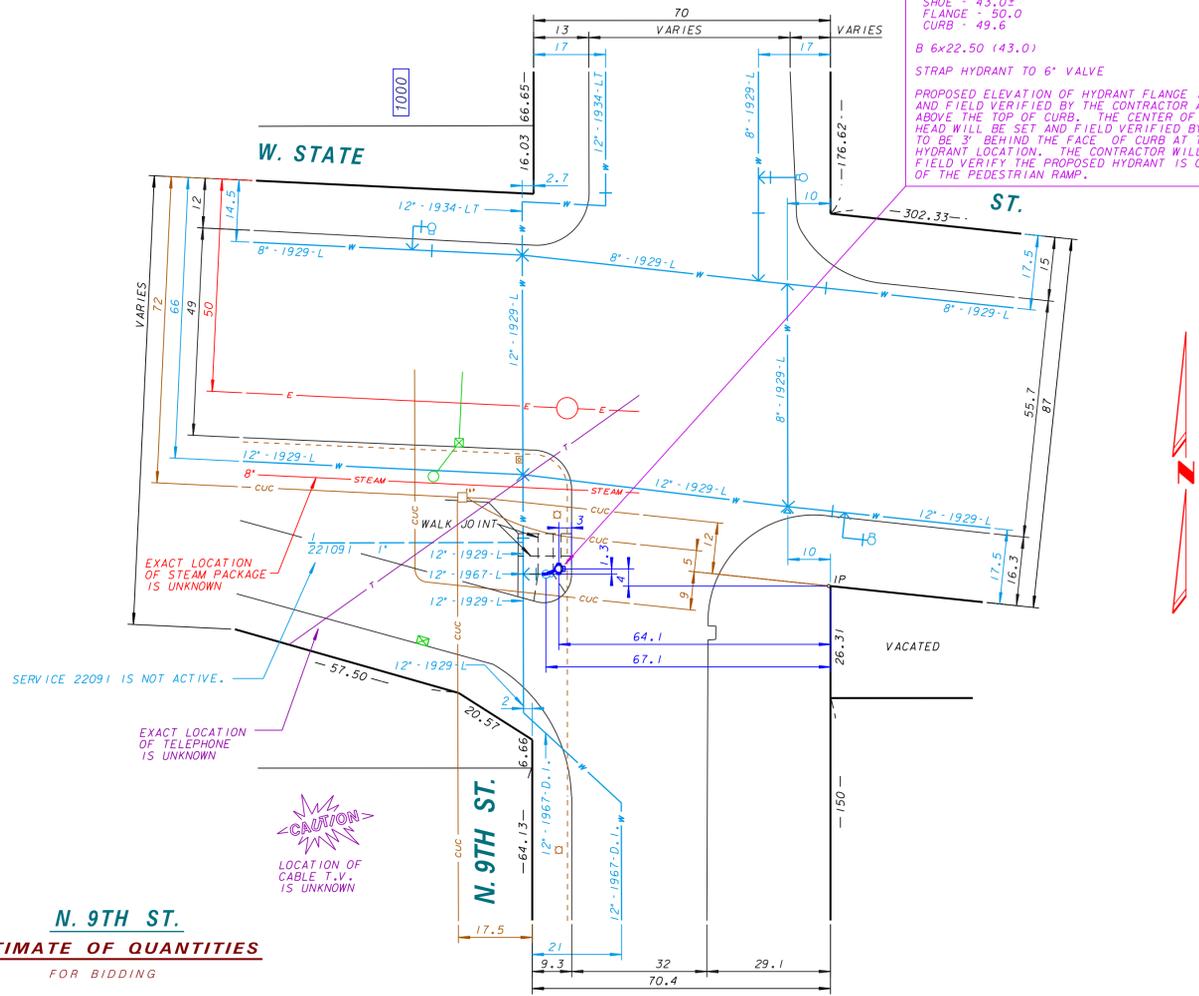
Denise Rosenthal
SE Region Utility Coordinator
denise.rosenthal@dot.wi.gov

Enclosure

REMOVE HYDRANT
 (EXISTING SURFACE GRADE + 49.8±)
 EXISTING 6" VALVE IS NOT STRAPPED
 STRAP 6" VALVE TO TEE
 H (7.0)
 SHOE - 43.0±
 FLANGE - 50.0
 CURB - 49.6
 B 6x22.50 (43.0)
 STRAP HYDRANT TO 6" VALVE
 PROPOSED ELEVATION OF HYDRANT FLANGE IS TO BE SET AND FIELD VERIFIED BY THE CONTRACTOR AT 0.3' (0.1') ABOVE THE TOP OF CURB. THE CENTER OF THE HYDRANT HEAD WILL BE SET AND FIELD VERIFIED BY THE CONTRACTOR TO BE 3" BEHIND THE FACE OF CURB AT THE PROPOSED HYDRANT LOCATION. THE CONTRACTOR WILL INSTALL AND FIELD VERIFY THE PROPOSED HYDRANT IS OUTSIDE THE LIMITS OF THE PEDESTRIAN RAMP.

H (7.0) (STA. 204+00, 53.0 RT.)
 SHOE - 119.3
 FLANGE - 126.3
 CURB - 126.0±
 SL12 (N) (117.3±)
 AT 12x6 (117.3)
 OFS 6x24 (L.L. +2.0)
 AC 6-1.0 (119.3)
 V6 (119.3)
 VB-DD
 AC 6-1.0 (119.3)
 SL12 (S) (117.3±)
 PROPOSED ELEVATION OF HYDRANT FLANGE IS TO BE SET AND FIELD VERIFIED BY THE CONTRACTOR AT 0.3' ABOVE THE PROPOSED TOP OF CURB. THE CENTER OF THE PROPOSED HYDRANT HEAD WILL BE SET AND FIELD VERIFIED BY THE CONTRACTOR TO BE 2.8' BEHIND THE PROPOSED FACE OF CURB AT THE PROPOSED HYDRANT LOCATION.

(STA. 203+30, 75.0 RT.)
 H REM. / MINOR
 SL12 (N) 118.0±
 (SURFACE + 126.0±)
 SL12 (S) 118.0±
 (SURFACE + 126.0±)



N. 9TH ST.
ESTIMATE OF QUANTITIES
 FOR BIDDING

- FURNISH PIPE AND INSTALL
 (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
 4 FT. - 6" HYDRANT BRANCH
- INSTALL
 1 - HYDRANT
- CURB AND GUTTER
 6 LIN. FT. - CONCRETE
- WALK
 120 SQ. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
 LUMP SUM
- FINISHING OF ROADWAY
 LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
 LUMP SUM
- 12 CU. YDS. EXCESS EXCAVATED MATERIAL
- ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS
 1 - HYDRANT

FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED BY THE CITY.
 1 - B6-22 1/2
 1 - H (7.0)
 BENCHMARK
 HYD. - S.W. CORNER OF N. 9TH & W. STATE ST.
 ELEV. 51.89

N. LOVERS LN. RD.
ESTIMATE OF QUANTITIES
 FOR BIDDING

- FURNISH PIPE AND INSTALL
 (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
 11 FT. - 12" WATER MAIN
 6 FT. - 6" HYDRANT BRANCH
- INSTALL
 1 - HYDRANT
- REMOVE
 1 - HYDRANT / MINOR
- PERMANENT PAVEMENT
 10 SQ. YDS. - 3" ASPHALTIC CONCRETE
 10 SQ. YDS. - 9" CONCRETE BASE
- FURNISH AND INSTALL DOWEL BARS
 18 BARS
- WALK
 60 SQ. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
 LUMP SUM
- SAWCUTTING
 35 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- AGGREGATE SLURRY BACKFILL
 8 CU. YDS.
- FINISHING OF ROADWAY
 LUMP SUM

- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
 LUMP SUM
- 30 CU. YDS. EXCESS EXCAVATED MATERIAL
- PAVEMENT TYPE
 N. LOVERS LANE RD. IS STATE HIGHWAY 100 AND IS SCHEDULED TO BE PAVED IN 2014. STATE PROJECT J.D. 2030-09-70
- EXISTING PAVEMENT IN W. HAMPTON AVE. IS 3" ASPHALT (1992) ON 9" REINFORCED CONCRETE (1968).
- EXISTING PAVEMENT IN N. LOVERS LANE RD. IS 3" ASPHALT (1992) ON 9" REINFORCED CONCRETE (1968).
- ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS
 5 FT. - 12" 1968-L WATER MAIN
 6 FT. - 12" 1963-R WATER MAIN
 1 - HYDRANT

FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED BY THE CITY.
 1 - AT 12x6
 1 - OFS 6x24 (LL +2.0)
 1 - V6
 1 - VB-DD
 1 - H (7.0)
 2 - AC 6-1.0
 4 - SL12
 BENCHMARK
 CITY BENCHMARK 71-02 - ELEV. 126.895
 N. LOVERS LANE RD. AND W. HAMPTON AVE. NORTH OF W. HAMPTON AVE. IN MEDIAN ISLAND. 29.9' NORTH OF ISLAND NOSE AND 7.10' WEST OF EAST ISLAND CURB

PLAN LINE & UTILITY LEGEND

GAS	○	SANITARY SEWER	—	STREET LIGHTING	—
ELECTRIC	—	STORM SEWER	—	CITY UNDERGROUND CONDUIT	-cuc-
TELEPHONE	—	COMBINED SEWER	—	PROPOSED CURB / PVM	—
CABLE TELEVISION	—	WATER MAIN	—	PAVING LIMITS	x x x x
FIBER OPTICS	—	WATER SERVICE	—	STRUCTURE / BUILDING	—
PROPOSED UTILITY	—	PRESSURE DISTRICT	—	FENCE	x
POWER POLES	○-CONCRETE ○-ALUMINUM ○-WOOD	WATER MAIN VALVES	—	GATE	—
UTILITIES	□-TRAFFIC SIGNAL □-TRAFFIC CONTROL BOX	HYDRANTS	○-1 NOZZLE ○-3 NOZZLE	BUTTERFLY	—

CALL DIGGERS HOTLINE
 1-800-242-8511
 TELL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE



HYDRANT ALTERATIONS

Milwaukee Water Works
 Department of Public Works
Water Engineering

WATER MAIN

IN **N. 9TH ST.**
 AT **W. STATE ST.**

14 SEC. NO. 391 PROGRAM NO. 2013-753 WORK ORDER WT410130753

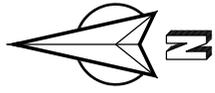
IN **N. LOVERS LANE RD.**
 AT **W. HAMPTON AVE.**

14 SEC. NO. 217 PROGRAM NO. 2013-752 WORK ORDER WT410130752

SCALE 1" = 20'
 PLAN DATE 9-20-2013
 DRAWN BY J.F.S.
 CHECKED BY K.S.R.
 SURVEY BY CONST. SECTION

CONTRACT NO. SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
 O.N. & PROJECT NO. C.C. FILE NO. 121333 DATE ADDED 2-5-13

SHEET NO. 1 OF 1 PLAN FILE NO. 2013TBD



MENOMONIE RIVER

LITTLE

N. LOVERS LANE RD.

12' - 1968-D.I.
(W.E. 222)

02
01

3
120

12' - 1963-R

PROPOSED HYDRANT
PROG. NO. 2013-752

REMOVE HYDRANT
PROG. NO. 2013-752

25
110

VACATED

16' - 1963-R

W. HAMPTON AVE.

W. HAMPTON AVE.

8' - 1968-D.I.

4
110

N. LOVERS
LANE RD.

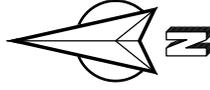
MILWAUKEE
(W.E. 175A)

16' - 1963-R

15

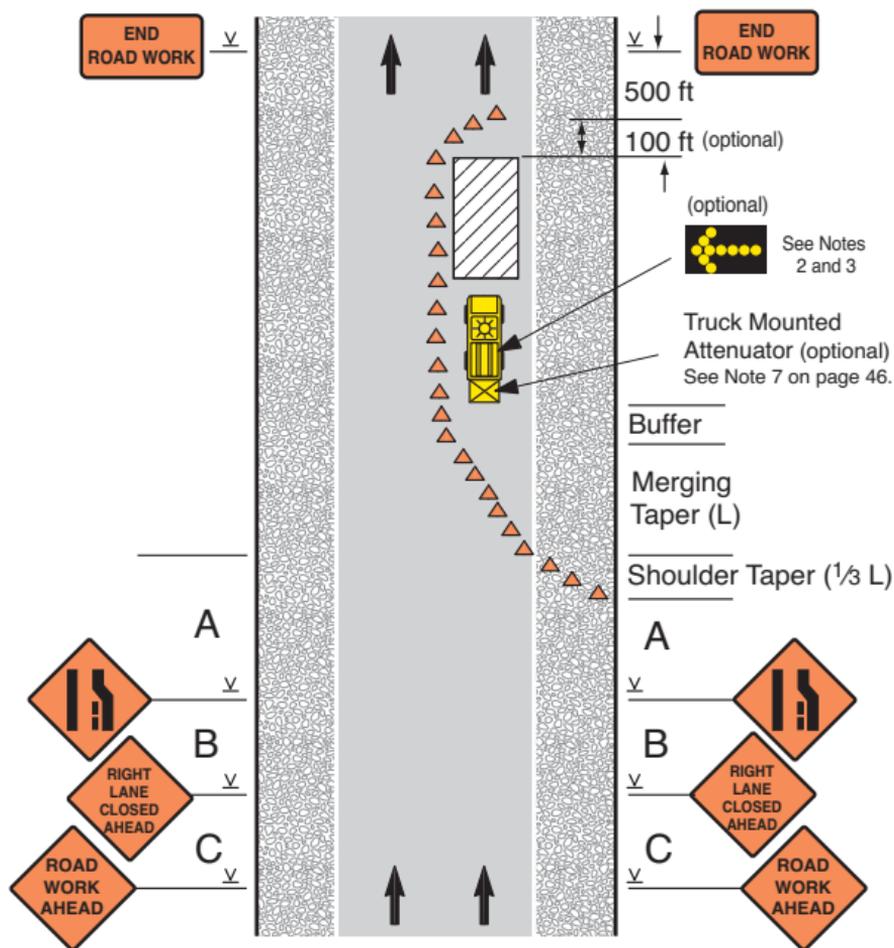
VACATED

N. MAYFAIR RD.



Official Notice Number

Lane Closure on Divided Roadway

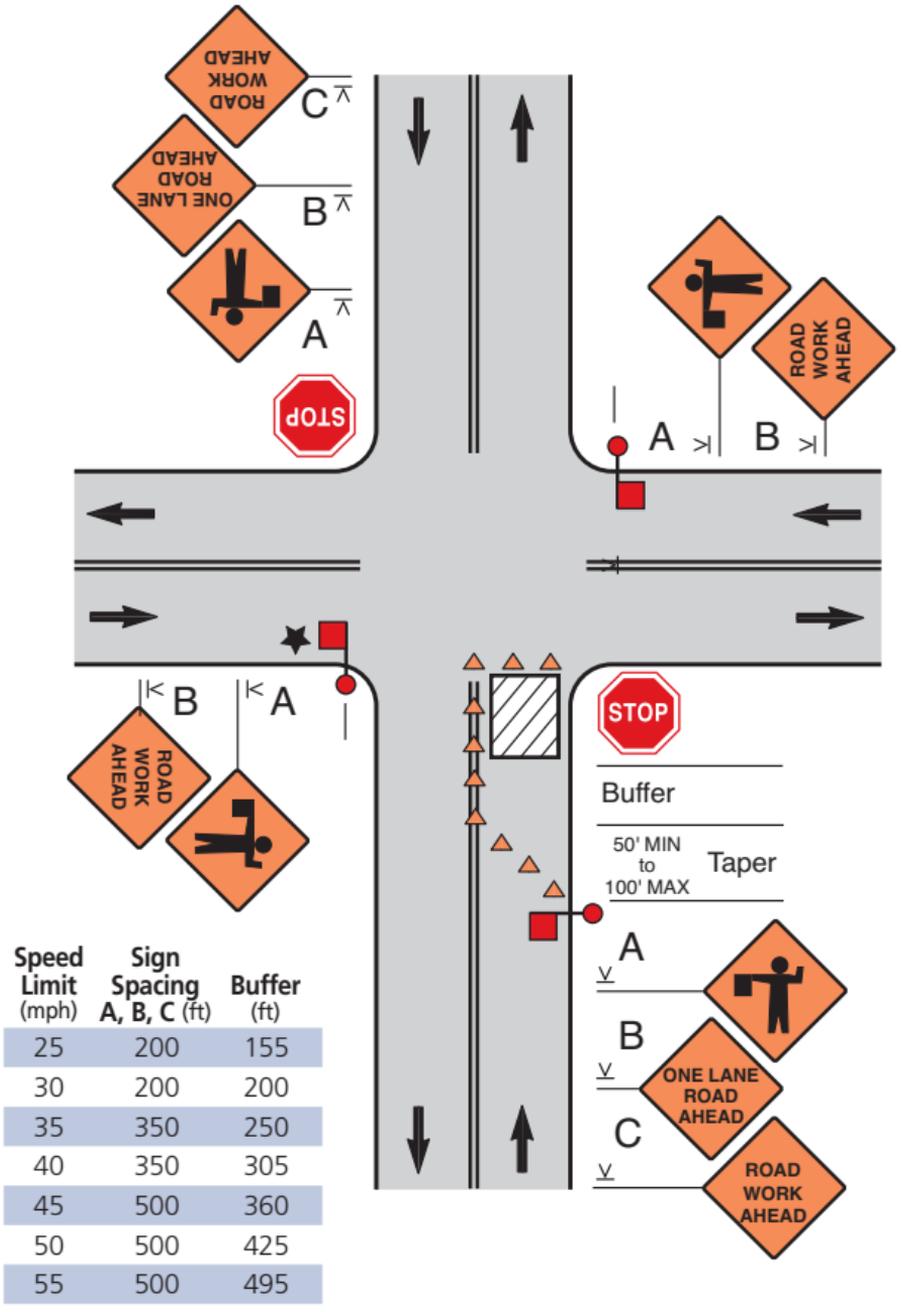


Notes

- When a side road intersects the roadway within the work zone, additional devices shall be erected to channelize traffic to/from the side road, and a ROAD WORK AHEAD sign shall be placed on each side road approach.
- An arrow board shall be used when a freeway lane is closed. When more than one freeway lane is closed, a separate arrow board shall be used for each lane closed.
- Except for freeways, an arrow board is optional based on traffic volume, speed, and visibility. Generally, it is a good practice where speeds are 35 mph or greater. When used, it should be placed near the beginning of the taper or on a vehicle in the work area.
- If an arrow board is not used, a Large Arrow sign or directional indicator barricades in the taper can be used to provide added guidance.

Speed Limit (mph)	Sign Spacing (ft)			Merging Taper (ft) for 12' lane	Buffer (ft)
	A	B	C		
30	200	200	200	180	200
35	350	350	350	245	250
40	350	350	350	320	305
45	500	500	500	540	360
50	1000	1500	2640	600	425
55	1000	1500	2640	660	495
60	1000	1500	2640	720	570
65	1000	1500	2640	780	645

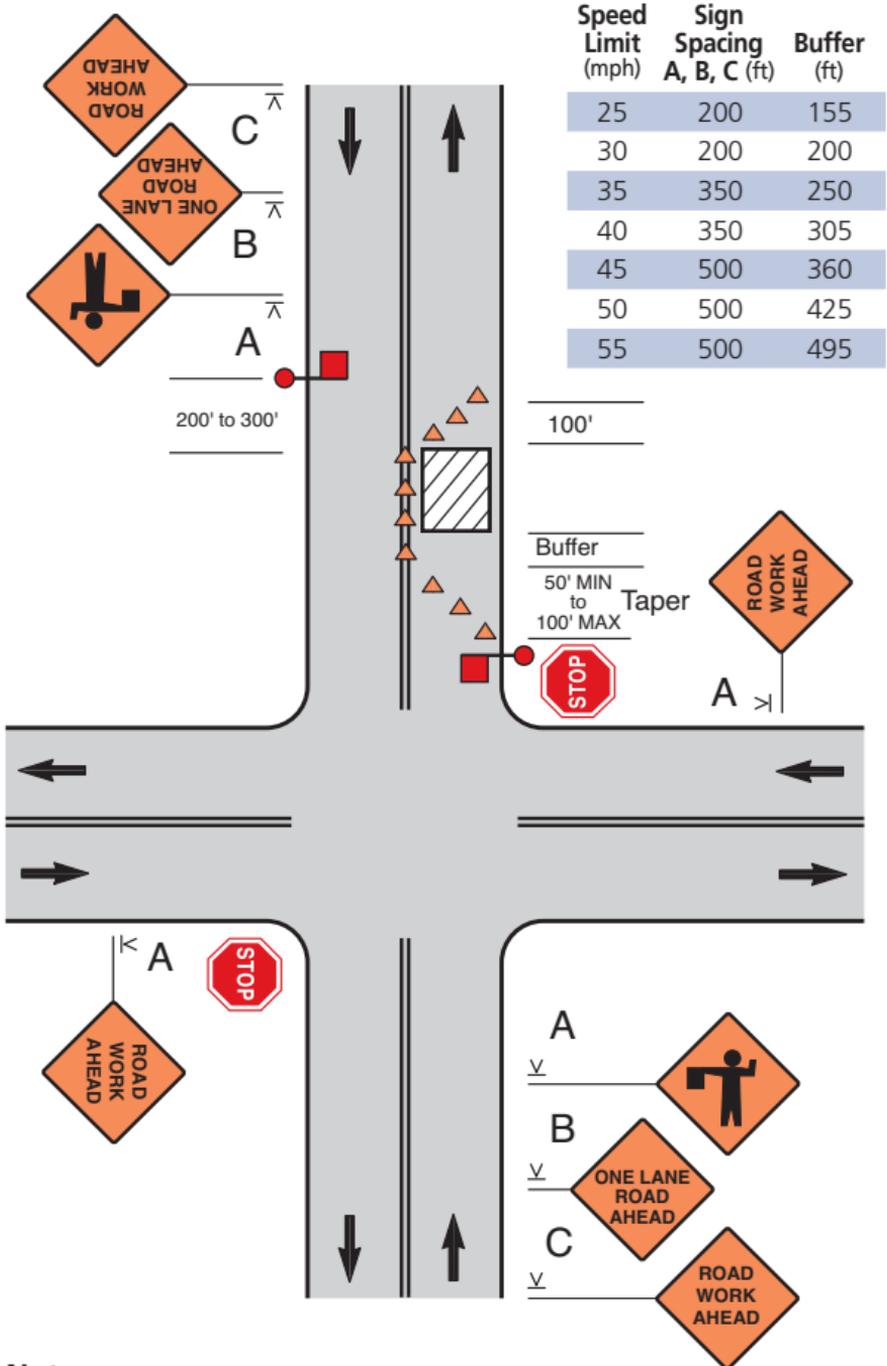
Lane Closure in Advance of an Intersection (Work Area on the Side Road)



Notes

1. Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- ★ 2. The middle flagger has the best view of traffic from all directions and would normally be *lead flagger* and coordinate the other flaggers.
3. The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 56.

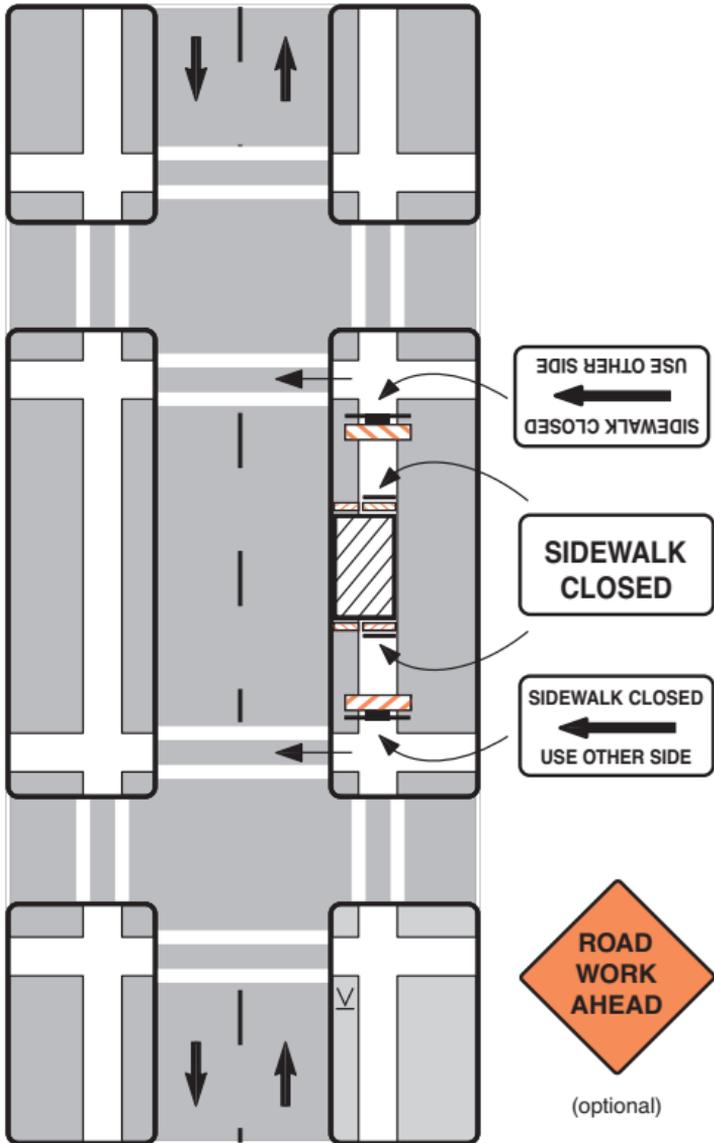
Lane Closure Beyond an Intersection (Work Area on the Through Road)



Notes

- Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 56.

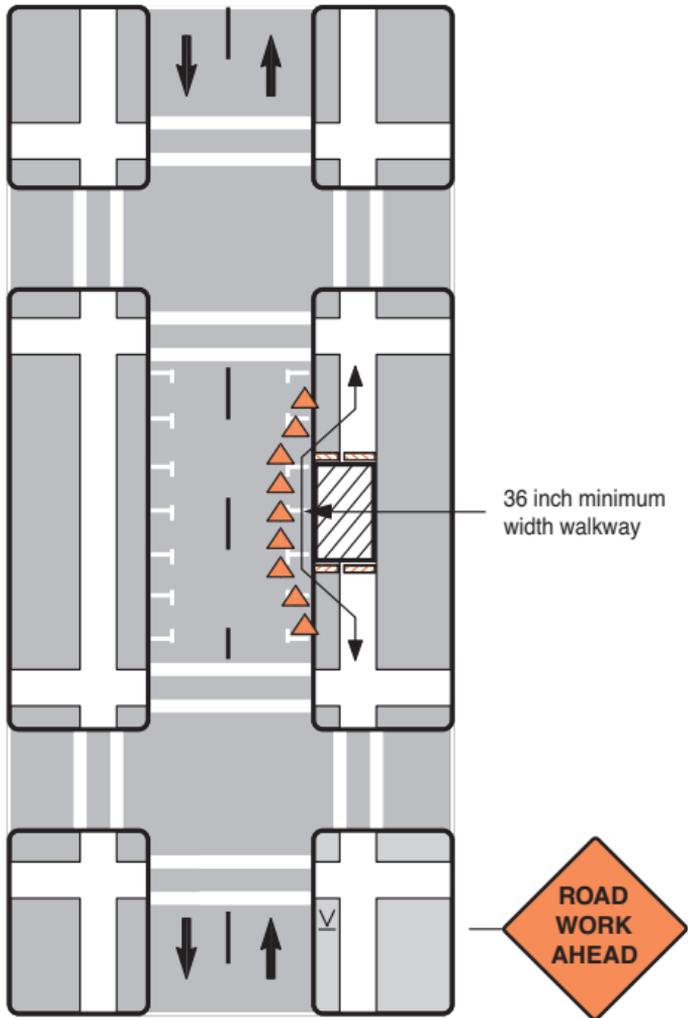
Sidewalk Closure (Pedestrian Detour)



Notes

1. Additional advance warning may be necessary.
2. Only the traffic control devices related to pedestrians are shown. Other devices may be needed to control traffic on the streets such as lane closure signs, ROAD NARROWS or LANE NARROWS signs.
3. For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways.
4. Audible devices should be considered to alert pedestrians with visual disabilities of closings and crosswalk changes.

Sidewalk Closure (Pedestrian Walkway Provided)



Notes

1. Additional advance warning may be necessary.
2. Only the traffic control devices related to pedestrians are shown. Other devices such as lane closure signs, ROAD NARROWS or LANE NARROWS signs may be needed to control traffic on the streets.
3. For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways. Type C or Type D steady-burn lights may be used on channelizing devices separating the temporary walkway from vehicular traffic.
4. Where high speeds are likely, a barrier should separate the temporary walkway from vehicular traffic. Refer to Section 6D.01 of Part 6 of the MUTCD for information on barriers.
5. Signs may be placed along a temporary walkway to guide pedestrians; for example, Keep Right or Keep Left signs.