



Utility Permit Special Provisions Report

February 02, 2012

10 HEADING

THE HEADINGS IN THIS PERMIT ARE MERE CATCHWORDS FOR THE CONVENIENCE OF THE READER AND DO NOT LIMIT OR RESTRICT THE APPLICATION OF THE PROVISIONS. THE SPECIAL PROVISIONS OF THIS PERMIT NEED TO BE READ TOGETHER FOR A COMPLETE UNDERSTANDING OF THE REQUIREMENTS.

11 HEADING - INSPECTION

I. INSPECTION

12 METRO - SUPERVISOR AND DRAINAGE

The installation authorized in this permit will be inspected by {inspectors information}. The applicant or its contractor will notify MnDOT's inspector at least two days prior to starting the installation. Any questions the applicant may have pertaining to MnDOT's storm water facilities shall be presented at this time. MnDOT's inspector will approve all highway materials prior to placement, and the total installation must meet with his/her satisfaction.

Attached is a drainage map that satisfies the requirements for MnDOT storm water utility locates per Minnesota Statutes 216D and Minnesota Rules 7560.0250. By acceptance of a permit from MnDOT, the applicant agrees that it, and all of its agents or contractors, shall use MnDOT's drainage map to identify the location of MnDOT drainage facilities as satisfaction of the requirements of Minnesota Statutes Ch. 216D and Minnesota Rules 7560.0250 with respect to MnDOT's storm water drainage facilities.

The applicant will provide its own inspector at all times while on trunk highway right of way.

13 OUTSTATE - SUPERVISOR OR METRO PROJECT ENGINEER

The installation authorized in this permit will be inspected by {inspectors information}. The applicant or its contractor will notify MnDOT's inspector at least two days prior to starting the installation. MnDOT's inspector will approve all highway materials prior to placement, and the total installation must meet with his/her satisfaction.

The applicant will provide its own inspector at all times while on trunk highway right of way.

15 HEADING - ALL PERMITS

II. ALL PERMITS

16 ALL PERMITS

This permit is issued subject to the applicant's compliance with the rules and regulations of the Minnesota Environmental Quality Board and any other affected governmental agencies.

The applicant must comply with all local ordinances and required local permits.

The applicant will preserve and protect all MnDOT facilities. If MnDOT determines that the applicant or its contractor has damaged any MnDOT facilities during its construction activities, the applicant will repair or replace these facilities to the satisfaction of the Assistant District Maintenance Engineer.

The applicant must preserve all existing survey monuments. If MnDOT determines that the applicant has disturbed or destroyed monuments during its construction activities, the applicant will accept full responsibility for all costs incurred in reestablishing the monuments.

Within 30 days of completing the installation, the applicant must furnish to the Assistant District Maintenance Engineer the Certificate of Completion Form (furnished with permit) and a set of "AS BUILT" plans as stated on the Certificate of Completion.



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17 NO MATERIAL ON ROADWAY
The applicant will not deposit any material on the traveled roadway.

18 WORKING GEAR
All persons while performing authorized work on MnDOT Right of Way shall be required to wear a High Visibility Safety Garment that meets or exceeds ANSI/ISEA 107 2004 Standards for a Class 2 garment for daytime hours and a Class 3 garment with pants for nighttime hours or low light conditions. In addition, all persons shall be required to wear a high visibility soft cap or ANSI Z 89 approved hard hat while working on the MnDOT Right of Way.

20 HEADING - GSOC
III. Gopher State One Call

21 GOPHER STATE ONE CALL - ALL
It is the applicant's responsibility to utilize the "Gopher State One Call" excavation notice system required under Minnesota Statute Chapter 216D, 48 hours before performing any excavation (phone 811 or 651-454-0002 Twin Cities Metro Area or Toll Free 1-800-252-1166 or on the web at: <http://www.gopherstateonecall.org/>).

The applicant will coordinate its proposed installation with other existing facilities in the area. If working within State construction project limits the applicant will also coordinate with other proposed facilities in the area.

The contractor will mark proposed excavation with paint and flags, or in lieu of flags, with stakes. All flags and stakes must display the name and phone number of the contractor. All areas of proposed excavation will be considered "practical" under Minnesota State Statute 216D.05 (2).

The contractor must acquire a Positive Response confirmation from MnDOT for all proposed excavations when the Gopher State One Call indicates MnDOT utilities may be affected. The Contractor may call MnDOT Electrical Services Section (ESS) Dispatch Locating to confirm the status of MnDOT's Utility infrastructure. The contractor can contact MnDOT Electrical Services Section (ESS) Dispatch Locating at the following phone numbers: 651-366-5750 or 651-366-5751.

The use of the term "abandoned" in this permit document and the submitted sketches shall mean that the facility is "left in place, out of service", and the facility remains the responsibility of the utility owner.

25 HEADING - STATE CONSTRUCTION PROJECTS
IV. STATE CONSTRUCTION PROJECTS

26 ON A STATE PROJECT WITH EXISTING FACILITIES TO BE MOVED (N & O)
The applicant will complete the relocation in accordance with the Notice and Order.

27 ON A STATE PROJECT (UTILITY TO WORK WITH CONTRACTOR)
The applicant will coordinate the work and placement of the facility with the State's contractor and will not interfere with the State's operations. Upon completion of the utility construction, the applicant must restore drainage and slopes to the State's Project Engineer's satisfaction. If utility operation disturbs pollution control measures the State's contractor installed according to the National Pollutant Discharge Elimination System permit for the project the applicant must restore these measures to the State's Project Engineer's satisfaction.

30 HEADING - WORK HOURS
V. WORK HOURS



31 OUTSTATE - WORK HOURS

The applicant will not perform work that restricts or interferes with traffic between 12:00 Noon on the day preceding and 6:30 a.m. on the day following any consecutive combination of a Saturday, Sunday, and, when applicable, a Legal Holiday without the Assistant District Maintenance Engineer's written permission.

32 METRO - WORK HOURS

The applicant will not perform work that restricts or interferes with traffic between 12:00 Noon on the day preceding and 6:30 a.m. on the day following any consecutive combination of a Saturday, Sunday, and, when applicable, a Legal Holiday without the Assistant District Maintenance Engineer's written permission.

No work involving interference with or causing a distraction to traffic will be allowed from 6:00 a.m. to 9:00 a.m. and from 3:00 p.m. to 6:00 p.m. unless authorized by the MnDOT Metro Permit Inspector.

33 WINTER WORK (NOV 1 - APR 15)

Work performed from November 1 through April 15 is considered winter work and performed on a day to day basis at the discretion of the Assistant District Maintenance Engineer. The applicant must not perform any work or have any equipment on the roadway system (mainline, shoulder area, ditch bottoms) if there are any MnDOT units out plowing snow or de-icing the roadway system in the permitted work area.

35 HEADING - GENERAL

VI. GENERAL

36 MATERIALS ON R/W - EXCEPT METRO

The applicant must not place materials on highway right of way more than one week in advance of their use.

37 MARKERS FOR ALL EXCEPT SEWER & WATER LINES

The applicant will place markers at the right of way line where there is a change of direction and at driveways. Post mount markers will be a minimum of 36 inches above ground, and use a size and color the uniform color code recommends for that Utility.

38 KNOW FUTURE HIGHWAY CONSTRUCTION IS COMING (EXCEPT INTERSTATE ROADS)

This permit is granted with the condition that if the applicant must adjust, relocate, or remove its facilities because of trunk highway construction, the cost will be entirely at the applicant's expense.

39 EROSION CONTROL FOR ALL LONG PARALLEL AND LARGE FACILITIES

Conditions may require temporary measures to control erosion and sedimentation. The applicant will install any temporary erosion measures concurrently with the operation or as soon as practicable. Temporary erosion controls are short lived devices such as straw bale structures, silt curtains, sediment traps or other means to temporarily protect the overall work prior to restoration of the worksite. The Assistant District Maintenance Engineer will decide when these measures are required according to Section 2573 of the 2005 Standard Specifications for Highway Construction of the Minnesota Department of Transportation.

45 HEADING - AERIAL FACILITIES

VII. AERIAL FACILITIES

46 EXISTING AERIAL CABLE BEING REPLACED (REMOVAL REQUIREMENTS)

The applicant must remove all replaced aerial facilities no more than thirty days after completing the installation. If the applicant fails to remove the aerial facilities before the thirty-day deadline, the applicant must arrange with the Assistant District Maintenance Engineer to obtain a Work Permit (Form 1723) in all instances that the Assistant District Maintenance Engineer considers necessary.



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- 47 AERIAL AND OTHER LARGE POWER LINE CROSSINGS (GUARD POLES)**
The applicant will not place guard poles or substitutions on the right of way before conductor stringing without prior review and approval of the proposed installation by the Assistant District Maintenance Engineer.
- 48 HOUSE MOVING ROUTES ONLY - METRO (MINIMUM HEIGHT)**
All aerial crossings on house moving routes must be a minimum height of 24 feet. If the applicant cannot meet this minimum clearance, it will bury the crossing at a minimum depth of 5 feet below the road surface.
- 49 AERIAL MINIMUM CLEARANCE**
The minimum aerial clearance must be 22 feet on all road crossings. If the applicant cannot meet this minimum clearance, it must bury the crossing at a minimum depth of 5 feet below the road surface.
- 50 TRANSMISSION / AERIAL POWER CROSSING FENCES (GROUND RODS)**
The applicant shall design, construct, and operate the transmission line in a manner that the maximum induced steady-state short-circuit current shall be limited to five milliamperes, root mean square (rms) alternating current between the ground and any non-stationary object within the highway right of way, including but not limited to large motor vehicles and maintenance or construction supplies, equipment or vehicles. The applicant shall ensure that all fixed metallic objects on or adjacent to the highway right of way, including but not limited to signs, light standards and fences that parallel or cross the right of way, are properly grounded to the extent necessary to limit the induced shortcircuit current between ground and the object so as not to exceed one milliamperes rms under steady-state conditions of the transmission line and to comply with the ground fault conditions specified in the National Electric Safety Code. The applicant shall be responsible for the maintenance of these obligations for as long as the aerial power line remains in operation and shall, on a regular basis, inspect all fixed metallic objects for proper grounding.
- 60 HEADING - BURIED FACILITIES**
VIII. BURIED FACILITIES
- 61 PIPE CONSTRUCTION, LAYING LARGE PIPES OR MULTIPLE CONDUITS (FIELD STAKE)**
The applicant will field stake the proposed installation as to location and elevation. The State's inspector must also approve the proposed installation before the start of the installation.
- 62 ALL FACILITIES EXCEPT LARGE PIPES & MULTIPLE CONDUITS (FIELD STAKE)**
The applicant will stake the line and the State's inspector will inspect the line in the field before installation starts.
- 63 CABLE CONSTRUCTION (EQUIP AT R/W) (USE 64 FOR FIBER ON I-94 FIBERWAY)**
The applicant will place all pedestals, transformer cabinets, or underground vaults at the right of way line or on private property. The State's inspector must approve all exceptions to this provision prior to their installation
- 64 FIBER OPTIC CABLE CONNECTIONS ON THE I-94 FIBERWAY (CONNECT MN PROJECT) (LOCATION OF FACILITIES)**
The applicant must install all above ground or buried pedestals, vaults and transformer cabinets, excluding those for MnDOT use, outside of the right of way and on private property. The state's inspector must approve all exceptions prior to installation. The applicant must bundle conduits that cross MnDOT right of way.
- 65 WHEN WORKING AROUND MNDOT FIBER - METRO AREA & I-94 FIBERWAY**
The applicant will use extreme caution when working around MnDOT fiber optic cables. The cable is typically a direct buried armored cable, placed approximately 36 inches deep, with a stretchable, orange warning tape, approximately 12 inches below the surface.



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The applicant will hand dig when exposing the MnDOT fiber optic cable. The applicant will seal all nicks or abrasions of the cable jacket with a rubber splicing tape and seal all nicks or abrasions that penetrate the jacket to the armor with a cast epoxy kit. 3M Scotchcast kits Scotch #23 rubberized splicing materials are approved repair kits. Prior to making repairs the applicant must contact the Traffic

Management Center construction pager, 612-640-6815.

The applicant will not exceed the bending radius while handling and rerouting the cable. The allowable bending radius is 20 times the diameter of the cable.

When construction occurs over the fiber optic cable, the applicant must protect the cable by placing either a split RSC or a split PVC encased in concrete (approximately 1 foot square) over the entire length of the cable affected by the work.

The applicant can contact the Traffic Management Center construction pager, 612-640-6815, Monday through Friday, 6:00 a.m. to 4:30 p.m. for information regarding work around the fiber optic cable.

66 DEEP TRENCHING, POWER & TELEPHONE MANHOLES, WATERMAIN AND SEWER (SHEET AND SHORE)

According to OSHA requirements, the applicant must sheet and shore all excavations, trenching and/or jacking and boring pits. The applicant will not leave any trench unsheeted overnight.

67 CROSSING ROAD BED OPEN TRENCHING (TASKS)

The applicant must perform the following tasks: trench and sheet half of the roadbed, lay {permit.sp60}, backfill and surface the trench, and restore traffic before disturbing the other half of the roadbed.

68 ALL BURIED CROSSINGS & PARALLEL FACILITIES (JACK OR BORE OTHER HARD SURFACED ROADS)

The applicant will jack or bore all public roads and hard surfaced entrances.

69 ALL BURIED CROSSING (RULES REFERENCE)

The applicant must jack or bore installation pursuant to the requirements of Paragraph (1), Section F of the Rules and Regulations or Minnesota Rules part 8810.3600, paragraph 1 and restrict open trenching to the five foot (10 foot on freeways) minimum beyond the shoulders of each roadway to the right of way line. If obstructions in the roadbed force the applicant to discontinue or abandon jacking or augering operations, the applicant must grout any voids the operations caused to the State inspector's satisfaction. The applicant will not use jetting equipment.

70 CROSSING OF PIPES AND CASINGS (6 INCHES IN DIAMETER AND LARGER) (GROUT AND JACK SPECS)

The applicant will use a simultaneous grouting and jacking or boring procedure. The jacking system must have an integral grouting and casing tube with positive piston pressure on the grout throughout the jacking operations.

71 ALL LARGE CROSSINGS, JACKING OR BORING (NOT DIRECTIONAL BORING) (SPECS)

The applicant must use a boring and jacking machine that:

- * Is fixed rail type.
- * Has the capability to control the flow of material at the face.
- * Has the ability to conform to the line and grade and the size and shape of the liner or casing.
- * Is able to grout the outside of the casing.

MnDOT must approve the lead cutting edge of the boring and jacking machine before work begins. If the applicant will use an auger, MnDOT must approve the type and head location before work begins.



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MnDOT must approve all types of grout and backfill material.

MnDOT must approve the length of casing.

MnDOT must approve the final elevations of manholes or any structures.

If a void develops, the applicant must stop jacking or boring until the void is filled by a MnDOT approved method.

The applicant will not jack or bore below the watertable until it has been dewatered.

The applicant will place Piezometers in locations required by MnDOT.

The applicant will use a shield with some method to control the flow of materials when jacking pipe and the shield or machine must conform to the size and shape of the pipe.

72 CROSSINGS WITH CASINGS, JACKED OR BORED (CASING LENGTH)

The applicant will determine the length of the continuous casing pipe by the distance between a point 10 feet outside the in-place shoulder PI plus additional length added for the depth of casing pipe on a 1:1 slope to the top of the casing pipe. On divided highways the casing pipe must be continuous through the median section.

73 ALL LARGE INSTALLATIONS DEEP TRENCH DEPTH WITH POSSIBLE WATER (DEWATERING PLAN)

For any dewatering or pumping operations, the applicant must submit a detailed plan for approval to the Assistant District Maintenance Engineer.

74 ALL PARALLEL CABLE EXCEPT POWER (MINIMUM DEPTH)

The applicant will place all buried cable at a minimum depth of 36 inches.

75 ALL PNEUMA GOPHER AND SMALL JACKING UNDER ROADWAY (MINIMUM DEPTH)

The applicant will place all buried crossings at a minimum depth of 5 feet below the road surface.

76 ALL PLASTIC PIPES 4" AND GREATER PLACED BY OPEN TRENCH METHOD, EXCEPT GAS DISTRIBUTION (ASTM STD)

The applicant will perform all plastic pipe installation procedures according to ASTM D 2774 (Pressure Pipe) or ASTM D 2321 (Non Pressure Pipe).

77 FACILITIES UNDER DITCHES (MINIMUM DEPTH)

The applicant will place facilities that cross ditches a minimum of 36 inches below the original ditch grade. (42 inches for buried power cables)

78 BURIED CROSSINGS (APPROVE EXPANDER)

Before beginning work, the State's Inspector must approve the type of expander the applicant will use in its directional boring operation.

79 BURIED CROSSING (USE JERSEY BARRIER FOR OVERNIGHT)

If the pit or excavation is open overnight in the MnDOT prescribed clear zone, the applicant must use jersey barrier to protect it. The applicant must protect all areas not adjacent to traffic at all times.

90 HEADING - BURIED POWER LINES

IX. BURIED POWER LINES



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- 91 BURIED POWER (DEPTHS AND SEPARATION REQUIREMENTS)**
The applicant will place the higher voltage cables at the greater depth at crossings of other facilities. The separation will be one foot, except for the random lay of joint facilities in a common trench. The depth must meet code requirements.
- In direct plowing operations, the applicant will use depth control to assure placement of the cable at the specified depth (42 inch minimum, 48 inch preferred). The applicant will place lower voltage cables for street lighting systems at a minimum depth of 24 inches.
- 95 HEADING - BURIED GAS FACILITIES AND PIPELINES**
X. BURIED GAS FACILITIES AND PIPELINES
- 96 GAS FACILITIES (NO ABOVE GROUND VALVES OR REGULATORS ON R/W)**
The applicant will not place above ground valves or regulators on the highway right of way.
- 97 GAS FACILITIES (VENT PIPES AT R/W)**
The applicant will place all vent pipes at the right of way line or on private property.
- 98 CROSSING ELEVATIONS OF LARGE PIPELINES UNDER PRESSURE (LIQUID) (AS BUILT ELEVATION REQ)**
No more than 30 days after completing the installation, the applicant will furnish the Assistant District Maintenance Engineer with "AS BUILT" elevations of Points {specific location} as indicated on the permit sketch. Longitudinal installations require elevations at every break in grade or at intervals not to exceed 200 feet. These elevations must be of Sea Level Datum 1929 tied into the U.S. Level Net. The applicant will identify elevation points by highway stationing and the distance out from the centerline of in-place or proposed roadways.
- 99 LARGE GAS PIPELINES CROSSING WITH NO CASING (POLICY REFERENCE)**
The applicant must comply with the applicable requirements pertaining to this crossing as stated in the MnDOT Policy on the Accommodation of Utilities on Highway Right of Way (Dated November 8) (See website at <http://www.dot.state.mn.us/utility/files/pdf/policy/utilities-manual-web.pdf>, Appendix B pages 48 to 50).
- 105 HEADING - BURIED WATER HEADING**
XI. BURIED WATER
- 106 WATER FACILITIES (NO ABOVE GROUND VALVES OR REGULATORS ON R/W)**
The applicant will not place above ground valves or regulators on the highway right of way.
- 110 HEADING - TRAFFIC CONTROL**
XII. TRAFFIC CONTROL
- 111 OPEN TRENCHING WITH DETOUR (PRIOR APPROVAL, TASKS)**
The applicant may detour traffic with the Assistant District Maintenance Engineer's prior approval. The applicant or its contractor must prepare and maintain the detour at its own cost or perform the following tasks to allow traffic on half the traveled way: trench and sheet half of the roadbed, lay {facility type}, backfill and surface the trench, and restore traffic before disturbing the other half of the roadbed.
- 112 OPEN TRENCHING WITHOUT DETOUR (HALF OF ROADWAY OPEN)**
The applicant must keep half of the traveled roadway open to traffic at all times.
- 113 ALL BURIED FACILITIES (MAINTAIN TWO WAY TRAFFIC)**
The applicant must maintain two-way traffic at all times.



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114 ALL AERIAL FACILITIES (NO TRAFFIC INTERFERENCE)

Aerial Facilities will not interfere with traffic at any time.

115 AERIAL (LANE CLOSURE)

The applicant will notify the permit office at least 24 hours before a lane closure or for any other interference to traffic flow. Traffic may only stop for five minutes, or as directed by the uniformed law officer.

116 LARGE POWER LINE CROSSINGS & FREEWAYS (LAW ENFORCEMENT OFFICER AND ADVANCE SIGNING)

The applicant will provide uniformed law enforcement officers with appropriately equipped vehicles to provide traffic control for aerial crossings of trunk highways. The applicant must use advance signing that conforms to Minnesota's "Temporary Traffic Control Zone Layouts Field Manual". (February 2011) (See website @ <http://www.dot.state.mn.us/trafficeng/publ/index.html>)

117 ALL PERMITS (CLEAR ZONE, TRAFFIC CONTROL DEVICES, & LAYOUT)

Unless protected by a traffic barrier, there will be no work within the clear zone. Unless determined by the Department there will be no pipe materials, equipment and other objects stored within the clear zone. The clear zone is defined in the latest edition of AASHTO'S "ROADSIDE DESIGN GUIDE" (2006). If portable concrete jersey barriers are required they will be placed according to the 2005 Minnesota Manual on Uniform Traffic Control Devices, Chapter 6 Temporary Traffic Control, section 6F Temporary Traffic Control Zone Devices, Figure 6F 9 "Portable Concrete Barrier Placement and End Treatments" (Sheets 1 and 2).

The applicant will furnish, install, and maintain all required traffic control devices according to Minnesota's "Temporary Traffic Control Zone Layouts Field Manual" (February 2011)(see website @ <http://www.dot.state.mn.us/trafficeng/publ/index.html>), while performing the construction authorized by this permit.

If the temporary traffic control zone is to remain in place for more than 3 days or involves a detour, road closure or a situation where the typical layouts do not apply, the applicant will prepare a specific Traffic Control Plan for MnDOT approval prior to the start of any construction.

125 HEADING - RESTORATION HEADING

XIII. RESTORATION

126 ALL LARGE PIPES & PIPELINES IF IT APPLIES (TESTING LIQUIDS DISPOSAL)

The applicant will dispose of all water and other liquids used in testing outside the roadbed in a manner the State's inspector approves. The applicant will drain any saturated soils in the pipeline tie in area of the roadbed, or if necessary, remove and replace with suitable material the State's inspector approves. The applicant will not place and compact backfill material in layers that exceed 12 inches.

127 ALL RESTORATION OF TRENCH (BACKFILLING AND COMPACTION)

The applicant will use material removed from the trench for backfilling, if suitable. The applicant will remove all rocks from the trench. To secure satisfactory compaction, backfilling will consist of approved material tamped mechanically (maximum 12 inch layers). The applicant must immediately repair the shoulders and roadways disturbed by these operations with suitable and approved material to conform to existing grades. The applicant must restore drainage and slopes. The applicant must restore any settlement.

128 OPEN TRENCHING OF SURFACED MNDOT ROADS (BACKFILLING AND COMPACTION)

The applicant will use material removed from the trench for backfilling, if suitable. The applicant will restore all base and surface courses it damaged during trenching operations to a condition as good as or better than before operations began. The applicant will compact and consolidate all backfill material in the upper three feet of the grading cross section of the roadbed by mechanical means to a density which



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is 100% of the maximum density of the material specified as defined in Section 2105.3 of the 2005 Standard Specifications for Highway Construction of the Minnesota Department of Transportation. The applicant will compact backfill material below the upper three feet of the grading cross section of the roadbed to 95% density as defined above. The applicant or its contractor will provide any additional material required to backfill to the original grade at no expense to the State. The applicant must restore any settlement.

129 OPEN TRENCHING OF GRADED MNDOT ROAD NOT SURFACED (BACKFILLING AND COMPACTION)

The applicant will use material removed from the trench for backfilling, if suitable. The applicant will compact and consolidate all backfill material in the upper three feet of the grading cross section of the roadbed by mechanical means to a density which is 100% of the maximum density of the material specified as defined in Section 2105.3 of the 2005 Standard Specifications for Highway Construction of the Minnesota Department of Transportation. The applicant will compact backfill material below the upper three feet of the grading cross section of the roadbed to 95% density as defined above. The applicant or its contractor will provide any additional material required to backfill to the original grade at no expense to the State. The applicant must restore any settlement.

130 OPEN TRENCHING OF SURFACED MNDOT ROAD DURING CONSTRUCTION (PAVEMENT REQUIREMENTS)

The applicant must extend the pavement opening one foot beyond each edge of the trench and extend to all existing cracks or joints located five feet or less from the edge of the trench. The concrete must be cut with a concrete saw and to such depth that will assure a clean break. The replacement pavement slab will be to existing grade and cross section. The applicant must use approved high early strength concrete. Dowel bars must be used when considered necessary by the State's inspector.

131 ALL RESTORATION

The applicant must restore all base and surface courses damaged during trenching operations to a condition as good as or better than before operations began. The applicant must restore any settlement.

132 ALL THAT APPLY (RESTORE ENTRANCES)

The applicant will satisfactorily restore all entrances it disturbs during the operations.

133 RESTORE CURB AND/OR SIDEWALK TO ADA STANDARDS - ALL THAT APPLY

The applicant will satisfactorily restore all curb and/or sidewalk it disturbs during its operations. Any disturbed pedestrian curb ramps and sidewalk shall be constructed to the new ADA (American Disability Act) standards based on guidance found in the MnDOT Curb and Ramp Guidelines Document at www.dot.state.mn.us/ada/documents/curbramp.pdf. Further information can be found in the PROWAG (Public Rights of Way Accessibility Guidance) at <http://www.access-board.gov/prowac/draft.htm>.

134 DRAINAGE CONCERNS - ALL

The applicant will locate and stake all drainage tile lines to location and elevation.

The applicant will restore all drainage structures it removes or damages to a condition as good as or better than before operations began.

135 FENCING CONCERNS - ALL AS NEEDED

The applicant will replace or restore all permanent fencing it removes or damages during the operations.

The applicant must place temporary fencing until permanent fencing is replaced or restored.

136 TOPSOIL, SEED & SOD - ALL AS NEEDED

The applicant will restore all disturbed areas with a minimum of 6 inches of topsoil (according to MnDOT Standard Specification 2105 Table 1 Topsoil Borrow), then sod or seed. Seed or sod must be



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the same as or compatible with the existing turf cover. According to MnDOT Specification 2575, if seeding is necessary, the applicant must use a MnDOT seed mixture comparable to the existing turf along with Type 1 Mulch and Disk Anchoring.

140 **HEADING - VEGETATION**
XIV. VEGETATION

141 **TREE & PLANT CARE - ALL THAT APPLY**

The applicant will replace in kind all plants or trees it removes or damages during its operations. The Assistant District Maintenance Engineer must approve all tree trimming or clearing.

The applicant will dispose of trees, brush, stumps, roots, and other debris or byproducts by chipping, tub grinding, or marketing. Chip/mulch can be used as erosion control for the project, however, any mulch/chip and debris not used will be removed from the right-of-way. If stumps are not ground out, they must be cut no higher than 3 inches above the ground line and treated with an herbicide to inhibit re-sprouting. If the stump is treated, the applicant must submit a record of herbicide application to the Assistant District Maintenance Engineer. Dispose of ash, pine, elm, and oak wilt infected trees in accordance with proper forestry disposal standards that prevent spreading insects and disease pests.

Do not market ash trees to the wood-using industries or individuals without having an Emerald Ash Borer compliance agreement with the Minnesota Department of Agriculture. Do not make ash or non-coniferous species with bark attached available to the public for use as firewood from the quarantined area. Do not transport entire ash trees, limbs, branches, logs, chips, ash lumber with bark, stumps, and roots outside of a quarantined county without fulfilling the requirements of an Emerald Ash Borer compliance agreement with the Minnesota Department of Agriculture. Contact the Minnesota Department of Agriculture to speak with a regulatory official and visit the Minnesota Department of Agriculture Emerald Ash Borer website to determine the quarantine area.

Dispose of ash trees in accordance with the following:

- (1) The Emerald Ash Borer compliance agreement, and
- (2) Use the ash wood chips within the construction limits for erosion control, construction exit pads, or landscaping purposes.

To prevent the spread of oak wilt, the applicant will avoid all wounds to oak trees during April, May and June. If the applicant's operations result in wounds to oak trees during these months, including roots, the applicant must immediately treat wounds with a latex based paint.

The applicant will protect all specimen trees and other plants that are designated to remain during operations with fencing when necessary. The applicant will place temporary fencing prior to starting any utility work and leave in its original position until all work is completed.

Except as designated by the Assistant District Maintenance Engineer, the applicant may not store material, equipment, vehicles, or carry on any construction operation inside the dripline of any tree.

On trees designated to remain during operations, the applicant will cleanly and immediately cut off any roots it exposes or damages inside the critical root zone area and immediately place topsoil over the exposed area. If the applicant wounds a tree designated to remain, they must notify the Assistant District Maintenance Engineer.

145 **HEADING - MISCELLANEOUS (USE FOR BONDS)**
XV. MISCELLANEOUS

146 **SPECIAL CASE FACILITIES ON FREEWAY (HARDSHIP)**

MnDOT will charge the applicant for any additional identifiable costs incurred by the Department in accommodating existing utility facilities during maintenance operations and reconstruction projects.



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These costs include but are not limited to the following:

1. Design
 - A. Data collection.
 - B. Determination of the different phases of the reconstruction project.
2. Reconstruction
 - A. Cost to work around the utility.
 - B. Delays caused by the utility's inability to move their facility.
 - C. Construction claims due to delays.
3. Maintenance
 - A. Delays in maintenance due to the failure to locate their facility.

The applicant agrees to waive all future claims to relocation costs caused by any maintenance or reconstruction of the transportation system that require the utility to relocate its facilities. Violation of any conditions of the permit in any of the above conditions may be cause to revoke the permit.

- 147 ALL FACILITIES THAT DO NOT HAVE A CONTINUING BOND**
The applicant or its contractor must furnish a certified check or surety bond in the amount of {dollar amount}, in favor of the State of Minnesota, Commissioner of Transportation.
- 148 CITY OF MINNEAPOLIS (ADD ROBERT CARLSON TO CC ON WORK SHEET)**
This permit is approved but subject to the further recommendations of the City of Minneapolis. Contact Utility Connection at 612 673 2451.
- 149 ST CLOUD AREA PERMITS (COPY TO SCOTT SCHRIEBER CITY OF ST CLOUD, 400 2ND ST S, 56301)**
The applicant must comply with all local ordinances and required local permits.