CHAPTER 8820 DEPARTMENT OF TRANSPORTATION STATE AID FOR LOCAL TRANSPORTATION DIVISION STATE-AID OPERATIONS

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8820.0100 DEFINITIONS.

Subpart 1. Scope. For purposes of this chapter the following terms have the meanings given them in this part.

Subp. 1a. **ADT**. "ADT" means average daily traffic, which is computed by dividing the total number of vehicles traveling over a segment of roadway in one year divided by 365.

Subp. 2. Advance encumbrance. "Advance encumbrance" means the authorized expenditure of local funds, in lieu of state-aid funds, by a county or municipality for use on an approved state-aid project. By agreement with the commissioner, the local funds will be repaid to the county or urban municipality from future county or municipal state-aid allotments or from future county or municipal turnback funds.

Subp. 2a. Agency agreement. "Agency agreement" means an agreement between a city, county, or other governmental unit and the commissioner by which the city, county, or

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other governmental unit may appoint the commissioner as the agent, with respect to federally funded projects, to accept and receive federal funds made available for projects and to let contracts in accordance with law for the construction or improvement of local streets or roads or other construction projects.

Subp. 2b. City. "City" means a statutory or home rule charter city.

Subp. 3. City engineer. "City engineer" means a registered engineer employed as the city engineer or the director of public works, city engineer of each urban municipality.

Subp. 3a. City of the first class. "City of the first class" has the meaning given it in Minnesota Statutes, section 410.01.

Subp. 4. **Commissioner.** "Commissioner" means the commissioner of the Minnesota Department of Transportation.

Subp. 4a. **Construction and reconstruction of town roads.** "Construction and reconstruction of town roads" means the construction of a new town road or the reconstruction of a town road or any part of a town road upon which new or improved traffic service will be provided. At a minimum, reconstruction consists of the resurfacing of a gravel roadway with aggregate at the rate of 700 tons per mile or the application of an aggregate seal to a bituminous surfaced roadway.

Subp. 5. County highway engineer. "County highway engineer" means a registered engineer employed as the county highway engineer or the director of public works, county highway engineer of each county.

Subp. 6. County-municipal account. "County-municipal account" means a separate record of that portion of the county state-aid highway funds allocated for expenditure on county state-aid highways within cities having less than 5,000 population.

Subp. 7. **Disaster account.** "Disaster account" means an account provided by law for use in aiding a county or urban municipality that has suffered a serious damage to its county state—aid highway system or municipal state—aid street system from fire, flood, tornado, or other uncontrollable forces of such proportion that the cost of repairs to that county state—aid highway system or municipal state—aid street system is beyond the normal resources of the county or urban municipality.

Subp. 8. **Disaster board.** "Disaster board" means a board, appointed in accordance with law, to investigate and report its findings and recommendations to the commissioner as to a county's or urban municipality's claim of a disaster or unforeseen event affecting its county state–aid highway or municipal state–aid street system and resulting in a financial hardship.

Subp. 9. **District engineer.** "District engineer" means a district engineer of the Minnesota Department of Transportation.

Subp. 9a. **District state-aid engineer.** "District state-aid engineer" means a registered engineer employed as the district state-aid engineer.

Subp. 9b. Force account agreement. "Force account agreement" means an agreement between the Minnesota Department of Transportation and a city or county for the city or county to do state-aid funded construction projects with local forces, and for the city or county to be reimbursed, based on agreed unit prices.

Subp. 10. Functional classification plan. "Functional classification plan" means a plan by which highways and streets are grouped into classes according to the character of service they are intended to provide.

Subp. 10a. Local forces. "Local forces" means railroad forces when working on a railroad crossing, utility forces when conducting utility work eligible under a force account agreement, or the employees of a local unit of government needed to perform a specific project for reasons of expertise or necessary expediency.

Subp. 11. Local highway or street department. "Local highway or street department" means the highway or appropriate department of each county and each urban municipality.

Subp. 12. Local road research board. "Local road research board" means a board appointed in accordance with part 8820.3200 to recommend specific research projects to the commissioner.

Subp. 12a. Natural preservation route. "Natural preservation route" means an existing or proposed roadway that has been designated as a natural preservation route by the com-

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missioner upon petition by a county board and that possesses sensitive or unique scenic, environmental, pastoral, or historical characteristics. Examples may include, but are not limited to, roads along lakes, rivers, wetlands, or floodplains or through forests or hilly, rocky, or bluff terrain.

Subp. 13. Needs report. "Needs report" means a report of the estimated construction cost required to improve a state-aid system to standards adequate for future traffic on a uniform basis.

Subp. 14. Screening board. "Screening board" means the county screening board or municipal screening committee appointed in accordance with law and authorized to recommend to the commissioner the mileage and money needs for each of their state-aid systems.

Subp. 15. State-aid engineer. "State-aid engineer" means a registered engineer employed as the state-aid engineer of the Minnesota Department of Transportation.

Subp. 15a. **Technical assistance agreement.** "Technical assistance agreement" means an agreement between a city, county, or other governmental unit and the commissioner by which the city, county, or other governmental unit requests the state to furnish technical and engineering assistance pursuant to law.

Subp. 16. Town bridge account. "Town bridge account" means the apportionment of county state-aid turnback funds for use in the construction or reconstruction of bridges on town roads.

Subp. 17. Town bridge need. "Town bridge need" means the estimated construction cost required to improve or replace a town bridge to conform to standards adequate for future traffic on a uniform basis.

Subp. 17a. Town road account. "Town road account" means the apportionment of county state-aid turnback funds for use in the construction, reconstruction, or gravel maintenance of town roads.

Subp. 17b. **Town road mileage.** "Town road mileage" means mileage on a road that is maintained by a town or any other local unit of government acting as a town and open to the traveling public a minimum of eight months of the year as certified by the county highway engineer.

Subp. 18. Town allotment. "Town allotment" means the county apportionment of county state-aid highway funds for use in constructing town roads.

Subp. 19. **Trunk highway turnback.** "Trunk highway turnback" means a trunk highway or portion of it that has been designated at another location and the former trunk highway has reverted to a county or municipality in accordance with law. The reverted trunk highway or portion of it has become part of the state-aid system.

Subp. 20. **Turnback account.** "Turnback account" means the account provided by law for payment to the county or city for the approved repair and restoration or reconstruction and improvement of those former trunk highways that have reverted to county or municipal jurisdiction and have become part of the state-aid system.

Subp. 21. Urban municipality. "Urban municipality" means a city having 5,000 or more population, determined in accordance with the provisions of law.

Subp. 22. Variance committee. "Variance committee" means a committee appointed in accordance with part 8820.3400 to investigate and make recommendations to the commissioner on requests for variances from this chapter.

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.021; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596; 18 SR 32

8820.0300 [Repealed by amendment, 8 SR 2146]

8820.0400 LOCAL HIGHWAY AND STREET DEPARTMENTS.

Each county and each urban municipality shall establish and maintain a highway or street department. These departments must be adequately organized, staffed, and equipped to administer for the county or urban municipality matters relating to the operations of the state-aid program and to exercise all functions incidental thereto, in accordance with law. Preparation of plans and specifications and supervision of construction and maintenance

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must be under the control and direction of a professional engineer, registered in the state of Minnesota and employed or retained for that purpose.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146

8820.0500 SELECTION AND DESIGNATION OF STATE-AID SYSTEMS.

The state-aid highways and streets designated to form the basis for a long-range improvement program must be so selected as to form an integrated network of highways and streets in accordance with parts 8820.0600 to 8820.0800.

Statutory Authority: *MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17*

History: 8 SR 2146

8820.0600 SELECTION OF ROUTES.

Final selection of routes to be included in the respective county state-aid and municipal state-aid systems are subject to the approval of the commissioner. These routes may be established on new locations where no existing roadway exists or may be located upon or over an established roadway or specified portion of a roadway.

The highway and street systems to be selected and designated in accordance with law are:

A. a county state-aid highway system not exceeding 30,000 miles in extent, excluding trunk highway turnback mileage and former municipal state-aid street mileage in cities whose population fell below 5,000 under the 1980 federal census; and

B. a municipal state-aid street system not exceeding 2,500 miles in extent within urban municipalities, excluding trunk highway turnback mileage.

For an undivided, one-way street with a minimum width of 26 feet and with no parking lane or with a maximum width of 46 feet with parking on both sides, the chargeable mileage allowed for municipal state-aid street mileage purposes is one-half of the length of the one-way street.

Statutory Authority: *MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17*

History: 8 SR 2146; 15 SR 2596

8820.0700 SELECTION CRITERIA.

Subpart 1. **Basis.** A state-aid route must be selected on the basis of all criteria in either subpart 2 or 3.

Subp. 2. County state-aid highway. A county state-aid highway may be selected if it:

A. is projected to carry a relatively heavier traffic volume or is functionally classified as collector or arterial as identified on the county's functional classification plans as approved by the county board;

B. connects towns, communities, shipping points, and markets within a county or in adjacent counties; provides access to rural churches, schools, community meeting halls, industrial areas, state institutions, and recreational areas; or, serves as a principal rural mail route and school bus route; and

C. provides an integrated and coordinated highway system affording, within practical limits, a state-aid highway network consistent with projected traffic demands.

Subp. 3. Municipal state-aid street. A municipal state-aid street may be selected if it:

A. is projected to carry a relatively heavier traffic volume or is functionally classified as collector or arterial as identified on the urban municipality's functional classification plan as approved by the urban municipality's governing body;

B. connects the points of major traffic interest within an urban municipality; and

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C. provides an integrated street system affording, within practical limits, a stateaid street network consistent with projected traffic demands.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.0800 ROUTE DESIGNATIONS.

Subpart 1. **Resolution and certification.** With regard to route designations, county state-aid highways and municipal state-aid streets must be selected by the respective boards of county commissioners or governing bodies of urban municipalities. The highway or street selections must be reviewed by the district state-aid engineer of that area and the engineer's recommendation must be filed with the commissioner. Upon preliminary approval of the commissioner, the respective boards or governing bodies shall establish the route by designation. After receipt of each board action, the commissioner shall approve all or part of the highway or street designations that comply with the criteria set out in this chapter. The commissioner shall certify to the respective boards of county commissioners or governing bodies of urban municipalities the approved portion of the highway or street designation. Highways or streets so approved become a part of the county state-aid highway system or the municipal state-aid street system, subject to additions or revisions as may be, from time to time, requested and approved.

Subp. 2. **Turnback designations.** With regard to turnback designations, prior to release of a former trunk highway to the jurisdiction of a county or urban municipality, the commissioner shall notify the board of county commissioners or the governing body of the urban municipality through its county highway or city engineer, which portions of the turnback are eligible for designation as part of its state–aid system and which portions are eligible for restoration or reconstruction and improvement with turnback funds. Upon a request for the designation of eligible portions of the turnback from the board of county commissioners or the governing body of the urban municipality, the commissioner shall issue the official order for designation and notify the county or municipal screening board of this action.

Subp. 3. **Payback on revoked state-aid routes.** If a local unit of government revokes a state-aid route for which state-aid construction money has been spent, the district state-aid engineer shall determine the remaining life of the project and compute the value of the items that were financed with state-aid money. This computed value must be subtracted from the next state-aid contract let by the local unit of government. For this determination, (1) the life of a construction project is 25 years, (2) the life of a bridge project is 35 years, and (3) the life of a surfacing project is ten years. Payback is not required if the state-aid construction was a special resurfacing project.

The district state-aid engineer shall report the amount of required payback to the office of state-aid immediately upon receiving a copy of the commissioner's order revoking the affected state-aid route.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.0900 [Repealed by amendment, 8 SR 2146]

8820.1000 MONEY NEEDS AND APPORTIONMENT DETERMINATION.

Subpart 1. Construction cost estimates. To provide data to implement the formulas for state-aid apportionment, each county highway engineer and city engineer shall prepare cost estimates of construction required to improve the county state-aid or municipal state-aid system to approved standards.

Subp. 2. Incidental costs. In addition to the direct construction or maintenance costs permitted under law, the cost of the following incidental items is eligible for inclusion in the total estimate of needs:

A. right-of-way;

B. automatic traffic control signals;

C. lighting of intersections and bridges within approved standards; and

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D. drainage costs.

Subp. 3. **Deductible items.** The respective screening boards shall consider reports from the commissioner, consisting of the county state-aid allotments to towns, or the municipal state-aid payments for construction or right-of-way on state trunk highways or county state-aid highways, covering allotments or payments made during the preceding year; and shall recommend to the commissioner the amount of deductions to be made in the money needs for each county or municipality, to equalize its status with other counties or municipalities not making similar expenditures.

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.1100 SCREENING BOARD REPORTS.

Subpart 1. Annual reports. A detailed report of the state-aid mileage and cost estimates must be tabulated and referred to the respective screening boards appointed pursuant to law. These boards shall investigate and review mileage, cost estimates, and the reports of those expenditures listed under deductible items, and shall, on or before November 1 of each year, submit their findings and recommendations in writing to the commissioner as to the mileage and adjusted money needs for each of the governmental subdivisions represented by the respective boards.

Subp. 2. [Repealed by amendment, 8 SR 2146]

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146

8820.1200 COMPILATION AND NOTICE OF APPORTIONMENT.

Subpart 1. Compilation of data by commissioner. The commissioner shall determine the apportionment percentage due each county and urban municipality in accordance with the formulas established by law.

Subp. 1a. **State-aid apportionments.** State-aid apportionments must be made from the county state-aid highway fund and the municipal state-aid street fund as provided by law. Apportionments to the respective counties and urban municipalities must be released in accordance with parts 8820.1400, subparts 5 and 6, and 8820.1500 to 8820.2400.

Subp. 2. Notice of annual apportionment. Not later than January 25 of each year, the commissioner shall certify the annual apportionment to each respective county or urban municipality.

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.09; 162.155; *Laws* 1983 *c* 17

History: 8 SR 2146

8820.1300 [Repealed by amendment, 8 SR 2146]

8820.1400 MAINTENANCE, CONSTRUCTION, AND TURNBACK ACCOUNTS; STATE-AID PAYMENTS.

Subpart 1. County maintenance apportionments. As soon as the annual county and urban municipal state-aid allotments have been determined, the commissioner shall apportion and set aside the following amounts:

A. 40 percent of the regular county state-aid allotment for the general maintenance of county state-aid highways;

B. 40 percent of the county-municipal account allotment for maintaining the county state-aid highways within municipalities of less than 5,000 population;

Subp. 2. Revisions of county maintenance apportionments. The commissioner may, upon recommendation of the screening board or upon receipt of a resolution from a county board and for good cause shown, increase or decrease the proportion to be used for maintenance under either subpart 1, item A or B.

Subp. 3. Urban maintenance apportionment account. Twenty-five percent of the total allocation, if requested by the urban municipality before December 16 preceding the

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annual allocation, or \$1,500 per mile of improved municipal state-aid streets, is the minimum allotment for the general maintenance of the approved state-aid system. The commissioner may modify the minimum allotment to finance the amount needed to pay the interest due on municipal state-aid bonds and to accommodate the screening board resolutions pertaining to trunk highway turnback maintenance allowances.

Those municipalities desiring to receive an amount greater than the established minimum, not to exceed 35 percent of the total allocation, shall file a request with the commissioner before December 16 preceding the annual allocation and shall agree to file a detailed annual maintenance expenditure report at the end of the year.

Subp. 4. [Repealed by amendment, 8 SR 2146]

Subp. 4a. Construction apportionments. The construction portion of the annual allocation to each county and urban municipality must be credited to the respective accounts and retained by the commissioner for payment on approved projects.

Subp. 4b. Town bridge account. The town bridge account portion of the annual allocation of the county state-aid turnback account must be credited to each respective county and retained by the commissioner for payment on approved projects.

Subp. 4c. **Town road account.** The town road account portion of the annual allocation of the county state-aid turnback account must be set aside and credited to each respective county.

Subp. 4d. State-aid payments. Annual apportionments to the respective counties and urban municipalities must be released in the manner provided in subparts 5 to 8 and parts 8820.1500 to 8820.2400.

Subp. 5. **Payment schedule.** At the earliest practical date, after the allotments have been determined, the commissioner shall release the following amounts to the respective counties and urban municipalities:

A. One hundred percent of the town road account.

B. Maintenance funds:

(1) Fifty percent of the maintenance allotment from the regular account of each county.

(2) Fifty percent of the maintenance allotment from the municipal account of each county that has filed a request for advance payments prior to the annual apportionment in January of each year. The request must include the estimate of the maintenance expenditures anticipated within the municipal account during the calendar year.

(3) Fifty percent of the maintenance allotment to each urban municipality.

Subp. 6. Additional advances. On or about July 1 of each year, the commissioner shall release an additional advance from the respective maintenance accounts listed above, in an amount not to exceed 40 percent of the total maintenance allocations.

Subp. 7. **Remaining maintenance funds.** The remaining maintenance funds will be released to the counties and urban municipalities upon receipt of their report of actual maintenance expenditures except that those urban municipalities that receive the minimum maintenance allocation will receive their remaining maintenance money on or about December 15.

Subp. 8. Unobligated maintenance account balance. An unobligated balance remaining in the state-aid maintenance account to the credit of a county or urban municipality, after final settlement has been made for the annual maintenance expenditures, must be automatically transferred to the construction account of that county or municipality.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.1500 CONSTRUCTION FUNDS.

Subpart 1. [Repealed by amendment, 8 SR 2146]

Subp. 2. State-aid contracts. Upon receipt of an abstract of bids and a certification as to the execution of a contract that includes a requirement for bond, the commissioner shall promptly release from the funds available to the county or urban municipality up to 95 per-

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cent of the state-aid portion of the contract. The commissioner shall keep the remaining percentage of the state-aid share of the contract, provided funds are available, until the project is 95 percent or more completed as substantiated and requested by the county or city engineer, or until the final cost is determined and the project accepted by the district state-aid engineer.

Subp. 3. Federal-aid contracts. Under authority of an agency agreement with the governing body of a county, urban municipality, or other governmental unit and acting as its agent in federal-aid operations, the commissioner shall release from available state-aid funds, 95 percent of the county's or urban municipality's share of the entire contract obligation for immediate transfer to the agency account, to be used in paying the county's or urban municipality's eligible share of the partial estimates and for advancing the federal share of those estimate payments. The commissioner shall keep the remaining percentage of the contract cost of the project until the final cost is determined and the project accepted by the district state-aid engineer. When other than state-aid funds are to be used for depositing in the agency account, 100 percent of the local governmental share of the contract amounts must be deposited in the agency account before the contract is awarded.

Subp. 4. Force account agreements. Partial estimates must be accepted on the projects approved for construction by local forces using the agreed unit prices for determining the value of the completed work. The commissioner shall promptly release from funds available for these approved projects 95 percent of the cost of current accomplishments as reported by the partial estimates. Upon request of the county or urban municipality, the commissioner shall set aside and keep its state—aid funds in an amount equal to the agreed total cost of the entire project to ensure final settlement of the completed construction when the final estimate is submitted and upon acceptance by the district state—aid engineer.

Subp. 5. **Payment limitations.** Approval of state-aid projects by the commissioner does not imply that state-aid payments will be made in excess of the construction funds available from current state-aid allotments. A county or urban municipality having depleted its currently available funds during the calendar year will not be eligible for reimbursement from future allotments unless a request for advance encumbrance has been approved or a project is completed in a subsequent year and funds are available.

Subp. 6. Engineering costs. Requests for reimbursement of preliminary engineering costs must be submitted with the report of state-aid contract or with the initial partial estimate on an approved force account project. The commissioner, upon receipt of this request supplemented by documentation as may be requested, shall authorize the reimbursement for actual documented engineering costs, not to exceed ten percent of the total eligible estimated contract or agreement amount.

Requests for payment of actual construction engineering costs must be documented and submitted along with the final estimate report. The commissioner, upon receipt of this request, shall authorize a construction engineering payment that must either be limited to eight percent of the eligible construction costs when there are no unusual traffic or construction problems, or that may at the commissioner's discretion be paid in the maximum amount of 12 percent of the construction costs on complex projects involving difficult construction features or the continuous movement of dense traffic.

Subp. 7. **Right-of-way.** State-aid payments for right-of-way costs on approved projects must be limited to 95 percent of the approved claim until the acquisition of right-of-way required for the project is actually completed and the final costs established.

Subp. 8. Advance from county funds. When the commissioner approves a request from the county board for constructing an approved county state-aid project requiring county state-aid highway funds in excess of the available allotment, and these excess costs are initially paid for from other local sources, then the commissioner, to the extent authorized by law, shall repay those locally financed expenditures out of subsequent construction or turnback apportionments to the county's state-aid accounts in accordance with the terms and conditions specified in the approved request. The request for advance encumbrance must be submitted with the report of state-aid contract.

Subp. 9. Advance of county regular account funds. When the commissioner approves a request from the county board for the advance of county regular account funds for use on a municipal section of an approved county state-aid highway project, and when repayments to the county regular account fund are to be made from subsequent accruals to the

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county municipal account fund, the repayments must be made by the commissioner, to the extent authorized by law, in the form of transfers from the county municipal account fund to the county regular account fund, in the amounts and when specified in the authorization. The request for advance encumbrance must be submitted with the report of state-aid contract.

Subp. 10. Advance from urban municipal funds. When the commissioner approves a request from the governing body of an eligible urban municipality for constructing an approved municipal state—aid street project requiring funds in excess of the available allotment, and these excess costs are initially paid from other local sources, then the commissioner, to the extent authorized by law, shall repay these locally financed expenditures out of subsequent construction or turnback apportionments to the urban municipal account of that municipality in accordance with the terms and conditions specified in the approved request. The request for advance encumbrance must be submitted with the report of state—aid contract.

Subp. 10a. Advance from town bridge account. When the commissioner approves a request from the governing body of a county for the replacement or reconstruction of a town bridge requiring funds in excess of the county's available town bridge account, and these excess costs are initially paid for from other sources, then the commissioner shall reimburse those locally financed expenditures out of subsequent apportionments to the town bridge account in accordance with the terms and conditions specified in the approved request. The total of these advances to be reimbursed from the town bridge account must not exceed 40 percent of the last town bridge apportionment. Advances must be repaid in accordance with the terms of the approved request from money accruing to the respective town bridge accounts. The request for advance encumbrance must be submitted with the report of state-aid contract.

Subp. 11. County or municipal bond account. With regard to a county or municipal bond account, a county or urban municipality that resolves to issue bonds payable from the appropriate state-aid fund in accordance with law for the purpose of establishing, locating, relocating, constructing, reconstructing, or improving state-aid streets or highways under its jurisdiction shall certify to the commissioner within 30 days following issuance of the bond, the amount of the total obligation and the amount of principal and interest that will be required annually to liquidate the bonded debt. The commissioner shall set up a bond account, itemizing the total amount of principal and interest involved and shall annually certify to the commissioner of finance the amount needed from the appropriate state-aid construction fund to pay the principal due on the obligation, and the amount needed from the appropriate state-aid maintenance fund to pay the current interest. Proceeds from bond sales are to be expended only on approved state-aid projects and for items determined to be eligible for state-aid reimbursement. A county or urban municipality which intends to expend bond funds on a specific state-aid project shall notify the commissioner of this intent without delay upon awarding a contract or executing a force account agreement. Upon completion of each such project, a statement of final construction costs must be furnished to the commissioner by the county or the urban municipality.

Subp. 12. Municipal state-aid funds; county or trunk highway projects. The governing body of an urban municipality desiring to use a portion of its state-aid funds for improvements within its boundaries on a state trunk highway or county state-aid highway, must have the plans approved by the state-aid engineer before the contract is awarded and must have a resolution requesting the off-system expenditure approved by the commissioner before funds are released for these purposes. This subpart does not apply to payments made for interest on bonds sold under Laws of Minnesota 1959, chapter 538.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

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8820.1600 SEMIANNUAL STATEMENTS.

Within 30 days after the close of each six-month period, the commissioner shall submit to each county or urban municipality semiannual statements as to the status of its respective state-aid accounts.

Statutory Authority: *MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17*

History: 8 SR 2146

8820.1700 OTHER AUTHORIZED PAYMENTS.

Certain specific allotments or transfers of state-aid funds have been authorized by law. These will be processed as provided in parts 8820.1800 to 8820.2400.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146

8820.1800 TRANSFERS FOR HARDSHIP CONDITIONS OR OTHER LOCAL USE.

Subpart 1. **Hardship.** When the county board or governing body of an urban municipality desires to use a part of its state-aid allocation off an approved state-aid system, it shall certify to the commissioner that it is experiencing a hardship condition in regard to financing its local roads or streets while holding its current road and bridge levy or budget equal to or greater than the levy or budget for previous years. Approval may be granted only if the county board or governing body of an urban municipality demonstrates to the commissioner that the request is made for good cause. If the requested transfer is approved, the commissioner, without requiring progress reports and within 30 days, shall authorize either immediate payment of at least 50 percent of the total amount authorized, with the balance to be paid within 90 days, or schedule immediate payment of the entire amount authorized on determining that sufficient funds are available.

Subp. 2. Other local use. When the county board or governing body of an urban municipality desires to use a part of its state-aid allocation on local roads or streets not on an approved state-aid system, it shall certify to the commissioner that its state-aid routes are improved to state-aid standards or are in an adequate condition that does not have needs other than additional surfacing or shouldering needs identified in its respective state-aid needs report.

A construction plan for a local road or street not on an approved state-aid system and not designed to state-aid standards must not be given final approval by the State Aid for Local Transportation Division unless the plan is accompanied by a resolution from the respective county board or urban municipality that indemnifies, saves, and holds harmless the state of Minnesota and its agents and employees from claims, demands, actions, or causes of action arising out of or by reason of a matter related to constructing the local road or street as designed. The resolution must be approved by the respective county board or urban municipality and agree to defend at the sole cost of the county or urban municipality any claim arising as a result of constructing the local road or street.

Payment for the project must be made in accordance with part 8820.1500, subparts 1 to 5.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.1900 TOWN ALLOTMENTS.

The commissioner shall authorize payment of the amount requested for distribution by the county for constructing town roads:

A. upon receipt of a certified copy of a county board resolution allocating a specific amount of the county state-aid construction funds for aid to the county's towns;

B. upon showing compliance with the law governing these allocations; and

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C. upon forwarding the resolution to the commissioner on or before the second Tuesday in January of each year.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.2000 CONSTRUCTING SELECTED STATE PARK PROJECTS.

For constructing selected state park projects and as provided by law, a portion of the county state-aid highway funds must be set aside and used for constructing, reconstructing, and improving county state-aid highways providing access to the headquarters of or the principal parking lot located within a state park. These funds set aside must be spent for this purpose only on a request from the commissioner of natural resources. Projects selected must be approved by the commissioner of transportation in accordance with the procedure established for other state-aid operations.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.2100 DISASTER ACCOUNT.

A disaster appropriation approved by the commissioner for a county or urban municipality in accordance with law, must be promptly paid to the county or urban municipality for which the appropriation was authorized. The funds so allotted and paid to the county or urban municipality may only be spent for the purpose for which they were authorized, and within a reasonable time specified by the commissioner. Immediately upon completion of the work for which the disaster payment was made or the expiration of the time specified for doing the work, whichever occurs first, the county or urban municipality shall file a report certifying the extent of the authorized work completed and showing the total expenditure made. If the total disaster allotment was not required or used for the purpose specified, the remainder must be promptly returned to the commissioner for redeposit in the county state-aid highway fund or the municipal state-aid street fund, as the case may be, and apportioned by law. Damage estimates submitted by a county or urban municipality must exceed ten percent of the current annual state-aid allotment to the county or urban municipality before the commissioner shall authorize the disaster board to inspect the disaster area.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.2200 RESEARCH ACCOUNT.

County and municipal state-aid funds that may be annually allocated to the research account must be used solely for those research projects recommended by the local road research board and approved by the commissioner. Unexpended balances in this account at the end of each year must be transferred back to the state-aid fund from which they were obtained.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146

8820.2300 TURNBACK ACCOUNTS.

Subpart 1. County and municipal turnback accounts. A percentage of the net highway user tax distribution fund has been set aside by law and apportioned to separate accounts in the county state-aid highway fund and the municipal state-aid street fund, and respectively identified as the county turnback account and the municipal turnback account.

Subp. 1a. **Town bridge account.** Further, a percentage of the county turnback account has been set aside and must be used for replacement or reconstruction of town bridges ten feet or more in length, in those counties that have two or more towns, pursuant to the law. This latter account is known as the town bridge account.

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Subp. 1b. **Town road account.** Further, a percentage of the county turnback account must be apportioned to the counties for the construction, reconstruction, and gravel maintenance of town roads. This account is known as the town road account.

Subp. 2. Town bridge fund allocation. The funds set aside for town bridges must be allocated to the eligible counties on the basis of town bridge needs.

Subp. 2a. **Town road account allocation.** The amounts to be distributed to the counties from the town road account must be determined according to the formula prescribed by Minnesota Statutes, section 162.081, subdivisions 2 and 4.

A. The funds apportioned to a county from the town road account must be distributed to the treasurer of each eligible town within 30 days of the receipt of the funds by the county treasurer, according to a distribution formula adopted by the county board. The county board must consider each town's levy for road and bridge purposes, its population, town road mileage, and other factors considered advisable to the interest of achieving equity among the towns.

The county treasurer is the treasurer for eligible unorganized towns.

B. If a county board does not adopt a distribution formula, the funds must be distributed to the town according to subitems (1) to (4).

(1) The county auditor shall certify to the commissioner the name of each town that has levied 0.04835 percent of taxable market value of the town for road and bridge purposes in the year preceding the allocation year.

(2) The county auditor shall certify to the commissioner the name of each unorganized town in which the county has levied 0.04835 percent of taxable market value of the unorganized town for town road and bridge purposes in the year preceding the allocation year.

(3) Fifty percent of the funds apportioned to a county must be distributed to an eligible town based upon the percentage that its population bears to the total population of the eligible towns in the county.

(4) Fifty percent of the funds apportioned to a county must be distributed to eligible towns based upon the percentage of the town road mileage of each town to the total town road mileage of eligible towns in the county.

Subp. 3. Surplus turnback funds. At any time the commissioner determines that either the county or municipal turnback accounts, notwithstanding the town bridge accounts or the town road accounts, has accumulated a surplus not needed for turnback purposes, the commissioner shall properly notify the commissioner of finance requesting the transfer of the surplus to the respective county state-aid highway fund or municipal state-aid street fund for apportionment as provided by law.

Subp. 4. [Repealed by amendment, 8 SR 2146]

Subp. 5. [Repealed by amendment, 8 SR 2146]

Subp. 6. Release of turnback account funds. Upon receipt of an abstract of bids and a certification as to the execution of a contract and bond on an eligible project, the commissioner shall release to a county or urban municipality from turnback account funds up to 95 percent of the turnback share of the contract. The commissioner shall keep the remaining percentage of the turnback share of the contract until the final cost is determined and the project accepted by the district state-aid engineer.

On force account agreements, partial estimates must be accepted on turnback projects approved for construction by local forces, using the agreed unit prices for determining the value of the completed work.

The commissioner shall release from the respective turnback account 95 percent of the value as reported by partial estimates on an eligible turnback project.

Requests for reimbursement of preliminary and construction engineering costs on an eligible turnback project must be submitted and payment must be authorized in accordance with part 8820.1500, subpart 6.

Subp. 7. Release of town bridge account funds. Upon receipt of an abstract of bids and a certification as to the execution of a contract and bond on an eligible project, the commissioner shall release to a county, from town bridge account funds, up to 95 percent of the town

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bridge account share of the contract. The commissioner shall keep the remaining five percent until the final cost is determined and the project is accepted by the district state-aid engineer.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596; 17 SR 1279

8820.2400 TRANSFER OF ACCUMULATED COUNTY-MUNICIPAL ACCOUNT FUNDS TO COUNTY REGULAR ACCOUNT FUND.

Upon receipt of a certified copy of a county board resolution requesting the transfer of part or all of the total accumulated amount in the county municipal account fund, to the county regular account fund, the commissioner shall transfer the funds, provided the county submits a written request to the commissioner and holds a public hearing within 30 days of the request to receive and consider objections by the governing body of a city within the county, having a population of less than 5,000, and:

A. no written objection is filed with the commissioner within 14 days of that hearing; or

B. within 14 days of the public hearing held by the county, a city having a population of less than 5,000 files a written objection with the commissioner identifying a specific county state-aid highway within the city which is requested for improvement and the commissioner investigates the nature of the requested improvement and finds:

(1) the identified highway is not deficient in meeting minimum state-aid street standards;

(2) the county has shown evidence that the identified highway has been programmed for construction in the county's five-year capital improvement budget in a manner consistent with the county's transportation plan; or

(3) there are conditions created by or within the city beyond the control of the county that prohibit programming or reconstruction of the identified highway.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.2500 MINIMUM STATE-AID STANDARDS.

Subpart 1. Geometric design standards. The standards in part 8820.9910 apply to rural design undivided roadways, new or reconstruction.

The standards in part 8820.9930 apply to suburban design roadways that meet indicated conditions, new or reconstruction.

The standards in parts 8820.9935 and 8820.9940 apply to urban design roadways, new or reconstruction.

The requirements in parts 8820.9925, 8820.9945, and 8820.9970 apply to resurfacing projects.

The roadway classifications in part 8820.9950 apply to urban roadways.

The vertical clearances for underpasses in part 8820.9955 apply.

The standards in part 8820.9965 apply to designated forest highways within national forests and state park access roads within state parks, new or reconstruction.

The standards in parts 8820.9980 and 8820.9985 apply to designated natural preservation routes.

Subp. 2. Specifications. Specifications for construction must be the latest approved Minnesota Department of Transportation specifications, except as modified by special provisions which set forth conditions or requirements for work or materials not covered by the approved specifications, or which set forth conditions or requirements to meet exigencies of construction peculiar to the approved project.

Subp. 3. **Right–of–way.** The minimum widths of right–of–way for state–aid routes must be at least 60 feet within municipalities and 66 feet in rural areas. Before construction, the governing body shall acquire control of the additional widths of right–of–way for rural design as may be necessary to properly maintain the ditch section and the recovery area.

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Subp. 4. **Parking provisions.** The criteria in part 8820.9960 must be used in establishing diagonal parking. The criteria in parts 8820.9935, 8820.9940, and 8820.9945 must be used where parallel parking is used.

Statutory Authority: *MS s 161.082; 161.083; 162.02; 162.021; 162.09; 162.155; Laws 1983 c 17*

History: 8 SR 2146; 15 SR 2596; 18 SR 32

8820.2600 SPENDING STATE-AID APPROPRIATIONS.

State-aid funds allotted to counties and urban municipalities must be expended in accordance with the provisions of parts 8820.2700 to 8820.2900.

Statutory Authority: *MS s 161.082; 161.083; 162.02: 162.09; 162.155; Laws 1983 c 17*

History: 8 SR 2146

8820.2700 MAINTENANCE REQUIREMENTS.

Subpart 1. **Standards.** The commissioner shall require a reasonable standard of maintenance on state-aid routes within the county or urban municipality, consistent with available funds, the existing street or road condition, and the traffic being served. This maintenance must be considered to include:

A. the maintenance of road surfaces, shoulders, ditches, and slopes and the cutting of brush and weeds affecting the respective state-aid systems;

B. the maintenance and inspection of bridges, culverts, and other drainage structures pursuant to Minnesota Statutes, section 165.03;

C. the maintenance of regulatory and direction signs, markers, traffic control devices, and protective structures in conformance with the current manual on uniform traffic control devices affecting the respective state-aid systems;

D. the striping of pavements of 22 feet or more in width, consistent with the current manual on uniform traffic control devices, and for which there are no pending improvements;

E. the exclusion of advertising signs, billboards, buildings, and other privately owned installations other than utilities of public interest from the right-of-way of an approved state-aid project; and

F. the installation of route markers on county state-aid highways as follows:

(1) Route markers must be a minimum of 16 inches by 16 inches square with black letters or numerals on a white background.

(2) Wherever county road authorities elect to establish and identify a special system of important county roads, the route marker must be of a pentagonal shape and must consist of a reflectorized yellow legend with county name, route letter, and number, and a border on a blue background of a size compatible with other route markers.

Subp. 2. Unsatisfactory maintenance. On determining that the maintenance of a county or municipal state-aid route is unsatisfactory, the commissioner shall keep up to ten percent of the current annual maintenance apportionment to the responsible county or urban municipality. Funds kept must be held to the credit of that county or urban municipality until the unsatisfactory condition has been corrected and a reasonable standard of maintenance is provided.

Subp. 3. **Biennial report.** The commissioner's biennial report to the legislature shall enumerate such funds retained more than 90 days, together with an explanation for this action.

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.09; 162.155; *Laws* 1983 *c* 17

History: 8 SR 2146; 15 SR 2596

8820.2800 CONSTRUCTION REQUIREMENTS.

Subpart 1. **Engineer's duties.** Surveys, plans, and estimates for state-aid projects must be made by or under the supervision of the county highway or city engineer in accordance with standards for form and arrangement prescribed by the commissioner.

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Subp. 2. **Plans and estimates.** Plans and estimates for each state-aid construction project must be submitted for review. Each plan must show the subsequent stages required for the completion of the improvement, portions of which may be covered by later contracts or agreements. Only those projects for which final plans are approved by the state-aid engineer before awarding a contract or approving a force account agreement are eligible for state-aid construction funds.

Subp. 3. **Project identification numbers.** Projects must be assigned state-aid project numbers and must be so identified in records of the Minnesota Department of Transportation and the local governmental unit.

Subp. 4. Contract information. Upon award of a state-aid contract by a county or urban municipality, the county highway engineer or city engineer shall furnish the commissioner with an abstract of bids and a certification as to the specific contract and bond executed for the approved construction work.

Subp. 5. Force account. A county or urban municipality desiring to use funds credited to it on a force account basis must have its engineer file a request with the commissioner for each construction project to be built by the county or urban municipality at agreed unit prices. The unit prices must be based upon estimated prices for contract work, less a reasonable percentage to compensate for move–in, move–out, taxes, and contractor's profit. These requests must contain a complete list of pay items and the unit prices at which it proposes to do the work. Before approval by the commissioner, the district state–aid engineer shall file recommendations with the commissioner concerning the request and the cost estimate. Items of work other than those listed as a pay item or approved by supplemental agreements must be considered incidental work not eligible for state–aid payment.

Subp. 6. **Project reports.** Prior to final acceptance of each construction project by the commissioner, the county highway engineer or the city engineer shall submit to the commissioner final project records as the commissioner may deem necessary or desirable.

Subp. 7. **Project payments.** On state-aid construction projects payments will be made in accordance with part 8820.1500, subparts 2 to 5.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.2900 TURNBACK ACCOUNT EXPENDITURES.

Subpart 1. **Requirements; turnback accounts.** The funds in the county and municipal turnback accounts must be spent only as payments to a county or urban municipality for the approved repair and restoration or reconstruction and improvement of those former trunk highways that have reverted to county or municipal jurisdiction and that meet the eligibility requirement as set forth in subpart 2.

Subp. 1a. **Requirements; town bridge account.** Further, a percentage of the county turnback account has been set aside, as provided by law, and must be used for replacement or reconstruction of town road bridges that are ten feet or more in length in those counties that have two or more towns. This account is known as the town bridge account.

Subp. 2. Eligibility; former trunk highways. A former trunk highway that has reverted to county or urban municipal jurisdiction after July 1, 1965, and that is part of the county state—aid highway or municipal state—aid street system, is eligible for payment from the respective turnback account for costs covering the repair and restoration or the reconstruction and improvement of those highways as detailed on approved plans. Approval of plans for the initial construction of a turnback project is limited to a period of five years from the date of reversion. After plan approval for constructing the initial part of a turnback project, plans for other portions of the same route must be approved within ten years from the date of reversion to be eligible for turnback funds. Each approved project must be advanced to construction status within one year after notification to the county or urban municipality that sufficient funds are available for constructing the project. Payment for repair and restoration or reconstruction and improvement of that section with turnback funds.

Subp. 2a. Eligibility; town bridges. A town bridge that is ten feet or more in length is eligible for replacement or reconstruction after the county board reviews the pertinent data

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supplied by local citizenry, local units of government, the regional development commission, or the metropolitan council, and adopts a formal resolution identifying the town bridge or bridges to be replaced or reconstructed. Payment to the counties is limited to 90 percent of the cost of the bridge, and must be made in accordance with part 8820.2300, subpart 7.

Subp. 3. Plan approval and construction requirements. Plans for county or municipal state-aid turnback or town bridge projects must be submitted to the commissioner and be approved before reconstruction or improvement work is undertaken. State-aid rules consistent with the turnback regulations apply to projects to be financed from the county or municipal turnback accounts or the town bridge account.

Subp. 4. **Construction authorization.** As soon as the plans for a state-aid turnback or town bridge project are approved, the county or urban municipality must be furnished either an authorization to proceed with construction or a notice that sufficient funds are not available within the applicable turnback account or town bridge account and that a priority has been established for the project for construction authorization as soon as funds are available. When local funds are advanced by the county or urban municipality to construct an approved project for which sufficient funds are not available in the turnback account or town bridge account or town bridge account or town bridge account, authorization to proceed with construction will be notification that the agreement for reimbursement of funds, in accordance with part 8820.1500, subpart 8, 9, 10, or 10a, has been approved by the commissioner.

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.09; 162.155; *Laws* 1983 *c* 17

History: 8 SR 2146; 15 SR 2596

8820.3000 ADDITIONAL CONTROLS ON EXPENDITURES.

Subpart 1. Conformity. In addition to those provisions previously mentioned, expenditures of state-aid funds by a county or urban municipality must conform to the following rules in subparts 2 to 7.

Subp. 2. Legal requirements. State-aid construction projects must comply with federal, state, and local laws, together with ordinances, rules, and regulations applicable to the work. Responsibility for compliance rests entirely with the local unit of government.

Subp. 3. **Bridge plans.** Plans for bridge construction or bridge reconstruction projects must be approved by the bridge engineer of the Minnesota Department of Transportation prior to the approval by the state-aid engineer.

Subp. 4. **Reports and records.** Annual reports, status maps, and maintenance and construction reports and records must be filed at the time and in the form specifically requested by the commissioner or authorized representatives of the commissioner.

Subp. 5. Noncompliance. The commissioner, upon determination that a county or urban municipality has failed to comply with the established state—aid requirements other than for unsatisfactory maintenance, or has failed to fulfill an obligation entered into for the maintenance or improvement of a portion of a state trunk highway or interstate route, shall determine the extent of the failure and the amount of the county's or urban municipality's apportionment that must be retained until a time when suitable compliance is accomplished or the obligation fulfilled, as the case may be. The amount withheld must reasonably approximate the extent of the noncompliance or the value of the unfulfilled obligation.

Subp. 6. **Defective work.** When unsatisfactory conditions are found to exist on an approved construction project, the district state-aid engineer may, if necessary, order the suspension of all work affected until the unsatisfactory condition is satisfactorily corrected. Failure to conform with the suspension order must be considered willful noncompliance. Work or materials which fail to conform to the requirements of the contract or force account agreement must be considered as defective. Unless the work is satisfactorily remedied or repaired before final acceptance is requested, the commissioner shall either withhold funds in accordance with subpart 5, or shall establish the reasonable value of the defective work as the basis for settlement with the county or urban municipality.

Subp. 7. Engineering and technical assistance. The commissioner may, as authorized by law, execute agreements with a county or urban municipality or other governmental unit for technical assistance from the Department of Transportation. These services, if furnished,

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must be paid for by the governmental subdivision at the rates established by the Department of Transportation.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 17 SR 1279

8820.3100 GENERAL STATE-AID LIMITATIONS.

Subpart 1. Extent of state aid. The extent of state-aid participation on special items is limited as follows in subparts 2 to 10.

Subp. 2. Lighting hazardous areas. The cost of lighting of locations at which accidents are likely to occur or are otherwise hazardous is an eligible expense if that lighting:

A. meets one or more of the following criteria:

(1) is intended for four or more lanes (complete cost eligible);

(2) is intended for lighting intersections; or

(3) is a cost incidental to the necessary revision or relocation of existing lighting facilities on reconstruction projects; and

B. is not for a location where lighting would normally have been installed by the county or urban municipality.

For the funding of additional locations, lighting expenses are eligible only to the extent that the county or urban municipality has furnished traffic information or other needed data to support its request.

Subp. 3. **Traffic control signals: state-aid projects.** For state-aid projects, plans for constructing or reconstructing the electrical portion of traffic control signals must be (1) designed or (2) reviewed and approved by a master electrician licensed in Minnesota or by an electrical engineer registered in Minnesota.

The district state-aid engineer shall review these plans upon submittal by the local engineer and make recommendations to the state-aid engineer.

The state-aid engineer shall approve the electrical portion of these plans based on the certification of the master electrician or electrical engineer and the rest of the plan based on the certification of a registered professional civil or highway engineer.

Plans for the construction or reconstruction of the electrical portion of traffic control signals not certified by a master electrician or electrical engineer, or plans involving traffic control signals on a trunk highway must be approved by the traffic engineer of the Minnesota Department of Transportation before approval by the state-aid engineer.

Subp. 4. **Traffic control signals: federal-aid projects.** For federal-aid projects, plans for the construction or reconstruction of traffic control signals must be approved by the traffic engineer of the Minnesota Department of Transportation prior to the approval by the state-aid engineer.

Subp. 5. **Traffic control signals: extent of participation.** The extent of state-aid participation in signal installations shall be determined by the state-aid engineer in relation to the proportion of state-aid routes involved at each installation.

Subp. 6. **Right-of-way.** The cost of lands and properties required for right-of-way to accommodate the design width of the street or highway as governed by the state-aid standards, including necessary width for sidewalks, is considered an eligible expense. This cost includes relocation and moving costs as provided by law and includes damages to other lands if reasonably justified to the satisfaction of the commissioner. Receipts from the rental or sale of excess properties paid for with state-aid funds must be placed in the local agency's road and bridge account to be used on the next state-aid project constructed.

Subp. 7. Sidewalks. On county state-aid projects, sidewalks are considered an eligible expense only where the proposed construction necessitates the alteration of existing walks. On municipal state-aid street projects, state-aid payment for sidewalks must be made when requested by the urban municipality but only if the inplace street meets state-aid standards.

Subp. 8. Storm sewers. Plans containing items for storm drainage must be reviewed by the hydraulics engineer for the Minnesota Department of Transportation and the engineer's recommendations obtained concerning design features and the proportionate share charge-

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able to the state-aid system. These recommendations along with those of the district stateaid engineer must be considered in determining the maximum state-aid participation in this work.

Subp. 9. Flexible or rigid pavement. The use of state-aid construction funds to finance the initial surfacing of rural roadways with aggregate base, in excess of six inches, and flex-ible or rigid pavement materials is limited to the following costs participation:

Projected ADT*	Percent of Participation	
100 and over	100	
75 to 99	80	
50 to 74	40	
0 to 49	0	

* If the next traffic count scheduled by the Minnesota Department of Transportation shows an increase in traffic, the percentage participation on an approved project must be adjusted to reflect the revised projected ADT if the county requests reimbursement at the increased percentage rate.

Subp. 10. Landscaping. The extent of state-aid participation in landscaping is limited to one percent of the total construction allocation in any year. Participation is generally limited to items such as trees when exceeding two-to-one replacement, shrubs, ground covers, and mulch. Irrigation systems are not eligible. Seeding, with mulch and fertilizer, and sodding are considered normal grading items.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.3150 LOCAL ROAD RESEARCH.

Within the law, the respective screening boards shall annually determine and recommend the amount that the commissioner shall set aside from the county state-aid highway fund or the municipal state-aid street fund, for the purpose of local road research. These funds, along with federal funds as may be provided, must be used for conducting research as provided by law.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; Laws 1983 c 17

History: 8 SR 2146

8820.3200 LOCAL ROAD RESEARCH BOARD.

Subpart 1. Appointment. The commissioner shall appoint a local research board consisting of the following members:

A. four county highway engineers, only one of whom may be from a county containing a city of the first class;

B. two city engineers, only one of whom may be from a city of the first class;

C. two Department of Transportation staff engineers;

D. one University of Minnesota staff engineer; and

E. one ex officio secretary, who must be the department's research coordination engineer.

Subp. 2. Terms. Appointments of county highway and city engineers, except for unexpired terms are for three years. The other members shall serve at the will of the commissioner.

Subp. 3. **Operating procedure.** The board shall initially meet on call from the commissioner, at which time they shall elect a chair and establish their own procedure for the selection of research projects to be recommended to the commissioner. Final determination on research projects must be made by the commissioner, and the cost must be paid out of the state-aid research accounts provided for by law.

If the board recommends a project covering research in methods of and materials for the construction and maintenance of both the county state-aid highway system and the munici-

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pal state-aid street system, the board shall also recommend to the commissioner the proportionate share of the cost of the project to be borne by the respective county state-aid highway research account and the municipal state-aid street research account, based on the benefits to be realized by each system from such research project.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 17 SR 1279

8820.3300 VARIANCE.

Subpart 1. Written requests. A formal request by a political subdivision for a variance from this chapter must:

A. be submitted to the commissioner in writing in the form of a resolution;

B. identify the project by location¹ and termini; and

C. cite the specific part or standard for which the variance is requested and describe the modification proposed.

Subp. 1a. Additional information. Additional information needed:

A. index map;

B. typical section:

(1) inplace section;

(2) proposed section;

C. reasons for the request;

D. the economic, social, safety, and environmental impacts which may result from the requested variance;

E. effectiveness of the project in eliminating an existing and projected deficiency in the transportation system;

F. effect on adjacent lands;

G. number of persons affected; and

H. safety considerations as they apply to:

(1) pedestrians;

(2) bicyclists;

(3) motoring public; and

(4) fire, police, and emergency units.

Subp. 2. Notice of request. The commissioner shall publish notice of variance request in the State Register and shall request comments from interested parties be directed to the commissioner within 20 calendar days from date of publication.

Subp. 3. Decision. The commissioner shall base the decision on the criteria in part 8820.3400, subpart 3 and shall notify the political subdivision in writing of the decision. The commissioner shall require a resolution by the recipient of the variance that indemnifies, saves, and holds harmless the state and its agents and employees of and from claims, demands, actions, or causes of action arising out of or by reason of the granting of the variance. The recipient of the variance shall further agree to defend at its sole cost and expense any action or proceeding begun for asserting any claim of whatever character arising as a result of the granting of the variance.

Subp. 4. Contested case hearing. Any variance objected to in writing or denied by the commissioner is subject to a contested case hearing as required by law.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09: 162.155; Laws 1983 c 17

History: 8 SR 2146; 15 SR 2596

8820.3400 ADVISORY COMMITTEE ON VARIANCES.

Subpart 1. Appointment. The commissioner may appoint a committee to serve as required to investigate and determine a recommendation for each variance. No elected or appointed official that represents a political subdivision requesting a variance may serve on the committee.

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Subp. 2. **Membership.** The committee shall consist of any five of the following persons: not more than two county highway engineers, only one of whom may be from a county containing a city of the first class; not more than two city engineers, only one of whom may be from a city of the first class; not more than two county officials, only one of whom may be from a county containing a city of the first class; and not more than two city officials, only one of whom may be from a city of the first class. The committee must have at least two elected officials as members.

Subp. 3. **Operating procedure.** The committee shall meet on call from the commissioner at which time they shall elect a chairperson and establish their own procedure to investigate the requested variance.

The committee shall consider the:

A. economic, social, safety, and environmental impacts which may result from the requested variance;

B. effectiveness of the project in eliminating an existing and projected deficiency in the transportation system;

C. effect on adjacent lands;

D. number of persons affected;

E. effect on future maintenance;

F. safety considerations as they apply to pedestrians, bicyclists, motoring public, and fire, police, and emergency units; and

G. effect that the rule and standards may have in imposing an undue burden on a political subdivision.

Subp. 4. **Recommendation.** The committee after considering all data pertinent to the requested variance shall recommend to the commissioner approval or disapproval of the request.

Statutory Authority: *MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17*

History: 8 SR 2146; 15 SR 2596

8820.3500 BOARD OR COMMITTEE MEMBER'S PERSONAL EXPENSES.

The commissioner will authorize the payment of necessary personal expenses in connection with meetings of board and committee members, appointed for state-aid purposes. These expenses must be reported on forms furnished by the commissioner and paid from the state-aid administrative fund.

Statutory Authority: MS s 161.082; 161.083; 162.02; 162.09; 162.155; Laws 1983 c 17

History: 8 SR 2146; 17 SR 1279

8820.4000 REQUEST TO COUNTY BOARD.

Any person may make a written request to designate a county state-aid highway as a natural preservation route. The request must be directed to the county board having jurisdiction over the route. A county board is not required to propose designation for the entire length of a county state-aid highway. The county board shall act on the request within 60 days. In order to designate a county state-aid highway as a natural preservation route, the commissioner must receive a board resolution from the county having jurisdiction over the road.

The county board shall use the descriptions in part 8820.4010 as a guide for determining which designation type best fits a particular route. All of the descriptors may be used in combination. No single descriptor, including ADT, may be used to eliminate a route type from consideration.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4010 CHARACTERISTICS OF ROUTE TYPES.

Subpart 1. Selection criteria generally. To be considered for designation as a natural preservation route, a route must be on the county state-aid highway system. It may be se-

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lected if it possesses particular scenic, environmental, pastoral, or historical characteristics such as, but not exclusively, routes along lakes, rivers, wetlands, or floodplains or through forests or hilly, rocky, or bluff terrain.

Subp. 2. **Type I natural preservation route.** A type I natural preservation route is best characterized as one in which the natural surroundings convey a feeling of intimacy with nature. This type of route carries local passenger vehicles with occasional commercial vehicles. This route has very low volumes with leisurely driving speeds and may be used by pleasure drivers. The roadway alignment follows the terrain, which may be hilly or curving around lakes and wetlands, and can be described as lying lightly on the land. There are few reported accidents related to the geometric design of the roadway or accidents can be minimized without realignment. The operating speeds are generally lower than on regular county state-aid highway routes.

Subp. 3. Type II natural preservation route. A type II natural preservation route creates a feeling similar to the feeling created by a type I natural preservation route, but the surroundings and vistas may be more distant from the roadway. It carries local traffic with moderate amounts of commercial vehicles. This route generally has low volumes but may have seasonal peaks greater than 300 vehicles per day. It has leisurely driving speeds and may be used by some commuters and pleasure drivers. The roadway alignment follows the terrain, which may be hilly or curving around lakes and wetlands. Some modifications may be made to the land surface. There are few reported accidents related to the geometric design of the roadway or accidents can be minimized with mitigation as referred to in part 8820.4060. The operating speeds may be lower than regular county state-aid highway routes.

Subp. 4. **Type III natural preservation route.** A type III natural preservation route goes through an environment similar to the types I and II natural preservation routes, but the surroundings and vistas may be more distant from the roadway. It may function as a minor or major collector and may be used by general commercial traffic. It generally has volumes less than 750 vehicles per day but may have seasonal peaks. This type of roadway passes through diverse terrain features and the alignment is consistent with the traffic mix. It may have required some modifications to the land surface. The safety problems that may exist are related to the traffic volumes and to the geometric design of the roadway. The problems can be corrected with mitigation as referred to in part 8820.4060 or with reconstruction. The operating speeds may be lower than a comparable county state-aid highway route that is not on the natural preservation route system.

Statutory Authority: *MS s* 162.02; 162.021; 162.09 **History:** 18 SR 32

8820.4020 REQUIREMENTS FOR ROUTE DESIGNATION PROPOSALS.

Subpart 1. County board resolution. The county board shall submit a formal request to the commissioner in the form of a resolution.

Subp. 2. Required information. The request must be accompanied by:

A. an index map that identifies the proposed natural preservation route by county state-aid highway number and termini;

B. a narrative describing the history of the route, any controversy surrounding it, the inplace cross section, the particular scenic, environmental, or historical characteristics considered desirable to preserve, and which designation category (type I, II, or III) of natural preservation route being requested;

C. photographs of the route;

D. a listing of parks, rivers, or other designated natural or historical resource areas that the highway corridor passes through or adjoins and that are considered desirable to preserve;

E. a description of any safety hazards existing along the route and a discussion of the accident record over the past five years;

F. a transportation plan that considers alternate routes, or traffic management plan for the area including compatibility with the existing roadway network, as well as the existing and projected ADT;

G. a description of the function of the route including the functional classification, the type of traffic using the route, and a discussion of seasonal variations and trip purposes;

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H. a comparison of the current operating speed, the legal speed limit, and the rationale for the selection of the planned design speed;

I. a preliminary description of the planned design if construction or reconstruction is proposed, including a discussion of:

(1) what natural or historical elements might be affected by different construction alternatives;

(2) which safety features might be affected by different construction alternatives; and

(3) how any changes in the continuity of design will be mitigated;

J. preliminary cost estimates of the various alternatives considered;

K. environmental documentation that may have been completed, including public notices and public meetings that have occurred;

L. a description of existing and projected land uses, any zoning in effect, and compatibility with the natural preservation route characteristics; and

M. a description of any provisions to address bicycles, pedestrians, and equestrians.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4030 ADVISORY COMMITTEE.

Subpart 1. Appointment and membership. The commissioner shall appoint an advisory committee for each construction district consisting of seven members: one member from the department of natural resources, one county highway engineer, one county commissioner, one representative of a recognized environmental organization, and three members of the public. The commissioner shall refer each county board submittal received to the advisory committee for the construction district in which the county exists. No elected or appointed official that represents a political subdivision requesting the designation or any public member residing in that county may serve on the committee.

Subp. 2. **Operating procedure.** The advisory committee shall meet on call from the commissioner at which time they shall elect a chair and establish their own procedures to investigate the designation proposals.

The committee shall consider:

A. the economic, social, safety, and environmental impacts that may result from the designation or denial of the designation;

B. the magnitude of the effects on adjacent lands and the value of the characteristics identified in part 8820.4020, subpart 2;

C. the number of persons, either residents or the traveling public, affected by designation or denial of designation;

D. the present and future use of adjacent lands;

E. safety considerations as they apply to pedestrians; bicyclists; motoring public; and fire, police, and emergency units; and

F. other related issues as may be pertinent to the roadway that have been identified from information submitted in part 8820.4020, subpart 2.

Subp. 3. **Recommendation.** After considering all data pertinent to the requested designation, the committee shall recommend to the commissioner approval or disapproval of the request.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4040 DESIGNATION BY COMMISSIONER.

Following receipt of the advisory committee recommendation, the commissioner may designate the roadway as a natural preservation route. The commissioner shall base the decision on the criteria in part 8820.4030, subpart 2, and shall notify the political subdivision in

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writing of the decision. If the request is denied, a written explanation will be included with this notification.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4050 EXTENT OF STATE AID.

The extent of state aid participation for a construction project must be determined on the same basis as a regular county state—aid highway project, except that landscaping items are eligible for up to two percent of the total construction allocation of the year in which any construction on the natural preservation route is completed.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4060 GEOMETRIC STANDARDS.

The standards in parts 8820.9980 and 8820.9985 apply to designated natural preservation routes. In the case of reconstruction, the designer shall preserve, to the greatest extent possible, the existing profile, alignment, and cross section. In doing so, the designer shall consider the use of guardrails, retaining walls, and curb sections to protect natural amenities. To the extent practical, the designer shall include in the design landscaping, including native species, curving alignments, variable back slopes, variable ditch bottoms, limited clearing, and other means available to limit the impacts on the environment while still addressing public safety.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4070 RECONSTRUCTION NOTIFICATION.

A county proposing a project that requires removal of the entire surface of a county state—aid highway that is a natural preservation route shall send to owners of property abutting the highway a written notice that describes the project. In addition, the county shall hold a public meeting to discuss design and construction alternatives. Before project approval, the county engineer shall provide evidence to the state aid engineer that the concerns raised at the public meeting have been addressed or incorporated into the project. Spot maintenance projects, such as culvert replacements or subgrade corrections, do not require notice.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4080 SIGNS.

Route markers must be posted at public road entry points to and at regular intervals along natural preservation routes. Signs posted must conform to the Minnesota Manual on Uniform Traffic Control Devices adopted under Minnesota Statutes, section 169.06. Properly posted signs are prima facie evidence that adequate notice of a natural preservation route has been given to the motoring public. Signs must conform to the requirements in part 8820.9990.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.4090 REMOVAL OF DESIGNATION.

A county board, after notice and a public hearing, may petition the commissioner to remove the natural preservation route designation if the board believes the characteristics on which the natural preservation route designation was approved have substantially been lost. The petition for removing the designation must be based on, and the advisory committee shall consider, such items as loss of aesthetic qualities, changes in land use, changes in road function, or significant increases in accidents. The committee shall then make a recommendation to the commissioner. Following receipt of the advisory committee's recommendation, the commissioner may remove the natural preservation route designation from the roadway. The commissioner shall base the decision on the criteria in part 8820.4030, subpart 2, notify

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the political subdivision in writing of the decision, and include a written explanation with the notification.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

EXHIBITS, FIGURES, AND TABLES

8820.9910 GEOMETRIC DESIGN STANDARDS; RURAL UNDIVIDED (9); NEW OR RECONSTRUCTION.

Projected Lane Shoulder ADT (6) Width Width				(1)	(2)	(3)		Structural	(4) New and Rehabilitated	Bridge	to Remain
	Shoulder Width	Inslope Recovery Area	Design Speed Surfacing	Design Strength	Bridges Width Curb-Curb	Width Curb-Curb	Structural Capacity (8)				
0-49	11'	ť	3:1	7'	30-60	Aggregate	-	28'	22'	H-15	
50-149	11'	3.	4:1	9,	40-60 (7)	Aggregate	-	32'	22'	H-15	
150-399	12'	4' (5)	4:1	15'	40-60	Paved	7-ton ult. 9-ton	36'	28'	H-15	
400-749	12'	4	4:1	20'	40-60	Paved	9-ton	36'	28'	H-15	
750-1499	12'	6'	4:1	25'	40-60	Paved	9-ton	40'	28'	H-15	
1500 & Over	12'	8'	4:1	30.	40-60	Paved	10-ton	44'	30'	H-15	

(1) Applies to slope within recovery area only.

(2) Obstacle-free area (measured from edge of traffic lane). Culverts with less than 27" vertical height allowed without protection in recovery area.

(3) Subject to terrain. Based on stopping sight distance.

(4) HS-25 loading is required.

(5) Initial roadbed width must be adequate to provide a finished roadbed width for nine-ton design.

(6) Use the existing traffic for highways not on the state-aid or federal-aid secondary (FAS) systems.

(7) Design speed of 30 miles per hour allowed off of the state-aid or FAS systems.

(8) Inventory design rating.

(9) Use the geometric design standards of the MN/DOT Road Design Manual for rural divided roadways. Minimum ten-ton structural design and 40 miles per hour design speed are required.

Statutory Authority: *MS s* 161.082; 161.083; 162.02; 162.09; 162.155; *Laws* 1983 *c* 17

History: 8 SR 2146; 15 SR 2596

8820.9911 [Repealed, 15 SR 2596]

8820.9912 [Repealed, 15 SR 2596]

8820.9913 [Repealed, 15 SR 2596]

8820.9914 [Repealed, 15 SR 2596]

8820.9915 [Repealed, 15 SR 2596]

8820.9916 [Repealed, 15 SR 2596]

8820.9917 [Repealed, 15 SR 2596]

8820.9918 [Repealed, 15 SR 2596]

8820.9919 [Repealed, 15 SR 2596]

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8820.9925 GEOMETRIC DESIGN STANDARDS: RURAL UNDIVIDED; RESURFACING.

Present ADT	Proposed Structural Design Strength	Pavement Width	Shoulder- Shoulder Width	Design Speed
Under 100	7-ton	22'	26'	30
100-749	7-ton	22'	26'	40
750-999	7-ton	22'	30'	40
1,000 and over	7-ton	24'	30'	40

Widths of bridges to remain in place must equal roadway pavement width. H-15 loading is required.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9930 GEOMETRIC DESIGN STANDARDS: SUBURBAN; NEW OR RECONSTRUCTION.

			(1)	(2) (4)		(3) New and Rehabilitated	Bridges to Remain		
	Shoulder Width		Structura Design Design Speed Strength		Bridges Width Curb-Curb	Width Curb-Curb	Structural Capacity (5)		
Less than 1,000	12'	6'	4:1	20'	30-50	9-ton	40'	28'	H-15
Over 1,000	12'	8'	4:1	20'	30-50	9-ton	44'	30'	H-15

(1) Applies to slope within the recovery area only.

(2) Obstacle-free area, measured from edge of traffic lane. Culverts with less than 27-inch vertical height are allowed without protection in the recovery area.

(3) HS-25 loading is required.

(4) Design speed is based on stopping sight distance.

(5) Inventory design rating.

This standard applies only when the project is both located in a platted area or an area in a detailed development process, and physical restraints are present that prevent reasonable application of the rural design standards.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9935 GEOMETRIC DESIGN STANDARDS: URBAN; 30 TO 35 M.P.H. DESIGN SPEED; NEW OR RECONSTRUCTION.

Subpart 1. Two-way streets. In the following table, total width is in feet, face-to-face of curbs.

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Number of Through Lanes	Density	No Parking Both Sides	Parking One Side	Parking Both Sides
2-Lane Collector	Low or High	26' (2-11-11-2 <u>)</u>	32' (8-11-11-2)	38' (8-11-11-8)
4-Lane Collector	Low or High	48' (2-11-11-11-11-2)	54' (8-11-11-11-11-2)	60' (8-11-11-11-8)
2-Lane Arterial	Low	30' (4-11-11-4)	36' (4-11-11-10)	42' (10-11-11-10)
4-Lane Arterial	Low or High	48' (2-11-11-11-11-2)	56' (10-11-11-11-11-2)	64' (10-11-11-11-10)
6-Lane Arterial	High.	70' (2-11-11-11-11-11-2)	None	None

TWO-WAY STREETS

When a median is included in the design of the two-way roadway, add two feet to the dimension shown. This provides a one-foot reaction area on either side of the median. Minimum median width is four feet.

Subp. 2. One-way streets. In the following table, total width is in feet, face-to-face of curbs.

ONE-WAY STREETS

Number of Through Lanes	Density	No Parking Both Sides	Parking One Side	Parking Both Sides
1-Lane Collector	Low or High	None <u>.</u>	None	None
2-Lane Collector	Low or High	26' (2-11-11-2) <u></u>	32' (2-11-11-8)	38' (8-11-11-8)
1-Lane Arterial Low		None	None	None
2-Lane Arterial	Low or High	26' (2-11-11-2)	34' (2-11-11-10)	42' (10-11-11-10)
3-Lane Arterial	High	37' (2-11-11-11-2)	45' (2-11-11-11)	53' (10-11-11-11)

Subp. 3. **Requirements common to both.** Urban design roadways must be a minimum nine-ton structural design. A new or rehabilitated bridge must have a curb-to-curb width equal to the required street width. HS-25 loading is required. Design speed is based on stopping sight distance. Wherever possible, lane widths of 12 feet, rather than 11 feet, should be used.

Refer to table 8820.9950 for classification, capacity, and peak-hour relationship.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9940 GEOMETRIC DESIGN STANDARDS: URBAN; GREATER THAN 35 M.P.H. DESIGN SPEED; NEW OR RECONSTRUCTION.

Subpart 1. Two-way streets. In the following table, total width is in feet, face-to-face of curbs.

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Number of Through Lanes	Density	No Parking Both Sides	Parking One Side *	Parking Both Sides *
2-Lane Collector	Low or High	28' (2-12-12-2)	36' (10-12-12-2)	44' (10-12-12-10)
4-Lane Collector	Low or High	52' (2-12-12-12-12-2)	60 [°] (10-12-12-12-12-2)	68' (10-12-12-12-12-10)
2-Lane Arterial	Low	32' (4-12-12-4)	38' (4-12-12-10)	44 [.] (10-12-12-10)
4-Lane Arterial	Low or High	52' (2-12-12-12-12-2)	60' (10-12-12-12-12-2)	68' (10-12-12-12-12)
6-Lane Arterial	High	76' (2-12-12-12-12-12-12-2)	None	None

TWO-WAY STREETS

* No parking is allowed when the posted speed exceeds 45 miles per hour.

When a median is included in the design of the two-way roadway, add two feet to the dimension shown. This provides a one-foot reaction area on either side of the median. Minimum median width is four feet.

Subp. 2. One-way streets. In the following table, total width is in feet, face-to-face of curbs.

Number of Through Lanes	Density	No Parking Both Sides	Parking One Side *	Parking Both Sides *
1-Lane Collector	Low or. High	None	None	None
2-Lane Collector	Low or High	28' (2-12-12-2)	36' (2-12-12-10)	44' (10-12-12-10)
1-Lane Arterial	Low	None	None	None
2-Lane Arterial	Low or High	28' (2-12-12-2)	37' (2-12-12-11)	46' (11-12-12-11)
3-Lane Arterial	High	40' (2-12-12-12-2)	49' (2-12-12-12-11)	58' (11-12-12-12-11)

ONE-WAY STREETS

* No parking is allowed when the posted speed exceeds 45 miles per hour.

Subp. 3. **Requirements common to both.** Urban design roadways must be a minimum nine-ton structural design. A new or rehabilitated bridge must have a curb-to-curb width equal to the required street width. HS-25 loading is required. Provide one and one-half feet of clearance from the face of the curb to fixed objects when the posted speed is 40 to 45 miles per hour. Provide a ten-foot clearance from the driving lane when the posted speed exceeds 45 miles per hour. Design speed is based on stopping sight distance.

Refer to table 8820.9950 for classification, capacity, and peak-hour relationship.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

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8820.9945 GEOMETRIC DESIGN STANDARDS: URBAN; RESURFACING.

Subpart 1. Two-way streets. In this table, total width is in feet, face-to-face of curbs. TWO-WAY STREETS

Number of Through Lanes	Density	No Parking Both Sides	Parking One Side	Parking Both Sides	Proposed Structural Design Strength
	Low	26'	32'	38'	7-ton
2-Lane Collector	High	26'	32'	38'	9-ton
	Low	44'	52'	60,	7-ton
4-Lane Collector	High	44'	52'	60'	9-ton
2-Lane Arterial	Low	26'	32'	42'	9-ton
41.000	Low	44'	54'	64'	9-ton
4-Lane Arterial	High	44'	54'	64'	9-ton
6-Lane Arterial	High	66'	None	None	9-ton

When a median is included in the two-way roadway, add two feet plus the width of the median to the dimension shown. This allows for a one-foot reaction area on either side of the median.

Subp. 2. One-way streets. In this table, total width is in feet, face-to-face of curbs. ONE-WAY STREETS

Number of Through Lanes	Density	No Parking Both Sides	Parking One Side	Parking Both Sides	Proposed Structural Design Strength
	Low	None	None	None	7-ton
1-Lane Collector	High	None	None	None	9-ton
0.1.0.00	Low	21'	29'	37'	7-ton
2-Lane Collector	High	23'	31'	39'	9-ton
1-Lane Arterial	Low	None	None	None	9-ton
01.000	Low	23'	31'	39'	9-ton
2-Lane Arterial	High	24'	32'	40'	9-ton
3-Lane Arterial	High	34'	42'	50'	9-ton

Subp. 3. **Requirements common to both.** Recovery area standards are not applicable. Minimum design speed is 30 miles per hour based on stopping sight distance.

For urban roadway classification, see parts 8820.2500, subpart 1; and 8820.9950 substituting present ADT for the projected ADT shown.

Statutory Authority: *MS s* 162.02; 162.09 History: 15 SR 2596

8820.9950 URBAN ROADWAY CLASSIFICATION.

Classification	Facility Function	Design Character	*Projected ADT Range
Collector (low density)	Serves as a feeder facility from neighbor- hood and local streets to the collector/arterial network. Also serves as access for business and residential development.	Low to moderate operating speeds.	200-5,000 ADT
Collector (high density)	Collects traffic from local and feeder streets and connects with arterials. Can serve local business districts.	Moderate operating speed provides access and traffic mobility.	1,000-10,000 ADT
Arterial (low density)	Serves intracommunity travel. Augments high- density arterial system.	Some access control with emphasis on traffic mobility.	5,000-15,000 ADT
Arterial (high density)	Forms backbone of urban network. Serves as through facility.	Provides for through traffic and turning movements. May provide divided roadway and access control.	12,000 & up ADT

* Additional average daily traffic may be allowed in a classification if a capacity analysis demonstrates that "level of service D" or better is achieved at the higher traffic volume. If the capacity analysis demonstrates that additional lanes are required only during peak traffic hours, then each additional driving lane may be used as a parking lane during nonpeak hours.

"Level of service" has the meaning given it in the Highway Capacity Manual, Special Report 209, as revised and published by the Transportation Research Board of the National Research Council (Washington, D.C.). The definition is incorporated by reference, is not subject to frequent change, and is located at the Minnesota State Law Library, 25 Constitution Avenue, St. Paul, Minnesota 55155.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9955 VERTICAL CLEARANCES FOR UNDERPASSES.

	Rural-Suburban Design, Vertical Clearance	Urban Design, Vertical Clearance
Highway under roadway bridge	16'4"	14'6"
Highway under railroad bridge	16'4"	14'6"
Highway under pedestrian bridge	17'4"	14'6"
Highway under sign structure	17'4"	14'6"
Railroad under roadway bridge*	22'0"	22`0"

*Variances to the required minimum may be granted by the Minnesota Transportation Regulation Board. That approval eliminates the need for a state-aid variance.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9960 STATE-AID OPERATIONS

8820.9960 MINIMUM DESIGN STANDARDS FOR 45-DEGREE AND 60-DEGREE DIAGONAL PARKING.

Parking Angle	Stail Width	Stali Depth	Traffic Aisle Width	Length Along Curb	1/2 Roadway Width (Minimum)	Present ADT	Legal Speed Limit
45 Degrees	9,	19.8'	13.2'	12.7'	33'	Less than 3,000	30 MPH or less
60 Degrees	9.	21.0'	18.0'	10.4	39'	Less than 3,000	30 MPH or less
45 Degrees	9'	19.8'	25.2'	12.7'	45'	3,000 and over	30 MPH or less
60 Degrees	9'	21.0'	30.0'	10.4'	51'	3,000 and over	30 MPH or less

Diagonal parking provisions must be established by cooperative agreement between the local road authority and the commissioner.

The cooperative agreement must show the angle of parking, provide for pavement marking of the parking lanes, and provide that the road authority may alter parking provisions if traffic volumes exceed the design criteria.

Minnesota Statutes, section 169.34, must be adhered to in determining diagonal parking spacing.

Provide a two-foot clearance from the face of the curb to fixed objects. Parking meters, when spaced so as to not interfere with vehicle operation, are exempt.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9965 GEOMETRIC DESIGN STANDARDS: DESIGNATED NATIONAL FOREST HIGHWAYS WITHIN NATIONAL FORESTS AND STATE PARK ACCESS ROADS WITHIN STATE PARKS; NEW OR RECONSTRUCTION.

	(3) (1) (2) (5)		(4) New and	Bridges to Remain						
Projected ADT	Lane Width	Shouider Width	Inslope	Recovery Design Area Speed Surfa	Surfacing	Structural Deelgn Strength	Rehabilitated Bridges, Width Curb-Curb	Width Curb-Curb	Structural Capacity	
0-99	11'	2'	3:1	9'	30-50	Aggregate	-	28'	24'	H-15
100-749	12'	2'	3:1	15'	35-50	Paved	9-ton	32'	24'	H-15
750-999	12'	4' -	3:1	15'	35-50	Paved	9-tan	36'	28'	H-15
1,000 and over	12'	6'	4:1	20'	40-50	Paved	9-ton	40'	30'	H-15

(1) Applies to slope within recovery area only.

(2) Obstacle-free area, measured from edge of traffic lane. Culverts with less than a 27-inch vertical height are allowed without protection in the recovery area.

(3) When bicycle paths use a shoulder, the shoulder must be a minimum of four feet and must be paved.

(4) HS-25 loading is required.

(5) Design speed is based on stopping sight distance.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

STATE-AID OPERATIONS 8820.9980

8820.9970 GEOMETRIC DESIGN STANDARDS: DESIGNATED NATIONAL FOREST HIGHWAYS WITHIN NATIONAL FORESTS AND STATE PARK ACCESS ROADS WITHIN STATE PARKS; RESURFACING.

Present ADT	Proposed Structural Design Strength	Pavement Width	Shoulder- Shoulder Width	Design Speed
0-1000	7-ton	22'	26'	30
Over 1000	7-ton	24'	28'	35

Bridges to remain in place must be at least equal in width to the pavement width. H–15 loading is required. Design speed is based on stopping sight distance.

Statutory Authority: MS s 162.02; 162.09

History: 15 SR 2596

8820.9980 MINIMUM GEOMETRIC DESIGN STANDARDS: NATURAL PRESERVATION ROUTES; NEW OR RECONSTRUCTION.

Subpart 1. Type I natural preservation route.

TYPE I NATURAL PRESERVATION ROUTE

Aggregate	Paved
30 mph	30 mph
11 ft.	11 ft.
1 ft.	2 (5) ft.
3:1	3:1
3 ft.	10 ft.
	9 tons
28 ft.	28 ft.
22 ft.	22 ft.
	30 mph 11 ft. 1 ft. 3:1 3 ft. 28 ft.

(1) Applies to slope within recovery area only. Other design features, such as guardrails or retaining walls, should be considered in particularly sensitive areas in lieu of reconstructing the inslope in accordance with part 8820.4060.

(2) Obstacle-free area (measured from edge of traffic lane).

(3) HS-20 loading is required.

(4) Based on stopping sight distance.

(5) The designer will provide a four-foot paved shoulder if the route is a popular bike route.

(6) Ditch depths and widths must be kept to the minimum required to function hydraulically and to provide for adequate snow storage when a standard ditch would negatively impact the surroundings.

(7) The designer shall specify in the plan and special provisions that the clearing width is to be kept to the absolute minimum. In sensitive areas, the normal clearance allowed to a contractor for working room is zero unless otherwise required for special conditions.

(8) If the route has scenic vistas that will require parking vehicles along the shoulder, widening the shoulder at these locations is acceptable.

(9) Curb and gutter may be used in lieu of a ditch section under the paved option. The lane width, shoulder width, and recovery area must be maintained.

(10) Inventory design rating H-15.

Subp. 2. Type II natural preservation route.

8820.9980 STATE-AID OPERATIONS

Aggregate	Paved
30 mph 11 ft. 2 ft.	40 mph 12 ft. 4 ft.
3:1	4:1
9 ft.	10 ft. 9 tons
28 ft. 24 ft.	32 ft. 24 ft.
	30 mph 11 ft. 2 ft. 3:1 9 ft.

TYPE II NATURAL PRESERVATION ROUTE

(1) Applies to slope within recovery area only. Other design features such as guardrail or retaining walls should be considered in particularly sensitive areas in lieu of reconstructing the inslope in accordance with part 8820.4060.

(2) Obstacle free area (measured from edge of traffic lane).

(3) HS-20 loading is required.

(4) Based on stopping sight distance.

(5) The designer will provide a six-foot paved shoulder if the route is a popular bike route. If the route has scenic vistas which will require parking vehicles along the shoulder, widening the shoulder at these locations is acceptable.

(6) Ditch depths and widths must be kept to the minimum required to function hydraulically, to be traversable if within the recovery area, and to provide for adequate snow storage when a standard ditch would negatively impact the surroundings.

(7) The designer shall specify in the plan and special provisions that the clearing width is to be kept to the absolute minimum. In sensitive areas the normal clearance allowed to a contractor for working room shall be zero unless required for special conditions.

(8) Inventory design rating H–15.

Subp. 3. Type III natural preservation route.

TYPE III NATURAL PRESERVATION ROUTE

Surface Type	Aggregate	Paved (8)	Paved
Design Speed (4)	30 mph	30 mph	40 mph
Lane Width	12 ft.	12 ft.	12 ft.
Shoulder Width (5)	3 ft.	4 ft.	6 ft.
Inslope (1)	4:1	4:1	4:1
Recovery Area (2)	10 ft.	10 ft.	15 ft.
Design Strength (5)		9 tons	9 tons
New Bridge Width (3)	32 ft.	32 ft.	36 ft.
Bridge to remain (9)	24 ft.	24 ft.	24 ft.

(1) Applies to slope within recovery area only. Other design features such as guardrail or retaining walls should be considered in particularly sensitive areas in lieu of reconstructing the inslope in accordance with part 8820.4060.

(2) Obstacle free area (measured from edge of traffic lane).

(3) HS-25 loading is required.

(4) Based on stopping sight distance.

(5) The designer will provide a six-foot paved shoulder if the route is a popular bike route. If the route has scenic vistas which will require parking vehicles along the shoulder, widening the shoulder at these locations is acceptable.

(6) Ditch depths and widths must be kept to the minimum required to function hydraulically, to be traversable if within the recovery area, and to provide for adequate snow storage when a standard ditch would negatively affect the surroundings.

(7) The designer shall specify in the plan and special provisions that the clearing width is to be kept to the absolute minimum. In sensitive areas the normal clearance allowed to a contractor for working room shall be zero unless required for special conditions.

STATE-AID OPERATIONS 8820.9990

(8) This column may be applied only when the project is located in a platted area or an area in a detailed development process, and physical restraints are present that prevent reasonable application of another level of these standards.

(9) Inventory design rating H-15.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.9985 MINIMUM GEOMETRIC DESIGN STANDARDS: NATURAL PRESERVATION ROUTES; RESURFACING.

TYPE I, II, OR III NATURAL PRESERVATION ROUTE

Proposed Design Strength	Pavement Width	Shoulder-to-Shoulder Width
7 tons	22 ft.	26 ft.

7 tons

Widths of bridges to remain in place must equal pavement width. H-15 loading is required.

Statutory Authority: MS s 162.02; 162.021; 162.09

History: 18 SR 32

8820.9990 ROUTE MARKER.



24 x 24 Green legend; white reflectorized background Statutory Authority: MS s 162.02; 162.021; 162.09 History: 18 SR 32

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