



Saint Cloud
Area Planning Organization

1040 County Road 4, St. Cloud, MN 56303-0643

(320) 252-7568 • (320) 252-6557 (FAX) • E-mail: admin@stcloudapo.org • www.stcloudapo.org

AGENDA

Technical Advisory Committee

Thursday, April 4, 2019 – 10 a.m.

Stearns County Highway Department
455-28th Ave. S, Waite Park

1. Consider Minutes of March 7, 2019
 - a. Suggested Motion: Recommend Approval
2. Public Comment Period
 - a. Suggested Motion: Recommend Approval
3. FY 2019-2023 Transportation Improvement Program Changes (Vicki Johnson (Ikeogu), Associate Planner)
 - a. Suggested Motion: Recommend Policy Board approval.
4. 2015 Regional Travel Demand Model Calibration Results (Alex McKenzie, Planning Technician)
 - a. Suggested Motion: None, discussion only
5. Change TAC Meeting Date?
 - a. Informational/Discussion
6. Other Business / Open Floor
7. Adjournment

English

The Saint Cloud Area Planning Organization (APO) fully complies with the Title VI of the Civil Rights Act of 1964, the Americans with Disabilities Act of 1990, Executive Order 12898, Executive Order 13116 and related statutes and regulations. The APO is accessible to all persons of all abilities. A person who requires a modification or accommodation, auxiliary aids, translation services, interpreter services, etc., in order to participate in a public meeting, including receiving this agenda and/or attachments in an alternative format, or language please contact the APO at 320-252-7568 or at admin@stcloudapo.org at least seven (7) days in advance of the meeting.

Somali

Ururka Qorsheynta Agagaarka Saint Cloud (APO) waxay si buuxda ugu hoggaansantay Qodobka VI ee Xeerka Xuquuqda Dadweynaha ee 1964, Sharciga Dadka Maraykanka ah ee Naafada ah ee 1990, Amarka Fulinta 12898, Amarka Fulinta 13116 iyo xeerarka iyo sharciyada la xiriira. APO waxa heli kara dhamaan dadka leh awoodaha kala duwan. Qofka u baahan in waxka bedel ama qaabilaad, qalabka caawinta, adeegyada tarjumaadda qoraalka, adeegyada turjumaadda hadalka, iwm, si uu uga qaybgalo kulan dadweyne, oo uu kamid yahay yihiin helitaanka ajandahan iyo/ama waxyaabaha ku lifaaqan oo qaab kale ama luqad kale ah fadlan kala xiriir APO 320-252-7568 ama admin@stcloudapo.org ugu yaraan toddoba (7) maalmood ah kahor kulanka.

Hmong

Lub koom haum Saint Cloud Area Planning Organization (APO) tau ua raws nraim li Nqe Lus VI ntawm Tsom fwm Cov Cai Pej Xeem xyoo 1964, Tsab Kev Cai Hai Txog Kev Xiam Oob Khab ntawm Haiv Neeg Mes Kas xyoo 1990, Tsab Cai 12898, Tsab Cai 13116 thiab cov cai thiab kev tswj fwm uas cuam tshuam. APO tuaj yeem nkag tau rau txhua tus neeg uas muaj peev xwm. Tus neeg uas xav tau kev hloov kho lossis pab cuam, pab lwm tus, pab txhais ntawv, pab txhais lus, thiab lwm yam, txhawm rau kom koom tau rau hauv lub rooj sab laj nrog pej xeem, nrog rau kev txais cov txheej txheem no thiab / lossis cov ntawv uas sau ua lwm hom ntawv, lossis lwm hom lus thov hu rau APO ntawm 320-252-7568 lossis sau ntawv tuaj tau ntawm admin@stcloudapo.org tsawg kawg yog xya (7) hnub ua ntej ntawm lub rooj sib tham.

Spanish

La Saint Cloud Area Planning Organization (Organización de Planificación del Área de Saint Cloud, APO) cumple plenamente con el Título VI de la Civil Rights Act (Ley de Derechos Civiles) de 1964, la Americans with Disabilities Act (Ley de Estadounidenses con Discapacidades) de 1990, el Decreto 13116 y estatutos y normas asociados. La APO está disponible para todo tipo de personas con todo tipo de capacidades. Las personas que requieran modificaciones o adaptaciones, ayudas auxiliares, servicios de traducción e interpretación, etc., con el fin de participar en una reunión pública, lo que incluye recibir esta agenda o documentos adjuntos en un formato o lenguaje distinto, deben comunicarse con la APO llamando al 320-252-7568 o escribiendo a la dirección admin@stcloudapo.org al menos siete (7) días antes de la reunión.

Laotian

ອົງການວາງແຜນເຂດພື້ນທີ່ Saint Cloud (APO) ປະຕິບັດຕາມ Title VI ຂອງກົດໝາຍວ່າດ້ວຍສິດທິພົນລະເມືອງປີ 1964, ກົດໝາຍວ່າດ້ວຍຄົນພິການຊາວອາເມລິກາປີ 1990, ຄໍາສັ່ງປະທານະທີ່ບໍດີເລກທີ 12898, ຄໍາສັ່ງປະທານະທີ່ບໍດີເລກທີ 13116 ແລະ ກົດໝາຍ ແລະ ກົດລະບຽບທີ່ກ່ຽວຂ້ອງຢ່າງຄົບຖ້ວນ. ຄົນທຸກຊົນຊັ້ນອັນນະສາມາດເຂົ້າເຖິງ APO ໄດ້. ບຸກຄົນທີ່ຈໍາເປັນຕ້ອງມີການດັດແປງແກ້ໄຂ ຫຼື ການອໍານວຍຄວາມສະດວກ, ອຸປະກອນຊ່ວຍ, ການບໍລິການແປເອກະສານ, ການບໍລິການລ່າມແປພາສາ ແລະ ອື່ນໆ ເພື່ອເຂົ້າຮ່ວມການຊຸມນຸມສາທາລະນະ ລວມທັງການໄດ້ຮັບວາລະນີ້ ແລະ/ຫຼື ເອກະສານຄັດຕີດໃນຮູບແບບ ຫຼື ເປັນພາສາອື່ນໃດໜຶ່ງ ກະລຸນາຕິດຕໍ່ຫາ APO ທີ່ບີ້ 320-252-7568 ຫຼື ອີເມວ admin@stcloudapo.org ຢ່າງໜ້ອຍເຈັດ (7) ວັນລ່ວງໜ້າການຊຸມນຸມ.



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TO: Saint Cloud Area Planning Organization Technical Advisory Committee
FROM: Vicki Johnson (Ikeogu), Associate Planner
RE: FY 2019-2023 Transportation Improvement Program Amendments,
Administrative Modifications, and Technical Corrections
DATE: March 8, 2019

One of the responsibilities of the Saint Cloud Area Planning Organization (APO), as outlined by the Federal government, is to develop and maintain a Transportation Improvement Program (TIP). The TIP is the document that programs federal funds for transportation improvements in the APO's Metropolitan Planning Area (MPA). Decisions about transportation investments require collaboration and cooperation between different levels of government and neighboring jurisdictions and agencies. As a document, the TIP reports how the various jurisdictions and agencies within the MPA have prioritized their use of limited Federal highway and transit funding.

Several changes have been proposed to the APO's FY 2019-2023 TIP. In summary, the proposed changes include cost increases, cost decreases, new funding sources, description of work updates and the removal of projects. For details of all changes please view the attachment provided.

With all of the proposed changes, fiscal constraint has been maintained for each jurisdiction and agency.

The thirty (30) day public comment period on these changes concludes on Monday, April 8, 2019.

Requested action: Recommend Policy Board approval.

Changes to FY 2019-2023 Transportation Improvement Program

The following is a list of proposed changes (separated by fiscal year) to the Saint Cloud Area Planning Organizations (APO's) FY 2019-2023 Transportation Improvement Program.

Comments and feedback from members of the public is encouraged. Please submit all comments by no later than **5 p.m. on Monday, April 8, 2019** to Vicki Johnson (Ikeogu). Comments can be submitted via [email \(ikeogu@stcloudapo.org\)](mailto:ikeogu@stcloudapo.org), by phone (320)-252-7568, or in person at the APO Office (1040 County Road 4, Saint Cloud, MN 56303).

These proposed changes will be addressed by the APO's Policy Board on **Thursday, April 11, 2019**.

2019:

- **Stearns County** SP 073-675-037AC1: Dist C AC Payback reduced from \$631,828 to \$631,323. (Admin)
- **Stearns County** SP 073-070-020: Project cost has increased from \$237,500 to \$324,000.
- **Saint Cloud** SP 162-090-008: Technical correction in description from CR 47 to CR 74.
- **MnDOT** SP 73-00137: Project reduced from \$200,000 (Dist C FHWA \$180,000/ Other \$20,000) to \$194,984 (\$175,486 for FHWA, \$19,498 for other).
- **MnDOT** SP 73-00138: Project reduced from \$350,000 (Dist C FHWA \$5,000/ Other \$345,000) to \$212,992 (\$191,693 for FHWA/ \$21,299 other) (Admin)
- **MnDOT** SP 7380-246: Project increased from \$588,000 (FHWA \$529,200/ State \$58,800) to \$887,392 (FHWA \$798,653 and \$88,739 State)
- **MnDOT** SP 7303-50: Project has increased from \$8,070,000 (FHWA \$6,456,000, state \$1,614,000) to \$8,727,923 (FHWA \$6,980,738, state \$1,747,185)
- **MnDOT** SP 8823-338: Project increased from \$3,000,000 to \$3,639,000. All state funded.

2020:

- **Metro Bus** SP TRF-0048-20B: Technical correction in project number. Changed to TRS-0048-20TD. Removal of Section 5307 from description.
- **Metro Bus** SP TRF-0048-20C: Technical correction in project number. Changed to TRS-0048-20TE. Removal of Section 5307 from description.
- **Metro Bus** SP TRF-0048-20D: Technical correction in project number. Changed to TRS-0048-20TF. Removal of Section 5307 from description.
- **MnDOT** SP 0503-90: Addition of clarification language "at Benton CSAH 8 East of St Cloud." Change in project cost from \$2,300,000 (FHWA \$1,840,000/ \$460,000 state) to \$3,027,000 (FHWA \$2,421,600/state \$605,400).
- **MnDOT** SP 0503-90S: Addition of clarification language "at Benton CSAH 8 East of St Cloud."
- **MnDOT** SP 8803-AM-20: Project cost decreased from \$1,300,000 to \$1,100,000.
- **MnDOT** SP 8803-CA-20: Project cost increased from \$3,500,000 to \$5,650,000.
- **MnDOT** SP 8803-CA-20A: Project cost decreased from, \$3,992,000 to \$2,220,700.
- **MnDOT** SP 8803-PM-20: Project cost decreased from \$3,500,000 to \$2,900,000.

2021:

- **Saint Cloud** SP 162-175-001: Technical correction in project description. Changing the terminology from reclamation to reconstruction. No change in project scope or work type.
- **MnDOT** SP 8823-344: Project has been removed from FY 2021. (HSIP \$750,000/ FHWA \$675,000/Other \$75,000)
- **MnDOT** SP 8803-AM-21: Project cost decreased from \$1,300,000 to \$1,100,000.
- **MnDOT** SP 8803-CA-21: Project cost increased from \$3,500,000 to \$4,600,000.
- **MnDOT** SP 8803-CA-21A: Project cost decreased from \$2,586,700 to \$1,586,000.
- **MnDOT** SP 8803-PM-21: Project cost decreased from \$3,500,000 to \$3,000,000.
- **MnDOT** SP 8803-SA-21: Project cost increased from \$4,800,000 to \$7,440,000.
- **MnDOT** SP 0502-116: Project has been added to the FY 2019-2023 TIP. \$1,750,000 HSIP (\$1,575,000 FHWA; \$175,000 State).
- **MnDOT** SP 8803-SHL-21: Project has been deleted from the FY 2019-2023 TIP. (\$473,503 total/ FHWA \$426,153/\$47,350 other).

2022:

- **MnDOT** SP 0503-91: Project has been removed from the TIP (Placed in FY 2023) (Total \$30,300,000 FHWA \$24,240,000, State \$6,060,000).
- **MnDOT** SP 7380-259: Project has been removed from the TIP (Placed in FY 2023) (Total \$6,054,000 FHWA \$5,448,600, State \$605,400).
- **MnDOT** SP 8803-SHS-22: Project has been removed from the TIP (HSIP \$2,555,556, FHWA \$2,300,000; State \$255,556).
- **MnDOT** SP 8803-AM-22: Project cost has decreased from \$1,300,000 to \$1,200,000.
- **MnDOT** SP 8803-CA-22: Project cost increased from \$3,548,444 to \$4,169,000.
- **MnDOT** SP 8803-CA-22A: Project cost decreased from \$1,525,800 to \$661,800.
- **MnDOT** SP 8803-PM-22: Project cost decreased from \$3,500,000 to \$2,050,000.
- **MnDOT** SP 8803-SA-22: Project cost increased from \$4,400,000 to \$7,100,000.

2023:

- **Metro Bus:** Technical correction. Project number TRF-0048-23H added for Operating Assistance.
- **Metro Bus:** Technical correction. Project number TRF-0048-23C added for Preventive Maintenance.
- **Metro Bus:** Technical correction. Project number TRF-0048-23A added for paratransit operating.
- **Metro Bus:** Technical correction. Project number TRF-0048-23B added for Northstar Commuter Operating.
- **Metro Bus:** Technical correction. Project number TRF-0048-23D added for Office Equip, IT & Communication Projects.
- **Metro Bus:** Technical Correction. Project number TRS-0048-23T added for facility improvements and additions.
- **Metro Bus:** Technical correction. Project number TRF-0048-23G added for maintenance tools and equipment.
- **Metro Bus:** Technical correction. Project number TRF-0048-23F added for purchase bus shelters.
- **Metro Bus:** Technical correction. Project number TRF-0048-23E added for purchase six <30 ft. CNG DAR replacement buses.
- **Metro Bus:** SP TRF-0048-23E: Funding source change from FTA to STBGP 5K-200K.

- **MnDOT:** SP 0503-91: Added project to FY 2023 with AC Payback. (STIP total \$24,260,000/ NHPP (FHWA) \$18,200,000/ State \$6,060,000/ Total AC \$6,285,000/ Project Total: \$30,545,000). This project increased from \$30,300,000 to \$30,545,000.
- **MnDOT:** SP 7380-259: Project added to FY 2023 (\$6,054,000 STIP total, FHWA \$5,448,600; State: \$605,400.)
- **MnDOT:** SP 8823-344: Project added (originally from FY 2021). \$750,000 total cost, \$675,000 Federal, \$75,000 State.
- **MnDOT:** SP 8823-354: Project added. Districtwide signal retiming project on MN 23, MN 25 and MN 371 (HSIP PROJECT). Total cost \$330,000. Federal \$297,000. State \$33,000.
- **MnDOT:** SP XXXX-XX: Project added. Greater MN Reliability Funding. Total cost \$3,770,000. Federal \$2,900,000. State \$870,000. **Will need a funding source.**
- **MnDOT:** SP 8803-SHS-23. Project added. D3 HSIP Share. Total cost \$1,475,556. Federal \$1,328,000. State \$147,556.
- **MnDOT:** SP 8803-AM-23. Project added. Local partnership program. Total cost/state \$1,200,000.
- **MnDOT:** SP 8803-CA-23. Project added External project development. Total cost/state \$3,548,000.
- **MnDOT:** SP 8803-CA-23A. Project added ****17NEW** **CHAP3**** Project development. Total/BF \$420,950.
- **MnDOT:** SP 8803-PD-23. Project added. Internal project development. Total/state \$2,100,000.
- **MnDOT:** SP 8803-MA-23 Project added. Misc. Agreements. Total/state \$400,000.
- **MnDOT:** SP 8803-RB-23. Project added. Landscaping. Total/state \$30,000.
- **MnDOT:** SP 8803-RW-23. Project added. ROW. Total/state \$2,000,000.
- **MnDOT:** SP 8803-PM-23: Project added. Preventative maintenance. Total/state \$3,500,000.
- **MnDOT:** SP 8803-RX-23: Project added. BARC. Total/State \$2,500,000.
- **MnDOT:** SP 8803-SA-23: Project added. Supplemental agreements/overruns. Total/state: \$4,400,000.
- **MnDOT:** SP 8803-SC-23: Project added. Safety Improvements. Total/state \$300,000.



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TO: Saint Cloud APO Technical Advisory Committee
FROM: Alex McKenzie, Planning Technician
RE: 2015 Regional Travel Demand Model Calibration Results
DATE: April 04, 2019

The APO builds and maintains a regional Travel Demand Model (TDM) which is a mathematically complex computer-based model built within CUBE software from Citilabs. The TDM provides an outlook on how the current system is operating, as well as future conditions based on the socioeconomic forecasts prepared for the MTP. SRF Consulting Group, Inc. was the APO's consultant through this process and assisted in building, maintaining and calibrating the TDM for base year 2015.

2015 Model Calibration and Results

Achieving an acceptable level of calibration to the base year data provides some confidence that the model is generating and assigning trips reasonably. A summary of the results of the calibration are shown in the table 4.1 below:

Table 4.1: Link Deviation by Volume Group*

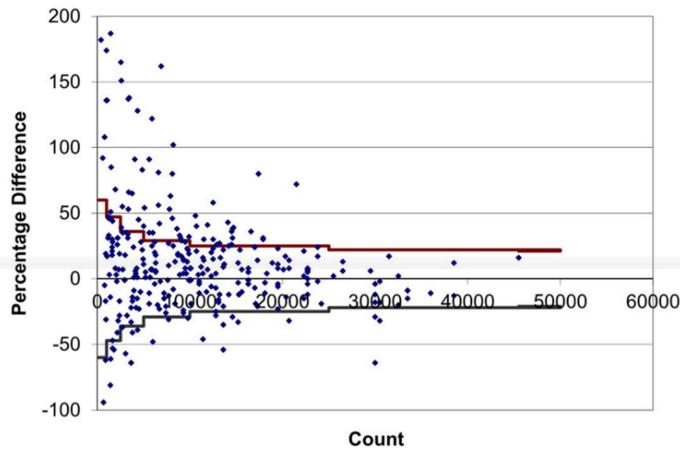
| Traffic Volume Cohort | # of Links in Cohort | Sum of Modeled Volume | Sum of Actual Volume | Total Deviation from Actual Volume | RMSE | Maximum Desirable RMSE |
|-----------------------|----------------------|-----------------------|----------------------|------------------------------------|--------|------------------------|
| 0 – 2,499 | 244 | 415,344 | 304,105 | 40% | 129.6% | >100% |
| 2,500 – 4,999 | 89 | 421,853 | 326,536 | 32% | 77.7% | 45%-100% |
| 5,000 – 9,999 | 125 | 1,090,001 | 924,100 | 18% | 43.7% | 35%-45% |
| 10,000 – 19,999 | 113 | 1,733,375 | 1,620,000 | 7% | 25.4% | 25%-30% |
| 20,000 – 29,999 | 54 | 1,293,862 | 1,257,200 | 3% | 16.7% | 15%-20% |
| 30,000 – 40,000 | 24 | 707,368 | 786,000 | -10% | 19.2% | 15%-20% |
| 40,000 + | 1 | 52,620 | 45,500 | 16% | 16% | 15%-20% |
| Total | 650 | 5,714,423 | 5,263,441 | 9% | 37% | |

Source: SRF Consulting Group, Inc.

Link Deviation from Count

Differences between modeled volumes and ground counts are expected in a model. As shown in Figure 4.2, high volume roadways had the best fit; some roadways, particularly low volume roadways, exceeded the desirable deviation. Note that low volume/high deviation links are most commonly areas where not all of the local roadways are represented in the roadway network, which concentrates traffic onto the roadways that are included in the roadway network.

Figure 4.2: Model Performance for Segments with Count



Source: SRF Consulting Group, Inc.

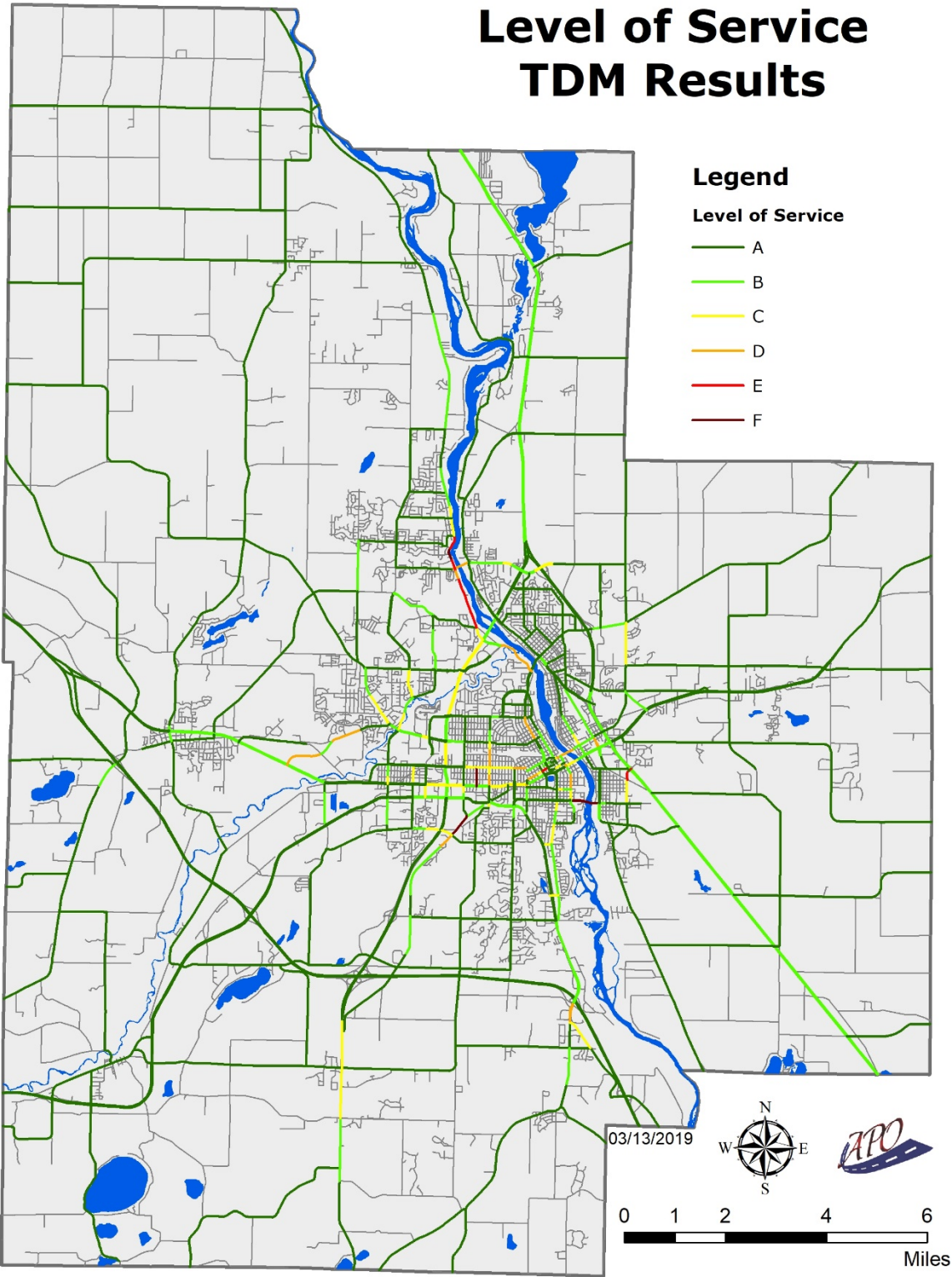
2015 Model Results

Shown in Table 4.3 are the results of the TDM's 2015 network LOS outcomes. There are eight (8) corridors the model is projecting having a LOS E or F. Figure 4.4 displays the Level of Service results of the TDM.

Table 4.3

| LOS | V/C Ratio | Capacity | Model ADT Results | Location | From Street X | To Street Y | Jurisdiction |
|-----|-----------|----------|-------------------|--------------------------------------|-----------------------------------|----------------------------|--------------|
| E | 1.34 | 12,000 | 16,079 | Riverside Avenue South | Heritage Drive | Michaels Court | Sartell |
| E | 1.35 | 12,000 | 16,198 | West Saint Germain Street | 10th Avenue South | 12th Avenue North | Saint Cloud |
| E | 1.39 | 12,000 | 16,688 | Riverside Avenue North | 1st Street North | 4th Street North | Sartell |
| E | 1.44 | 12,000 | 17,256 | Riverside Avenue South | County Road 78 | Sartell Street West | Sartell |
| F | 1.53 | 12,000 | 18,418 | County Road 1/Riverside Avenue North | Sartell Street West | 1st Street North | Sartell |
| F | 1.58 | 12,000 | 19,017 | West Saint Germain Street | County Road 137/22nd Street South | 33rd Avenue North | Saint Cloud |
| F | 1.99 | 10,000 | 19,864 | 29th Avenue North | 3rd Street North | Highway 23/Division Street | Saint Cloud |
| F | 2.09 | 12,000 | 25,022 | University Drive South | 5th Avenue South | Kilian Boulevard Southeast | Saint Cloud |

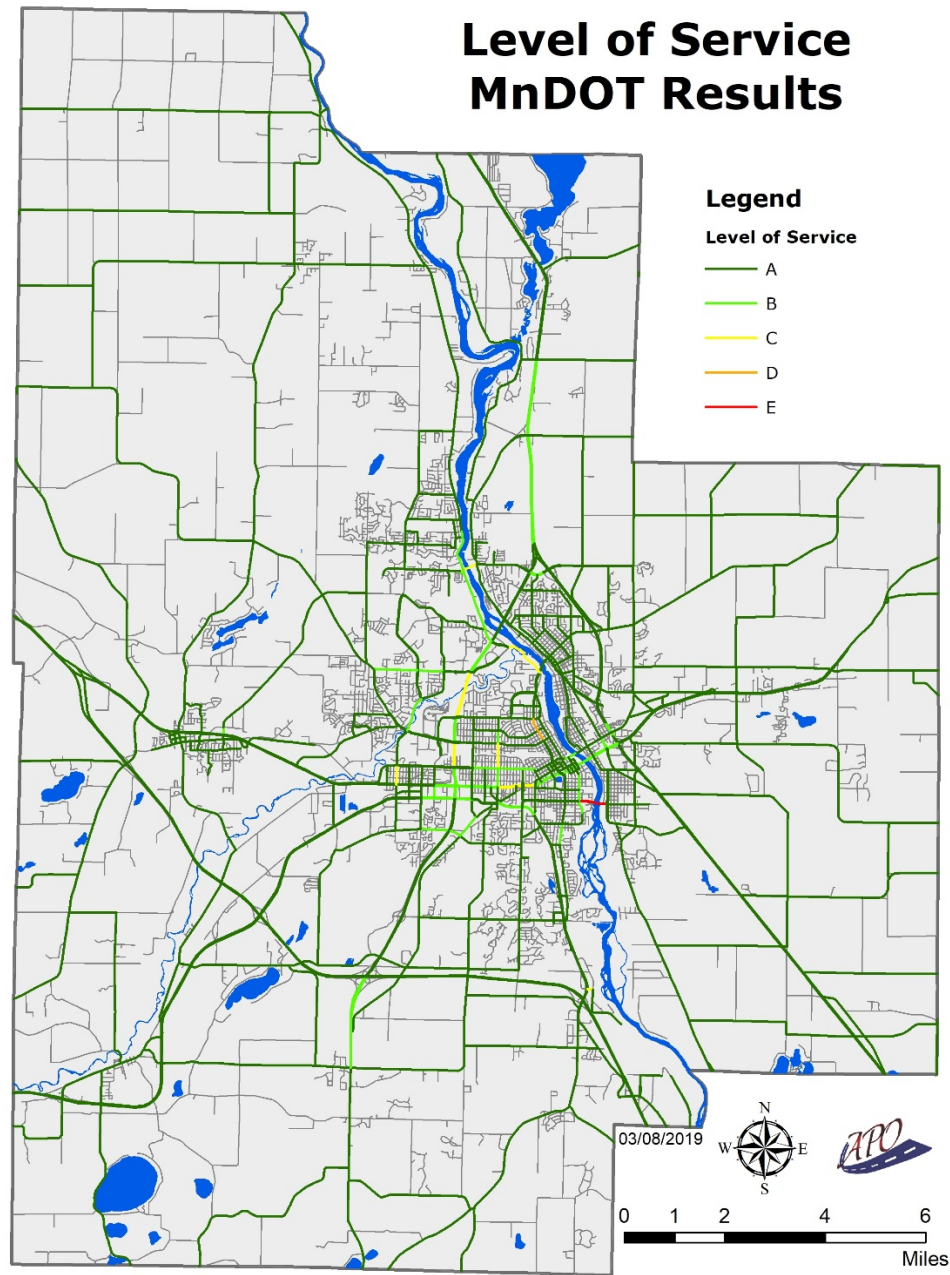
Figure 4.4



Since the TDM is a model and only reflects hypothetical projected ADT, the APO also gathered data form MnDOT’s annual AADT counts for comparison. This data shows only one location is showing capacity problems based on actual count data. Results are shown if Figure 4.5.

| LOS | V/C Ratio | Capacity | MnDOT ADT Results | Location | From Street X | To Street Y | Jurisdiction |
|-----|-----------|----------|-------------------|------------------------|------------------|----------------------------|--------------|
| E | 1.38 | 12,000 | 16,600 | University Drive South | 5th Avenue South | Kilian Boulevard Southeast | Saint Cloud |

Figure 4.5



Requested Action Today:

1. None, discussion only