

# Action Transmittal

Transportation Advisory Board



**Committee Meeting Date:** December 21, 2022

**Date:** December 14, 2022

## Action Transmittal: 2022-48

Review of Metropolitan Airports Commission (MAC) 2023-2029 Capital Improvement Program (CIP)

**To:** Transportation Advisory Board  
**From:** Technical Advisory Committee  
**Prepared By:** Cole Hiniker, Multimodal Planning Manager, 651-602-1748

### Requested Action

MAC requests that the Metropolitan Council review the MAC's 2023-2029 Capital Improvement Program as required by MN Statutes 473.181 and 473.621.

### Recommended Motion

Recommend acceptance of the staff analysis of MAC's 2023-2029 CIP and forward these comments to the Metropolitan Council for its consideration.

### Background and Purpose

The Metropolitan Airports Commission (MAC) annually prepares a Capital Improvement Program (CIP) for projects at Minneapolis-St. Paul International Airport (MSP) and their six General Aviation reliever airports. Under state statutes 473.181 and 473.621 the Council must:

- Determine adequacy of public participation in the CIP process,
- Approve CIP projects meeting certain dollar thresholds, \$5 Million at MSP and \$2 Million at all reliever airports and "significant effects" criteria (referenced in Attachment 2, A-H),
- Review and comment on all projects for consistency with the Transportation Policy Plan (TPP), including planning and environmental concerns.

In order to allow letting of projects early enough for construction to start in the spring, the Council has agreed to utilize the draft CIP document released in September to expedite the review. The MAC will take action on December 19<sup>th</sup> to adopt the final 2023-2029 CIP and any changes from the draft will be incorporated into the report that goes forward to the Met Council in early 2023. Any changes identified after the MAC Commission action will be reported to the Council. Any comments provided by TAC/TAB will also be included for consideration with the final review report submitted by staff for Council action.

### Relationship to Regional Policy

The Metropolitan Council is required by state law to annually review MAC's CIP to ensure consistency of proposed projects with regional plans. Although state law doesn't require TAC/TAB to review the CIP, staff traditionally has sought TAC/TAB comments in the review process.

## Staff Analysis

Analysis confirms that an Assessment of Environmental Effects (AOEE) has been prepared for 2023 projects with potential environmental effects, and MAC has in place an adequate public participation process for development and review of its AOEE and CIP. MAC held a public hearing on the AOEE on November 7<sup>th</sup>, at 10:30 AM at the Planning, Development and Environment Committee meeting at the MSP Conference Room.

The following 2023 projects meet the dollar threshold levels but do not meet the other “significant effects” criteria to trigger project approval:

| Airport | Category                              | Project  | Cost         |
|---------|---------------------------------------|--|--------------|
| MSP     | End of Life/ Replacement Projects     | Terminal 1 – Passenger Boarding Bridge Replacements              | \$10,000,000 |
| MSP     | End of Life/ Replacement Projects     | 30L Deicing Pad Reconstruction                                   | \$10,000,000 |
| MSP     | End of Life/ Replacement Projects     | Bituminous Shoulder Reconstruction                               | \$7,000,000  |
| MSP     | End of Life/ Replacement Projects     | Concourse G Apron Pavement Reconstruction                        | \$7,500,000  |
| MSP     | End of Life/ Replacement Projects     | MSP Liquid Deicer Storage Facility                               | \$11,200,000 |
| MSP     | End of Life/ Replacement Projects     | MAC Technology Upgrades  | \$10,000,000 |
| MSP     | Maintenance/Facility Upgrade Projects | Terminal 1 – Mechanical Room C-1043                              | \$9,800,000  |
| MSP     | Long-term Comp Plan Projects          | Terminal 1 – Baggage Claim/Ticket Lobby Operational Improvements | \$47,675,000 |
| MSP     | Long-term Comp Plan Projects          | Terminal 1 – Concourse G Infill Pod 2-3                          | \$23,500,000 |
| MSP     | Ongoing Maintenance Programs          | Air Handling Unit Replacement                                    | \$6,500,000  |
| MSP     | Ongoing Maintenance Programs          | Electrical Substation Replacement                                | \$7,500,000  |
| MSP     | Ongoing Maintenance Programs          | Emergency Power Upgrades   | \$6,600,000  |
| MSP     | Ongoing Maintenance Programs          | Campus Building Roof Replacements                                | \$8,300,000  |

Federal, state and MAC funding has been identified by the MAC for most projects in the 2023-2029 CIP.

All projects in the 2023 CIP appear consistent with the Transportation Policy Plan (TPP). Many of the MSP projects were evaluated in the 2020 EA for MSP that received a Finding of No Significant Impact (FONSI) in March of 2013 from the Federal Aviation Administration. Initial analysis of the future years (2024-2029) of the CIP shows that many projects will meet the dollar threshold of review but only one project will meet the significant effects criteria, the Airlake LVN Runway 12-30 Improvements, which is a runway extension project that is currently scheduled for 2024 implementation. This project will be formally approved during next year’s CIP review. All potential projects will be re-evaluated on an annual basis.

There is a large dollar project included in the 2023 CIP that do not meet the significant effects criteria. The Concourse G Infill Pod 2-3 project is \$375,000,000 over two years and will expand waiting areas and make other passenger improvements in the G Concourse but does substantially increase the enplanements capacity of Terminal 1. The Council reviewed an Environmental Action Worksheet for this project and had no comments.

## Committee Comments and Action

At its November 10, 2022, meeting, the TAC Planning Committee recommend acceptance of the staff analysis of MAC’s 2023-2029 CIP and forwarding these comments to the Metropolitan Council for its consideration.

At its December 7, 2022, meeting, the Technical Advisory Committee recommend acceptance of the staff analysis of MAC’s 2023-2029 CIP and forwarding these comments to the Metropolitan Council for its consideration.



## Routing

| To   | Action Requested   | Date Completed    |
|--|--------------------|-------------------|
| TAC Planning Committee                           | Review & Recommend | November 10, 2022 |
| Technical Advisory Committee                     | Review & Recommend | December 7, 2022  |
| Transportation Advisory Board                    | Review & Recommend | December 21, 2022 |
| Metropolitan Council<br>Transportation Committee | Review & Recommend | January 9, 2023   |
| Metropolitan Council                             | Review & or Adopt  | January 25, 2023  |

### MAC 2023 – 2029 Capital Improvement Program

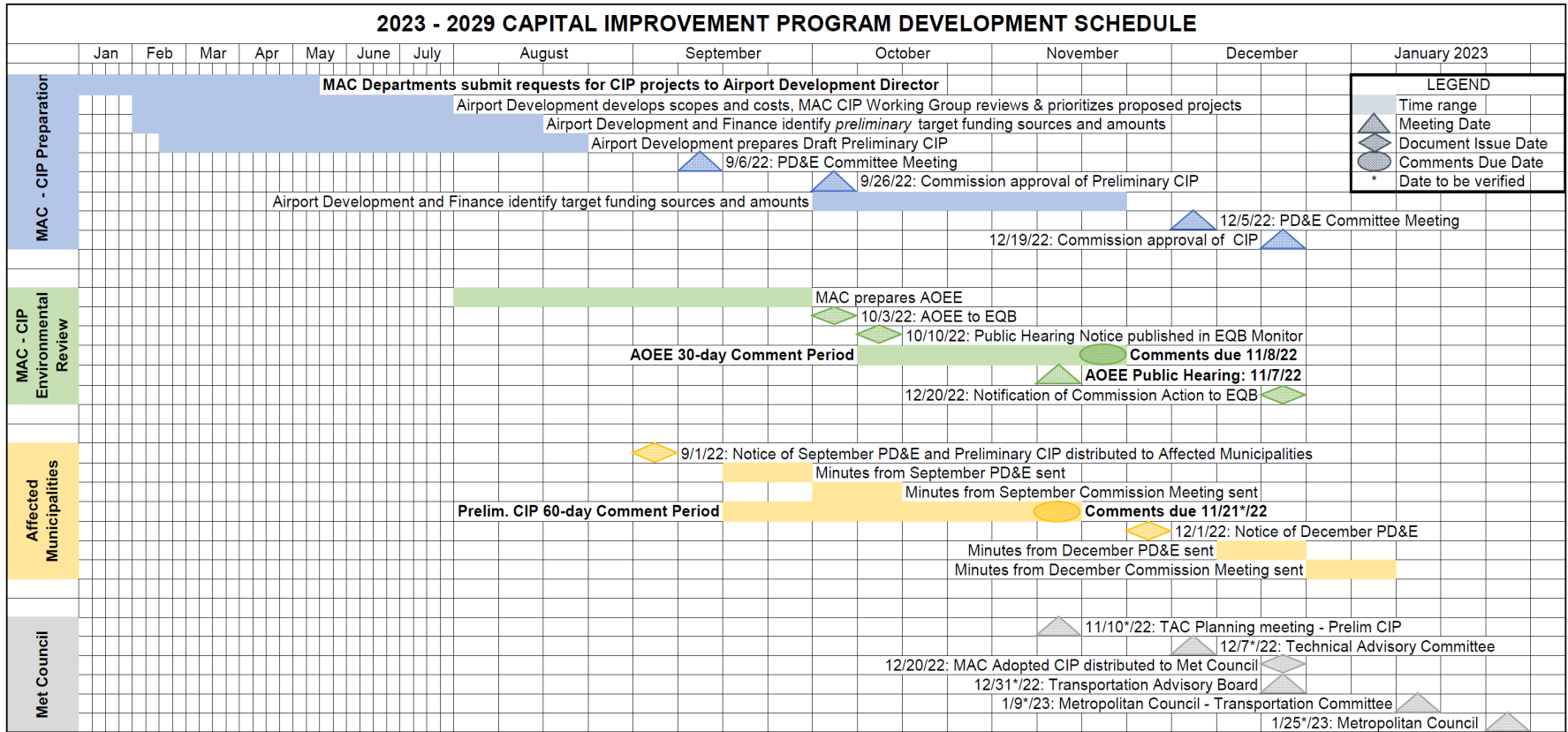
The MAC 2023 – 2029 Capital Improvement Program material included in this memorandum reflects the actions of the Metropolitan Airports Commission’s Planning, Development and Environment (PD&E) Committee on Sep. 6, 2022. Final action by the Commission is expected at their December 19, 2022 meeting. Any changes made on December 5<sup>th</sup> PD&E Committee Meeting that may affect the CIP review would be reported at the December 21<sup>st</sup> Transportation Advisory Board meeting.

The overall review schedule for the CIP is listed below. Materials for the Met Council/TAB review are included in the following summaries:

- Attachment 1 – MAC 2023-2029 CIP Development and Public Review Schedule
- Attachment 2 – Projects Meeting Statutory Review Criteria & Requiring Approval. There are no projects that meet the criteria and requires approval from the Met Council this year.
- Attachment 3 – 2023 Projects Requiring an Assessment of Environmental Effects (AOEE). No 2023 CIP projects meet criteria for environmental review.
- Attachment 4 – Projects Meeting \$5M and \$2M Thresholds 2023-2029. A number of projects potentially meet the threshold dollar levels.



# Attachment 1 - Metropolitan Airports Commission (MAC) Public Participation Process:



Notes:

- All dates are tentative and subject to change.
- Affected Communities are defined in Minnesota Statutes § 473.621, Subd. 6, as amended.

Attachment 2 – 2023 Projects Meeting Statutory Review Criteria and Requiring Approval:

| 2023 CIP Projects, by Airport           | Long-Term Comp Plan Reviews/ Actions | AOEE Actions  | Capital Review Criteria (A)  | Capital Review Criteria (B) | Capital Review Criteria (C)       | Capital Review Criteria (D)               | Capital Review Criteria (E)                         | Capital Review Criteria (F)   | Capital Review Criteria (G)   | Capital Review Criteria (H)   |
|---|--------------------------------------|---|--|-----------------------------|-----------------------------------|---|---|---|---|---|
| <b>Details</b>                          | <b>Review Action</b>                 | <ul style="list-style-type: none"> <li>EA-EAW Prepared</li> <li>EIS Reviewed</li> <li>NPDES Approved</li> <li>Legislative Requirement</li> <li>Regulatory Requirement</li> <li>Legal Requirement</li> </ul> | Project meets Dollar threshold at:<br>MSP = \$5M<br>Relievers = \$2M | Location of a New Airport   | New Runway at an Existing Airport | A Runway Extension at an Existing Airport | Runway Strengthening other than Routine Maintenance | New or Expanded Passenger Handling or Parking Facilities for 25% or more capacity increase. | Land Acquisition associated with the other criteria, or that would cause relocation of residential or business activities | Project information made available by the MAC to affected cities for review |
| MSP International Airport 20223 Program | 2030 LTCP Update Approved in 2010    |   | Several projects, see business item                                  | N/A                         | N/A                               | N/A                                       | N/A   | N/A   | N/A   | N/A   |
| St. Paul Downtown Airport               | 2025 LTCP Approved in 2010           |   | None   |                             |                                   |   |   |   |   |   |
| Flying Cloud Airport                    | 2025 LTCP Approved in 2010           | MAC-City Agreement concluded; FAA review of Agreement & R.O.D. on FEIS completed as part of MAC/Airline Agreement. 2010 Plan being implemented.   | None   |                             |                                   |   |   |   |   |   |
| Crystal Airport                         | 2035 LTCP Approved in 2017           | FAA Issues FONSI in July 2019   | None   |                             |                                   |   |   |   |   |   |
| Anoka County-Blaine Airport             | 2025 LTCP Approved in 2010           |   | None   |                             |                                   |   |   |   |   |   |
| Lake Elmo Airport                       | 2035 LTCP Approved 2016              | FAA issues Finding of No Significant Impact in Aug 2018   | None   |                             |                                   |   |   |   |   |   |
| Airlake Airport                         | 2035 LTCP Approval in 2018           | Negotiations on sewer & water service   | None   |                             |                                   |   |   |   |   |   |

**Attachment 3 – 2023 Projects Requiring an Assessment of Environmental Effects (AOEEs):**

***Environmental Categories Affected by the Project, MSP Airport***

| <b>Project Description</b>              | <b>Are the Effects of the project Addressed in an Approved EAW, EA or EIS?</b>       | <b>Air Quality</b> | <b>Compatible Land Use</b> | <b>Fish Wildlife and Plants</b> | <b>Floodplains and Floodways</b> | <b>Hazardous Materials, Pollution Prevention and Solid Waste</b> | <b>Historical, Architectural, Archaeological and Cultural Resources</b> | <b>Light Emissions and Visual Effects</b> | <b>Parks &amp; Rec. Areas and Trails</b> | <b>Noise</b> | <b>Water Quality (Storm, Waste and Ground Water)</b> | <b>Wetlands</b> | <b>Infra-structure and Public Services</b> | <b>Farmland</b> | <b>Erosion and Sedimentation</b> |
|---|--|--------------------|----------------------------|---------------------------------|----------------------------------|--|---|---|--|--------------|--|-----------------|--|-----------------|----------------------------------|
| No EA or EIS Required for 2023 Projects | MSP 2020 Environmental Assessment findings<br>MSP – Concourse G Infill – Pod 2-3 EAW | None               | None                       | None                            | None                             | None   | None  | None                                      | None                                     | None         | None   | None            | None                                       | None            | None                             |

***Environmental Categories Affected by the Project, Reliever Airports***

| <b>Project Description</b> | <b>Are the Effects of the project Addressed in an Approved EAW, EA or EIS?</b> | <b>Air Quality</b> | <b>Compatible Land Use</b> | <b>Fish Wildlife and Plants</b> | <b>Floodplains and Floodways</b> | <b>Hazardous Materials, Pollution Prevention and Solid Waste</b> | <b>Historical, Architectural, Archaeological and Cultural Resources</b> | <b>Light Emissions and Visual Effects</b> | <b>Parks &amp; Rec. Areas and Trails</b> | <b>Noise</b> | <b>Water Quality (Storm, Waste and Ground Water)</b> | <b>Wetlands</b> | <b>Infra-structure and Public Services</b> | <b>Farmland</b> | <b>Erosion and Sedimentation</b> |
|----------------------------|--|--------------------|----------------------------|---------------------------------|----------------------------------|--|---|---|--|--------------|--|-----------------|--|-----------------|----------------------------------|
| No projects for 2023       |  |                    |                            |                                 |                                  |  |   |   |  |              |  |                 |  |                 |                                  |



**Attachment 4 – MAC Projects Anticipated to Meet the \$5 million and \$2 million Thresholds from 2023 – 2029:**

|       | =Projects that meet the \$5 million threshold at MSP or the \$2 million threshold at reliever airports but DO NOT meet “significant effects” criteria.   |              |              |              |               |               |               |              |
|-------|--|--------------|--------------|--------------|---------------|---------------|---------------|--------------|
|       | =Projects that meet the \$5 million threshold at MSP or the \$2 million threshold at reliever airports and meet the “significant effects” criteria requiring Council approval prior to implementation. |              |              |              |               |               |               |              |
| NOTES | MSP End of Life/Replacement Projects   | 2023         | 2024         | 2025         | 2026          | 2027          | 2028          | 2029         |
|       | <b>10 - Terminal 1</b>   |              |              |              |               |               |               |              |
| 2     | Concourse and Hub Tram Replacement   | \$500,000    |              |              | \$300,000,000 | \$300,000,000 |               |              |
| 3     | Cooling Unit Replacement   |              | \$1,125,000  |              |               |               |               |              |
| 4     | Passenger Boarding Bridge Replacements   | \$10,000,000 | \$4,000,000  | \$10,000,000 | \$10,000,000  | \$10,000,000  | \$10,000,000  | \$10,000,000 |
| 5     | Recarpeting Program  |              |              | \$2,000,000  |               |               |               |              |
| 5     | Terminal 1 Outbound Baggage Handling System Replacement  |              |              |              |               |               | \$250,000,000 |              |
|       | <b>13 - Energy Management Center</b>   |              |              |              |               |               |               |              |
| 5     | Concourse E and F Bridge Heating and Cooling System Replacement  | \$2,100,000  | \$2,200,000  | \$1,800,000  |               |               |               |              |
| 7     | EMC Boiler and Chiller Replacement Study   | \$155,000    |              |              |               |               |               |              |
| 3     | GTC Dual-temperature Pump Improvements   | \$1,800,000  |              |              |               |               |               |              |
| 3     | Variable Air Volume (VAV) Box Replacement  | \$950,000    | \$950,000    | \$950,000    |               |               |               |              |
|       | <b>21 - Field and Runway</b>   |              |              |              |               |               |               |              |
| 2     | 30L Deicing Pad Reconstruction   | \$10,000,000 |              | \$10,000,000 | \$10,000,000  |               |               |              |
| 5     | 30L EMAS Replacement   |              |              |              | \$19,000,000  |               |               |              |
| 2     | Airfield Snow Melter Replacement/Upgrades  | \$1,800,000  | \$1,800,000  | \$1,800,000  | \$1,800,000   | \$2,000,000   | \$2,000,000   |              |
| 2     | Bituminous Shoulder Reconstruction   | \$7,000,000  | \$7,500,000  | \$7,000,000  | \$7,000,000   | \$7,000,000   |               |              |
| 2     | Concourse G Apron Pavement Reconstruction  | \$7,500,000  | \$18,750,000 | \$7,500,000  |               | \$7,000,000   |               |              |
| 2     | Runway 12L-30R and 4-22 Intersection Reconstruction  |              | \$11,000,000 |              |               |               |               |              |
| 2     | Taxiway A Pavement Reconstruction  |              |              |              | \$6,500,000   | \$9,500,000   | \$8,500,000   |              |
| 2     | Taxiway B Pavement Reconstruction  | \$4,000,000  |              | \$4,000,000  |               | \$4,000,000   |               |              |
|       | <b>26 - Terminal Roads/Landside</b>  |              |              |              |               |               |               |              |
| 2     | Terminal 1 Access Roadway Bridge Rehabilitation  | \$4,750,000  |              |              |               |               |               |              |
| 2     | UPS Loop Pavement Reconstruction   |              | \$1,800,000  |              |               |               |               |              |
| 4     | Variable Message Signs Replacement, Phase 3  |              | \$1,600,000  |              |               |               |               |              |
|       | <b>31 – Parking</b>  |              |              |              |               |               |               |              |
| 5     | Parking Ramp Snow Melter Replacement/Upgrades  |              | \$1,350,000  | \$1,350,000  |               |               |               |              |
|       | <b>36 - Terminal 2</b>   |              |              |              |               |               |               |              |
| 4     | Terminal 2 Pre-conditioned Air (PCA)   | \$2,300,000  |              |              |               |               |               |              |
| 5     | Terminal 2 Recarpeting Program   | \$800,000    | \$1,300,000  | \$150,000    |               |               |               |              |
| 4     | Terminal 2 Ticket Counter/Insert Replacement   |              |              | \$730,000    |               |               |               |              |

MAC Environmental Notes:

- 1) A project that has the potential for substantial environmental effects.
- 2) A reconstruction, rehabilitation, repair or replacement that does not physically alter the original size (an EAW or EIS is not required).
- 3) An electrical or mechanical device that monitors, indicates or controls existing conditions (an EAW or EIS is not required).
- 4) An electrical, mechanical or structural device and/or modification of an existing structure that does not significantly increase size or passenger capacity (an EAW or EIS is not required).
- 5) A project that consists of safety or security enhancements, facility maintenance, or facility upgrades (an EAW or EIS is not required).
- 6) A new, replacement or expansion project that does not have substantial effect (an EAW or EIS is not required).
- 7) Consultant fees only for planning, design, or environmental work.
- 8) Residential noise mitigation efforts that are designed to alleviate the impact of aircraft noise (an EAW or EIS is not required).
- 9) Projects associated with the Airport Foundation art program (an EAW or EIS is not required).
- 10) Projects involving the demolition of existing buildings (an EAW or EIS is not required).

| NOTES | MSP End of Life/Replacement Projects Continued                | 2023                | 2024                | 2025                | 2026                 | 2027                 | 2028                 | 2029                |
|-------|---|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|---------------------|
|       | <b>39 – Public Areas/Roads</b>                                |                     |                     |                     |                      |                      |                      |                     |
| 2     | East 62nd Street Reconstruction                               |                     |                     |                     |                      | \$3,900,000          |                      |                     |
| 2     | East 70th Street Reconstruction                               |                     | \$2,400,000         |                     |                      |                      |                      |                     |
| 2     | Post Road Reconstruction Project                              |                     |                     |                     | \$5,000,000          |                      |                      |                     |
|       | <b>56 – Trades/Maintenance Buildings</b>                      |                     |                     |                     |                      |                      |                      |                     |
| 6     | MSP Liquid Deicer Storage Facility                            | \$11,200,000        |                     |                     |                      |                      |                      |                     |
|       | <b>66 – Fire</b>  |                     |                     |                     |                      |                      |                      |                     |
| 5     | Fire Alarm System Transition                                  | \$1,500,000         | \$2,000,000         | \$1,200,000         | \$1,000,000          | \$1,200,000          |                      |                     |
|       | <b>70 – General Office/Administration</b>                     |                     |                     |                     |                      |                      |                      |                     |
| 3     | GO Building Variable Air Volume (VAV) Replacement and Upgrade |                     |                     | \$2,000,000         |                      |                      |                      |                     |
|       | <b>MSP End of Life/Replacement Projects Subtotal</b>          | <b>\$66,355,000</b> | <b>\$57,775,000</b> | <b>\$50,480,000</b> | <b>\$360,300,000</b> | <b>\$344,600,000</b> | <b>\$270,500,000</b> | <b>\$10,000,000</b> |
|       | <b>MSP IT Projects</b>  |                     |                     |                     |                      |                      |                      |                     |
|       | <b>10 - Terminal 1</b>  |                     |                     |                     |                      |                      |                      |                     |
| 4     | Concourse C and G Digital Directory Replacement               |                     | \$200,000           |                     |                      |                      |                      |                     |
| 4     | Customs and Border Protection Camera System Upgrade           | \$850,000           |                     |                     |                      |                      | \$1,000,000          |                     |
| 4     | MAC Technology Upgrades                                       | \$10,000,000        | \$10,000,000        | \$10,000,000        | \$11,000,000         | \$11,000,000         | \$11,000,000         | \$11,000,000        |
| 5     | Telecom Room Equipment Continuity (TREC)                      |                     | \$1,510,000         |                     |                      |                      |                      |                     |
|       | <b>63 - Police</b>  |                     |                     |                     |                      |                      |                      |                     |
| 5     | Card Access Modifications                                     |                     | \$2,500,000         |                     | \$2,800,000          |                      | \$2,500,000          |                     |
|       | <b>MSP IT Projects Subtotal</b>                               | <b>\$10,850,000</b> | <b>\$14,210,000</b> | <b>\$10,000,000</b> | <b>\$13,800,000</b>  | <b>\$11,000,000</b>  | <b>\$14,500,000</b>  | <b>\$11,000,000</b> |

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| NOTES | MSP Long Term Comprehensive Plan Projects                 | 2023                | 2024                 | 2025               | 2026                | 2027                | 2028                | 2029                |
|-------|---|---------------------|----------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
|       | <b>10 - Terminal 1</b>                                    |                     |                      |                    |                     |                     |                     |                     |
| 1     | Baggage Claim/Ticket Lobby Operational Improvements       | \$47,675,000        | \$15,000,000         |                    |                     |                     |                     |                     |
| 6     | Checkpoint Expansion                                      |                     |                      |                    |                     |                     |                     | \$11,000,000        |
| 1     | Concourse G Infill – Pod 2-3                              | \$23,500,000        | \$351,500,000        |                    |                     |                     |                     |                     |
| 7     | Design and Construction Standards Update                  | \$350,000           |                      |                    |                     |                     |                     |                     |
| 1     | D-Pod Outbound Baggage System                             |                     |                      |                    |                     | \$15,000,000        |                     |                     |
| 7     | MSP Airport Layout Plan                                   |                     |                      | \$1,000,000        |                     |                     |                     |                     |
| 7     | MSP Environmental Review                                  |                     |                      | \$2,000,000        |                     |                     |                     |                     |
| 7     | MSP Long Term Plan  |                     |                      |                    |                     |                     |                     | \$3,000,000         |
| 5     | MSP Obstruction Removals                                  |                     |                      |                    | \$1,000,000         |                     | \$1,000,000         |                     |
|       | <b>21 - Field and Runway</b>                              |                     |                      |                    |                     |                     |                     |                     |
| 7     | NAVAIDs Study for North Campus Development                | \$350,000           |                      |                    |                     |                     |                     |                     |
| 1     | Runway 30R Parallel Taxiway                               |                     |                      |                    | \$12,000,000        | \$10,000,000        | \$14,000,000        |                     |
|       | <b>36 - Terminal 2</b>                                    |                     |                      |                    |                     |                     |                     |                     |
| 7     | Long Term Plan Projects (fees)                            |                     |                      | \$1,000,000        |                     |                     |                     |                     |
| 1     | Terminal 2 North Gate Expansion                           |                     | \$195,000,000        |                    |                     |                     |                     |                     |
|       | <b>MSP Long Term Comprehensive Plan Projects Subtotal</b> | <b>\$71,875,000</b> | <b>\$562,500,000</b> | <b>\$3,000,000</b> | <b>\$13,000,000</b> | <b>\$25,000,000</b> | <b>\$15,000,000</b> | <b>\$14,000,000</b> |

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| NOTES | MSP Maintenance/Facility Upgrade Projects                  | 2023        | 2024         | 2025         | 2026        | 2027        | 2028        | 2029        |
|-------|--|-------------|--------------|--------------|-------------|-------------|-------------|-------------|
|       | <b>10 - Terminal 1</b>                                     |             |              |              |             |             |             |             |
| 5     | ADO Office Expansion                                       |             | \$4,000,000  |              |             |             |             |             |
| 9     | Art Display Areas  | \$200,000   | \$250,000    | \$250,000    | \$250,000   | \$250,000   | \$250,000   | \$250,000   |
| 9     | Arts Master Plan   | \$665,000   | \$1,240,000  | \$1,565,000  | \$565,000   | \$600,000   | \$600,000   |             |
| 4     | C/G Connector Lighting Improvements                        |             |              | \$1,000,000  |             |             |             |             |
| 4     | Concourse A Heating System Upgrade                         |             | \$11,000,000 |              |             |             |             |             |
| 4     | Concourse G Moving Walks                                   |             |              | \$6,000,000  |             |             |             |             |
| 5     | Delivery Node Redevelopment                                | \$2,700,000 | \$2,300,000  | \$2,700,000  | \$7,800,000 | \$4,320,000 | \$5,000,000 |             |
| 5     | F/G Connector & Skyclub Repairs and Improvements           |             |              | \$1,100,000  |             |             |             |             |
| 2     | Folded Plate Repairs                                       |             |              | \$43,400,000 |             |             |             |             |
| 5     | Lavatory Buildings Rehabilitation                          |             | \$4,400,000  |              |             |             |             |             |
| 4     | Lighting Infrastructure Technology and Equipment (LITE)    | \$2,300,000 | \$1,500,000  | \$2,550,000  | \$1,500,000 | \$2,550,000 | \$1,500,000 | \$2,200,000 |
| 5     | LRT Station Updates  |             |              | \$1,600,000  |             |             |             |             |
| 5     | Restroom Upgrade Program                                   | \$2,050,000 | \$2,050,000  | \$2,050,000  | \$2,050,000 | \$2,050,000 | \$2,050,000 | \$2,050,000 |
| 4     | Steam System Upgrade Program                               |             | \$1,600,000  | \$1,600,000  | \$1,600,000 | \$1,600,000 | \$1,600,000 |             |
| 4     | Terminal 1 Information Booth Replacements                  |             |              | \$850,000    |             |             |             |             |
| 4     | Terminal 1 Curbside Canopy Repairs and Lighting Upgrades   |             | \$350,000    |              |             |             |             |             |
| 6     | Terminal 1 Employee Breakroom                              |             |              | \$450,000    |             |             |             |             |
| 5     | Terminal 1 Mechanical Room C-1043                          | \$9,800,000 |              |              |             |             |             |             |
| 2     | Terminal 1 Tug Drive Heater Replacement                    | \$1,500,000 | \$2,000,000  |              |             |             |             |             |
| 5     | Terminal 1 Tug Drive Waterproofing                         |             | \$2,900,000  | \$2,900,000  | \$2,900,000 | \$2,900,000 |             |             |
| 4     | Way-Finding Sign Backlighting Replacement                  | \$2,000,000 | \$1,000,000  | \$3,000,000  |             | \$2,000,000 |             | \$2,000,000 |
|       | <b>13 - Energy Management Center</b>                       |             |              |              |             |             |             |             |
| 4     | Chiller Plant Optimization                                 |             | \$3,000,000  |              |             |             |             |             |
| 4     | Energy Savings Program                                     | \$2,000,000 |              | \$2,000,000  |             | \$2,000,000 |             |             |
| 4     | Indoor Air Quality Monitoring System                       | \$1,500,000 | \$1,000,000  |              |             |             |             |             |
| 4     | MAC Automation Infrastructure Program                      | \$2,300,000 | \$2,300,000  | \$2,300,000  | \$2,400,000 | \$2,400,000 | \$2,400,000 | \$2,400,000 |
| 6     | Material Storage Building - Boiler Room Addition           | \$1,830,000 |              |              |             |             |             |             |
| 3     | Steam Trap Monitoring System                               |             |              |              | \$3,000,000 |             |             |             |
| 4     | Terminal 2 Penthouse Chiller Plant Infrastructure Upgrades |             | \$5,500,000  |              |             |             |             |             |
| 4     | Victaulic Piping Replacement                               |             | \$4,000,000  | \$4,000,000  | \$4,000,000 | \$2,200,000 | \$2,300,000 | \$2,350,000 |

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| NOTES | MSP Maintenance/Facility Upgrade Projects, continued    | 2023        | 2024        | 2025         | 2026        | 2027          | 2028        | 2029         |
|-------|---|-------------|-------------|--------------|-------------|---------------|-------------|--------------|
|       | <b>21 – Field and Runway</b>                            |             |             |              |             |               |             |              |
| 7     | Airfield Security Screening Facility (Study)            | \$250,000   |             |              |             |               |             |              |
| 5     | Anti-Climb Fencing and Lighting                         | \$275,000   |             |              |             |               |             |              |
| 4     | Apron Lighting LED Upgrade                              |             | \$5,000,000 | \$1,000,000  | \$3,000,000 | \$1,000,000   | \$1,000,000 |              |
| 6     | Field Maintenance Building Efficiency Program           |             |             | \$53,000,000 |             | \$105,000,000 |             | \$46,000,000 |
| 4     | Localizer Array Upgrade                                 | \$2,000,000 |             |              |             |               |             |              |
| 4     | Runway LED Lighting Upgrade                             | \$1,500,000 | \$1,700,000 | \$2,700,000  |             |               |             |              |
| 4     | Taxiways B & Q Islands                                  | \$700,000   |             |              |             |               |             |              |
| 2     | Terminal 2 Glycol Lift Station/Forcemain                |             | \$1,100,000 |              |             |               |             |              |
| 4     | Tunnel Lighting LED Upgrade                             |             | \$1,100,000 | \$1,000,000  | \$900,000   | \$400,000     | \$1,200,000 |              |
|       | <b>26 – Terminal Roads/Landside</b>                     |             |             |              |             |               |             |              |
| 2     | Tunnel Approaches Reconstruction                        | \$2,600,000 |             |              |             |               |             |              |
|       | <b>31 – Parking</b>                                     |             |             |              |             |               |             |              |
| 3     | Parking Guidance System                                 |             |             | \$6,500,000  |             |               |             |              |
| 2     | Parking Ramp Railing Refinishing                        |             | \$1,000,000 |              | \$1,000,000 |               | \$1,000,000 |              |
| 2     | Red/Blue Parking Levels 2 & 3                           |             |             | \$9,200,000  |             |               |             |              |
| 4     | Rental Car EV Charging Infrastructure                   | \$1,500,000 |             |              |             |               |             |              |
|       | <b>36 - Terminal 2</b>                                  |             |             |              |             |               |             |              |
| 5     | Ramp Information Display System (RIDS)                  |             |             | \$3,600,000  |             |               |             |              |
| 5     | Terminal 2 Baggage Handling System                      |             |             | \$410,000    |             |               |             |              |
| 2     | Terminal 2 Gate Area Passenger Amenities                |             |             | \$1,000,000  |             |               |             |              |
| 2     | Terminal 2 Gate Desk/Podium Replacement                 |             |             |              |             | \$450,000     |             |              |
| 6     | Terminal 2 Ground Transportation Waiting Area Expansion |             |             | \$400,000    |             |               |             |              |
| 7     | Terminal 2 Lobby Passenger Flow Program                 |             | \$1,000,000 |              |             |               |             |              |
| 2     | Terminal 2 MUFIDS/EVIDS Millwork Upgrades               |             |             | \$350,000    |             |               |             |              |
| 5     | Terminal 2 Skyway to LRT Flooring Installation          |             |             | \$800,000    |             |               |             |              |
| 5     | Terminal Door Locks and Emergency Egress Upgrades       |             | \$400,000   |              |             |               |             |              |

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| NOTES | MSP Maintenance/Facility Upgrade Projects, continued        | 2023                | 2024                 | 2025                 | 2026                | 2027                 | 2028                | 2029                |
|-------|---|---------------------|----------------------|----------------------|---------------------|----------------------|---------------------|---------------------|
|       | <b>39 - Public Areas/Roads</b>                              |                     |                      |                      |                     |                      |                     |                     |
| 2     | 34 <sup>th</sup> Avenue Bus Area Reconstruction             |                     | \$800,000            |                      |                     |                      |                     |                     |
| 2     | 34 <sup>th</sup> Avenue Reconstruction                      |                     |                      |                      | \$7,800,000         | \$7,800,000          |                     |                     |
| 2     | 34 <sup>th</sup> Avenue Sanitary Sewer Replacement          |                     |                      |                      | \$2,200,000         |                      |                     |                     |
| 3     | 34 <sup>th</sup> Avenue Traffic Control Improvements        |                     | \$200,000            |                      |                     |                      |                     |                     |
| 2     | Diverging Diamond Intersection Rehabilitation               |                     |                      |                      |                     | \$380,000            |                     |                     |
| 4     | Highway 494 Terminal and Airline Signs                      | \$300,000           |                      |                      |                     |                      |                     |                     |
| 2     | Taxi Cab Holding Lot Rehabilitation for Cell Phone Lot      |                     |                      |                      | \$650,000           |                      |                     |                     |
| 2     | Terminal 1 Ground Transportation Modifications              | \$1,140,000         |                      |                      |                     |                      |                     |                     |
| 2     | Terminal 1 Inbound Roadway Median Improvements              |                     |                      |                      | \$3,300,000         |                      |                     |                     |
| 4     | Tunnel Fan Replacement                                      |                     | \$4,700,000          | \$6,800,000          |                     |                      |                     |                     |
|       | <b>46 - Hangars and Other Buildings</b>                     |                     |                      |                      |                     |                      |                     |                     |
| 6     | MAC Storage Facility  |                     | \$30,000,000         |                      |                     |                      |                     |                     |
| 6     | Safety and Security Center                                  |                     | \$150,000,000        |                      |                     |                      |                     |                     |
|       | <b>56 - Trades/Maintenance Buildings</b>                    |                     |                      |                      |                     |                      |                     |                     |
| 6     | South Field Maintenance Building Wash Bay                   |                     | \$3,500,000          |                      |                     |                      |                     |                     |
|       | <b>63 - Police</b>  |                     |                      |                      |                     |                      |                     |                     |
| 5     | Perimeter Fence Intrusion Detection System                  |                     |                      |                      | \$1,000,000         |                      |                     |                     |
| 5     | Perimeter Gate Security Improvements                        |                     | \$6,500,000          | \$6,500,000          |                     |                      |                     |                     |
| 5     | Police Department Improvements at Terminals 1 & 2           |                     |                      |                      |                     |                      | \$1,500,000         |                     |
| 5     | Public Safety Modifications                                 | \$1,000,000         |                      | \$1,000,000          |                     | \$850,000            |                     | \$850,000           |
| 2     | Squad Parking Modifications                                 |                     |                      |                      | \$140,000           |                      |                     |                     |
|       | <b>66 - Fire</b>  |                     |                      |                      |                     |                      |                     |                     |
| 5     | Campus Fire Protection                                      |                     | \$2,400,000          |                      | \$3,400,000         |                      | \$1,900,000         | \$3,500,000         |
|       | <b>76 - Environment</b>                                     |                     |                      |                      |                     |                      |                     |                     |
| 4     | Glycol Sewer & Storm Sewer Inspection/Rehabilitation        |                     | \$1,700,000          | \$600,000            |                     |                      |                     |                     |
| 4     | Ground Service Equipment (GSE) Electrical Charging Stations | \$3,000,000         |                      |                      |                     |                      |                     |                     |
| 4     | Infield Fueling Facility Secondary Containment              |                     |                      | \$400,000            |                     |                      |                     |                     |
| 4     | Lift Station at Ponds 1 and 2                               |                     |                      | \$2,300,000          |                     |                      |                     |                     |
| 5     | MSP Pond 3 / 494 Pond Sediment Removal and Repairs          |                     |                      | \$5,500,000          |                     |                      |                     |                     |
| 4     | Runway 12R-30L Glycol Forcemain Environmental Improvements  | \$2,000,000         |                      |                      |                     |                      |                     |                     |
| 2     | Terminal 2 Remote Ramp Lot/Drainage Improvements            |                     | \$2,000,000          |                      |                     |                      |                     |                     |
|       | <b>MSP Maintenance/Facility Upgrade Projects Subtotal</b>   | <b>\$45,110,000</b> | <b>\$263,490,000</b> | <b>\$186,675,000</b> | <b>\$45,155,000</b> | <b>\$138,750,000</b> | <b>\$22,300,000</b> | <b>\$61,600,000</b> |

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| NOTES | MSP Noise Mitigation Consent Decree Amendment | 2023        | 2024         | 2025         | 2026         | 2027         | 2028         | 2029         |
|-------|---|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 8     | MSP Noise Mitigation Consent Decree Amendment | \$500,000   | \$1,000,000  | \$500,000    |              |              |              |              |
|       | <b>MSP Ongoing Maintenance Programs</b>       |             |              |              |              |              |              |              |
|       | <b>10 - Terminal 1</b>                        |             |              |              |              |              |              |              |
| 4     | Air Handling Unit Replacement                 | \$6,500,000 | \$6,500,000  | \$13,000,000 | \$13,000,000 | \$13,000,000 | \$13,000,000 | \$13,000,000 |
| 4     | Baggage System Upgrades                       | \$500,000   | \$500,000    | \$500,000    | \$500,000    | \$500,000    | \$500,000    | \$500,000    |
| 4     | Concourse G Rehabilitation                    |             | \$10,000,000 |              |              |              |              |              |
| 4     | Conveyance System Upgrades                    |             |              | \$3,000,000  |              |              |              |              |
| 4     | Electrical Infrastructure Program (EIP)       | \$2,500,000 | \$2,500,000  |              | \$2,500,000  | \$2,500,000  | \$2,500,000  | \$2,500,000  |
| 4     | Electrical Substation Replacement             | \$7,500,000 | \$3,300,000  | \$1,500,000  | \$10,000,000 | \$10,000,000 |              |              |
| 4     | Emergency Power Upgrades                      | \$6,600,000 | \$2,500,000  |              | \$2,500,000  | \$2,500,000  | \$2,500,000  | \$2,500,000  |
| 4     | Plumbing Infrastructure Upgrade Program       | \$600,000   | \$700,000    | \$700,000    | \$700,000    | \$700,000    | \$700,000    | \$700,000    |
| 5     | Terminal Building Remediation Program         | \$3,000,000 | \$3,000,000  | \$3,000,000  | \$3,000,000  | \$3,000,000  | \$3,000,000  | \$3,000,000  |
| 4     | Terminal Miscellaneous Modifications          | \$2,600,000 | \$2,600,000  | \$2,600,000  | \$2,600,000  | \$2,600,000  | \$3,100,000  | \$3,100,000  |
|       | <b>13 - Energy Management Center</b>          |             |              |              |              |              |              |              |
| 4     | EMC Life Safety Infrastructure Program        |             | \$1,900,000  | \$1,900,000  | \$1,900,000  | \$1,900,000  | \$1,900,000  | \$1,900,000  |
| 4     | EMC Plant Upgrades (T1 & T2)                  | \$2,000,000 | \$2,100,000  | \$2,150,000  | \$2,200,000  | \$2,300,000  | \$2,400,000  | \$2,500,000  |
|       | <b>21 - Field and Runway</b>                  |             |              |              |              |              |              |              |
| 2     | Airside Electrical Construction               | \$2,000,000 | \$2,500,000  | \$4,500,000  |              |              |              |              |
| 2     | Airside Roadway Pavement Restoration          | \$1,200,000 | \$1,200,000  | \$1,200,000  | \$1,200,000  | \$1,200,000  | \$1,200,000  | \$1,200,000  |
| 2     | Miscellaneous Airfield Construction           | \$3,500,000 | \$1,500,000  |              |              |              |              |              |
| 2     | Pavement Joint Sealing/Repair                 | \$800,000   | \$800,000    | \$800,000    | \$800,000    | \$1,000,000  | \$1,000,000  | \$1,000,000  |
|       | <b>26 - Terminal Roads/Landside</b>           |             |              |              |              |              |              |              |
| 2     | Tunnel/Bridge Inspections                     | \$100,000   | \$120,000    | \$120,000    | \$120,000    | \$120,000    | \$150,000    | \$150,000    |
| 5     | Tunnel-Bridge Miscellaneous Modifications     |             |              | \$1,000,000  |              | \$1,000,000  |              | \$1,000,000  |
|       | <b>31 - Parking</b>                           |             |              |              |              |              |              |              |
| 2     | Parking Structure Rehabilitation              | \$3,000,000 | \$3,000,000  | \$3,000,000  | \$3,000,000  | \$3,000,000  | \$3,000,000  | \$3,000,000  |

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| NOTES | MSP Ongoing Maintenance Programs, continued                 | 2023                | 2024                | 2025                | 2026                | 2027                | 2028                | 2029                |
|-------|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|       | <b>39 - Public Areas/Roads</b>                              |                     |                     |                     |                     |                     |                     |                     |
| 2     | Concrete Joint Repair                                       | \$900,000           | \$1,000,000         | \$300,000           | \$400,000           | \$1,200,000         | \$2,900,000         | \$750,000           |
| 2     | Landside Pavement Rehabilitation                            | \$500,000           | \$500,000           | \$500,000           |                     | \$500,000           | \$600,000           | \$600,000           |
| 2     | Landside Utility Rehabilitation                             | \$750,000           | \$750,000           | \$750,000           | \$750,000           | \$750,000           | \$750,000           | \$750,000           |
| 2     | Roadway Fixture Refurbishment                               | \$150,000           | \$150,000           | \$150,000           | \$150,000           | \$150,000           | \$150,000           | \$150,000           |
|       | <b>46 - Hangars and Other Buildings</b>                     |                     |                     |                     |                     |                     |                     |                     |
| 5     | Campus Building Rehabilitation Program                      | \$1,500,000         | \$1,500,000         | \$1,500,000         |                     | \$1,500,000         |                     | \$1,500,000         |
| 2     | Campus Parking Lot Reconstructions                          | \$650,000           | \$650,000           |                     |                     |                     | \$700,000           |                     |
| 10    | End of Life Campus Building Demolition                      |                     |                     | \$400,000           | \$3,700,000         |                     |                     |                     |
| 2     | MSP Campus Building Roof Replacements                       | \$8,300,000         | \$6,100,000         | \$12,500,000        | \$10,200,000        | \$1,000,000         | \$1,000,000         | \$1,000,000         |
|       | <b>56 - Trades/Maintenance Buildings</b>                    |                     |                     |                     |                     |                     |                     |                     |
| 4     | Sump Pump Controls  |                     | \$4,000,000         | \$4,000,000         | \$3,500,000         |                     |                     |                     |
|       | <b>70 - General Office/Administration</b>                   |                     |                     |                     |                     |                     |                     |                     |
| 5     | GO Building Improvements                                    |                     | \$500,000           |                     | \$500,000           |                     | \$500,000           |                     |
|       | <b>MSP Ongoing Maintenance Programs Subtotal</b>            | <b>\$55,150,000</b> | <b>\$59,870,000</b> | <b>\$59,070,000</b> | <b>\$63,220,000</b> | <b>\$50,420,000</b> | <b>\$41,550,000</b> | <b>\$40,800,000</b> |
|       | <b>MSP Tenant Projects</b>                                  |                     |                     |                     |                     |                     |                     |                     |
|       | <b>10 - Terminal 1</b>                                      |                     |                     |                     |                     |                     |                     |                     |
| 2     | Concessions Upgrades/Revenue Development                    | \$100,000           | \$200,000           | \$200,000           | \$200,000           | \$200,000           | \$200,000           | \$200,000           |
| 5     | Concourse and Gatehold Modernization                        | \$23,800,000        | \$85,600,000        | \$73,100,000        |                     |                     |                     |                     |
| 2     | Delta Re-booking Station                                    |                     | \$350,000           |                     |                     |                     |                     |                     |
| 6     | Elevator and Concourse Improvements - Relocated United Club | \$200,000           |                     |                     |                     |                     | \$1,000,000         |                     |
| 2     | Terminal 1 FIS Gate Common Use Additions                    | \$1,500,000         |                     | \$5,000,000         |                     |                     |                     |                     |
| 4     | Terminal 1 Pre-Conditioned Air (PCA)                        |                     | \$2,500,000         |                     |                     |                     |                     |                     |
|       | <b>36 - Terminal 2</b>                                      |                     |                     |                     |                     |                     |                     |                     |
| 6     | Terminal 2 Concessions Development                          | \$2,800,000         |                     |                     |                     |                     |                     |                     |
|       | <b>39 - Public Areas / Roads</b>                            |                     |                     |                     |                     |                     |                     |                     |
| 2     | Tenant Parking Lot Reconstruction                           |                     |                     | \$2,900,000         |                     |                     |                     |                     |
|       | <b>46 - Hangars and Other Buildings</b>                     |                     |                     |                     |                     |                     |                     |                     |
| 7, 6  | Ground Service Equipment (GSE) Maintenance Facility         | \$200,000           |                     |                     |                     |                     | \$2,000,000         |                     |
|       | <b>MSP Tenant Projects Subtotal</b>                         | <b>\$28,600,000</b> | <b>\$88,650,000</b> | <b>\$81,200,000</b> | <b>\$200,000</b>    | <b>\$200,000</b>    | <b>\$3,200,000</b>  | <b>\$200,000</b>    |

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| NOTES | Reliever Airports Long Term Comprehensive Plan (LTCP) Projects | 2023               | 2024               | 2025               | 2026             | 2027       | 2028             | 2029               |
|-------|--|--------------------|--------------------|--------------------|------------------|------------|------------------|--------------------|
|       | <b>81 - St. Paul</b>   |                    |                    |                    |                  |            |                  |                    |
| 7     | STP Airport Layout Plan  | \$500,000          |                    |                    |                  |            |                  |                    |
| 7     | STP Environmental Review                                       |                    |                    | \$800,000          |                  |            |                  |                    |
| 7     | STP Long Term Comprehensive Plan                               | \$800,000          |                    |                    |                  |            |                  |                    |
|       | <b>82 - Lake Elmo</b>  |                    |                    |                    |                  |            |                  |                    |
| 7     | 21D Airport Layout Plan  |                    | \$100,000          |                    |                  |            |                  |                    |
| 7     | 21D Long Term Comp Plan  |                    |                    |                    |                  |            |                  | \$500,000          |
|       | <b>83 - Airlake</b>  |                    |                    |                    |                  |            |                  |                    |
| 7     | LVN Airport Layout Plan  |                    |                    | \$100,000          |                  |            |                  |                    |
| 7     | LVN Long Term Comp Plan  |                    |                    |                    |                  |            |                  | \$500,000          |
| 1     | LVN Runway 12-30 Improvements                                  |                    | \$4,400,000        |                    |                  |            |                  |                    |
|       | <b>84 - Flying Cloud</b>                                       |                    |                    |                    |                  |            |                  |                    |
| 7     | FCM Environmental Review                                       |                    | \$800,000          |                    |                  |            |                  |                    |
| 10    | FCM Purchase and Demolition of Hangars                         | \$1,300,000        |                    |                    |                  |            |                  |                    |
| 6     | FCM South Building Area Utilities                              |                    |                    |                    | \$800,000        |            |                  |                    |
|       | <b>85 - Crystal</b>  |                    |                    |                    |                  |            |                  |                    |
| 7     | MIC Long Term Comp Plan  |                    |                    |                    |                  |            | \$500,000        |                    |
|       | <b>86 - Anoka County - Blaine</b>                              |                    |                    |                    |                  |            |                  |                    |
| 7     | ANE Airport Layout Plan  |                    | \$500,000          |                    |                  |            |                  |                    |
| 6     | ANE Building Area Development - Xylite St. Relocation          |                    |                    | \$1,000,000        |                  |            |                  |                    |
| 7     | ANE Long Term Comprehensive Plan Update                        |                    | \$800,000          |                    |                  |            |                  |                    |
|       | <b>Reliever Airports LTCP Projects Subtotal</b>                | <b>\$2,600,000</b> | <b>\$6,600,000</b> | <b>\$1,900,000</b> | <b>\$800,000</b> | <b>\$0</b> | <b>\$500,000</b> | <b>\$1,000,000</b> |

MAC Environmental Notes:

- 1) A project that has the potential for substantial environmental effects.
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- 7) Consultant fees only for planning, design, or environmental work.
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| NOTES | Reliever Airports Maintenance/Facility Upgrade Projects         | 2023      | 2024        | 2025        | 2026        | 2027         | 2028      | 2029      |
|-------|---|-----------|-------------|-------------|-------------|--------------|-----------|-----------|
|       | <b>80 - Reliever Airports</b>                                   |           |             |             |             |              |           |           |
| 4     | Relievers Building Miscellaneous Modifications                  | \$400,000 | \$400,000   | \$400,000   | \$400,000   | \$400,000    | \$400,000 | \$400,000 |
| 5     | Relievers Obstruction Removals                                  | \$300,000 |             | \$300,000   |             | \$300,000    |           | \$300,000 |
| 2     | Relievers Pavement Rehabilitation Miscellaneous Modifications   | \$300,000 | \$300,000   | \$300,000   | \$300,000   | \$300,000    | \$300,000 | \$300,000 |
| 6     | Relievers Used Oil Sheds a& Tanks                               |           |             | \$550,000   |             |              |           |           |
|       | <b>81 - St. Paul</b>  |           |             |             |             |              |           |           |
| 6     | STP Airport Perimeter Roads                                     |           |             | \$500,000   |             |              |           |           |
| 2     | STP Airport Road and Eaton Street Retaining Wall                |           |             |             |             |              | \$700,000 |           |
| 6     | STP Cold Equipment Storage Building                             |           |             |             | \$750,000   |              |           |           |
| 6     | STP Customs and Border Protection General Aviation Facility     |           | \$4,500,000 |             |             |              |           |           |
| 2     | STP Floodwall Inspection and Repairs                            | \$200,000 |             |             |             |              |           |           |
| 3     | STP Intelligent Monitoring and Control System (IMACS) Expansion |           | \$2,250,000 |             |             |              |           |           |
| 4     | STP LED Edge Lighting Upgrades                                  | \$500,000 | \$1,500,000 |             |             |              |           |           |
| 5     | STP MAC Building Improvements                                   | \$200,000 |             | \$200,000   |             | \$200,000    |           | \$200,000 |
| 2     | STP Pavement Rehabilitation-Taxilanes/Tower Road                |           |             |             | \$750,000   |              |           |           |
| 2     | STP Runway 13-31 Pavement Reconstruction                        |           |             | \$5,000,000 |             |              |           |           |
| 5     | STP Runway 14-32 EMAS Replacement                               |           |             |             |             | \$10,000,000 |           |           |
| 2     | STP Runway 14-32 Reconstruction                                 |           |             | \$5,000,000 | \$5,000,000 |              |           |           |
| 2     | STP Storm Sewer Improvements                                    |           | \$1,500,000 |             |             |              |           |           |
| 2     | STP Taxiway B Rehabilitation                                    |           |             | \$800,000   |             |              |           |           |
| 2     | STP Taxiway Lima Rehabilitation                                 |           |             |             |             | \$200,000    |           |           |
| 5     | STP Vehicle Gate Replacement                                    | \$500,000 |             |             |             |              |           |           |
|       | <b>82 - Lake Elmo</b>   |           |             |             |             |              |           |           |
| 3     | 21D AWOS Replacement  |           |             | \$100,000   |             |              |           |           |
| 3     | 21D Intelligent Monitoring and Control System (IMACS)           |           |             | \$1,150,000 |             |              |           |           |
| 6     | 21D Materials Storage Building                                  |           | \$500,000   |             |             |              |           |           |
| 2     | 21D North Building Area Pavement Rehabilitation                 |           | \$900,000   |             |             |              |           |           |
| 2     | 21D North Service Roads Rehabilitation                          |           |             | \$500,000   |             |              |           |           |
| 2     | 21D Northside Taxiway Reconstruction                            |           |             | \$600,000   |             |              |           | \$600,000 |
| 2     | 21D Runway 04-22 Pavement Rehabilitation                        |           | \$4,000,000 |             |             |              |           |           |
| NOTES | Reliever Airports Maintenance/Facility Upgrade Projects         | 2023      | 2024        | 2025        | 2026        | 2027         | 2028      | 2029      |
|       | <b>83 - Airlake</b>   |           |             |             |             |              |           |           |
| 3     | LVN AWOS Replacement  |           |             | \$100,000   |             |              |           |           |
| 2     | LVN Existing Runway 12-30 Reconstruction                        |           | \$3,500,000 |             |             |              |           |           |
| 3     | LVN Intelligent Monitoring and Control System (IMACS)           |           |             |             | \$1,150,000 |              |           |           |
| 4     | LVN LED Edge Lighting   | \$200,000 |             |             |             |              |           |           |
| 5     | LVN Maintenance Building Renovation                             |           |             | \$750,000   |             |              |           |           |
| 2     | LVN North Service Road Pavement Rehabilitation                  |           |             |             |             | \$500,000    |           |           |
| 2     | LVN North Taxilanes Pavement Rehabilitation                     |           |             |             |             | \$1,250,000  |           |           |
| 6     | LVN South Building Area Utilities and Taxilanes                 |           | \$1,300,000 |             |             |              |           |           |
| 2     | LVN Taxiway Bravo Pavement Rehabilitation                       |           | \$600,000   |             |             |              |           |           |
|       | <b>84 - Flying Cloud</b>  |           |             |             |             |              |           |           |
| 2     | FCM Airport Access Roads and Tango Lane                         |           |             |             | \$500,000   |              |           |           |
| 2     | FCM Airport Access Roads Pavement Rehabilitation                |           |             |             |             | \$500,000    | \$500,000 | \$500,000 |
| 6     | FCM Electrical Vault Modifications                              |           |             |             | \$500,000   |              |           |           |
| 2     | FCM Executive Aviation/MAC Maintenance Apron                    |           |             |             | \$600,000   |              |           |           |



| NOTES | Reliever Airports Maintenance/Facility Upgrade Projects                 | 2023                 | 2024                   | 2025                 | 2026                 | 2027                 | 2028                 | 2029                 |
|-------|---|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 5     | FCM Gate Replacements   |                      |                        | \$500,000            |                      |                      |                      |                      |
| 3     | FCM Intelligent Monitoring and Control System (IMACS)                   |                      | \$2,250,000            |                      |                      |                      |                      |                      |
| 5     | FCM MAC Building Improvements   |                      |                        |                      | \$600,000            |                      |                      |                      |
| 6     | FCM Parcel 7 Sanitary Sewer and Water                                   | \$300,000            |                        |                      |                      |                      |                      |                      |
| 2     | FCM Runway 10R-28L Pavement Rehabilitation                              |                      | \$2,700,000            |                      |                      |                      |                      |                      |
| 2     | FCM Runway 18-36 Pavement Rehabilitation                                |                      |                        |                      |                      |                      |                      | \$700,000            |
| 6     | FCM Spring Lane Extension and Taxilane Connector                        | \$600,000            |                        |                      |                      |                      |                      |                      |
| 5     | FCM Tower Equipment for Airfield Lighting and Utilities                 |                      |                        | \$1,000,000          |                      |                      |                      |                      |
| 2     | FCM Underground Fuel Storage Tank Replacement                           |                      | \$500,000              |                      |                      |                      |                      |                      |
|       | <b>85 - Crystal</b>   |                      |                        |                      |                      |                      |                      |                      |
| 4     | MIC Existing Hangar Revitalization                                      |                      |                        |                      | \$800,000            |                      |                      |                      |
| 3     | MIC Intelligent Monitoring and Control System (IMACS)                   |                      |                        |                      | \$1,150,000          |                      |                      |                      |
| 3     | MIC LED Edge Lighting Upgrade   | \$400,000            |                        |                      |                      |                      |                      |                      |
| 2     | MIC Runway 6L-24R Pavement Rehabilitation                               |                      |                        |                      |                      | \$2,500,000          |                      |                      |
| 2     | MIC Service Roads   | \$1,200,000          |                        |                      |                      |                      |                      |                      |
| 2     | MIC Taxilanes Pavement Rehabilitation                                   | \$750,000            |                        | \$600,000            |                      | \$600,000            |                      |                      |
| 2     | MIC Taxiway Alpha Pavement Reconstruction                               |                      |                        |                      |                      |                      |                      | \$1,200,000          |
| 2     | MIC Tower Parking Lot Reconstruction                                    |                      | \$675,000              |                      |                      |                      |                      |                      |
| 2     | MIC Underground Fuel Storage Tank Replacement                           |                      | \$500,000              |                      |                      |                      |                      |                      |
|       | <b>86 - Anoka County - Blaine</b>                                       |                      |                        |                      |                      |                      |                      |                      |
| 3     | ANE AWOS Replacement  | \$100,000            |                        |                      |                      |                      |                      |                      |
| 4     | ANE Electrical Vault Improvements                                       |                      |                        | \$750,000            |                      |                      |                      |                      |
| 6     | ANE Equipment Storage and Maintenance Building                          | \$700,000            |                        |                      |                      |                      |                      |                      |
| 5     | ANE Gate Controller Upgrades  |                      |                        |                      | \$400,000            |                      |                      |                      |
| 3     | ANE Intelligent Monitoring and Control System (IMACS)                   |                      |                        | \$1,150,000          |                      |                      |                      |                      |
| 2     | ANE Pavement Rehabilitation - Taxiway A and Edge Lights                 | \$1,800,000          |                        |                      |                      |                      |                      |                      |
| 2     | ANE Runway 18-36 Pavement Rehabilitation                                |                      |                        |                      |                      | \$3,000,000          |                      |                      |
| 2     | ANE Runway 9-27 Pavement Rehabilitation                                 |                      |                        |                      |                      |                      | \$3,750,000          |                      |
| 2     | ANE Taxiway B Pavement Rehabilitation                                   |                      |                        |                      |                      |                      |                      | \$1,400,000          |
| 2     | ANE Underground Fuel Storage Tank Replacement                           |                      | \$500,000              |                      |                      |                      |                      |                      |
| 6     | ANE West Perimeter Road   |                      | \$1,800,000            |                      |                      |                      |                      |                      |
|       | <b>Reliever Airports Maintenance/Facility Upgrade Projects Subtotal</b> | <b>\$8,450,000</b>   | <b>\$30,175,000</b>    | <b>\$20,250,000</b>  | <b>\$12,900,000</b>  | <b>\$19,750,000</b>  | <b>\$5,650,000</b>   | <b>\$5,600,000</b>   |
|       | <b>MSP Subtotal</b>   | <b>\$278,440,000</b> | <b>\$1,047,495,000</b> | <b>\$390,925,000</b> | <b>\$495,675,000</b> | <b>\$569,970,000</b> | <b>\$367,050,000</b> | <b>\$137,600,000</b> |
|       | <b>Reliever Subtotal</b>  | <b>\$11,050,000</b>  | <b>\$36,775,000</b>    | <b>\$22,150,000</b>  | <b>\$13,700,000</b>  | <b>\$19,750,000</b>  | <b>\$6,150,000</b>   | <b>\$6,600,000</b>   |
|       | <b>Total</b>  | <b>\$289,490,000</b> | <b>\$1,084,270,000</b> | <b>\$413,075,000</b> | <b>\$509,375,000</b> | <b>\$589,720,000</b> | <b>\$373,200,000</b> | <b>\$144,200,000</b> |

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