

Action Transmittal

Transportation Advisory Board



Committee Meeting Date: December 4, 2024

Date: November 27, 2024

Action Transmittal: 2024-51

Review of Metropolitan Airports Commission (MAC) 2025-2031 Capital Improvement Program (CIP)

To: Technical Advisory Committee
From: TAC Planning Committee
Prepared By: Joe Widing, Senior Transportation Planner, 651-602-1822

Requested Action

MAC requests that the Metropolitan Council review the MAC's 2025-2031 Capital Improvement Program as required by MN Statutes 473.181 and 473.621.

Recommended Motion

That the Technical Advisory Committee recommend that the Metropolitan Council:

- find that the Metropolitan Airport Commission's CIP process included adequate public participation;
- approve the proposed 2025 CIP runway rehabilitation and extension project at Lake Elmo Airport which meets the dollar threshold and significant effects criteria for Council approval; and
- find the remaining CIP projects to be consistent with the Transportation Policy Plan and forward any additional project 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 the 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 16th to adopt the final 2025-2031 CIP and any changes from the draft will be incorporated into the report that goes forward to the Met Council in January 2025. 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 and to approve any projects which meet state statute identified criteria. Although state law doesn't require TAC/TAB to review the CIP, staff traditionally has sought TAC/TAB comments in the review process to provide additional feedback for Council review.

Staff Analysis

Analysis confirms that an Assessment of Environmental Effects (AOEE) has been prepared for 2025 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 4th, at 10:30 AM at the Planning, Development and Environment Committee meeting at the MSP Conference Room.

The following 2025 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	Passenger Boarding Bridge Replacements	\$10,000,000
MSP	End of Life/ Replacement Projects	Concourse E and F Bridge Heating and Cooling System Replacement	\$6,800,000
MSP	End of Life/ Replacement Projects	30L Deicing Pad Reconstruction	\$12,000,000
MSP	End of Life/ Replacement Projects	30L EMAS Replacement	\$19,000,000
MSP	End of Life/ Replacement Projects	Concourse G Apron Pavement Reconstruction	\$13,500,000
MSP	End of Life/ Replacement Projects	Taxiway B Pavement Reconstruction	\$7,500,000
MSP	IT Projects	MAC Technology Upgrades	\$12,800,000
MSP	Long Term Comprehensive Plan Projects	Terminal 2 South Expansion Enabling Work	\$123,600,000
MSP	Long Term Comprehensive Plan Projects	Ground Service Equipment (GSE) Maintenance Facility	\$36,400,000
MSP	Maintenance/Facility Upgrade Projects	Concourse A Heating System Upgrade	\$7,000,000
MSP	Maintenance/Facility Upgrade Projects	Folded Plate Surface Reconstruction	\$45,000,000
MSP	Maintenance/Facility Upgrade Projects	Wayfinding Sign Replacement	\$6,500,000
MSP	Maintenance/Facility Upgrade Projects	West Mezzanine Improvements	\$16,700,000
MSP	Maintenance/Facility Upgrade Projects	MAC Automation Infrastructure Program	\$7,600,000
MSP	Maintenance/Facility Upgrade Projects	Victaulic Piping Replacement	\$19,000,000
MSP	Maintenance/Facility Upgrade Projects	Field Maintenance Building Efficiency Program	\$53,000,000
MSP	Maintenance/Facility Upgrade Projects	GBAS – SLS – 4000 Installation	\$7,000,000
MSP	Maintenance/Facility Upgrade Projects	Parking Guidance System	\$6,500,000
MSP	Maintenance/Facility Upgrade Projects	Perimeter Gate Security Improvements	\$6,500,000
MSP	Maintenance/Facility Upgrade Projects	Fire Protection Systems Upgrades	\$10,000,000
MSP	Maintenance/Facility Upgrade Projects	MSP Pond 3 / 494 Pond Sediment Removal and Repairs	\$5,900,000



MSP	Ongoing Maintenance Programs	Baggage System Upgrades	\$5,000,000
MSP	Ongoing Maintenance Programs	Electrical Substation Replacement	\$10,000,000
MSP	Ongoing Maintenance Programs	Ground Power Substation Replacement	\$10,000,000
MSP	Ongoing Maintenance Programs	MSP Campus Building Roof Replacement	\$17,100,000
MSP	Tenant Projects	Concourse and Gatehold Modernization	\$73,100,000
STP	Reliever Airports Maintenance/Facility Upgrade Projects	Customs and Border Protection General Aviation Facility	\$11,000,000
21D	Reliever Airports Maintenance/Facility Upgrade Projects	21D Equipment Storage Building	\$5,000,000

Federal, state and MAC funding has been identified by the MAC for most projects in the 2025-2031 CIP.

In addition to the above projects, there is a single project which meets both the dollar threshold and the “other significant effects” criteria which triggers the need for project approval by the Council. The runway rehabilitation project at Lake Elmo for the crosswind runway 04-22 includes a modest extension of 254 feet, to bring the runway to 2,750 feet in total length. This project is included in the Lake Elmo Airport LTCP approved in 2016 and EA/EAW approved in 2018. The crosswind runway extension has been in plans for the airport for many decades, carried over into the 2016 LTCP from previous LTCPs. The runway extension is needed for the crosswind runway to operate safely and provide the necessary operational flexibility for the minimum design aircraft most commonly found at Lake Elmo today. The proposed length of the runway meets design guidance from the FAA on crosswind runways while maintaining the existing footprint of the airport. The project will also add lighting and additional taxiway connections to runway 04-22. The EA/EAW done for this project received a finding of no significant impact by the FAA and was adopted by the MAC in October 2018.

In addition, the project received a \$1 million grant from the state through the MnDOT Aeronautics’ Airport Capital Grant Program. This project is consistent with previous planning and environmental approvals and is consistent with the Transportation Policy Plan.

Airport	Category	Project	Cost
21D	Reliever Airports Maintenance/Facility Upgrade Projects	21D Runway 04-22 Pavement Rehabilitation	\$4,000,000

All projects in the 2025 CIP appear consistent with the Transportation Policy Plan (TPP). Any significant 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 (2026-2031) 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 Airport Runway 12-30 Improvements is a runway reconstruction and extension project that is currently scheduled for 2027 implementation. This project is currently in the environmental review phase and is expected to be formally reviewed and approved during a future CIP review. After the approval of the MSP LTCP in 2024, new projects will likely begin to appear from this effort in subsequent CIPs. All potential projects will be re-evaluated on an annual basis.

There are three large dollar projects included in the 2025 CIP at MSP that do not meet the significant effects criteria but are notable.

- The Terminal 2 South Expansion Enabling Work project is \$123,600,000 in 2025 and will fund preliminary planning to better define a future expansion of Terminal 2 to the south and other preliminary work. The MAC determined that the project does not have the potential for significant environmental effects.



- The Concourse and Gatehold Modernization project is \$73,100,000 in 2025. This is the third phase of the Concourse and Gatehold Modernization program and will complete work in Concourses A, B, and G. Through a reimbursable agreement, Delta Airlines will complete MAC-funded work including ceiling and lighting improvements, window tint, wainscoting, column wraps (excluding branding), paint (excluding branding), wayfinding information displays, and flooring in the public area concourse corridors (including terrazzo, tile, and carpet where applicable).
- The Field Maintenance Building Efficiency Program project will be \$53,000,000 in 2025. This program will develop a consolidated field maintenance campus to ensure improvement to winter operations and vehicle fueling for MAC campus. The 2025 phase will provide a salt and sand storage building and fueling facility.

There is currently one other project for which an EAW is anticipated to be required for, the Runway 30R Parallel Taxiway project which will construct a new taxiway north of runway 30R. This project is anticipated to begin in 2028, if determined feasible. The MAC notes an EAW will need to be completed before any work commences. The MAC also notes another major project, the airport concourse and hub tram replacement project, may need to go through environmental review depending on the final scope of the project. The MAC will undertake a study to determine the preferred alternative for the airport tram system prior to the project which may recommend different alignments or major modifications to the existing system. The tram replacement project is scheduled to begin in 2027 and continue into 2028 with \$600,000,000 budgeted for the project.

Committee Comments and Actions

At its November 14, 2024, meeting, the TAC Planning Committee recommended acceptance of the staff analysis of MAC’s 2025-2031 CIP and to forward these comments to the Metropolitan Council for its consideration.

Routing

To	Action Requested	Date Completed (Scheduled)
TAC Planning Committee	Review & Recommend	November 14, 2024
Technical Advisory Committee	Review & Recommend	<i>December 4, 2024</i>
Transportation Advisory Board	Review & Recommend	<i>December 18, 2024</i>
Metropolitan Council Transportation Committee	Review & Recommend	<i>January 13, 2025</i>
Metropolitan Council	Review & Adopt	<i>January 22, 2025</i>

MAC 2025 – 2031 Capital Improvement Program

The MAC 2025 – 2031 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. 3, 2024. Final action by the Commission is expected at their December 16, 2024, meeting. Any changes made at the December 2nd PD&E Committee Meeting that may affect the CIP review would be reported at the December 18th 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:

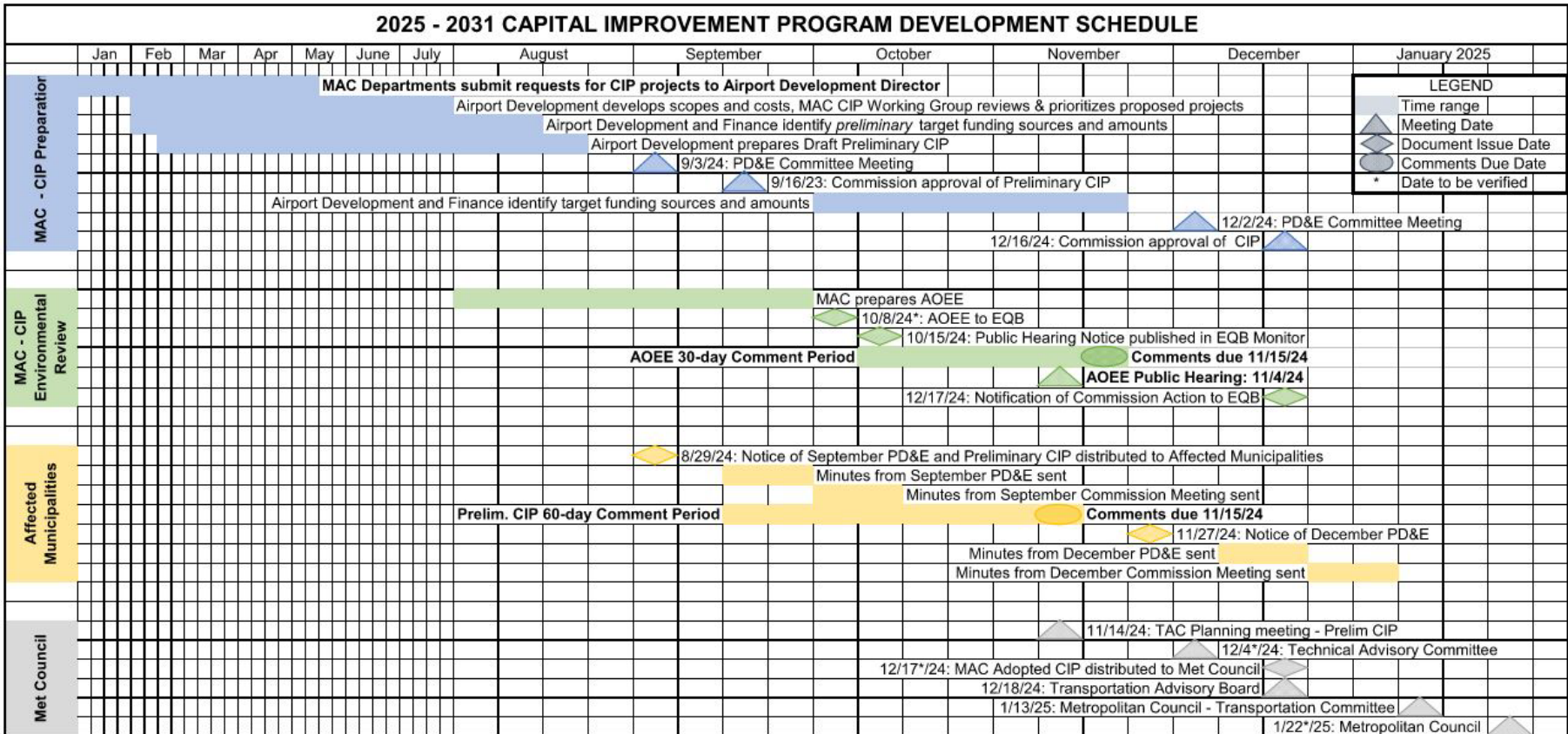
- Attachment 1 – MAC 2025-2031 CIP Development and Public Review Schedule



- Attachment 2 – Projects Meeting Statutory Review Criteria & Requiring Approval. There is one project which meets the statutory requirements in 2025, the Lake Elmo 04-22 runway rehabilitation and extension project.
- Attachment 3 – 2025 Projects Requiring an Assessment of Environmental Effects (AOEE). One 2025 CIP project meets the criteria for environmental review, all projects have been analyzed in environmental assessments.
- Attachment 4 – Projects Meeting \$5M at MSP and \$2M at relievers thresholds 2025-2031. A number of projects potentially meet the threshold dollar levels at both MSP and the MAC relievers.



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 – 2025 Projects Meeting Statutory Review Criteria and Requiring Approval:

2025 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)
Details	Review Action	<ul style="list-style-type: none"> EA-EAW Prepared EIS Reviewed NPDES Approved Legislative Requirement Regulatory Requirement Legal Requirement 	Project meets Dollar threshold at: MSP = \$5M 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 2025 Program	2040 LTCP Update Approved in May 2024		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, update anticipated to begin in 2025		Customs and Border Protection GA Facility	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flying Cloud Airport	2025 LTCP Approved in 2010, 2040 LTCP to be reviewed in 2025		None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crystal Airport	2035 LTCP Approved in 2017		None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anoka County-Blaine Airport	2025 LTCP Approved in 2010, update anticipated to begin in 2025		None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lake Elmo Airport	2035 LTCP Approved 2016	FAA Issued Finding of No Significant Impact for EA in Aug 2018	Runway 04-22 pavement rehabilitation and extension, Equipment Storage Building	N/A	N/A	Runway 04-22 will be extended by 254 ft to 2,750 ft	N/A	N/A	N/A	N/A
Airlake Airport	2035 LTCP Approval in 2018	EA/EAW for runway 12-30 improvements currently in progress.	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Attachment 3 – 2025 Projects Requiring an Assessment of Environmental Effects (AOEEs):

Environmental Categories Affected by the Project, MSP Airport

Project Description	Are the Effects of the project Addressed in an Approved EAW, EA or EIS?	Air Quality	Compatible Land Use	Fish Wildlife and Plants	Floodplains and Floodways	Hazardous Materials, Pollution Prevention and Solid Waste	Historical, Architectural, Archaeological and Cultural Resources	Light Emissions and Visual Effects	Parks & Rec. Areas and Trails	Noise	Water Quality (Storm, Waste and Ground Water)	Wetlands	Infra-structure and Public Services	Farmland	Erosion and Sedimentation
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None

Environmental Categories Affected by the Project, Reliever Airports

Project Description	Are the Effects of the project Addressed in an Approved EAW, EA or EIS?	Air Quality	Compatible Land Use	Fish Wildlife and Plants	Floodplains and Floodways	Hazardous Materials, Pollution Prevention and Solid Waste	Historical, Architectural, Archaeological and Cultural Resources	Light Emissions and Visual Effects	Parks & Rec. Areas and Trails	Noise	Water Quality (Storm, Waste and Ground Water)	Wetlands	Infra-structure and Public Services	Farmland	Erosion and Sedimentation
Lake Elmo Airport Runway 04-22 rehabilitation and extension	Lake Elmo Airport 2018 EA/EAW	None	None	None	None	None	None	None	None	None	None	None	None	None	None



Attachment 4 – MAC Projects Anticipated to Meet the \$5 million and \$2 million Thresholds from 2025 – 2031:

		=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	2025	2026	2027	2028	2029	2030	2031
	10 - Terminal 1							
2	Concourse and Hub Tram Replacement			\$300,000,000	\$300,000,000			
4	Concourse C Moving Walkway Upgrade/Replacement			\$3,000,000				
4	Passenger Boarding Bridge Replacements	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	
5	Recarpeting Program	\$2,000,000						
5	Terminal 1 Media Mesh Replacement			\$1,400,000				
5	Terminal 1 Outbound Baggage Handling System Replacement						\$250,000,000	
	13 - Energy Management Center							
5	Concourse E and F Bridge Heating and Cooling System Replacement	\$6,800,000						
3	GTC Dual-temperature Pump Improvements	\$2,600,000						
7	Terminal 1 Boiler and Chiller Replacement and EMC Expansion	\$250,000		\$420,000,000				
3	Variable Air Volume (VAV) Box Replacement		\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	
	21 - Field and Runway							
2	30L Deicing Pad Expansion					\$20,000,000		
2	30L Deicing Pad Reconstruction	\$12,000,000		\$15,000,000				
5	30L EMAS Replacement	\$19,000,000						
2	Airfield Snow Melter Replacement/Upgrades	\$1,800,000	\$1,800,000	\$2,000,000	\$2,000,000			
2	Bituminous Shoulder Reconstruction	\$1,000,000	\$1,000,000	\$1,000,000				
2	Concourse G Apron Pavement Reconstruction	\$13,500,000			\$15,000,000	\$14,000,000	\$16,000,000	
2	Runway 12L-30R Reconstruction						\$40,000,000	
2	Taxiway A Pavement Reconstruction		\$4,200,000					
2	Taxiway B Pavement Reconstruction	\$7,500,000			\$6,000,000	\$5,000,000	\$8,000,000	
2	Taxiway C Pavement Reconstruction					\$10,000,000		
2	Taxiway H Pavement Reconstruction			\$6,500,000				
2	Taxiway J Pavement Reconstruction			\$7,500,000				
2	Taxiway R Pavement Reconstruction		\$9,500,000					
2	Terminal 1 Apron Pavement Reconstruction		\$11,000,000	\$13,000,000	\$11,000,000			
2	Terminal 2 Apron Reconstruction			\$6,500,000	\$8,000,000	\$8,000,000		
	31 – Parking							
5	Parking Ramp Snow Melter Replacement/Upgrades	\$1,350,000	\$1,400,000	\$1,400,000	\$1,400,000			
3	Parking Revenue Control System		\$4,200,000					
	39 – Public Areas/Roads							
2	28th Avenue South Reconstruction					\$3,000,000		
2	East 62nd Street Reconstruction			\$4,100,000				
2	Post Road Reconstruction Project		\$5,000,000					
2	West Cell Phone Lot Reconstruction		\$500,000					
	70 – General Office/Administration							
3	GO Building Variable Air Volume (VAV) Replacement and Upgrade		\$2,000,000					
	MSP End of Life/Replacement Projects Subtotal	\$81,600,000	\$50,600,000	\$793,400,000	\$378,400,000	\$49,000,000	\$326,000,000	\$0

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 IT Projects	2025	2026	2027	2028	2029	2030	2031
	10 – Terminal 1							
4	Concourse C and G Digital Directory Replacement	\$800,000						
4	MAC Technology Upgrades	\$12,800,000	\$14,000,000	\$13,000,000	\$11,000,000	\$11,000,000	\$12,000,000	
5	Telecom Room Equipment Continuity (TREC)	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	
	12 – Federal Inspection Station (FIS)							
5	Customs and Border Protection Infrastructure	\$1,500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
	36 - Terminal 2							
5	Common Use Passenger Boarding Bridges Cab Cameras	\$250,000						
3	Passenger Flow Tracking	\$2,000,000						
4	Upgrade and Modernize Terminal 2 Kiosks	\$1,000,000						
	46 - Hangers and Other Buildings							
5	Multiple Points of Entry Facility		\$5,000,000	\$5,000,000	\$5,000,000			
	63 - Police							
5	Badging and Door Access (SAACS/ProWatch) Modernization		\$2,100,000					
5	Card Access Modifications	\$2,500,000	\$2,800,000		\$2,500,000			
5	Public Safety Land Mobile Radio System Solutions	\$1,000,000						
5	Public Safety Video (IVISN) Modernization	\$1,100,000	\$1,100,000	\$1,000,000				
	MSP IT Projects Subtotal	\$24,700,000	\$27,650,000	\$21,750,000	\$21,250,000	\$13,750,000	\$14,750,000	\$1,000,000

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- 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 Long Term Comprehensive Plan Projects	2025	2026	2027	2028	2029	2030	2031
	10 - Terminal 1							
6	Checkpoint Expansion					\$11,000,000		
7	Concourse E and F Assessment	\$200,000						
1	D-Pod Outbound Baggage System			\$15,000,000				
7	MSP Airport Layout Plan		\$100,000	\$100,000				
7	MSP Environmental Review				\$2,000,000			
7	MSP Long Term Plan					\$3,000,000		
	21 - Field and Runway							
5	MSP Obstructions Removals			\$1,000,000		\$1,000,000		
5	NAVAID Relocation				\$2,000,000		\$30,000,000	
1	Runway 30R Parallel Taxiway				\$12,000,000	\$10,000,000	\$14,000,000	
	31 - Parking							
	Parking Capacity Assessment	\$200,000						
	36 - Terminal 2							
6	Terminal 2 South Expansion Enabling Work	\$123,600,000						
	46 - Hangars and Other Buildings							
6	Ground Service Equipment (GSE) Maintenance Facility	\$36,400,000						
	MSP Long Term Comprehensive Plan Projects Subtotal	\$160,400,000	\$100,000	\$16,100,000	\$16,000,000	\$25,000,000	\$44,000,000	\$0

MAC Environmental Notes:

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- 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 Maintenance/Facility Upgrade Projects	2025	2026	2027	2028	2029	2030	2031
	10 - Terminal 1							
5	ADO Office Expansion	\$4,000,000						
9	Art Display Areas	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	
9	Arts Master Plan	\$610,000	\$1,610,000	\$610,000	\$610,000	\$600,000	\$600,000	
4	Commission Chambers Lighting Upgrades	\$200,000						
4	Concourse A Heating System Upgrade	\$7,000,000						
5	Delivery Node Redevelopment	\$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 Surface Reconstruction	\$45,000,000		\$45,000,000				
2	Gold/Green Skyway Safety Improvements	\$100,000						
5	Lavatory Buildings Rehabilitation	\$4,400,000						
4	Lighting Infrastructure Technology and Equipment (LITE)	\$2,550,000	\$1,500,000	\$2,550,000	\$1,500,000	\$2,200,000	\$3,000,000	
5	LRT Station Updates		\$15,000,000					
2	Main Mall Modernization				\$3,500,000	\$3,500,000		
4	MSP Courtesy Phone Updates and Removal	\$800,000	\$800,000	\$800,000		\$3,500,000	\$3,500,000	
5	Restroom Upgrade Program	\$2,400,000		\$2,625,000	\$2,050,000	\$2,050,000	\$2,050,000	
5	Skyclub Repairs and Improvements		\$4,000,000					
4	Steam System Upgrade Program	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000			
2	Terminal 1 Information Booth Replacements	\$850,000						
5	Terminal 1 Sand Dump Station	\$300,000						
5	Terminal 1 Tram Maintenance	\$1,250,000						
2	Terminal 1 Tug Drive Heater Replacement	\$4,500,000						
5	Terminal 1 Tug Drive Waterproofing	\$2,900,000	\$2,900,000	\$2,900,000	\$2,900,000			
4	Way-Finding Sign Replacement	\$6,500,000		\$2,000,000		\$2,000,000		\$2,000,000
5	West Mezanine Improvements	\$16,700,000						
	12 - Federal Inspection Station (FIS)							
6	FIS Facility Upgrades	\$2,175,000	\$845,000	\$2,000,000				
	13 - Energy Management Center							
4	Building Management (IMACS) Replacement	\$800,000	\$3,400,000					
4	Chiller Plant Optimization	\$4,000,000						
4	Energy Savings Program	\$2,000,000		\$2,000,000				
4	Indoor Air Quality Monitoring System		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	
4	MAC Automation Infrastructure Program	\$7,600,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000		
3	Steam Trap Monitoring System		\$3,000,000					
4	Victaulic Piping Replacement	\$19,000,000	\$4,000,000	\$2,200,000	\$2,300,000	\$2,350,000		

MAC Environmental Notes:

- 1) A project that has the potential for substantial environmental effects.
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NOTES	MSP Maintenance/Facility Upgrade Projects, continued	2025	2026	2027	2028	2029	2030	2031
	21 – Field and Runway							
5	Airfield Thermoplastic Markings	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000		
4	Apron Lighting LED Upgrade	\$1,000,000	\$3,000,000	\$1,000,000	\$1,000,000			
6	Field Maintenance Building Efficiency Program	\$53,000,000				\$112,000,000		\$49,000,000
5	GBAS = SLS-4000 Installation	\$7,000,000						
4	Runway LED Lighting Upgrade			\$3,000,000				
2	Terminal 2 Glycol Lift Station/Forcemain	\$1,500,000						
4	Tunnel Lighting LED Upgrade	\$1,000,000	\$900,000	\$400,000	\$1,200,000			
	26 – Terminal Roads/Landside							
7	Terminal 2 Cell Phone Lot Study	\$100,000						
	31 – Parking							
4	Electric Vehicle Charging Network Expansion	\$1,500,000	\$850,000	\$850,000	\$1,500,000	\$1,500,000	\$1,500,000	
3	Parking Guidance System	\$6,500,000						
2	Red/Blue Parking Levels 2 & 3			\$10,000,000				
4	Terminal 2 Landside Office Remodel	\$400,000						
	36 - Terminal 2							
5	Ramp Information Display System (RIDS)	\$3,600,000						
5	Terminal 2 Baggage Handling System	\$410,000						
5	Terminal 2 Gate Area Improvements	\$3,000,000						
6	Terminal 2 Ground Transportation Waiting Area Expansion	\$400,000						
2	Terminal 2 MUFIDS/EVIDS Millwork Upgrades	\$350,000						
5	Terminal 2 Skyway to LRT Flooring Installation			\$1,000,000				
5	Terminal 2 Ticket Counter Insert Replacement			\$750,000				
5	Terminal 2 Digital Wait Time Display			\$200,000				
	39 - Public Areas/Roads							
2	34 th Avenue Reconstruction		\$8,200,000	\$8,200,000				
2	34 th Avenue Sanitary Sewer Replacement		\$2,200,000					
2	Diverging Diamond Intersection Rehabilitation			\$380,000				
2	Terminal 1 Inbound Roadway Median Improvements	\$3,300,000						
4	Tunnel Fan Replacement		\$6,800,000					

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NOTES	MSP Maintenance/Facility Upgrade Projects, continued	2025	2026	2027	2028	2029	2030	2031
	46 - Hangars and Other Buildings							
7	Campus Out Building Study	\$300,000						
	56 - Trades/Maintenance Buildings							
5	Fall Hazard Mitigation	\$100,000						
6	Trades Building Rehabilitation and Addition		\$25,000,000					
	63 - Police							
5	APD Response Training Room			\$500,000				
5	Critical Infrastructure Fencing	\$850,000						
5	Emergency Communications Center Updates			\$200,000				
5	Perimeter Fence Intrusion Detection System		\$1,000,000					
5	Perimeter Gate Security Improvements	\$6,500,000	\$6,500,000					
6	Police Department Remote Threat Isolation and Training Building			\$15,500,000				
5	Public Safety Modifications	\$1,000,000		\$850,000			\$850,000	
2	Squad Parking Modifications		\$140,000					
	66 - Fire							
4	ARFF 1 Garage Door Replacement			\$1,500,000				
5	Fire Protection Systems Upgrades	\$10,000,000			\$10,000,000			\$10,000,000
	70 - General Office/Administration							
4	Digital Signage In/At the GO		\$300,000					
	76 - Environment							
5	Firefighting Foam System Conversation	\$3,000,000						
4	Glycol Sewer & Storm Sewer Inspection/Rehabilitation	\$600,000				\$2,000,000	\$1,000,000	
2	Glycol Tank Roof Repairs				\$700,000			
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	\$5,900,000					\$14,000,000	
	MSP Maintenance/Facility Upgrade Projects Subtotal	\$256,895,000	\$106,595,000	\$118,185,000	\$39,110,000	\$134,300,000	\$23,400,000	\$61,000,000

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NOTES	MSP Noise Mitigation Projects	2025	2026	2027	2028	2029	2030	2031
8	Noise Mitigation Projects	\$5,000,000	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000		
	MSP Noise Mitigation Projects Subtotal	\$5,000,000	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$0	\$0
	MSP Ongoing Maintenance Programs							
	10 - Terminal 1							
4	Air Handling Unit Replacement		\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	
4	Baggage System Upgrades	\$5,000,000	\$4,500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
4	Conveyance System Upgrades	\$3,000,000						
4	Electrical Infrastructure Program (EIP)		\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$3,000,000	
4	Electrical Substation Replacement	\$10,000,000	\$10,000,000	\$10,000,000				
4	Emergency Power Upgrades		\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$3,000,000	
4	Ground Power Substation Replacement	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
4	Plumbing Infrastructure Upgrade Program	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$800,000	\$800,000
5	Terminal Building Remediation Program	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,500,000	\$3,500,000
4	Terminal Miscellaneous Modifications	\$2,600,000	\$2,600,000	\$2,600,000	\$3,100,000	\$3,100,000	\$3,100,000	\$3,600,000
	13 - Energy Management Center							
4	EMC Life Safety Infrastructure Program	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000
4	EMC Plant Upgrades	\$2,150,000	\$2,200,000	\$2,300,000	\$2,400,000	\$2,500,000		
	21 - Field and Runway							
2	Airside Electrical Construction	\$2,500,000	\$5,100,000	\$2,000,000	\$2,000,000	\$2,000,000		
2	Airside Roadway Pavement Restoration	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000	
2	Miscellaneous Airfield Construction	\$2,500,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		\$3,000,000
2	Pavement Joint Sealing/Repair	\$800,000	\$800,000	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000	
	26 - Terminal Roads/Landside							
2	Tunnel/Bridge Inspections	\$120,000	\$120,000	\$120,000	\$150,000	\$150,000	\$150,000	\$150,000
5	Tunnel-Bridge Miscellaneous Modifications	\$1,000,000		\$1,000,000		\$1,000,000		\$1,000,000
	31 - Parking							
2	Parking Structure Rehabilitation	\$4,750,000	\$5,650,000	\$5,000,000	\$6,000,000	\$5,175,000	\$6,350,000	

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NOTES	MSP Ongoing Maintenance Programs, continued	2025	2026	2027	2028	2029	2030	2031
	39 - Public Areas/Roads							
2	Concrete Joint Repair	\$550,000	\$500,000	\$1,200,000	\$2,900,000	\$750,000	\$2,000,000	\$2,000,000
2	Landside Pavement Rehabilitation	\$500,000	\$600,000	\$1,500,000	\$900,000	\$1,600,000	\$950,000	\$2,200,000
2	Landside Utility Rehabilitation	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000		
2	Roadway Fixture Refurbishment	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	
	46 - Hangars and Other Buildings							
5	Campus Building Rehabilitation Program	\$1,500,000		\$1,500,000		\$1,500,000		
2	Campus Parking Lot Reconstructions			\$3,075,000	\$3,075,000			\$8,500,000
10	End of Life Campus Building Demolition	\$400,000	\$3,700,000					
2	MSP Campus Building Roof Replacements	\$17,100,000	\$10,200,000	\$10,000,000	\$10,000,000	\$15,000,000	\$8,000,000	\$5,000,000
	56 - Trades/Maintenance Buildings							
5	North Field Maintenance Mechanical Infrastructure Project		\$5,000,000					
4	Sump Pump Controls	\$4,000,000	\$3,500,000					
	70 - General Office/Administration							
5	GO Building Improvements		\$500,000		\$500,000		\$500,000	
	MSP Ongoing Maintenance Programs Subtotal	\$76,170,000	\$92,670,000	\$79,495,000	\$70,225,000	\$71,975,000	\$63,550,000	\$42,150,000
	MSP Tenant Projects							
	10 - Terminal 1							
2	Concessions Rebids	\$500,000						
2	Concessions Upgrades/Revenue Development and Strategic Partnerships	\$375,000	\$320,000	\$295,000	\$335,000	\$340,000	\$350,000	\$400,000
5	Concourse and Gatehold Modernization	\$73,100,000						
6	Elevator and Concourse Improvements Related to Relocated United Club				\$1,000,000			
4	Terminal Food Court Digital Signage		\$400,000					
	36 - Terminal 2							
6	Terminal 2 Concessions Marketing Digital Display		\$250,000					
6	Terminal 2 Concessions Redevelopment	\$2,000,000						
7	Terminal 2 JWO Kiosk Relocation			\$150,000				
7	Terminal 2 Supplemental Concessions	\$150,000						
	39 - Public Areas / Roads							
2	Tenant Parking Lot Reconstruction	\$3,400,000						
	46 - Hangars and Other Buildings							
6	Air Freight Facility Parking Expansion	\$2,600,000						
	MSP Tenant Projects Subtotal	\$82,125,000	\$970,000	\$445,000	\$1,335,000	\$340,000	\$350,000	\$400,000

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NOTES	Reliever Airports Long Term Comprehensive Plan (LTCP) Projects	2025	2026	2027	2028	2029	2030	2031
	80 – Reliever Airports							
7	Reliever Airports Planning Fees	\$600,000						
	81 - St. Paul							
7	STP Environmental Review			\$800,000				
	82 - Lake Elmo							
7	21D Airport Layout Plan	\$100,000				\$500,000		
7	21D Environmental Review							\$800,000
7	21D Long Term Comprehensive Plan					\$800,000		
	83 - Airlake							
7	LVN Airport Layout Plan		\$100,000			\$500,000		
7	LVN Environmental Review							\$800,000
7	LVN Long Term Comp Plan					\$800,000		
1	LVN Runway 12-30 Improvements			\$4,400,000				
	84 - Flying Cloud							
7	FCM Environmental Review		\$800,000					
6	FCM South Building Area Utilities		\$800,000					
	85 - Crystal							
7	MIC Airport Layout Plan				\$500,000			
7	MIC Environmental Review						\$800,000	
7	MIC Long Term Comp Plan				\$800,000			
	86 - Anoka County - Blaine							
7	ANE Airport Layout Plan	\$500,000						
6	ANE Building Area Development - Xylite St. Relocation				\$1,000,000			
7	ANE Environmental Review			\$800,000				
7	ANE Long Term Comprehensive Plan Update	\$800,000						
	Reliever Airports LTCP Projects Subtotal	\$2,000,000	\$1,700,000	\$6,000,000	\$2,300,000	\$2,600,000	\$800,000	\$1,600,000

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NOTES	Reliever Airports Maintenance/Facility Upgrade Projects	2025	2026	2027	2028	2029	2030	2031
	80 - Reliever Airports							
5	Reliever Airports Security Fencing, Gates and Lighting	\$200,000	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$300,000
4	Reliever Indoor Air Quality Project			\$1,400,000				
4	Relievers Building Miscellaneous Modifications	\$400,000	\$400,000	\$475,000	\$475,000	\$475,000	\$475,000	\$550,000
5	Relievers Obstruction Removal	\$300,000		\$300,000		\$300,000		
2	Relievers Pavement Rehabilitation Miscellaneous Modifications	\$300,000	\$300,000	\$350,000	\$350,000	\$350,000	\$350,000	\$400,000
6	Relievers Used Oil Sheds & Tanks	\$550,000						
	81 - St. Paul							
6	STP Airport Perimeter Roads	\$500,000						
2	STP Airport Road and Eaton Street Retaining Wall				\$900,000			
6	STP Cold Equipment Storage Building		\$750,000					
6	STP Customs and Border Protection General Aviation Facility	\$11,000,000						
6	STP Equipment Storage Building and Employee Crew Rooms				\$4,000,000			
2	STP Floodwall Inspection and Repairs						\$300,000	
3	STP Generator Replacement						\$800,000	
2	STP Infrastructure Replacement	\$1,200,000						
3	STP Intelligent Monitoring and Control System (IMACS) Expansion			\$2,250,000				
2	STP Joint and Crack Repairs		\$100,000					
5	STP MAC Building Improvements	\$200,000		\$200,000		\$200,000		\$200,000
2	STP Pavement Mill and Overlay of Administration Building Ramp						\$500,000	
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 Storm Sewer Improvements			\$2,000,000				
2	STP Taxiway B Reconstruction and LED Edge Lighting	\$1,100,000						
2	STP Taxiway Lima Rehabilitation			\$200,000				
	82 - Lake Elmo							
3	21D AWOS Replacement	\$200,000						
6	21D Equipment Storage Building	\$5,000,000						
3	21D Intelligent Monitoring and Control System (IMACS)				\$3,800,000			
2	21D North Building Area Pavement Rehabilitation	\$900,000						
1	21D Runway 04-22 Pavement Rehabilitation	\$4,000,000						
4	21D Taxiway Echo Edge Lighting		\$600,000					
2	21D Taxiway H Reconstruction	\$600,000						
	83 - Airlake							
2	LVN 225 TH Street Paving	\$450,000						
3	LVN AWOS Replacement	\$100,000						
2	LVN Existing Runway 12-30 Reconstruction			\$3,500,000				
3	LVN Intelligent Monitoring and Control System (IMACS)					\$1,300,000		
2	LVN North Service Road Pavement Rehabilitation			\$500,000				
2	LVN North Taxilanes Pavement Rehabilitation			\$1,250,000				
5	LVN Perimeter Fencing and Gates			\$4,000,000				
2	LVN South Building Area Utilities and Taxilanes		\$1,300,000					
2	LVN Taxiway Bravo Pavement Rehabilitation		\$600,000					

NOTES	Reliever Airports Maintenance/Facility Upgrade Projects	2025	2026	2027	2028	2029	2030	2031
	84 – Flying Cloud							
2	FCM Airport Access Roads Pavement Rehabilitation			\$500,000	\$500,000	\$500,000		
6	FCM Electrical Vault Modifications			\$500,000				
5	FCM Gate Replacements	\$500,000						
2	FCM Infrastructure Replacement	\$1,750,000						
3	FCM Intelligent Monitoring and Control System (IMACS)			\$2,500,000				
5	FCM MAC Building Improvements		\$600,000					
2	FCM Northside Access Road from Bravo to November Lane	\$900,000						
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			\$700,000				
5	FCM Tower Equipment for Airfield Lighting and Utilities		\$2,000,000					
	85 -Crystal							
2	MIC East Taxilanes Pavement Rehabilitation		\$500,000					
2	MIC Eastside Service Road Pavement Reconstruction		\$1,500,000					
4	MIC Existing Hangar Revitalization		\$800,000					
5	MIC Gate Replacement		\$800,000					
3	MIC Intelligent Monitoring and Control System (IMACS)					\$1,300,000		
2	MIC Northside Service Road Pavement Reconstruction				\$1,200,000			
2	MIC Runway 6L-24R Pavement Rehabilitation			\$2,500,000				
2	MIC Service Road Pavement and Fencing			\$600,000				
2	MIC Stormwater Monitoring Location Drainage Repair	\$100,000						
2	MIC Taxilanes Pavement Rehabilitation	\$600,000		\$600,000				
2	MIC Taxiway Alpha Pavement Reconstruction					\$1,200,000		
2	MIC Tower Parking Lot Reconstruction	\$1,500,000						
	86 - Anoka County - Blaine							
4	ANE Electrical Vault Improvements		\$750,000					
5	ANE Gate Controller Upgrades		\$400,000					
3	ANE Intelligent Monitoring and Control System (IMACS)				\$1,300,000			
2	ANE Runway 18-36 Pavement Reconstruction		\$3,800,000					
2	ANE Runway 9-27 Edge Lighting and PAPI Replacement		\$900,000					
2	ANE Runway 9-27 Pavement Reconstruction				\$3,750,000			
2	ANE Taxilane Pavement Reconstruction – Fox Hollow			\$1,000,000				
2	ANE Taxiway B Pavement Rehabilitation					\$1,400,000		
	Reliever Airports Maintenance/Facility Upgrade Projects Subtotal	\$32,350,000	\$22,050,000	\$38,275,000	\$16,525,000	\$7,975,000	\$2,675,000	\$1,450,000
	MSP Subtotal	\$681,890,000	\$279,085,000	\$1,030,375,000	\$527,320,000	\$295,365,000	\$472,050,000	\$104,550,000
	Reliever Subtotal	\$34,350,000	\$23,755,000	\$44,275,000	\$18,825,000	\$10,575,000	\$3,475,000	\$3,050,000
	Total	\$716,240,000	\$302,835,000	\$1,074,650,000	\$546,145,000	\$305,940,000	\$475,525,000	\$107,600,000

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