

Action Transmittal

Transportation Advisory Board



Committee Meeting Date: January 18, 2023

Date: January 5, 2023

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 TAB's Technical Advisory Committee (TAC) reviewed the draft CIP and recommended approval of the Council's review at their December meeting. The December 21st meeting of TAB was then cancelled due to inclement weather. Since then, the MAC took action on December 19th to adopt the final 2023-2029 CIP and changes since the public comment drafts have been incorporated into this action. The Metropolitan Council Transportation Committee took action to recommend acceptance of the staff review of the CIP on January 9, 2023, pending TAB's acceptance.

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 7th, 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	Runway 12L-30R and 4-22 Intersection Reconstruction	\$15,000,000
MSP	End of Life/ Replacement Projects	Taxiway P Pavement Reconstruction	\$11,000,000
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	\$13,000,000
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
MSP	MSP Tenant Projects	Concourse and Gatehold Modernization	\$23,800,000

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 are consistent with the Transportation Policy Plan (TPP). Many of the MSP projects were evaluated in the 2020 environmental assessment 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 does 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.



After the December TAB meeting was cancelled, the Metropolitan Council Transportation Committee took action to recommend acceptance of the staff review of the CIP on January 9, 2023, pending TAB's acceptance.

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	January 18, 2023
Metropolitan Council Transportation Committee	Review & Recommend	January 9, 2023
Metropolitan Council	Review & or Adopt	January 25, 2023



MAC 2023 – 2029 Capital Improvement Program

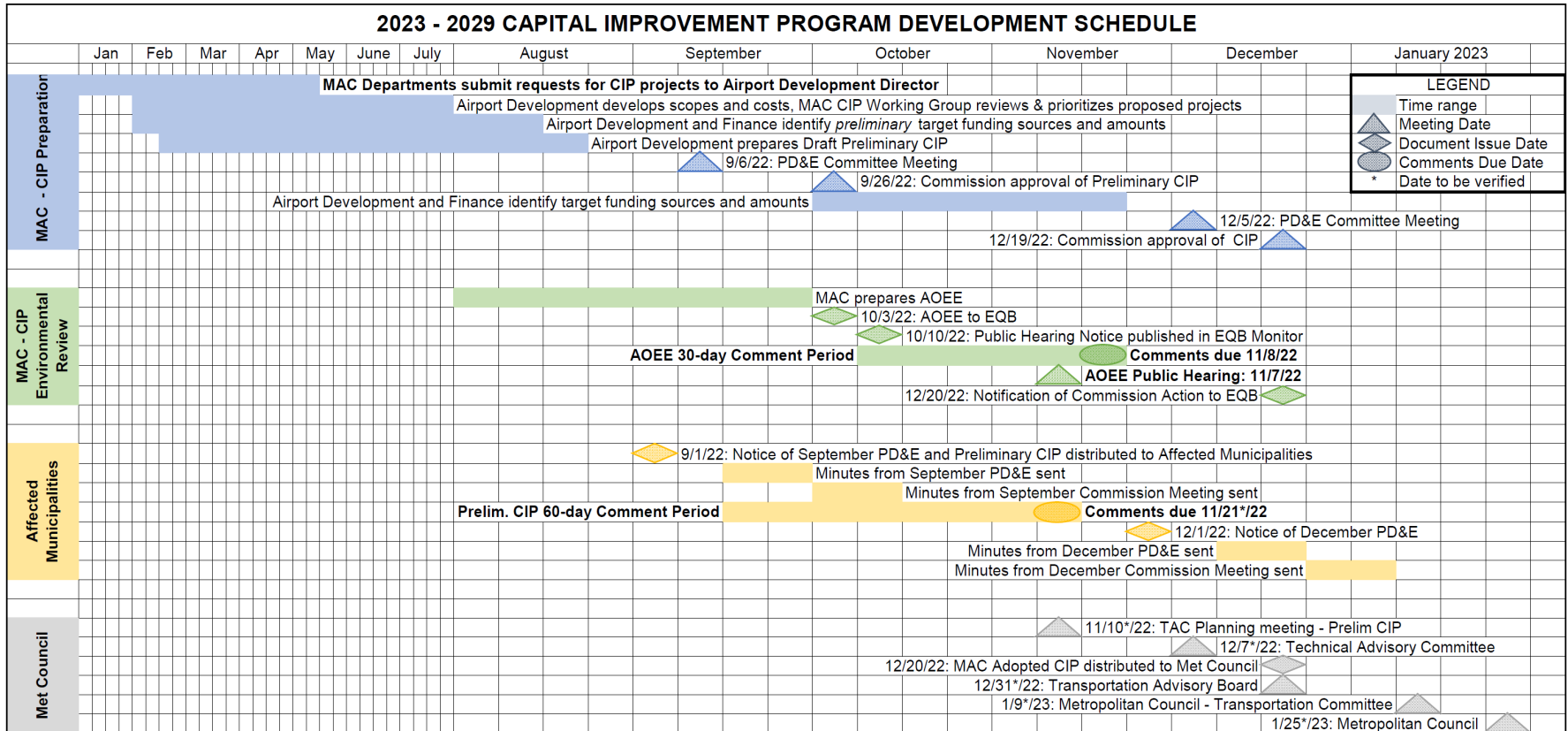
The MAC 2023 – 2029 Capital Improvement Program material included in this memorandum reflects the actions of the Metropolitan Airports Commission’s Planning, Development and Environment (PD&E) Committee on Sep. 6, 2022. Final action by the Commission is expected at their December 19, 2022 meeting. Any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

- The Transportation Advisory Board meeting was rescheduled to January 19 because of inclement weather in December
- 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)
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 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

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
No EA or EIS Required for 2023 Projects	MSP 2020 Environmental Assessment findings 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

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
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
	10 - Terminal 1							
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	
	13 - Energy Management Center							
5	Concourse E and F Bridge Heating and Cooling System Replacement	\$2,500,000	\$2,200,000	\$1,800,000				
7	EMC Boiler and Chiller Replacement Study	\$245,000						
3	GTC Dual-temperature Pump Improvements	\$1,800,000						
3	Variable Air Volume (VAV) Box Replacement	\$1,900,000	\$1,900,000		\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
	21 - Field and Runway							
6	30L Deicing Pad Expansion						\$20,000,000	
2	30L Deicing Pad Reconstruction	\$10,000,000		\$10,000,000		\$15,000,000		
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	\$10,000,000	\$16,250,000	\$13,500,000	\$10,500,000			
2	Runway 12L-30R Reconstruction							\$25,000,000
2	Runway 12L-30R and 4-22 Intersection Reconstruction	\$15,000,000						
2	Taxiway A Pavement Reconstruction				\$4,200,000			
2	Taxiway B Pavement Reconstruction	\$4,200,000	\$3,750,000	\$7,500,000				
2	Taxiway C Pavement Reconstruction					\$9,500,000		
2	Taxiway D Pavement Reconstruction		\$2,000,000					
2	Taxiway H Pavement Reconstruction						\$6,000,000	
2	Taxiway J Pavement Reconstruction						\$7,000,000	
2	Taxiway P Pavement Reconstruction	\$11,000,000						
2	Taxiway R Pavement Reconstruction						\$8,500,000	
	26 - Terminal Roads/Landside							
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					
	31 – Parking							
5	Parking Ramp Snow Melter Replacement/Upgrades		\$1,350,000	\$1,350,000				
	36 - Terminal 2							
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				

NOTES	MSP End of Life/Replacement Projects Continued	2023	2024	2025	2026	2027	2028	2029
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39 – Public Areas/Roads							
2	East 62nd Street Reconstruction						\$3,900,000
2	East 70th Street Reconstruction		\$2,400,000				
2	Post Road Reconstruction Project				\$5,000,000		
56 – Trades/Maintenance Buildings							
6	MSP Liquid Deicer Storage Facility	\$11,200,000					
66 – Fire							
5	Fire Alarm System Transition	\$1,500,000	\$2,000,000	\$1,200,000	\$1,000,000	\$1,200,000	
70 – General Office/Administration							
3	GO Building Variable Air Volume (VAV) Replacement and Upgrade			\$2,000,000			
MSP End of Life/Replacement Projects Subtotal		\$90,495,000	\$44,475,000	\$72,030,000	\$335,500,000	\$344,600,000	\$305,500,000
MSP IT Projects							
10 - Terminal 1							
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
5	Telecom Room Equipment Continuity (TREC)		\$1,510,000				
63 - Police							
5	Card Access Modifications		\$2,500,000		\$2,800,000		\$2,500,000
MSP IT Projects Subtotal		\$10,850,000	\$14,210,000	\$10,000,000	\$13,800,000	\$11,000,000	\$14,500,000

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 Long Term Comprehensive Plan Projects	2023	2024	2025	2026	2027	2028	2029
	10 - Terminal 1							
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	\$500,000						
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	
	21 - Field and Runway							
7	NAVAIDs Study for North Campus Development	\$350,000						
1	Runway 30R Parallel Taxiway				\$12,000,000	\$10,000,000	\$14,000,000	
	36 - Terminal 2							
7	Long Term Plan Projects (fees)			\$1,000,000				
1	Terminal 2 North Gate Expansion		\$195,000,000					
	MSP Long Term Comprehensive Plan Projects Subtotal	\$72,025,000	\$562,500,000	\$3,000,000	\$13,000,000	\$25,000,000	\$15,000,000	\$14,000,000

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NOTES	MSP Maintenance/Facility Upgrade Projects	2023	2024	2025	2026	2027	2028	2029
	10 - Terminal 1							
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	\$670,000	\$1,260,000	\$1,110,000	\$1,810,000	\$1,685,000	\$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	\$3,200,000	\$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)	\$1,300,000	\$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
	13 - Energy Management Center							
4	Chiller Plant Optimization		\$3,000,000					
4	Energy Savings Program	\$2,600,000		\$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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- 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, continued	2023	2024	2025	2026	2027	2028	2029
	21 – Field and Runway							
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	\$1,700,000	\$1,500,000	\$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	
	26 – Terminal Roads/Landside							
2	Tunnel Approaches Reconstruction	\$2,600,000						
	31 – Parking							
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				
	36 - Terminal 2							
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
	39 - Public Areas/Roads							
2	34 th Avenue Bus Area Reconstruction		\$800,000					
2	34 th Avenue Reconstruction				\$7,800,000	\$7,800,000		
2	34 th Avenue Sanitary Sewer Replacement				\$2,200,000			
3	34 th Avenue Traffic Control Improvements		\$200,000					
2	Diverging Diamond Intersection Rehabilitation					\$380,000		
4	Highway 494 Terminal and Airline Signs	\$150,000						
2	Taxi Cab Holding Lot Rehabilitation for Cell Phone Lot	\$650,000						
2	Terminal 1 Ground Transportation Modifications	\$1,240,000						
2	Terminal 1 Inbound Roadway Median Improvements					\$3,300,000		
4	Tunnel Fan Replacement		\$4,700,000	\$6,800,000				
	46 - Hangars and Other Buildings							
6	MAC Storage Facility		\$30,000,000					
6	Safety and Security Center		\$150,000,000					
	56 - Trades/Maintenance Buildings							
6	South Field Maintenance Building Wash Bay		\$3,500,000					
	63 - Police							
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			
	66 - Fire							
5	Campus Fire Protection		\$2,400,000		\$3,400,000		\$1,900,000	\$3,500,000
	76 - Environment							
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					
	MSP Maintenance/Facility Upgrade Projects Subtotal	\$44,515,000	\$263,310,000	\$180,220,000	\$45,750,000	\$139,835,000	\$22,300,000	\$62,200,000

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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				
	MSP Ongoing Maintenance Programs							
	10 - Terminal 1							
4	Air Handling Unit Replacement	\$13,000,000	\$2,000,000	\$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	\$10,000,000	\$10,000,000	\$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
	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
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
	21 - Field and Runway							
2	Airside Electrical Construction	\$2,500,000	\$2,000,000	\$4,500,000	\$2,500,000	\$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	\$1,200,000	\$1,200,000
2	Miscellaneous Airfield Construction	\$1,500,000	\$3,500,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
2	Pavement Joint Sealing/Repair	\$800,000	\$800,000	\$800,000	\$800,000	\$1,000,000	\$1,000,000	\$1,000,000
	26 - Terminal Roads/Landside							
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
	31 - Parking							
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
39 - Public Areas/Roads								
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
46 - Hangars and Other Buildings								
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
56 - Trades/Maintenance Buildings								
4	Sump Pump Controls		\$4,000,000	\$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		\$59,500,000	\$63,570,000	\$69,570,000	\$68,370,000	\$54,420,000	\$45,550,000	\$44,800,000
MSP Tenant Projects								
10 - Terminal 1								
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				
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	\$2,500,000					
31 - Parking								
4	Rental Car EV Charging Infrastructure	\$1,500,000						
36 - Terminal 2								
6	Terminal 2 Concessions Development	\$2,800,000						
39 - Public Areas / Roads								
2	Tenant Parking Lot Reconstruction			\$2,900,000				
46 - Hangars and Other Buildings								
7, 6	Ground Service Equipment (GSE) Maintenance Facility	\$200,000					\$2,000,000	
MSP Tenant Projects Subtotal		\$32,600,000	\$88,300,000	\$81,200,000	\$200,000	\$200,000	\$3,200,000	\$200,000

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NOTES	Reliever Airports Long Term Comprehensive Plan (LTCP) Projects	2023	2024	2025	2026	2027	2028	2029
	81 - St. Paul							
7	STP Airport Layout Plan	\$500,000						
7	STP Environmental Review			\$800,000				
7	STP Long Term Comprehensive Plan	\$800,000						
	82 - Lake Elmo							
7	21D Airport Layout Plan		\$100,000					
7	21D Long Term Comp Plan							\$500,000
	83 - Airlake							
7	LVN Airport Layout Plan			\$100,000				
7	LVN Long Term Comp Plan							\$500,000
1	LVN Runway 12-30 Improvements		\$4,400,000					
	84 - Flying Cloud							
7	FCM Environmental Review		\$800,000					
10	FCM Purchase and Demolition of Hangars	\$1,300,000						
6	FCM South Building Area Utilities				\$800,000			
	85 - Crystal							
7	MIC Airport Layout Plan	\$100,000						
7	MIC Long Term Comp Plan						\$500,000	
	86 - Anoka County - Blaine							
7	ANE Airport Layout Plan		\$500,000					
6	ANE Building Area Development - Xylite St. Relocation			\$1,000,000				
7	ANE Long Term Comprehensive Plan Update		\$800,000					
	Reliever Airports LTCP Projects Subtotal	\$2,700,000	\$6,600,000	\$1,900,000	\$800,000	\$0	\$500,000	\$1,000,000

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NOTES	Reliever Airports Maintenance/Facility Upgrade Projects	2023	2024	2025	2026	2027	2028	2029
	80 - Reliever Airports							
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				
	81 - St. Paul							
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						
	82 - Lake Elmo							
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					
	83 - Airlake							
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					
	84 - Flying Cloud							
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			
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					
85 -Crystal								
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					
86 - Anoka County - Blaine								
3	ANE AWOS Replacement	\$100,000						
10	ANE Building Demolition	\$230,000						
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					
Reliever Airports Maintenance/Facility Upgrade Projects Subtotal		\$7,980,000	\$30,875,000	\$20,250,000	\$12,900,000	\$19,750,000	\$5,650,000	\$5,600,000
MSP Subtotal		\$310,485,000	\$1,037,365,000	\$416,520,000	\$476,620,000	\$575,055,000	\$406,050,000	\$169,200,000
Reliever Subtotal		\$10,680,000	\$37,475,000	\$22,150,000	\$13,700,000	\$19,750,000	\$6,150,000	\$6,600,000
Total		\$321,165,000	\$1,074,840,000	\$438,670,000	\$490,320,000	\$594,805,000	\$412,200,000	\$175,800,000

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