

APPENDIX E:

CAPITAL NEEDS SUMMARY

Milwaukee Area Technical College
 Facility Master Plan
 Downtown Campus

	<i>Building A</i>	<i>Foundation Hall</i>
Comments:	<i>Building to be replaced</i>	
ARCHITECTURAL	Roof Repair Flooring Repairs Lighting Repairs	North Structural Wall Repair Ceiling Repairs Lighting Repairs Flooring Repairs Interior Wall Repairs
HVAC	Air Handling Unit Replacement Ductwork Replacement w/ Original VAV Terminals Exhaust System Replacement Heating Equipment/Piping Replacement Chilled Water Equipment/Piping Replacement Temperature Control System Replacement	Air Handling Unit Replacement Ductwork / Distribution System Replacement Exhaust System Replacement Heating Equipment/Piping Replacement Chilled Water Equipment/Piping Replacement Temperature Control System Replacement
PLUMBING	Water/Waste Plumbing Replacement Water Heater System Replacement Fire Sprinkler Installation Service Sink Replacement Sanitary/Sewer System (Backup during rain)	Water/Waste Plumbing Replacement Water Heater System Replacement Fire Sprinkler Installation Plumbing Fixture Replacement
ELECTRICAL	Surge protection devices installation (at panel boards) Emergency generator installation (for non-life safety loads) and related exit and emergency lighting T8 lamp and electric ballast replacement	Surge protection devices installation (at panelboards) Branch circuit wiring replacement Emergency power generator installation w/ related exit and emergency lighting

Milwaukee Area Technical College
 Facility Master Plan
 Downtown Campus

	<i>Building C</i>	<i>Building F</i>	<i>Blue Hole - Transfer</i>
Comments:		<i>Interested in selling due to ADA - move services elsewhere</i>	
ARCHITECTURAL	Partial Roof Replacement Partial Coping/Flashing/Sealant Replacement Window Replacement	Ceiling Repairs Lighting Repairs Flooring Repairs Interior Wall Repairs	No major capital project
HVAC	Air Handling Unit Replacement Ductwork Replacement Exhaust System Replacement Heating Equipment/Piping Replacement Unit Ventilator Equipment Temperature Control System Replacement	Air Handling Unit Replacement Unit Ventilator Replacement Ductwork Replacement Exhaust System Replacement Heating Equipment/Piping Replacement Temperature Control System Replacement	No major capital project
PLUMBING	Water/Waste Plumbing Replacement Water Heater System Replacement Fire Sprinkler Installation Service Sink Replacement	Water/Waste Plumbing Replacement Water Heater System Replacement Fire Sprinkler Installation Plumbing Fixture Replacement	No major capital project
ELECTRICAL	Surge protection devices installation (at panelboards) Partial panelboards replacement Partial branch circuit wiring replacement Emergency power generator replacement (2 generators) w/ related exit and emergency lighting	Surge protection devices installation (at panelboards) Branch Distribution System Replacement Emergency power generator installation w/ related exit and emergency lighting Fire Alarm System Replacement T8 lamp and electric ballast replacement	Surge Protection device installation at panelboards

Milwaukee Area Technical College
 Facility Master Plan
 Downtown Campus

	<i>Building H</i>	<i>Building M</i>	<i>Building T</i>
Comments:			
ARCHITECTURAL	No major capital project	Roof Replacement Partial Coping/Flashing/Sealant Replacement Window Repair/Replacement Building Settlement (west and east side of building) Prevention	Roof Repair/Replacement Parapet/Flashing/Sealant Replacement Exterior wall repair Some exterior window replacement Door Replacement Ceiling Replacement Flooring Replacement Lighting Replacement
HVAC	Temperature Control System Replacement	Air Handling Unit Replacement Ductwork Replacement Exhaust System Replacement Heating Equipment/Piping Replacement	Air Handling Unit Replacement (Partial) VAV terminal unit replacement Ductwork Replacement Exhaust System Replacement Heating Equipment/Piping Replacement Air cooled condensing unit replacement Temperature control system replacement
PLUMBING	No capital projects	Water/Waste Plumbing Replacement Sanitary/Sewer System (Backup during rain up to 1st floor, sub-basement flooding) Water Heater System Replacement Fire Sprinkler Installation	Domestic Water System Replacement Water Heater/Piping Replacement Fire Sprinkler Installation
ELECTRICAL	Surge protection devices installation (at panelboards) Fire Alarm System ADA upgrade / repair	Panelboards replacement (locally) Surge protection devices installation (at panelboards) Ground fault/surge protection devices installation (at switchboards) Branch circuit wiring replacement Emergency power system upgrades (new natural gas generator) Limited substation replacement (to correct ADA violations) T8 lamp and electric ballast replacement Exit and emergency lighting replacement (connect to generator) Fire alarm system ADA upgrades / repairs	Surge protection devices installation (at panelboards) Branch circuit wiring replacement Emergency power system upgrades (new natural gas generator) Fire Alarm System Upgrades Limited substation replacement (to correct code violations) Partial panelboards replacement T8 lamp and electric ballast replacement

Milwaukee Area Technical College
 Facility Master Plan
 Downtown Campus

	<i>Building S</i>	<i>MEC - South</i>	<i>Storage Building</i>
Comments:			
ARCHITECTURAL	Roof Repair Façade Repair (Masonry & Stone) Building Envelope / Curtain wall leaks Ceiling Repairs Replace exterior glazing w/ more energy efficient	Flooring Replacement Lighting Replacement	Partial Roof Repair Window Replacement Lighting Repairs Interior Wall Repair Partial Door Replacement
HVAC	Steam and hot water system replacement Temperature control system replacement	Steam propeller unit replacement Ductwork Replacement (Partial) Exhaust System Replacement Heating Equipment/Piping Replacement Temperature control system replacement	No capital projects
PLUMBING	Waste Water Piping Replacement	Domestic Water Piping Replacement Plumbing Fixture Replacement	No capital projects
ELECTRICAL	Surge protection devices installation (at panelboards) Emergency power system upgrades (new natural gas generator) Fire alarm system upgrades	Ground fault/surge protection devices installation (at switchboards) Panelboards Replacement Fire Alarm System Replacement Limited switchboard replacement (to correct ADA violations) Emergency power replacement including new generator T8 lamp and electric ballast replacement	Fire Alarm System Installation Building Security System Installation Panelboards replacement Surge protection installation at panelboards Exit and emergency lighting installation Lighting system replacement

Milwaukee Area Technical College
 Facility Master Plan
 Downtown Campus

	<i>Student Annex Bookstore</i>	<i>Union 212 Building</i>	<i>Auction Building</i>
Comments:			
ARCHITECTURAL	No capital projects	Partial Roof Repair Ramp and Stair Repair	Exterior CMU Wall Repairs Window Replacement
HVAC	No capital projects	No capital projects	No assessment performed
PLUMBING	No capital projects	No capital projects	No assessment performed
ELECTRICAL	Switchboard Replacement Surge protection devices installation (at panelboards) Second-floor panelboards replacement Emergency generator installation w/ related exit and emergency lighting	Surge protection devices installation (at panelboards) Fire Alarm System Installation (to replace existing)	No assessment performed

Milwaukee Area Technical College
 Facility Master Plan
 Mequon Campus

	<i>Main Building</i>	<i>Barn/Shed</i>
Comments:		<i>Can be used for storage only</i>
ARCHITECTURAL	Roof Repair Parapet/Flashing/Sealant Repair Ceiling Repairs Window Replacement Façade Repairs	Roof Replacement Façade Repairs Exterior Door Replacement Window Repairs Interior Door Repairs Wall Repairs Ceiling Repairs Flooring Repairs Lighting Repairs
HVAC	Air Handling Unit Replacement Ductwork Replacement including original VAV terminals Exhaust System Replacement Boiler Equipment/Piping Replacement Cooling Plant/Piping Repairs (Replacement of oversized chiller) Temperature Control System Replacement	
PLUMBING	Fire Sprinkler Installation Domestic Hot Water Circulating Pump Replacement Service Sink Replacement	
ELECTRICAL	Switchboard/Substation Replacement Surge protection devices installation (at panelboards) Fire Alarm system upgrade	Electric Panelboard Replacement Fire Alarm System Installation Exit and Emergency Lighting Installation

Milwaukee Area Technical College
 Facility Master Plan
 Oak Creek Campus

	<i>Building A/B/C (Main Building)</i>	<i>E-CAM</i>	<i>Aviation Center</i>
Comments:			
ARCHITECTURAL	Partial Roof Repair/Replacement Parapet/Flashing/Sealant Repair Partial Ceiling Repairs Partial Window Replacement	No major capital project	Local Foundation Repairs
HVAC	Air Handling Unit Replacement Ductwork Replacement VAV Terminal Unit Replacement Exhaust System Replacement Heating Water Pumps/Piping Replacement Chilled Water Piping Replacement Outdoor Condensing Unit Replacement Temperature Control System Replacement	No major capital project	Air Handling Unit Replacement Ductwork Replacement Temperature Control System Replacement Exhaust System Replacement Heating Water Piping Replacement Outdoor Condensing Unit Replacement
PLUMBING	Domestic Water System Replacement Water Heater Replacement Service Sink Replacement	Water Heater System Replacement	Domestic Water System Replacement Plumbing Fixture Replacement Fire Sprinkler Installation Water Heater System Replacement
ELECTRICAL	Switchboard/Substation Replacement Surge protection devices installation (at panelboards) Building B - Branch Circuit Wiring Replacement Building B - Exit and Emergency Lighting Upgrades to Generator Fire Alarm ADA Upgrades	Surge Protection Installation	Main Distribution Panel Replacement Surge protection devices installation (at panelboards) Emergency Power Generator Installation w/ Related Exit and Emergency Lighting Fire Alarm System Replacement Electronic Access Control System Installation T8 lamp and electric ballast installation

Milwaukee Area Technical College
 Facility Master Plan
 West Allis Campus

	<i>Main Building</i>	<i>Building A</i>	<i>Children's Center</i>	<i>Funeral Services</i>
Comments:				
ARCHITECTURAL	Partial Roof Replacement Parapet/Flashing/Sealant Repair Façade Repairs Window Replacement Partial Ceiling Repairs	Roof Repairs Flashing Repair Façade Repairs Partial Ceiling Repairs Interior Wall Repairs Lighting System Replacement	Local Foundation Repairs	All new / recently constructed
HVAC	Air Handling Unit Replacement (Except for Building Addition) Ductwork Replacement (Except for Building Addition) VAV Terminal Unit Replacement (Except for Exhaust System Replacement (Except for Building Addition) Heating Equipment/Piping Replacement Chilled Water Piping Replacement Outdoor Condensing Unit Replacement Staging Tank for Cooling Tower - Replacement Temperature Control System Replacement	Air Handling Unit Replacement Ductwork Replacement Exhaust System Replacement Heating Equipment/Piping Replacement Chilled Water Piping Replacement Outdoor Condensing Unit Replacement Temperature Control System Replacement	No major capital projects	All new / recently constructed
PLUMBING	Domestic Water System Replacement (Except for Building Addition) Water Heater System Replacement Service Sink Replacement	Domestic Water System Replacement Sanitary/Sewer System (Backup during rain) Plumbing Fixture Replacement Fire Sprinkler Installation Water Heater Replacement	No major capital projects	All new / recently constructed
ELECTRICAL	120/240 V Single-Phase Panelboard Replacement Partial Substation Replacement Fire Alarm System ADA Upgrade	Surge protection devices installation (at panelboards) T8 lamp and electric ballast installation Fire Alarm System ADA Upgrade	Surge protection devices installation (at panelboards)	Surge protection devices installation (at panelboards)