

COUNTY OF GLENN

Department of General Services- Facilities 453 E. County Road 49 ¹/₂ Willows, CA 95988 Phone: 530-934-6545 <u>Facilities2@countyofglenn.net</u> www.countyofglenn.net

SCOTT H. DEMOSS

County Administrative Officer 525 W. Sycamore St. Suite B1 Willows, CA 95988 Phone: 530-934-6400 Fax: 530-934-6419 gcboard@countyofglenn.net

Addendum #1

Solicitation Description:	Jane Hahn Building ADA Improvements				
Solicitation Opening Date, Time:	Friday, April 14, 2023 at 10:00 a.m.				
Location:	General Services				
	453 E. County Road 49 1/2				
	Willows, CA 95988				
Addendum Number:	001				
Addendum Date:	Friday, April 7, 2023				
Contract:	Joe Bettencourt, Supervising Staff Services Analyst- General Services				
	Ricardo Valdez, Facilities Operation Manager- General Services				
	Facilities2@countyofglenn.net, (530) 934-6545				

Return one properly executed copy of this addendum with bid response or prior to the Bid Opening Date/Time listed above.

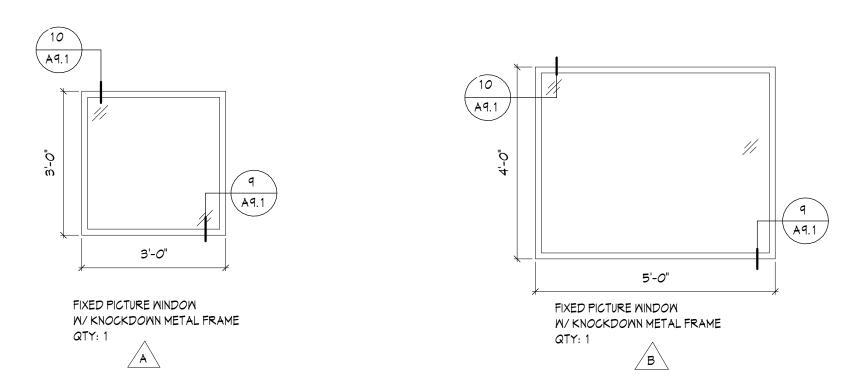
Modification 1: Attachment 1 replaces A2.2 Door & Window Schedule/Interior Elevations of the Plans.

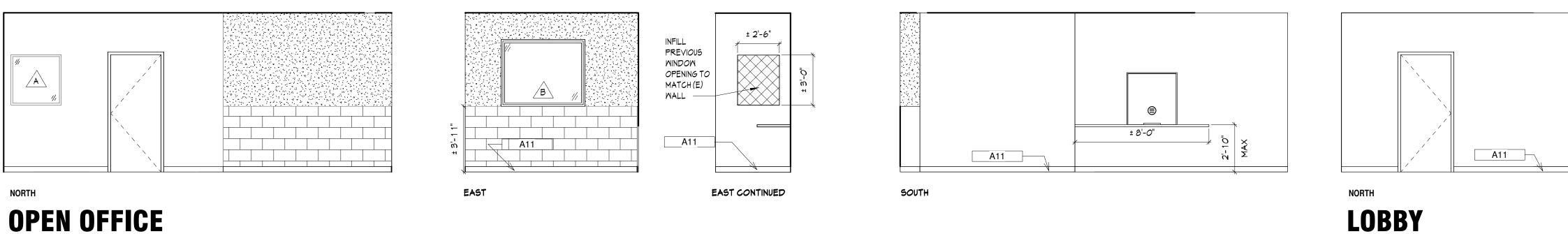
Modification 2: Attachment 2 is added to the Specifications.

This addendum has been emailed to interested vendors as well as posted here: <u>http://www.countyofglenn.net/govt/bids</u>

Failure to acknowledge receipt of this addendum may result in rejection of the response.

WINDOW TYPES







SCALE: 1/4" = 1'-0"

	DOOR SCHEDULE												
Mark	Room	Width	Height	Thickness	Door Material	Door Finish	Door Type	Frame Material	Frame Finish	Frame Type	Fire Rating	Hardware Group	Comments
100	ENTRY	3' - 0"	7' - 0"	0'-13/4"	MTL	FF	D3	ALUM.	FF	F2		C {	
101	LOBBY	3' - 0"	7' - 0"	0'-13/4"	ND	PT	D1	KD	FF	F1		В	
102	RESTROOM	3' - 0"	7' - 0"	0'-13/4"	MD	PT	D2	KD	FF	F1		A	
103	RESTROOM	3' - 0"	7' - 0"	0'-13/4"	MD	PT	D2	KD	FF	F1		A	
104	OPEN OFFICE	3' - 0"	7' - 0"	0'-13/4"	MD	PT	D2	KD	FF	F1		В	
1 <i>0</i> 5	VESTIBULE	3' - 0"	7' - 0"	0'-13/4"	ND	₽T	D2	KD	FF	F1		В	

DOOR LEGEND

DOOR MATERIAL

SC WOOD SOLID CORE -STAIN GRADE WD WOOD SOLID CORE - PAINT GRADE MTL HOLLOW METAL DOOR

HARDWARE GROUPS

<u>GROUP A</u>

- LEVEL HANDLE PER T-24 AND ADA
- WALL MOUNTED DOOR STOP PRIVACY FUNCTION LOCKET
- SELF CLOER
- ACCESSIBLE TOILET ROOM SIGNAGE, SEE DETAIL 1\$2/A4.1
- SILENCERS
- 10" KICK PLATE

<u>GROUP B</u>

• LEVEL HANDLES PER T-24 AND ADA STOREROOM FUNCTION LOCKET

- SELF CLOSER
- WALL MOUNTED DOOR STOP

SILENCER • CARD READER

- ELECTRONIC STRIKE
- <u>GROUP^IC</u>
- M-FORCE SWING DOOR OPERATOR CONFIGURED "LOW ENERGY" PER ANSI A 156.19
- SURFACE MOUNTED INTERIOR MOUNT VISIBLE HEADER CASE IN A STANDARD
- FINISH (CLEAR ANODIZED ALUMINUM) • (1) IQ SERIES CONTROL BOX
- (1) ON-OFF-HOLD OPEN SWITCH, ACTIVATION BY (4)
- WIRELESS 4.5" SQUARE • STAINLESS STEEL PUSH PLATE ACTUATORS IN A "HI~LO'
- SET UP. • TO BE INSTALLED BY CERTIFIED STANLEY INSTALLER
- LEVER HANDLE PER T-24 AND ADA
- ENTRANCE FUNCTION LOCKSET
- PANIC HARDWARE IN THE DIRECTION OF EGRESS • ELECTRONIC STRIKE
- CARD READER
- WEATHERSEALS
- SILENCERS
- FLOOR MOUNTED DOOR STOP • 10" KICK PLATE
- ADA ALUM. THRESHOLD
- PROVIDE REMOTE ELECTRIC STRIKE RELEASE AT RECEPTION COUNTER - LOCATION TO BE DETERMINED BY
- COUNTY

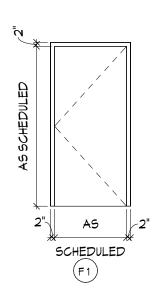
***SUPPLY SUFFICIENT POWER IN ORDER TO OPERATE M-FORCE DOOR OPERATOR

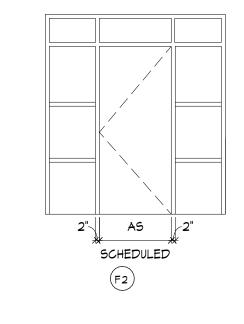
DOOR FINISH PT PAINT STN STAIN FF FACTORY FINISH

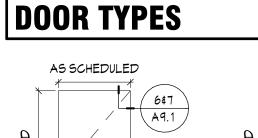
FRAME MATERIAL PMF PRESSED METAL FRAME ALUM. ALUMINUM FRAME

<u>FRAME FINSIH</u> PT PAINT FF FACTORY FINISH

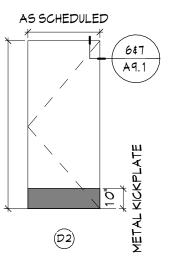
FRAME TYPES



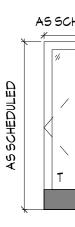


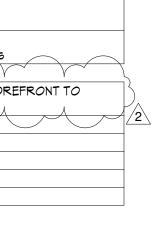


(D1)



SCALE: 1/4" = 1'-0"





GENERAL DOOR NOTES

1. ALL SELF-CLOSING DOORS WITH A LATCH SHALL HAVE REQUIRED DOOR CLEARANCES AT DOORS. PROVIDE MIN 12" STRIKE SIDE CLEARANCE ON PUSH SIDE OF DOORS, PROVIDE MIN 18" STRIKE SIDE CLEARANCE ON PULL SIDE OF INTERIOR DOORS. PROVIDE MIN 24" CLEARANCE ON PULL SIDE OF EXTERIOR DOORS. PROVIDE MIN 48" DEEP CLEAR SPACE IN FRONT OF THE DOOR ON THE PUSH SIDE AND 60" DEEP CLEAR SPACE IN FRONT OF THE DOOR ON THE PULL SIDE.

2. EXCEPT WHERE OTHERWISE DESIGNATED, DOORS SHALL BE PROVIDED AS A COMPLETE ASSEMBLY.

3. EXCEPT WHERE OTHERWISE DESIGNATED WIDTH OF DOOR TO BE MINIMUM 36" PROVIDE REQUIRED 32" NET CLEARANCE BETWEEN FACE OF DOOR AND THE JAMBS.

4. ALL NEW HARDWARE TO MATCH (E) IN MANUFACTURER & FINISH. FIELD VERIFY PRIOR TO BID AND / OR INSTALLATION OF NEW HARDWARE IN EXISTING BUILDINGS.

5. TWO PAIR BUTTS PER DOOR LEAF FOR 8'-0" HIGH DOORS & TALLKER 1-1/2 PAIR BUTTS PER DOOR FOR 7'-0" HIGH DOORS.

6. ALL DOOR FRAMES TO MATCH (E) IN SIZE & FINISH, FIELD VERIFY PRIOR TO BID AND/OR INSTALLATION NOTIFY ARCHITECT OF ANY DISCREPANCIES.

7. ALL DOORS TO BE LEVER ACTIVATED AS TO MEET CALIFORNIA'S T-24 ACCESSIBILITY REQUIREMENTS GUIDELINES.

8. TITLE 24 NOTES:

A. HARDWARE: MAXIMUM EFFORT TO OPERATE DOOR SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR & INTERIOR DOORS, MAXIMUM EFFORT TO OPERATE FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.

B. EXIT DOORS: SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

C. <u>CONSTRUCTION:</u> THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS TO BE OPEND BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDTION DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR.

D. DOOR HARDWARE: TO BE CENTERED BETWEEN 34" MIN AND 44" MAX ABOVE FINISH FLOOR.

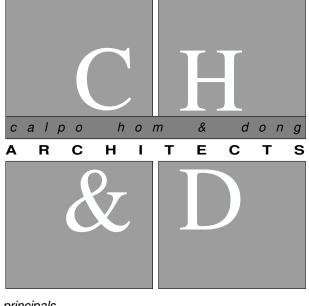
E. <u>CLOSURES:</u> SHALL COMPLY WITH 2019 CBC 11B-404.2.8 DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGRESS FROM LATCH IS 5 SECONDS MINIMUM.

9. PROVIDE T-24 SIGNAGE AT ALL ENTRY REQUIRED LOCATIONS.

A. TACTILE EGRESS SIGNAGE: PROVIDE ON THE EGRESS SIDE OF MAIN ENTRY, EMPOYEE ENTRY, AND DOORS ALONG EGRESS PATH OF TRAVEL SIGNAGE TO BE INSTALLED ADJACENT TO DOOR WIT THE BASELINE OF THE HIEST LINE OF TEXT ON THE SIGN 60" ABOVE THE FINISH FLOOR SIGNAGE TO HAVE CALIFORNIA CONTRACTED GRADE 2 BRAILLE.

B. ISA SIGNAGE: PROVIDE ON THE ENTRANCE SIDE OF MAIN ENTRY, EMPLOYEE ENTRY AND OTHER PUBLIC ACCESSIBLE ENTRANCES, SIGNAGE TO BE INSTALLED ADJACENT TO DOOR WITH THE CENTERLINE OF THE SIGN 60" ABOVE THE FINISH FLOOR.

Attachment 1



principals	
ALAN C. HOM	C16979
DENNIS DONG	C 1 2 1 6 3
ANDY C. KWONG	C 2 6 5 0 0
LOANGLE R. NEWSOME	C 2 2 0 4 8
associates	
KARIN RYLANDER	C 2 2 8 3 6

2120 20TH STREET, SUITE ONE SACRAMENTO, CALIFORNIA 95818 TELE. 916.446.7741 FAX 916.446.0457 Consultant

Project

JANE HAHN ADA IMPROVEMENTS

306 N. VILLA AVE., WILLOWS, CA 95988

Sheet Title

DOOR & WINDOW SCHEDULE / INTERIOR ELEVATIONS

The undersigned architect does not represent that these plans or the specifications in connection there within are suitable, whether or not modified for any other site than the one for which they were specifically prepared. The architect disclaims responsibility for these plans and specifications if they are used in whole or in part at any other site.

The contractor shall verify and be responsible for all dimensions and conditions on the job and this office must be notified in writing of any variation from the dimensions and conditions shown by these drawings.

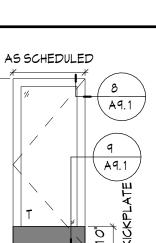
These drawings are not final or to be used for construction until signed by the architect and owner.

All drawings and written material appearing herein constitute the original and unpublished work of the Architect and the same may not be duplicated, used or disclosed without written consent of the Architect.



Architect	ANDY K	WONG			
Drawn By	K.REYES / EC				
Revisions					
NO.	Date	Description			
3	4/7/23	ADDENDUM 1			
À	3/22/23	BID ADJUSTMENT			
	3/3/23	PC COMMENTS			
	12/20/22	PLAN SUBMISSION			
Job No.	22031				
Date:	JULY 20	22			

A2.2



Σ

SEE DETAIL ⊜ 12/A9.1 3'-6"

INTERIOR TENANT IMPROVEMENT FOR JANE HAHN ADA IMPROVEMENTS

Attachment 2 WILLOWS, CA 95988

AUTOMATIC DOOR OPERATORS

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SECTION 08 71 13 AUTOMATIC DOOR OPERATORS

Stanley Access Technologies – M-Force Operator (Low Energy)

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
 - A. This Section includes the following types of automatic door operators:
 - 1. Exterior and interior, automatic door operators, low energy, with visible header mounting.
 - 2. Automatic door operators shall be configured for doors as follows:
 - a. Simultaneous pairs.
 - b. Simultaneous pairs, with single operator.
 - c. Single doors.
 - B. Related Sections:
 - 1. Division 8 Section "Doors and Frames" for entrances furnished and installed separately in Division 8 Section.
 - 2. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for entrances furnished and installed separately in Division 8 Section.
 - 3. Division 8 Section "Door Hardware" for hardware to the extent not specified in this Section.
 - 4. Division 26 Sections for electrical connections provided separately including conduit and wiring for power to, and control of, automatic door operators.

1.3 REFERENCES

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
- B. Underwriters Laboratories (UL):
 - 1. UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.
 - 2. UL 10C Positive Pressure Fire Tests of Door Assemblies
- C. American National Standards Institute (ANSI)/Builders' Hardware Manufacturers Association (BHMA):
 - 1. ANSI/BHMA A156.10: Standard for Power Operated Pedestrian Doors.
 - 2. ANSI/BHMA A156.19: Standard for Power Assist and Low Energy Power Operated Doors.
- D. American Society for Testing and Materials (ASTM):

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AUTOMATIC DOOR OPERATORS

- 1. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- 2. ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- E. American Association of Automatic Door Manufacturers (AAADM):
- F. National Fire Protection Association (NFPA):
 - 1. NFPA 101 Life Safety Code.
 - 2. NFPA 70 National Electric Code.
- G. International Code Council (ICC):
 1. IBC: International Building Code
- H. Building Officials and Code Administrators International (BOCA), 1999:
- I. International Standards Organization (ISO):
 - 1. ISO 9001 Standard for Manufacturing Quality Management Systems
 - 2. ISO 14025 Environmental Labels and Declarations -- Type III Environmental Declarations -- Principles and Procedures
 - 3. ISO14040 Environmental Management -- Life Cycle Assessment -- Principles and Framework
 - 4. ISO 14044 Environmental Management -- Life Cycle Assessment -- Requirements and Guidelines
 - 5. ISO 21930 Sustainability in Buildings and Civil Engineering Works -- Core Rules For Environmental Product Declarations Of Construction Products And Services
- J. National Association of Architectural Metal Manufacturers (NAAMM):
 1. Metal Finishes Manual for Architectural and Metal Products.
- K. American Architectural Manufacturers Association (AAMA):
 1. AAMA 607.1 Clear Anodic Finishes for Architectural Aluminum.
- L. United Nations Central Product Classification (UNCPC):
 - 1. UNCPC 4212 Product Category Rules for Preparing an Environmental Product Declaration for Power-Operated Pedestrian Doors and Revolving Doors

1.4 DEFINITIONS

- A. Activation Device: Device that, when actuated, sends an electrical signal to the door operator to open the door.
- B. Knowing act: Consciously initiating the opening of a power operated door using acceptable methods including wall mounted switches such as push plates and controlled access devices such as keypads, card readers and key switches.
- 1.5 PERFORMANCE REQUIREMENTS
 - A. General: Provide automatic door operators capable of withstanding loads and thermal movements based on testing manufacturer's standard units in assemblies similar to those

indicated for this Project.

- B. Operating Range: Minus 30 deg F (Minus 34 deg C) to 130 deg F (54 deg C).
- C. Opening-Force Requirements for Egress Doors: In the event of power failure to the operator, swinging automatic entrance doors shall open with a manual force, not to exceed 30 lbf (133 N) to set door in motion, and not more than 15 lbf to fully open the door. Forces shall be applied at 1" (25 mm) from the latch edge of the door.

1.6 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 submittal procedures.
- B. Shop Drawings: Include plans, elevations, sections, details, hardware mounting heights, and attachments to other work. Indicate wiring for electrical supply.
- C. Color Samples for selection of factory-applied color finishes.
- D. Closeout Submittals: Provide the following with project close-out documents.
 - 1. Owner's Manual.
 - 2. Warranties.
- E. Reports: Based on evaluation performed by a qualified agency, for automatic door operators.
 - 1. Environmental Product Declaration.
 - 2. Evaluation Report for compliance with IBC.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative, with certificate issued by AAADM, who is trained for installation and maintenance of units required for this Project.
- B. Manufacturer Qualifications: A qualified manufacturer with a manufacturing facility certified under ISO 9001.
- C. Manufacturer shall have in place a national service dispatch center providing 24 hours a day, 7 days a week, emergency call back service.
- D. Certifications: Automatic door operators shall be certified by the manufacturer to meet performance design criteria in accordance with the following standards:
 - 1. ANSI/BHMA A156.10 and A156.19.
 - 2. NFPA 101.
 - 3. UL 325 Listed.
 - 4. UL 10C Listed.
 - 5. IBC 2018.
 - 6. BOCA.
- E. Environmental Product Declaration (EPD): EPD for automatic door operators shall be certified by the manufacturer to comply with the following:
 - 1. Prepared under Product Category Rule (PCR) UNCPC 4212.
 - 2. Conform to ISO standards 14025, 14040, 14044, 21930.
 - 3. Life Cycle Assessment Basis: Cradle to Gate, minimum.
- F. Source Limitations: Obtain automatic door operators through one source from a single manufacturer.

- G. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of swinging doors equipped with automatic door operators and are based on the specific system indicated. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- H. Power Operated Door Standard: ANSI/BHMA A156.19.
- I. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- J. Emergency-Exit Door Requirements: Comply with requirements of authorities having jurisdiction for swinging automatic entrance doors serving as a required means of egress.

1.8 PROJECT CONDITIONS

- A. Field Measurements: General Contractor shall verify openings to receive automatic door operators by field measurements before fabrication and indicate measurements on Shop Drawings.
- B. Mounting Surfaces: General Contractor shall verify all surfaces to be plumb, straight and secure; substrates to be of proper dimension and material.
- C. Other trades: General Contractor Advise of any inadequate conditions or equipment.

1.9 COORDINATION

- A. Templates: Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing automatic door operators to comply with indicated requirements.
- B. Electrical System Roughing-in: Coordinate layout and installation of automatic door operators with connections to, power supplies, remote activation devices, and electric door latching hardware.
- C. System Integration: Integrate automatic door operators with other systems as required for a complete working installation. Where required for proper operation, provide a time delay relay to signal automatic door operator to activate only after electric lock system is released.

1.10 WARRANTY

- A. Automatic door operators shall be free of defects in material and workmanship for a period of one (1) year from the date of substantial completion.
- B. During the warranty period the Owner shall engage a factory-trained technician to perform service and affect repairs. A safety inspection shall be performed after each adjustment or repair and a completed inspection form shall be submitted to the Owner.
- C. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal working hours.

PART 2 - PRODUCTS

- 2.1 AUTOMATIC DOOR OPERATORS
 - A. Manufacturer: Stanley Access Technologies; M-Force[™] Series automatic door operator.

2.2 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 1. Headers: 6063-T6.
 - 2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
 - 3. Sheet and Plate: ASTM B 209.

2.3 COMPONENTS

- A. Header Case: Header case shall not exceed 6" (152 mm) square in section and shall be fabricated from extruded aluminum with structurally integrated end caps, designed to conceal door operators and controls. The operator shall be sealed against dust, dirt, and corrosion within the header case. Access to the operator and electronic control box shall be provided by a full-length removable cover, edge rabbetted to the header to ensure a flush fit. Removable cover shall be secured to prevent unauthorized access.
- B. Door Arms: A combination of door arms and linkage shall provide positive control of door through entire swing; units shall permit use of butt hung, center pivot, and offset pivot-hung doors.
- C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, nonbleeding fasteners and accessories compatible with adjacent materials.
- D. Signage: Provide signage in accordance with ANSI/BHMA A156.19.

2.4 SWINGING DOOR OPERATORS

- A. General: Provide door operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated.
- B. Electromechanical Operators: Self-contained unit powered by a minimum 3/16 horsepower, permanent-magnet DC motor; through a high torque reduction gear system.
 - 1. Operation: Power opening and spring closing.
 - 2. Operator Type: Low energy; readily convertible to full energy; no tools required to change type.
 - 3. Handing: Non-handed; no tools required to change handing.
 - 4. Capacity: Rated for door panels weighing up to 700 lb (318 kg).
 - 5. Mounting: Visible
 - 6. Features:
 - a. Adjustable opening and closing speeds.
 - b. Adjustable opening and closing force.
 - c. Adjustable back-check.
 - d. Adjustable hold-open time between 0 and 30 seconds.
 - e. Reverse on obstruction.
 - f. Time delay for electric lock integration.
 - g. Force compensation and closed loop speed control with active braking and acceleration.
 - h. Power Close.
 - i. Slam Protection.

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AUTOMATIC DOOR OPERATORS

- j. Power Assist. k. Lock Release.
- I. Stall Sensor Ignore.
- m. Electronic Coordination.
- n. Optional Switch to open/Switch to close operation.
- o. Optional push to activate operation.
- p. Fire alarm interface, configurable to safely open or close doors on signal from fire alarm system.
- C. Field Adjustable Spring Closing Operation: The operator shall close the door by spring energy employing the motor, as a dynamic brake to provide closing speed control. The closing spring shall be a helical compression spring, adjustable for positive closing action. The spring shall be adjustable, without removing the operator from the header, to accommodate a wide range of field conditions.
- D. Independent Adjustable Closing and Latching Speed Control: The operator shall employ a rheostat module to allow for independent field adjustment of closing and latching speeds using the motor as a dynamic brake.
- E. Field Adjustable Open Stop: The operator shall provide a field adjustable open stop to accommodate opening angles from 80 to 135 degrees without the need for additional components.
- F. Consistent Cycle: The operator shall deliver an even, consistent open manual push force across the entire transition from door fully closed to door fully open. Additionally, the force shall be field adjustable to accommodate a wide range of on-site conditions.
- G. Quiet Performance: The operator shall be designed to output audible noise ratios less than or equal to 50dba.
- H. Manual Use: The operator shall function as a manual door closer in the direction of swing with or without electrical power. The operator shall deliver an even, consistent open force across the entire transition from door fully closed to door fully open.
- I. Electrical service to door operators shall be provided under Division 26 Electrical. Minimum service to be 120 VAC, 5 amps.

2.5 ELECTRICAL CONTROLS

- A. Electrical Control System: Electrical control system shall include a microprocessor controller and a high-resolution position encoder. The encoder shall monitor revolutions of the operator shaft and send signals to microprocessor controller to define door position and speed.
 - 1. The high-resolution encoder shall have a resolution of not less than 1024 counts per revolution. Systems utilizing external magnets and magnetic switches are not acceptable.
 - 2. The electrical control system shall include a 24 VDC auxiliary output rated at 1 amp.
- B. Performance Data: The microprocessor shall collect, and store performance data as follows:
 - 1. Counter: A non-resettable counter to track operating cycles.
 - 2. Event Reporting: Unit shall include non-volatile event and error recording including number of occurrences of events and errors, and cycle count of most recent events and errors.
 - 3. LED Display: Display presenting the current operating state of the controller.
- C. Controller Protection: The microprocessor controller shall incorporate the following features to ensure trouble free operation:

- 1. Automatic Reset Upon Power Up.
- 2. Main Fuse Protection.
- 3. Electronic Surge Protection.
- 4. Internal Power Supply Protection.
- 5. Resetable sensor supply fuse protection.
- 6. Motor Protection, over-current protection.
- D. Power Close: When enabled, engages the operator to close a door that does not close completely at the end of a cycle.
- E. Force Compensation: Utilizing the closed loop speed control, the operator shall maintain constant opening and closing speeds when subjected to excessive outside forces, such as positive or negative stack pressures.
- F. Slam Protection: The operators speed control system prevents door from slamming at the full open or full closed position.
- G. Power Assist: Operator mode that lowers opening forces when the door is used manually. Power assist is active only while pushing or pulling the door. The door will close when an opening force is no longer applied.
- H. Lock Release: On doors with electric locking, operator shall include a closing function to release tension on a latch mechanism prior to opening the door.
- I. Stall Sensor Ignore: Adjustable setting to disable swing side safety sensors at a specific angle.
- J. Electronic Coordination: On pairs of doors, allows independent timing of opening and closing of each leaf as required for astragal coordination.
- K. Soft Start/Stop: A "soft-start" "soft-stop" motor driving circuit shall be provided for smooth normal opening and recycling.
- L. Obstruction Recycle: Provide a system to recycle the swinging panels when an obstruction is encountered during the closing cycle.
- M. Programmable Controller: Microprocessor controller shall be field programmable.
 - The following parameters may be adjusted:
 - a. Operating speeds and forces as required to meet specified ANSI/BHMA standard.
 - b. Adjustable and variable features specified.
 - 2. Manual programming shall be available through local interface which has a two-digit display with a selection control including three push buttons.
- N. Emergency Breakout Switch: A cam actuated emergency breakout switch shall be provided to disconnect power to the motor when an in-swinging door is manually pushed in the emergency out direction. The operator will then automatically reset, and power will be resumed.
- O. Control Switch: Automatic door operators shall be equipped with a three-position function switch to control the operation of the door. Control switch shall provide three modes of operation, Automatic, Off, and Hold-Open.
- P. Power Switch: Automatic door operators shall be equipped with a two position On/Off switch to control power to the door.
- 2.6 ACTIVATION DEVICES

1.

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A. Push Plates: Provide 4 ½ inch (114 mm) square push plates with UL recognized SPDT switch. Face plates and mounting studs shall be stainless steel. Face plates shall be engraved with the international symbol for accessibility and "Push To Open". Push plates shall be wall mounted in single or double gang electrical boxes and hardwired to door operator controls.

2.7 ALUMINUM FINISHES

- A. General: Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designing finishes. Finish designations prefixed by AA comply with the system established by Aluminum Association for designing finishes.
- B. [Class II, Clear Anodic Finish: AA-M12C22A31 Mechanical Finish: as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.40 mils minimum complying with AAMA 611-98, and the following:
 - 1. AAMA 607.1
 - 2. Applicator must be fully compliant with all applicable environmental regulations and permits, including wastewater and heavy metal discharge.]

PART 3 - EXECUTION

- 3.1 INSPECTION
 - A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances, header support, and other conditions affecting performance of swinging automatic entrance doors. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 INSTALLATION
 - A. General: Do not install damaged components. Fit joints to produce hairline joints free of burrs and distortion. Rigidly secure non-movement joints.
 - B. Mounting: Install automatic door operators/headers plumb and true in alignment with established lines and grades. Anchor securely in place.
 - 1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
 - 2. Set headers, arms and linkages level and true to location with anchorage for permanent support.
 - C. Door Operators: Connect door operators to electrical power distribution system as specified in Division 26 Sections.

3.3 FIELD QUALITY CONTROL

A. Testing Services: Factory Trained Installer shall test and inspect each swinging automatic entrance door to determine compliance of installed systems with applicable ANSI standards.

3.4 ADJUSTING

A. Adjust door operators, controls, and hardware for smooth and safe operation, for tight closure, and complying with requirements in ANSI/BHMA A156.19 by AAADM Certified Technician.

- 3.5 CLEANING AND PROTECTION
 - A. Clean surfaces promptly after installation. Remove excess sealant compounds, dirt, and other substances. Repair damaged finish to match original finish.

END OF SECTION 08 71 13