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NOTICE TO CONTRACTORS BID #1314-134 Fuji Park/Fairgrounds Maintenance Building PWP # CC-2014-071

January 13, 2014

Addendum No. 1

Please make the following additions/changes/clarifications to the above referenced project.

1. The date and time for submitting bids has been changed to 11:00 a.m. on Tuesday, January 21, 2014.

The following is based on Request for Information items received by 1/10/14. Answers are provided in blue.

- 2. Include Tech Spec 7010 Finish Hardware as part of the bid document. The City will provide the steel man door knob and lock.
- 3. Include 7006 Metal Doors and Frames new as part of the bid document.
- 4. Instructions To Bidders page 6, section P states "Bidder agrees that he/she will perform work totaling at least Fifty per cent (50%) of the Bid amount and will not subcontract work totaling more than Fifty per cent (50%) of the Bid amount". The percentage that the Bidder agrees to perform shall be reduced to 10%.
- 5. How large is the roof overhang on the building?
 - The building is to not have a gable end or eave overhang. Sheet C4 and C5 of the plans show an overhang which is incorrect and should be ignored.
- 6. Prevailing Wage only needs to be used if the bid goes over \$99,999.99 correct?
 - Prevailing wage will need to be included if the bid exceeds \$90,000.
- 7. The building wind speed is set at 100 MPH, however if 2012 IBC is being used shouldn't the wind speed be increased to the 2012 Code of 115 MPH?

The wind speed shown on the plans is incorrect. The correct wind speed is; Wind Speed – 126 mph (3-gust), with Exposure defaulting to "C" per ASCE 7-10. The maintenance building is to be designed to the latest adopted codes of the Carson City Building Department which can be found at http://www.carson.org/index.aspx?page=2083.

8. Is there a pre- approved list of metal buildings that can be used on this job?

The building needs to be a 40'x42' clear span metal building following the specifications on sheet C4.0 of the plans by RM Steel or approved equal. An "equal" building may be substituted according to GC 4.3.5 of the contract document.

9. Where can we get a soils report on this project?

There will not be a soils report provided for the project.

10. When is the planned release date of the footing plans?

The footing design is a part of the building design and shall be provided by the contractor

11. There is a section of 16" wide type II base but there is no depth.

The depth of the base is shown on sheet C4.0 "Type II Driveway Detail" and is explained in the bid item description for "Type II Base Pad and Driveway" in SC. 4.3.6. The base depth shall be 4".

12. Can any of the removed fence be reused?

Reuse of the existing fence is allowed if it is free from damage. Reuse of the existing fence is explained in the bid item description for "8' Chainlink Fence with Barb Wire" in SC.4.3.4.

13. Is there an approved list of contractors we must be on to bid this job?

You do not need to be on a list of approved contractors to bid on this job. The bidder must possess a minimum of a Class B or AB license.

14. The door is a power roll up door but there are no electrical plans?

There are no electrical plans for this project. Electricity will be brought to the building in a future phase.

Document No. 7010 FINISH HARDWARE

PART 1 - GENERAL

PART 11 DESCRIPTION

- A. Work Included: Provide Finish Hardware where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.
- B. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 01 of these Specifications.
- C. Related Work:
 - 1. Metal Doors and Frames
 - 2. Insulated Steel Rolling Doors

PART 12 QUALITY ASSURANCE

- A. Qualifications of Installers: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Use components produced by manufacturers regularly engaged in the business of manufacturing, installing, and servicing Finish Hardware of the types required by this Section of these Specifications, and with a history of successful production acceptable to the Architect.
- C. Fire Rated Assemblies: Wherever a fire-resistance classification is shown or scheduled for doors and frames, provide fire-rated hardware investigated and tested as a part of fire door assembly. Identify with recognized testing laboratory labels, indicating applicable fire rating of the assembly. Construct assemblies to comply with NFPA Standard No. 89, AIA (NBFU) Pamphlet No. 8 and as herein specified.

PART 13 REFERENCE STANDARDS

- A. A.I.A. (NBFU) Pamphlet No. 80 Fire Rated Openings.
- B. National Fire Protection Association: NFPA Standard No. 80 Fire Rated Openings.
- C. International Building Code: IBC-715.3.3/UL-10C (Positive Pressure and Smoke and Draft Control).
- D. National Builder's Hardware Association: NBHA "Recommended Locations for Builders Hardware"
- E. Americans with Disabilities Act (ADA)

PART 14 SUBMITTALS

A. Submit the following submittals in accordance with the requirements in the General Conditions.

1. Coordinate the submittals required for this section with Section 08100: Metal Doors and Frames.

B. Manufacturer's Data:

- 1. Materials list of items proposed to be provided under this Section.
- 2. Manufacturers' specifications and other data needed to prove compliance with the specified requirements.
- 3. Manufacturers' recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the Work.

C. Shop Drawings:

- Provide Shop Drawings utilizing the same references shown in the Door Schedule. Identify each hardware item by manufacturer, the manufacturer's catalog number, appropriate labels and the location of the item in the Work.
- 2. Contractor shall notify the Architect of any discrepancies or insufficiencies in the Hardware Groups in the Shop Drawings. Submission of the Shop Drawings shall be evidence of the Contractor's representation that the Finish Hardware constitutes a complete and proper installation.
- 3. Approval of the hardware list by the Architect shall not relieve the Contractor from the responsibility for furnishing all required finish hardware.

D. Samples:

1. Provide samples within 15 calendar days if requested by the Architect. Deliver to the Architect one (1) Sample of each finish hardware item requested.

E. Templates:

1. In a timely manner to ensure orderly progress of the Work, deliver templates or physical samples of the approved finish hardware items to pertinent manufacturers of interfacing items such as doors and frames.

PART 15 PRODUCT HANDLING

- A. Packing and Marking: Individually package each unit of finish hardware, complete with proper fastenings and appurtenances, clearly marked on the outside to indicate the contents and specific locations in the Work.
- B. Protection: Use all means necessary to protect materials of this Section before, during, and after delivery to the job site and to protect the work and materials of all other trades.
- C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

PART 16 DELIVERY AND STORAGE

A. Deliver all materials to the job site in their original unopened containers with all labels intact and legible at time of use. Store in strict accordance with the manufacturers' recommendations.

PART 17 WARRANTY

- A. Provide the manufacturer's Standard Warranty for the following components:
 - 1. Closers: 5 year warranty.
 - Hold Opens: 2 year warranty.

PART 2 - PRODUCTS

PART 21 GENERAL

A. Provide Finish Hardware as listed in the Hardware Schedule and as needed for a complete and proper installation.

B. Finish:

1. Finishes of all hardware shall match the finish of the locksets. Take special care to coordinate all of the various manufactured items furnished under this Section, to ensure acceptably uniform finish.

C. Fasteners:

- 1. Furnish all finish hardware with all necessary screw, bolts, and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use.
- 2. Furnish fastenings where necessary with expansion shields, toggle bolts, sex bolts, and other anchors approved by the Architect, according to the material to which the hardware is to be applied and the recommendations of the hardware manufacturer.
- D. Fire Rating: Comply with UL requirements for fire rated openings for all hardware components.
- E. Comply with ADA requirements.

PART 22 LOCKSETS AND LATCHSETS

- A. Acceptable Manufacturers:
 - 1. Best (no substitute)
- B. Provide 35H Series Extra Heavy Duty Commercial mortise mechanisms; lever type.
 - 1. Finish: 626 (US26D), Satin Chromium Plated.
 - 2. Style: Lever Style 3.
 - 3. Escutcheon: Style M.

C. Cylinders:

1. 7 pin unit, High Security Cylinder with interchangeable core with construction master key feature.

D. Padlocks:

1. Provide 14B Series, 7 pin housing.

- 2. Options:
 - a. Dust Cover
 - b. Drain Hole
 - c. Pinned Plug
 - d. Corrosion Resistant
 - e. Deadlocking Type Tumbler
 - f. Security Shield

E. Keying:

- 1. Review the keying system with the Owner and provide the type required (master, grandmaster or great-grandmaster) integrated with Owner's existing system.
- 2. Comply with the Owner's instructions for masterkeying and, except as otherwise indicated, provide individual change key for each lock which is not designated to be keyed alike with a group of related locks.
- 3. Key Quantity: Furnish 3 keys for each lock, 5 keys for each master and grandmaster system and one extra key blank for each lock.
- 4. Key Control: Provide a key control system including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers and permanent markers.

PART 23 HINGES

- A. Acceptable Manufacturers:
 - McKinney
 - 2. Hager
 - Bommer
 - Approved equal.
- B. Provide full mortise hinges with non-removable pins (NRP) at exterior doors.
 - 1. Material:
 - a. Interior Doors: Steel.
 - b. Exterior Doors: Rust proof hinges; stainless steel.
 - c. Wet Areas: Rust proof hinges, stainless steel.
 - 2. Size: 4 1/2" x 4 1/2" unless noted otherwise.
 - 3. Finish:
 - a. Interior: 26D, Dull Chromium.b. Exterior: 32D, Stainless Steel.
- C. Button tips and plugs standard on five knuckle hinges.

D. Where doors are required to swing 180 degrees, furnish hinges of sufficient throw to clear the trim.

PART 24 CLOSERS

- A. Acceptable Manufacturers:
 - LCN Closers
 - 2. Approved equal.
- B. Provide heavy duty; surface mounted closers.
 - 1. Finish: AL, Aluminum.

PART 25 WALL BUMPERS, DOOR STOPS AND HOLDERS

- A. Acceptable Manufacturers:
 - 1. Quality/BBW/Trimco
 - 2. Door Controls, Int. (DCI)
 - 3. Glenn Johnson
 - 4. Approved equal.
- B. Provide Wall Bumpers/Door Stops with concealed attachments at each door. Provide proper type (wall or floor mounted) as applicable for each door. Provide 16 gauge metal backing in walls.
 - 1. Finish: US26D, Dull Chromium.

PART 26 THRESHOLDS AND DOOR BOTTOMS

- A. Acceptable Manufacturers:
 - Pemko
 - 2. Reese
 - Approved equal.
- B. Provide threshold saddle and handicap threshold saddle; extruded aluminum.

PART 27 WEATHERSTRIP

- A. Acceptable Manufacturers:
 - 1. Pemko
 - 2. Reese
 - Approved equal.
- B. Provide extruded aluminum with vinyl bubble weatherstrip.

PART 28 SILENCERS

- A. Provide silencers in all metal door frames, or unless continuous bumper-type weatherstripping is shown or specified.
- B. Provide three (3) silencer units in single door frames, and provide four (4) silencer units in double door frames.
- C. Omit silencers from fire-rated door openings.

PART 29 OTHER MATERIALS

A. All other materials, not specifically described but required for a complete and proper installation, shall be as selected by the Contractor subject to the approval of the Architect.

PART 210 HARDWARE SCHEDULE

A. The Hardware Groups for each door are listed in the Door Schedule.

B. Quantity:

- 1. The Hardware Groups refer to one set of each item except for hinges which require (1-1/2 pair), unless noted otherwise.
- C. Other acceptable manufacturers, or others approved in advance by the Architect, may also be used.
- D. The Contractor shall be responsible for providing products of equal quality and function to those specified in the Hardware Schedule when utilizing a different approved manufacturer.
- E. The following manufacturers are listed in the Hardware Schedule unless noted otherwise.

Locksets & Latches: Best

2. Hinges: McKinney

Closers: LCN

4. Wall Bumpers: Trimco

5. Threshold: Pemko

6. Weatherstrip: Pemko

F. Hardware Groups:

HW-1 NOTES

 Lockset
 34H-7AW0-3-M

 Hinges
 T4-B3786

 Closer
 4014

 Threshold
 R.50 SMRA

Weatherstrip 303AV

Door Bottom 210AV

PART 3 - EXECUTION

PART 3.1 INSPECTION

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Coordinate with Electrical to verify that all electrical connections for hardware are provided as required for a complete and proper installation.

PART 32 INSTALLATION

- A. Mount hardware units at heights recommended in "Recommended Locations for Builders' Hardware" by NBHA, except as otherwise specifically indicated or required to comply with governing regulation, and except as may be otherwise directed by the Architect.
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Closers shall be mounted as directed by the Architect.
- C. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item. Do not install surface-mounted items until finishes have been completed on the substrate.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Cut and fit threshold and floor covers to profile of door frames, with mitered corners and hair-line joints. Joint units with concealed welds or concealed mechanical joints. Cut smooth openings for spindles, bolts and similar items, if any.
- G. Screw thresholds to substrate with No. 10 or larger screws, of the proper type for permanent anchorage and of bronze or stainless steel which will not corrode in contact with the threshold metal.
 - 1. On heavy-duty cast metal thresholds, provide not less than 3/8" diameter screw anchors.
- H. At exterior doors, and elsewhere as indicated, set thresholds in a bed of either butyl rubber sealant or polyisobutylene mastic sealant to completely fill concealed voids and exclude moisture from every source. Do not plug drainage holes or block weeps. Remove excess sealant.
- I. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Lubricate moving parts with type lubrication recommended by manufacturer (graphite-type if no other recommended). Replace units which cannot be adjusted and lubricated to operate freely and smoothly as intended for the application made.
- J. Adjust finish hardware for smooth operation. Adjust closers for proper tension such that the latch engages without undo force.

K. Key System:

 At the time of final acceptance of the Work, void the construction key system and, in the presence of the Architect, demonstrate that the specified keying system is operating properly. 2. Transmit the Keys, Master Keys and Key Control System to the Owner with an accurate transmittal of items submitted.

PART 33 CLEANING AND PROTECTION

- A. Remove paint splatters and overspray from finish hardware.
- B. In addition to other stipulated requirements for cleaning, completely remove finger prints and traces of soil from surfaces of exposed portions, using only those cleaning materials recommended.

PART 34 DEMONSTRATION AND TESTING

- A. Test, clean and adjust equipment and apparatus installed, to ensure performance will meet the intent of these specifications. The operation shall be tested in the presence of the Architect.
 - 1. Adjust and re-test any finish hardware not meeting requirements.

PART 35 OPERATION AND MAINTENANCE

- A. Operation Manuals: Provide complete Operation and Maintenance Manuals per the requirements in the General Conditions. They shall include:
 - 1. Complete list of original manufacturer's parts supplied.
 - 2. Manufacturer's printed operation and maintenance literature.

B. Training:

1. Verbally and physically instruct the Owner in the operation of all materials and systems per the requirements in the General Conditions.

END OF SECTION

Document No. 7006 METAL DOORS AND FRAMES (12/10/09)

<u>10.1.1</u> Scope:

This section covers doors and frames to be used in exterior walls. Doors shall be provided complete with required finish hardware.

10.1.2 General:

<u>10.1.2.1</u> Description:

- A. Work Included: Provide all metal Doors and Frames, complete in-place, as shown on the drawings, specified herein or as required for a complete and proper installation.
- B. Documents affecting work of this Section include, but are not necessarily limited to General Conditions, Supplementary Conditions, and Sections of these Specifications.
- C. Related Work:
 - 1. Sealants and Caulking
 - 2. Finish Hardware
 - 3. Glass and Glazing
 - 4. Painting

10.1.3 Quality Assurance:

- A. Qualifications of Installers: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Single Source: All work of this Section shall be produced by a single manufacturer unless otherwise approved by the Architect.
- C. Fire Rated Assemblies: Wherever a fire-resistance classification is shown or scheduled for metal doors and frames, provide fire-rated doors and frames investigated and tested as a fire door assembly, complete with type of fire door hardware to be used. Identify each fire door, and frame with recognized testing laboratory labels, indicating applicable fire rating of both door and frame. Construct assemblies to comply with NFPA Standard No. 80, and as herein specified.
- D. Certificates and Labels: Identify each door and frame with recognized labels and certificates.

10.1.4 Reference Standards:

- A. NFPA Standard No. 80
- B. AIA (NBFU) Pamphlet No. 8
- C. Pressure Test: IBC 715.3.3 and UL 10C.
- D. Underwriters Laboratories
- E. "Recommended Locations for Builder's Hardware" published by the National Builder's Hardware Association.

10.1.5 Submittals:

- A. Submit the following submittals in accordance with the requirements in the General Conditions.
 - 1. Coordinate and submit together with the submittals required for Section 08710, Finish Hardware.

B. Manufacturer's Data:

- 1. Complete materials list of all items proposed to be furnished and installed under this Section.
- Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements.

C. Shop Drawings:

- 1. Provide shop drawings showing details of each frame type, elevations of each door design type, details of all openings, all details of construction, installation, all anchorage, and certifications.
- 2. Provide written documentation showing compliance with all required labels and certifications.

<u>10.1.6</u> Product Handling:

- A. Protection: Use all means necessary to protect materials of this Section before, during, and after installation and to protect installed work and materials of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary, and at no additional cost to the Owner.

10.1.7 Products:

10.1.7.1 Materials:

- A. Hot Rolled Steel Sheets and Strips: Commercial quality carbon steel, pickled and oiled, complying with ASTM A-569 and ASTM A-568.
- B. Cold Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A-366 and ASTM A-568.

- C. Galvanized Steel Sheets: Zinc-coated carbon steel sheets of commercial quality, complying with ASTM A-526, and ASTM A-525, G60 zinc coating, mill phosphatized.
- D. Supports and Anchors: Fabricate of not less than 18 gage galvanized sheet steel.
- E. Inserts, Bolts and Fasteners: Manufacturer's standard units, except hotdip galvanized items to be built into exterior walls, complying with ASTM A-153, Class C or D as applicable.
- F. Shop Applied Paint: For steel surfaces, use rust-inhibitive baked enamel or paint, suitable as a base for specified finish paints.

10.1.8 Fabrication:

10.1.8.1 General:

- A. Verify all measurements at the job site prior to fabrication.
- B. Fabricate steel door and frame units to be rigid, neat in appearance and free from defects, warp or buckle. Accurately form metal to required sizes and profiles.
- C. Wherever practicable, fit and assemble units in the manufacturer's plant. Clearly identify work that cannot be permanently factory-assembled before shipment, to assure proper assembly at the site.
- D. Fabricate exposed faces of doors and panels from only cold-rolled steel.
- E. Fabricate frames, concealed stiffeners, reinforcement, edge channels, louvers and moldings from either cold-rolled or hot-rolled steel (at fabricator's option).
- F. Fabricate exterior doors, panels and frames from galvanized steel. Top edge of doors in exterior walls shall be fitted with a flush water-tight closure.
- G. Vertical edges shall join the face sheets by a continuous weld extending the full height of the door. Welds are to be ground, filled and dressed smooth to make them invisible and provide a smooth flush surface.
- 10.1.8.2 Exposed Fasteners: Provide countersunk flat phillips for exposed screws and bolts:

10.1.8.3 Finish Hardware Preparation:

A. Prepare hollow metal units to receive mortised and concealed finish hardware, including cutouts, reinforcing. Drilling and tapping in accordance with final Finish Hardware Schedule and templates provided by hardware suppliers. Comply with applicable requirements of ANSI A-115.

- B. Reinforce hollow metal units to receive surface-applied hardware. Drilling and tapping for surface-applied finish hardware may be done at site.
- C. Locate finish hardware in accordance with "Recommended Locations for Builders Hardware", published by the National Builders Hardware Association.
- D. Reinforce all doors for thru sex bolts at closers.

<u>10.1.8.4</u> Shop Painting:

- A. Clean, treat and paint exposed surfaces of fabricated hollow metal units, including galvanized surfaces.
- B. Clean steel surfaces of mill scale, rust, oil, grease, dirt and other foreign materials before the application of the shop coat of paint.
- C. Apply shop coat of prime paint of even consistency to provide a uniformly finished surface ready to receive field-applied paint.

10.1.9 Standard Metal Doors:

<u>10.1.9.1</u> General: Provide metal doors of the types and styles indicated on the drawings or schedules. Sheet steel shall be 18 gage minimum each face for interior doors, 16 gage minimum for exterior doors, 12 gage minimum reinforcing for closer, 8 gage minimum reinforcing for hinges, and 16 gage minimum reinforcing for locks. Exterior doors shall be urethane core doors.

A. Form exterior doors of hot dip galvanized steel.

10.1.9.2 Glass-Moldings and Stops:

- A. Where specified or shown on drawings, doors shall be provided with hollow metal moldings to secure glazing by others in accordance with glass opening sizes shown on approved shop drawings.
- B. Loose stops shall be not less than 20 gage steel, with butt corner joints, secured to the framed opening by cadmium or zinc-coated countersunk screws. Snap-on attachments will not be permitted.
- C. Glass moldings and stops shall be prime painted ready to receive field applied paint.

10.2.1 Standard Metal Frames:

10.2.2 General:

A. Provide metal frames of the types and styles indicated on the drawings or schedules. Metal frames shall be 16 gage for interior doors, 16 gage for exterior doors and shall be properly reinforced for the finish hardware specified in Division 8.

- B. Provide metal frames for doors, and other openings, as shown on the drawings. Conceal all fastenings unless otherwise shown.
- C. Fabricate frames of all welded construction. Miter and weld all corners. No mechanical interlocks.
- D. Form exterior frames of hot dip galvanized steel.
- E. Provide 16 gauge galvanized anchors at all frames of the following minimum quantities:
 - 1. One floor clip per jamb, welded to frame.
 - 2. Three wall anchors per jamb to 7'-2". Four wall anchors per jamb from 7'-3" to 9'-0". Add one additional wall anchor for each additional 2'-0" in height or fraction thereof. Welded to frame.
 - 3. Two wall anchors per head at door pairs. One wall anchor per head at windows of 8'-0". Add one additional wall anchor for each additional 4'-0" in width or fraction thereof. Welded to frame.
 - 4. Anchor styles shall be as indicated in the drawings or as approved in shop drawings.
- <u>10.2.3</u> Door Silencers: Drill stops to receive 2 silencers on strike jambs of single-swing frames and 2 silencers on heads of double-swing frames.
- 10.2.4 Plaster Guards: Provide 26 gage steel plaster guards or mortar boxes, welded to the frame, at back of all finish hardware cutouts where mortar or other materials might obstruct hardware operation.
- 10.2.5 Non-Standard Doors And Frames:
 - A. When doors and frames are required which are not available from the manufacturer as stock items, provide such items as custom items constructed in conformance with the requirements for stock items within the profiles and size limitations shown on the drawings.
 - B. Where required by the drawings, provide with full thickness solid core of rigid rock wool cut out to fit between stiffeners and to fit hardware reinforcements.
 - C. Install core to completely fill the interior of the door. Install similar core in frames in these openings.
- 10.2.6 Other Materials:
 - A. All other materials not specifically described but required for a complete and proper installation shall be as selected by the Contractor subject to the approval of the Architect.
- 10.2.7 Execution:
- 10.2.7.1 Inspection:

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to the proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

10.2.7.2 Installation:

A. General: Install hollow metal units and accessories in accordance with manufacturer's data, and as herein specified.

B. Placing Frames:

- 1. Except for frames located at in-place concrete or masonry openings, place frames prior to construction of enclosing walls and ceilings. Set frames accurately in position, plumb, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
- 2. In masonry construction, locate 3 wall anchors per jamb at hinge and strike levels. Building-in of anchors and grouting of frames is specified in Division 4.
- 3. At in-place concrete or masonry construction, set frames and secure to adjacent construction with machine screws and masonry anchorage devices. If attached with screws, provide "Z" fillers at each screw location to prevent collapse or distortion of frames when screws are tightened.
- 4. When installed in prepared openings in concrete or masonry construction install sealant between frames and concrete or masonry in compliance with the requirements of Division 7.

C. Door Installation:

- 1. Fit doors accurately in their respective frames, within clearances specified in S.D.I. 100.
- 2. Place fire-rated doors with clearance as specified in NFPA Standard No. 80.
- D. Caulk, seal and fasten so as to provide a complete weathertight installation.

10.2.7.3 Cleaning And Protection:

- A. Final Adjustments: Check and readjust operating finish hardware items in hollow metal work just prior to final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including doors or frames which are warped, bowed or otherwise damaged.
- B. Prime Coat Touch-up: Immediately after erection, sand smooth all rusted and damaged areas of prime coat and apply touch-up of compatible air-drying primer.

End of Document 7006