RUHNAU CLARKE ARCHITECTS

JUNE 2, 2022

ADDENDUM 02

TO THE CONTRACT DOCUMENTS

FOR

BID #22-01 ACCESS CONTROL # DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITE

FOR THE
MORONGO UNIFIED SCHOOL DISTRICT
5715 Utah Trail
Twentynine Palms, CA 92277

Job No. 1-49-83

NOTICE TO BIDDERS
This Addendum forms a part of the Contract and modifies the original documents dated May 4, 2022. It is intended that all work affected by the following modifications shall conform with related provisions and general conditions of the contract of the original drawings and specifications. Modify the following items wherever appearing in any drawing or sections of the specifications. Acknowledge receipt of Addendum 02 in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

GENERAL

Item No. 2.1 Reference Local Area Network Building Diagrams:
- 2.1.1 Refer to the link below for the existing Local Area Network Building Diagrams at Yucca Valley High School, Twentynine Palms Junior High School, and La Contenta Middle School.

  https://files.ruhnauclarke.com/public/756761

Item No. 2.2 Reference Building IDF Locations:
- 2.2.1 Refer to the link below for the existing Building IDF Locations at Twentynine Palms High School.

  https://files.ruhnauclarke.com/public/756761

CHANGES TO BIDDING AND PROCUMENT DOCUMENTS

Item No. 2.3 Reference Bid Form:
- 2.3.1 The Bid Form for this project has been revised. (See attached revised Bid Form.) You must use this revised bid form and acknowledge that you received all issued addendums for this project in the spaces provided on the form. Please note that the District reserves the right to award by school site or in total, (to a single vendor, or multiple vendors), whichever is the in the District's best interest. Awarding of bid will be in line with the district's approved budget for this project.

CHANGES TO THE SPECIFICATIONS

Item No. 2.4 Reference Section 08 11 13 Hollow Metal Doors and Frames:
2.4.1 Add Section 08 11 13 in its entirety.

Item No. 2.5 Reference Section 08 14 16 Flush Wood Doors:
2.5.1 Add Section 08 14 16 in its entirety.

Item No. 2.6 Reference Section 08 71 00.01 Door Hardware – Twentynine Palms High School:
2.6.1 Remove Section 08 71 00.01 and replace it in its entirety with attached Section 08 71 00.01. Refer to changes in **Bold Underlined Texts** in attached Section 08 71 00.01.

Item No. 2.7 Reference Section 08 71 00.02 Door Hardware – Yucca Valley High School:
2.7.1 Remove Section 08 71 00.02 and replace it in its entirety with attached Section 08 71 00.02. Refer to changes in **Bold Underlined Texts** in attached Section 08 71 00.02.

Item No. 2.8 Reference Section 08 71 00.03 Door Hardware – Twentynine Palms Junior High School:
2.8.1 Remove Section 08 71 00.03 and replace it in its entirety with attached Section 08 71 00.03. Refer to changes in **Bold Underlined Texts** in attached Section 08 71 00.03.

Item No. 2.9 Reference Section 08 71 00.04 Door Hardware – La Contenta Middle School:
2.9.1 Remove Section 08 71 00.04 and replace it in its entirety with attached Section 08 71 00.04. Refer to changes in **Bold Underlined Texts** in attached Section 08 71 00.04.

CHANGES TO THE DRAWINGS

Item No. 2.10 Reference Sheet T-1.0:
2.10.1 Added WIFI access point legend to Architectural Symbol per clouded areas in attached Sheet T-1.0.

Item No. 2.11 Reference Sheet A1.01:
2.11.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.01.
a. Added WIFI access points to Building A and B.
b. Revised Building A and B Hardware Groups.

Item No. 2.12 Reference Sheet A1.02:
2.12.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.02.
a. Added WIFI access points to Building C and G.
b. Revised Building C and G Hardware Groups.
c. Revised Building G Doors G128, G130, and G131.

Item No. 2.13 Reference Sheet A1.03:
2.13.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.03.
a. Added WIFI access points to Building E and F.
b. Revised Building E and F Hardware Groups.

Item No. 2.14 Reference Sheet A1.04:
2.14.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.04.

a. Added WIFI access points to Building H and J.
b. Revised Building H and J Hardware Groups.
c. Revised Building J Door J1093B.

Item No. 2.15 Reference Sheet A1.05:

2.15.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.05.

a. Added WIFI access points to Building K and M.
b. Revised Building K and M Hardware Groups.
c. Revised Building K Door K104B and K105A, and Building M Door 101A.

Item No. 2.16 Reference Sheet A1.06:

2.16.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.06.

a. Added WIFI access points to Building L and N.
b. Revised Building L and N Hardware Groups.
c. Revised Building L Door L104B and L105A, and Building N Door N106A and 109B.

Item No. 2.17 Reference Sheet A1.07:

2.17.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.07.

a. Added WIFI access points to Building NA.
b. Revised Building NA Hardware Groups.

Item No. 2.18 Reference Sheet A1.08:

2.18.1 Revised floor plans and door schedules per clouded areas in attached Sheet A1.08.

a. Added WIFI access points to North and South Relos.
b. Revised South Relo Hardware Groups, Doors SR111 and SR112.

Item No. 2.19 Reference Sheet A2.01:

2.19. 1 Added WIFI access points to Building A and B per clouded areas in attached Sheet A2.01.

Item No. 2.20 Reference Sheet A2.02:

2.20.1 Revised floor plans and door schedules per clouded areas in attached Sheet A2.02.

a. Added WIFI access points to Building C and X.
b. Revised Building C Hardware Groups.

Item No. 2.21 Reference Sheet A2.03:

2.21.1 Added WIFI access points to Building D and V per clouded areas in attached Sheet A2.03.

Item No. 2.22 Reference Sheet A2.04:

2.22.1 Added WIFI access points to Building E and G per clouded areas in attached Sheet A2.04.

Item No. 2.23 Reference Sheet A2.05:

2.23.1 Revised floor plans and door schedules per clouded areas in attached Sheet A2.05.

a. Added WIFI access points to Building F.
b. Revised Building F Hardware Groups.

Item No. 2.24 Reference Sheet A2.06:

2.24.1 Revised floor plans and door schedules per clouded areas in attached Sheet A2.06.

a. Added WIFI access points to Building H.
b. Revised Building H Hardware Groups.
c. Revised Building H Door H106B, H131, H132, H140, and H144.

Item No. 2.25 Reference Sheet A2.07:

2.25.1 Revised floor plans and door schedules per clouded areas in attached Sheet A2.07.

a. Added WIFI access points to Building J and K.

b. Revised Building J Hardware Groups.

Item No. 2.26 Reference Sheet A2.08:

2.26.1 Revised floor plans and door schedules per clouded areas in attached Sheet A2.08.

a. Added WIFI access points to Building M and R.
b. Revised Building M Hardware Groups.
c. Revised Building M Door M102, M106, M112, and M113.

Item No. 2.27 Reference Sheet A2.09:

2.27.1 Added WIFI access points to Building N per clouded areas in attached Sheet A2.09.

Item No. 2.28 Reference Sheet A2.10:

2.28.1 Added WIFI access points to Building S and T per clouded areas in attached Sheet A2.10.

Item No. 2.29 Reference Sheet A2.11:

2.29.1 Added WIFI access points to Building U and W per clouded areas in attached Sheet A2.11.

Item No. 2.30 Reference Sheet A2.12:

2.30.1 Revised floor plans and door schedules per clouded areas in attached Sheet A2.12.

a. Added WIFI access points to Building Z and Relo 1.
b. Revised Building Y Hardware Groups and Panic Hardware.

Item No. 2.31 Reference Sheet AS3.0:

2.31.1 Added Building K and X to Site Plan per clouded areas in attached Sheet AS3.0.

Item No. 2.32 Reference Sheet A3.01:

2.32.1 Revised floor plans and door schedules per clouded areas in attached Sheet A3.01.

a. Added WIFI access points to Building A.
b. Revised Building A Hardware Groups and Door 112 Panic Hardware.
c. Revised Building A Door A102, 105, 107, and 115.

Item No. 2.33 Reference Sheet A3.02:

2.33.1 Revised floor plans and door schedules per clouded areas in attached Sheet A3.02.

a. Added WIFI access points to Building B and C.
b. Revised Building B and C Hardware Groups.

Item No. 2.34 Reference Sheet A3.03:

2.34.1 Revised floor plans and door schedules per clouded areas in attached Sheet A3.03.

a. Added WIFI access points to Building D and E.
b. Revised Building D and E Hardware Groups.

2.34.2 Added Building X floor plan and door schedule.

Item No. 2.35 Reference Sheet A3.04:

2.35.1 Revised floor plans and door schedules per clouded areas in attached Sheet A3.04.

a. Added WIFI access points to Building F and J.
b. Revised Building F and J Hardware Groups.
c. Revised Building F Door F120.

Item No. 2.36 Reference Sheet A3.05:

2.36.1 Revised floor plans and door schedules per clouded areas in attached Sheet A3.05.

a. Added WIFI access points to Building G and I.
b. Revised Building G and I Hardware Groups.

Item No. 2.37 Reference Sheet A3.06:

2.37.1 Revised floor plans and door schedules per clouded areas in attached Sheet A3.06.
a. Added WIFI access points to Relos.
b. Revised Relo Hardware Groups.
2.37.2 Added Building K floor plan and door schedule.

Item No. 2.38 Reference Sheet A4.01:
2.38.1 Revised floor plans and door schedules per clouded areas in attached Sheet A4.01.
a. Added WIFI access points to Building A and B.
b. Revised Building A and B Hardware Groups.
c. Revised Building B Door B121, B123, and B124.

Item No. 2.39 Reference Sheet A4.02:
2.39.1 Revised floor plans and door schedules per clouded areas in attached Sheet A4.02.
a. Added WIFI access points to Building C and H.
b. Revised Building C and H Hardware Groups.
c. Revised Building C Door C109, C112, and C113, and Building H Door H113, H114, and H118.

Item No. 2.40 Reference Sheet A4.03:
2.40.1 Revised floor plans and door schedules per clouded areas in attached Sheet A4.03.
a. Added WIFI access points to Building D and F.
b. Revised Building D and F Hardware Groups.

Item No. 2.41 Reference Sheet A4.04:
2.41.1 Revised floor plans and door schedules per clouded areas in attached Sheet A4.04.
a. Added WIFI access points to Building G and N.
b. Revised Building G and N Hardware Groups.

Item No. 2.42 Reference Sheet A4.05:
2.42.1 Revised floor plans and door schedules per clouded areas in attached Sheet A4.05.
a. Added WIFI access points to Building E and Relos.
b. Revised Building E and Relo Hardware Groups.
c. Revised Relo Door L103 and L106.

ATTACHMENTS

Bidding and Procurement Documents
Bid Form

Specifications 08 11 13, 08 14 16, 08 71 00.01, 08 71 00.02, 08 71 00.03, 08 71 00.04

Drawings T-1.0, A1.01, A1.02, A1.03, A1.04, A1.05, A1.06, A1.07, A1.08, A2.01, A2.02, A2.03, A2.04, A2.05, A2.06, A2.07, A2.08, A2.09, A2.10, A2.11, A2.12, AS3.0, A3.01, A3.02, A3.03, A3.04, A3.05, A3.06, A4.01, A4.02, A4.03, A4.04, A4.05

END OF ADDENDUM 02

_____
Roger Clarke, Principal

#C-21340

BID FORM

TO: Morongo Unified School District acting by and through its Governing Board, herein called the "DISTRICT":

Pursuant to and in compliance with your Notice to Contractors Calling for Bids and the other documents relating thereto, the undersigned bidder, having familiarized himself with the terms of the Contract, the local conditions affecting the performance of the Contract and the cost of the work at the place where the work is to be done, and with the Drawings and Specifications and other contract documents, hereby proposes and agrees to perform, within the time stipulated, the Contract, including all of its component parts, and everything required to be performed, and to provide and furnish any and all of the labor, materials, tools, expendable equipment, and all applicable taxes, utility and transportation services necessary to perform the Contract and complete in a workmanlike manner all of the work required in connection with:

Bid #22-01

Access Control and Door Hardware Upgrades at Various District Sites

All in strict conformity with the Drawings and Specifications and other contract documents, including Addenda No(s.) _____,_____,_____, on file at the District Office of the Morongo Unified School District.

The District reserves the right to award by school site or in total, (to a single vendor, or multiple vendors), whichever is the in the District's best interest. Awarding of bid will be in line with the district's approved budget for this project.

Per the project specifications and scope of work, provide all materials and labor for upgrades for door hardware and access control at the below listed sites for the Morongo Unified School District including all applicable taxes, permits and licenses.

Base price per school site as follows:

La Contenta Middle School		**$**
Twentynine Palms JR High School		**$**
Twentynine Palms High School		**$**
Yucca Valley High School		**$**

TOTAL LUMP SUM FOR ALL SITES IF AWARDED TO ONE CONTRACTOR:

$

Signed_____ Dated_____.

NOTE: If awarding of Bid is to one contractor for total lump sum for all (4) schools, awarding contractor will be required to provide a breakdown cost of each school site for accounting purposes, to be requested at time of project agreement request to Contractor after Notification of contract awarding.

TIME TO COMPLETE PROJECT:

The work shall be commenced no sooner than **Friday, July 1, 2022** and shall be completed prior to **Friday, June 30, 2023**. **Notification of contract award shall be Tuesday, June 28, 2022 INSURANCE CERTIFICATE, PURCHASE ORDER AND FULLY EXECUTED CONTRACT ARE REQUIRED BEFORE PROJECT CAN START.**

ACCOMPANYING THIS PROPOSAL IS _____ (Insert the words "Cash," "Bidder's Bond," or "Certified Check" as the case may be) in the amount equal to at least ten percent [10%] of the total bid, payable to the Morongo Unified School District.

Respectfully Submitted:

Name of Contractor: _____

Type of Organization: _____

Signed By (Print Name): _____

Signature: _____

Date: _____

Title of Signer: _____

Address of Contractor: _____

_____

Telephone Number: _____

Contractor's License Number: _____

SECTION 081113
HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section "Flush Wood Doors".
4. Division 08 Section "Door Hardware".
5. Division 08 Section "Access Control Hardware".
6. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
9. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.

10. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
11. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
12. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
13. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
14. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
15. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
16. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.

B. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

C. Shop Drawings: Include the following:

1. Elevations of each door design.
2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
4. Locations of reinforcement and preparations for hardware.
5. Details of anchorages, joints, field splices, and connections.
6. Details of accessories.
7. Details of moldings, removable stops, and glazing.
8. Details of conduit and preparations for power, signal, and control systems.

D. Samples for Verification:

1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.

B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40” above sill) or UL 10C.

1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.

2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
3. Smoke Control Door Assemblies: Comply with NFPA 105.

    a. Smoke "S" Label: Doors to bear “S” label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.

D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.

E. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.

1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 COORDINATION

A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.

B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:

1. CECO Door Products (C).
2. Curries Company (CU).
3. Security Metal Products (SMP).

2.2 MATERIALS

A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

C. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 38 percent.

D. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.

B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
3. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
4. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.

5. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Interior Doors: Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A 1008/A 1008M. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard kraft-paper honeycomb, or one-piece polystyrene core, securely bonded to both faces.

    a. Fire Door Core: As required to provide fire-protection and temperature-rise ratings indicated.

3. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

D. Manufacturers Basis of Design:

1. Curries Company (CU) - Polystyrene Core - 707 Series.

2.4 HOLLOW METAL FRAMES

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.

B. Thermal Break Frames: Subject to the same compliance standards and requirements as standard hollow metal frames. Tested for thermal performance in accordance with NFRC 102, and resistance to air infiltration in accordance with NFRC 400. Where indicated provide thermally broken frame profiles available for use in both masonry and drywall construction. Fabricate with 1/16” positive thermal break and integral vinyl weatherstripping.

C. Exterior Frames: Fabricated of hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:

    a. Curries Company (CU) – M Series.
    b. Curries Company (CU) – Thermal Break TQ Series.

D. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:

a. Curries Company (CU) - M Series.

E. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

F. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.5 FRAME ANCHORS

A. Jamb Anchors:

1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.

B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.6 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator’s shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.

C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.

D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.7 ACCESSORIES

A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.

B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.8 FABRICATION

A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.

C. Hollow Metal Doors:

1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.
4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.

    a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.

3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
5. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
6. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
7. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
8. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
9. Jamb Anchors: Provide number and spacing of anchors as follows:

    a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

        1) Two anchors per jamb up to 60 inches high.

2) Three anchors per jamb from 60 to 90 inches high.
3) Four anchors per jamb from 90 to 120 inches high.
4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.

b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

1) Three anchors per jamb up to 60 inches high.
2) Four anchors per jamb from 60 to 90 inches high.
3) Five anchors per jamb from 90 to 96 inches high.
4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.

10. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
11. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.

E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.9 STEEL FINISHES

A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.

1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.

C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

3.3 INSTALLATION

A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.

1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.

C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.

1. Non-Fire-Rated Standard Steel Doors:

    a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
    b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
    c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
    d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

B. Remove grout and other bonding material from hollow metal work immediately after installation.

C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

END OF SECTION 081113

SECTION 08 14 16
FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush wood doors; flush configuration; fire rated and non-rated.

1.02 RELATED REQUIREMENTS

A. Section 08 11 13 - Hollow Metal Doors and Frames.

B. Section 08 71 00 - Door Hardware.

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.

B. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

C. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2019.

1. Use 2016 as indicated in 2019 CBC Referenced Standards.

D. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives; 2016.

E. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

1. Use 2009 as indicated in 2019 CBC Referenced Standards.

F. UL 1784 - Standard for Air Leakage Tests of Door Assemblies; Current Edition, Including All Revisions.

1. Use 2001 with revisions as indicated in 2019 CBC Referenced Standards.

G. WDMA I.S. 1A - Interior Architectural Wood Flush Doors; 2013.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.

C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.

1. Include certification program label and fire rated doors.

D. Samples: Submit two samples of door veneer, 12 by 12 inch in size illustrating wood grain, stain color, and sheen.

E. Certificate: Submit labels and certificates required by quality assurance and quality control programs.

F. Test Reports: Show compliance with specified requirements for the following:

1. Sound-retardant doors and frames; sealed panel tests are not acceptable.

G. Manufacturer's Installation Instructions: Indicate special installation instructions.

H. Specimen warranty.

I. Warranty, executed in District's name.

1.05 QUALITY ASSURANCE

A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with not less than three years of documented experience.

1. Company with at least one project within the past 5 years with value of woodwork within 20 percent of cost of woodwork for this project.

2. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

C. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Package, deliver and store doors in accordance with specified quality standard.

B. Accept doors on site in manufacturer's packaging. Inspect for damage.

C. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Interior Doors: Provide manufacturer's warranty for the life of the installation.

C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Wood Veneer Faced Doors:

1. Eggers Industries: www.eggersindustries.com/#sle.

2. Graham Wood Doors: www.grahamdoors.com/#sle.

3. Marshfield-Algoma Door Systems, Inc.: www.marshfielddoors.com.

4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 DOORS

A. Doors: Refer to drawings for locations and additional requirements.

1. Quality Level: Custom Grade, Standard Duty performance, in accordance with WDMA I.S. 1A.
2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.

B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
1. Provide solid core doors at each location.
2. Fire Rated Doors: Tested to 60 minutes and ratings as indicated on drawings in accordance with UL 10C - Positive Pressure; Underwriters Laboratories Inc. (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.
a. Comply with CBC Section 716.5.1.
3. Smoke and Draft Control Doors (Indicated as "S" on Drawings): In addition to required fire rating, provide door assemblies tested in accordance with 1 with maximum air leakage of 3.0 cfm per sq ft of door opening at 0.10 inch wg pressure at both ambient and elevated temperatures for "S" label; no additional gasketing or edge sealing allowed.
a. Comply with CBC Section 716.5.3.1.
4. Wood veneer facing with factory transparent finish.

2.03 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type staved lumber core (SLC), plies and faces as indicated.

B. Fire-Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

2.04 DOOR FACINGS

A. Veneer Facing for Transparent Finish: Natural Birch, veneer grade in accordance with quality standard indicated, plain sliced (flat cut), with slip match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face; unless otherwise indicated.
1. Vertical Edges: Any option allowed by quality standard for grade.
2. "Running Match" each pair of doors and doors in close proximity to each other.
3. "Pair Match" each pair of doors; "Set Match" pairs of doors within 10 feet of each other when doors are closed.

B. Facing Adhesive: Type II - water resistant.

2.05 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.

B. Cores Constructed with stiles and rails:
1. Provide solid blocks at lock edge and top of door for closer for hardware reinforcement.

C. Glazed Openings: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.

D. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

E. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

F. Provide edge clearances in accordance with the quality standard specified.

2.06 FACTORY FINISHING - WOOD VENEER DOORS

A. Finish work in accordance with WDMA I.S. 1A for grade specified and as follows:

1. Transparent:
    a. System - TR-6, Catalyzed Polyurethane.
    b. Stain: As selected by Architect.
    c. Sheen: Satin.

B. Factory finish doors in accordance with approved sample.

C. Seal door top edge with color sealer to match door facing.

2.07 ACCESSORIES

A. Hollow Metal Door Frames: As specified in Section 08 11 13.

B. Glazed Openings: Comply with CBC Section 716.6.3 and Chapter 24.

1. Vision Panel: Factory installed.
    a. Application: Provide at all new classroom, office, corridor and other teacher and staff occupied spaces.
    b. Size (WxH): 6 by 32 inches, unless indicated otherwise on Drawings.
2. Heat-Strengthened and Fully Tempered Glass: ASTM C1048.
3. Fire-Protection-Rated Glass: Safety Certification, 16 CFR 1201, Category II.
    a. Comply with CBC Section 716.6.
4. Glazing: Single vision units, 1/4 inch thick glass.
5. Tint: Clear.

C. Glazing Stops: Wood with metal clips for rated doors, butted corners; prepared for countersink style tamper proof screws.

D. Door Hardware: As specified in Section 08 71 00.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and specified quality standard.

1. Install fire-rated doors in accordance with NFPA 80 requirements.
2. Install smoke and draft control doors in accordance with NFPA 105 requirements.

B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.

C. Field-Finished Doors: Trimming to fit is acceptable.

1. Adjust width of non-rated doors by cutting equally on both jamb edges.
2. Trim maximum of 3/4 inch off bottom edges.
3. Trim fire-rated doors in strict compliance with fire rating limitations.

D. Use machine tools to cut or drill for hardware.

E. Coordinate installation of doors with installation of frames and hardware.

F. Coordinate installation of glazing.

3.03 TOLERANCES

A. Conform to specified quality standard for fit and clearance tolerances.

B. Conform to specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING

A. Adjust doors for smooth and balanced door movement.

B. Adjust closers for full closure.

3.05 SCHEDULE - SEE DRAWINGS

END OF SECTION

SECTION 08 71 00.01
DOOR HARDWARE – TWENTYNINE PALMS HIGH SCHOOL

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 commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 28 Section “Access Control Hardware Devices”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.

5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
b. Complete (risers, point-to-point) access control system block wiring diagrams.

c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Proof of Compliance: (California located Projects): Provide a list of product(s) containing chemicals known to cause cancer or reproductive toxicity as defined by the Office of Environmental Health Hazard Assessment (OEHHA) under Proposition 65 (CA Code of Regulations, Title 27, Section 27001). The list includes the specific chemical(s), if the chemical will be exposed to consumers, the means of warning, and an illustration of the label.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. California Building Code: Provide hardware that complies with CBC Section 11B.

1. All openings as a part of an accessible route shall comply with CBC Section 11B-404.

2. The clear opening width for a door shall be 32" minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34" and 4" maximum projections into it between 34" and 80" above the finish floor or ground. Door closers and stops shall be permitted to be 78" minimum above the finish floor or ground. CBC Section 11B-404.2.3.

3. Operable hardware on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34" minimum and 44" maximum above finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

4. Hardware (including panic hardware) shall not be provided with "nightlatch" function for any accessible doors or gates unless the following conditions are met:

   a. Such hardware has a 'dogging' feature and is dogged during the time the facility is open.
   b. All 'dogging' operation is performed only by employees as their job function (non-public use).

5. The force for pushing or pulling open a door shall be in accordance with CBC Section 11B-404.2.9.

   a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
   b. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
   c. The 5 pound (22.2 N) maximum force shall be validated for the size of the door used. The Building Materials Listing of the California State Fire Marshal shall indicate that the door hardware meets the 5 pound (22.2 N) force and shall also list the largest door that can be used.

6. Door closing speed shall comply with CBC Section 11B-404.2.8. Closers shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.

7. Floor stops shall not be located in the path of travel and 4" maximum from walls.

8. Thresholds shall comply with CBC Section 11B-404.2.5.

G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:
1. Two years for electromechanical door hardware, unless noted otherwise.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

a. Pemko (PE).

2.3 POWER TRANSFER DEVICES

A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Pemko (PE) - EL-CEPT Series.
b. Securitron (SU) - EL-CEPT Series.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring

harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

    a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
    b. McKinney (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

    a. McKinney (MK) - QC-C Series.

2.4 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Restricted Keyway.

D. Security Cylinders: ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed security cylinders and keys able to be used together under the same facility master or grandmaster key system. Cylinders to be factory keyed.

1. New security key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.

2. Manufacturers:

    a. Sargent (SA) - Degree DG2.
    b. No Substitution.

E. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.

2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

F. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

G. Construction Keying: Provide temporary keyed construction cores.

H. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 APERIO WIRELESS ACCESS CONTROL

A. Wireless Access Control Mortise Locks: Wireless technology ANSI/BHMA A156.13 Grade 1 mortise lockset with integrated card reader, deadbolt monitoring, and request-to-exit and door position switch signaling in one complete unit. Motor driven locking/unlocking control of the lever handle trim, 3/4" stainless steel latch, and optional 1" deadbolt with hardened inserts. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. **Wireless access control lock interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.**
9. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**

10. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
11. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

12. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 – 8200 Series.**
    b. **No Substitutions.**

B. **Wireless Access Control Cylindrical Locks: Wireless technology ANSI/BHMA A156.2 Series 4000 Grade 1 cylindrical lockset with integrated card reader and request-to-exit signaling in one complete unit. Separate DPS connects directly to lock electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings.**

1. **Wireless access control cylindrical locks interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated reader supports HID® 125kHz proximity credentials; or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS/iCLASS SE (full authentication, all formats), MIFARE Classic, DESFire EV1 (full authentication, all formats); or Near Field Communications (NFC); or HID® SIO enabled.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
6. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
7. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
8. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

9. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 10 Line Series.**
    b. **No Substitutions**

C. **Wireless Access Control Exit Hardware: Wireless technology ANSI/BHMA A156.3 Grade 1 rim and mortise exit device hardware with integrated card reader. Separate DPS connects directly to exit hardware electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and**

labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override trim.

1. **Wireless access control exit hardware interfaces using local wireless connection between the electronic exit trim and a communication hub located directly above the door. Communication hub connected via RS-485 to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Outside lever rigid except when in "passage" mode, or valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of exit device latch without necessary electronic activation.**
9. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

10. **Manufacturers:**

    a. **Sargent Manufacturing (SA) - IN100 – 80 Series.**
    b. **No Substitutions.**

2.6 INTEGRATED WIRED OUTPUT ACCESS CONTROL, MULTI-CLASS READER

2.7 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.8 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood (RO).

2.9 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).
2. Reese Enterprises, Inc. (RE).

2.10 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.11 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer’s Abbreviations:

1. SA - SARGENT
2. DJ - Don-Jo
3. OT - Other

Hardware Sets

Set: 1.0

Doors: **A102**, A103**, A104, A105**, A106, **A107, A108, A109,** A110, B101, B102, B103, **B104, B105, B108, C101**, C102, **C104, C105,** C106, **C108,** C109, **C110,** C111, **F101,** F102, F104, F105, **G102,** G107, **G108, G109,** G110, G111, **G112,** G113, **G119, G120, H101,** H102, **H103,** H104, H105, **H106, H108,** H109, H110, **H111**, **J1091A**, J1091B, **J1092A,** J1092B, **J1093A, J1093B,** K100A, **K103A,** K104A, **K107A,** L100A, **L103A,** L104A, **L107A,** M100A, **M100B,** M100C, **M100D, M100E, M100F, M100G, M100H, M100J,** M100K, **M100M,** N109A, N112A, N114A, N115B, N116A, **N116B,**

N117A, NA112A, NA113A, NA119A, **NA128A, NA129A**

1	Access Control Rim Exit, Aperio, No Key	IN100-8878-BIPS B ETL **5CH 525** (No Hex/Cyl Dogging - Furnished in 0281300	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 2.0

Doors: **A101**, C107, E101, E102, E103, E106, E107, E108, F106, **F107,** G101, **G104,** G114, **K101A, K102A, L101A, L102A,** N110A, N111A, N113A, NR101, NR102, NR103, SR101, SR102, SR103, SR104, SR105, SR106, SR113, **SR114, SR115, SR120**

1	Aperio Control Rim Exit, Keyed	IN100-8877-BIPS B ETL LC **5CH 525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 3.0

Doors: NA100A

2	**Access Control Rim Exit, Aperio, No Key**	**IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300**	**US32D**	**SA**	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door. Door to be scheduled open during school hours.

Set: 4.0

Doors: A111, A112, A113, A114, A116, J1091C, J1096A, J1096B, K103B, K107B, K108A, K108B, L103B, L107B, L108A, L108B, M102A, M102B, N104B, N112B, SR117, SR118

1	**Access Control Cyl Lock, Aperio, No Key**	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	**US26D**	SA	
1	**Wrap-Around**	**As Required**		OT	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 5.0

Doors: N114B, N115C

1	Wrap Plate	As Required		DJ	
1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Replace door or patch and recertify as required for fire ratings

Set: 6.0

Doors: A115, A117, B110, G117, G118, G121, G122, G123, G124, G125, G126, G127, K109A, L109A, N107A, SR116, SR119

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	IN100-10G77-BIPS B LL LC - Furnished in 0281300	US26D	SA	⚡
1	Wrap Plate	As Required		DJ	
1	Cylinder	DG1 C10-1 "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 7.0

Doors: N106A

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	IN100-10G77-BIPS B LL LC - Furnished in 0281300	US26D	SA	⚡
1	Wrap Plate	As Required		DJ	
1	Cylinder	DG1 C10-1 "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Replace door or patch and recertify as required for rated openings

Set: 8.0

Doors: N105A

1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 9.0

Doors: F108, N109C, NA108A, NA109A

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	IN100-10G77-BIPS B LL LC - Furnished in 0281300	US26D	SA	⚡
1	Cylinder	DG1 C10-1 "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 10.0

Doors: M100L

2	Access Control Rim Exit, Aperio, No Key	IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 11.0

Doors: N104A, N115A

1	Access Control Rim Exit, Aperio, No Key	IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 12.0

Doors: NA106A, SR109, SR110

1	Access Control Mort Lock, Aperio, No Deadbolt, Keyed	IN100-82278 OL LC - Furnished in 0281300	US32D	SA	⚡
1	Indicator	185S-2	US32D	SA	
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Verify is SR109 and SR110 are single or multi stall toilets - if multi no indicator needed and schedule open

Set: 13.0

Doors: A118, A119, B109, C103, E104, E105, E109, F103, F109, G103, G106, G115, G116, G132, H107, J1094A, NA103A, NA105A, NA107A, NA111A, NA115A, NA116A, NA117A, NA118A, NA120A, NA121A, NA126A, NA130A, NA131A, SR107, SR108

1	Access Control Mort Lock, Aperio, No Deadbolt, Keyed	IN100-82278 OL LC - Furnished in 0281300	US32D	SA	
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 14.0

Doors: B106, B107, B112, B113, B114, B116, F110, F111, F112, G105, NA114A, NA123A, NA123B, NA125A, NA128B, NA135A

1	Access Control Mort Lock, Aperio , No Deadbolt, No Key	IN100-82279-BIPS OL LC - Furnished in 0281300	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 15.0

Doors: M102C

1	Access Control Mort Lock, Aperio, No Deadbolt, Keyed	IN100-82278 OL LC - Furnished in 0281300	US32D	SA	
1	Mortise Cylinder	DG1 63 40 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 16.0

Doors: M102D

1	Access Control Mort Lock, Aperio , No Deadbolt, No Key	IN100-82279-BIPS OL LC - Furnished in 0281300	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily

unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 17.0

Doors: N116C, N116D

1	**Access Control Mort Lock, Aperio, , Deadbolt, No Key**	**IN100-82277-BIPS B OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 18.0

Doors: B111, B115, M103A

1	**Access Control Mort Lock, Aperio, Deadbolt, Keyed**	**IN100-82276-BIPS B OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡
1	**Mortise Cylinder**	**DG1 63 40 "0" bitted for facility keying**	**US32D**	**SA**	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door. Door to be scheduled open during school hours.

Set: 19.0

Doors: M101A, SR111, SR112

1	**Access Control Mort Lock, Aperio, No Deadbolt, Keyed**	**IN100-82278 OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡
1	Mortise Cylinder	DG1 63 40 "0" bitted for facility keying	US32D	SA	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door**. Door to be scheduled open during school hours.**

Set: 20.0

Doors: NA104A, NA122A

1	**Access Control Mort Lock, Aperio, No Deadbolt, Keyed**	**IN100-82278 OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡
1	**Mortise Cylinder**	**DG1 63 41 "0" bitted for facility keying**	**US32D**	**SA**	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door. Door to be scheduled open during school hours.

Set: 21.0

Doors: N106B

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	IN100-10G77-BIPS B LL LC - Furnished in 0281300	US26D	SA	⚡
1	Cylinder	DG1 C10-1 "0" bitted for facility keying	US15	SA	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door. Door to be scheduled open during school hours.

Verify condition of existing hardware, replace as needed. New fire door recommended.

Set: 22.0

Doors: G129, K106A, L106A

Description: Staff Toilet

1	Access Control Mort Lock, Aperio, Deadbolt, Keyed	IN100-82276-BIPS B OL LC - Furnished in 0281300	US32D	SA	⚡
1	Indicator	185S-2	US32D	SA	
1	Mortise Cylinder	DG1 63 40 "0" bitted for facility keying	US32D	SA	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door. Door to be scheduled open during school hours.

Set: 23.0

Doors: MISC

Description: Aperio Hubs

Hub	AH40IN2 - Furnished in 0281300	SA	⚡
USB Radio Dongle	APD-10-USB - Furnished in 0281300	SA	

Notes: Provide the appropriate amount of hubs for proper functionality of the system.

END OF SECTION

SECTION 08 71 00.02
DOOR HARDWARE – YUCCA VALLEY HIGH SCHOOL

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 commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

D. Proof of Compliance: (California located Projects): Provide a list of product(s) containing chemicals known to cause cancer or reproductive toxicity as defined by the Office of Environmental Health Hazard Assessment (OEHHA) under Proposition 65 (CA Code of Regulations, Title 27, Section 27001). The list includes the specific chemical(s), if the chemical will be exposed to consumers, the means of warning, and an illustration of the label.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

F. California Building Code: Provide hardware that complies with CBC Section 11B.

1. All openings as a part of an accessible route shall comply with CBC Section 11B-404.

2. The clear opening width for a door shall be 32” minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34” and 4” maximum projections into it between 34” and 80” above the finish floor or ground. Door closers and stops shall be permitted to be 78” minimum above the finish floor or ground. CBC Section 11B-404.2.3.

3. Operable hardware on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34” minimum and 44” maximum above finish floor or

ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

4. Hardware (including panic hardware) shall not be provided with “nightlatch” function for any accessible doors or gates unless the following conditions are met:

   a. Such hardware has a ‘dogging’ feature and is dogged during the time the facility is open.
   b. All ‘dogging’ operation is performed only by employees as their job function (non-public use).

5. The force for pushing or pulling open a door shall be in accordance with CBC Section 11B-404.2.9.

   a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
   b. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
   c. The 5 pound (22.2 N) maximum force shall be validated for the size of the door used. The Building Materials Listing of the California State Fire Marshal shall indicate that the door hardware meets the 5 pound (22.2 N) force and shall also list the largest door that can be used.

6. Door closing speed shall comply with CBC Section 11B-404.2.8. Closers shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.

7. Floor stops shall not be located in the path of travel and 4” maximum from walls.

8. Thresholds shall comply with CBC Section 11B-404.2.5.

G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s),

and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract

Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Ten years for extra heavy duty cylindrical (bored) locks and latches.
3. Five years for exit hardware.
4. Twenty five years for manual overhead door closer bodies.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution

Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

a. Bommer Industries (BO).
b. McKinney (MK).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

a. Pemko (PE).

C. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 certified pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

    a. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).
    b. Pemko (PE).

2.3 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

    a. Burns Manufacturing (BU).
    b. Door Controls International (DC).
    c. Rockwood (RO).

B. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

    a. Burns Manufacturing (BU).
    b. Hiawatha, Inc. (HI).
    c. Rockwood (RO).

2.4 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Restricted Keyway.

D. Patented Cylinders: ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by manufacturer's United States patents.

1. Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.

2. Manufacturers:

a. Sargent (SA) - Degree DG1.
b. No Substitution.

E. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

F. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

G. Construction Keying: Provide construction master keyed cylinders.

H. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Manufacturers:

a. Sargent Manufacturing (SA) - 8200 Series.
b. No Substitution.

B. Tubular Locksets, Grade 1 (Extra Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.

1. Locksets to withstand 3000 inch pounds of torque applied to the locked lever without gaining access.

2. Locksets to fit a standard 2 1/8” bore without the use of through-bolts.

3. Lever handles to be made of solid material with no plastic fillers.

4. Latchbolt head to be one-piece stainless steel construction encased within the lock body.

5. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA A156.2 requirements to 34 million cycles.

6. Furnish with standard 2 3/4” backset and 1/2" throw latchbolt (3/4" at rated paired openings).

7. Manufacturers:

a. Sargent Manufacturing (SA) - 11 Line.

2.6 APERIO WIRELESS ACCESS CONTROL

A. Wireless Access Control Mortise Locks: Wireless technology ANSI/BHMA A156.13 Grade 1 mortise lockset with integrated card reader, deadbolt monitoring, and request-to-exit and door position switch signaling in one complete unit. Motor driven locking/unlocking control of the lever handle trim, 3/4" stainless steel latch, and optional 1" deadbolt with hardened inserts. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. **Wireless access control lock interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**

2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.**
9. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
10. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
11. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

12. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 – 8200 Series.**
    b. **No Substitution**

B. **Wireless Access Control Cylindrical Locks: Wireless technology ANSI/BHMA A156.2 Series 4000 Grade 1 cylindrical lockset with integrated card reader and request-to-exit signaling in one complete unit. Separate DPS connects directly to lock electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings.**

1. **Wireless access control cylindrical locks interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated reader supports HID® 125kHz proximity credentials; or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS/iCLASS SE (full authentication, all formats), MIFARE Classic, DESFire EV1 (full authentication, all formats); or Near Field Communications (NFC); or HID® SIO enabled.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**

6. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
7. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
8. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

9. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 10 Line Series.**
    b. **No Substitution.**

C. **Wireless Access Control Exit Hardware: Wireless technology ANSI/BHMA A156.3 Grade 1 rim and mortise exit device hardware with integrated card reader. Separate DPS connects directly to exit hardware electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override trim.**

1. **Wireless access control exit hardware interfaces using local wireless connection between the electronic exit trim and a communication hub located directly above the door. Communication hub connected via RS-485 to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Outside lever rigid except when in "passage" mode, or valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of exit device latch without necessary electronic activation.**
9. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

10. **Manufacturers:**

    a. **Sargent Manufacturing (SA) - IN100 – 80 Series.**
    b. **No Substitutions**

2.7 INTEGRATED WIRED OUTPUT ACCESS CONTROL, MULTI-CLASS READER

2.8 AUXILIARY LOCKS

A. Mortise Deadlocks, Large Case: ANSI/BHMA A156.13 Grade 1 Certified Products Directory (CPD) listed large case mortise type deadlocks constructed of heavy gauge wrought corrosion resistant steel. One piece stainless steel bolts with a 1" throw. Deadlocks to be products of the same source manufacturer and keyway as other locksets.

1. Manufacturers:

   a. Corbin Russwin Hardware (RU) - ML2000 Series.
   b. Sargent Manufacturing (SA) - 8200 Series.
   c. Yale Commercial(YA) - 8800 Series.

B. Cylindrical Deadlocks: ANSI/BHMA A156.36 Grade 1 Certified Products Directory (CPD) listed deadlocks to fit standard ANSI 161 preparation and 1 3/8" to 1 3/4" thickness doors. Provide tapered collars to resist vandalism and 1" throw solid steel bolt with hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other locksets.

1. Manufacturers:

   a. Arrow Locks (AW) - D Series.
   b. Corbin Russwin Hardware (RU) - DL3000 Series.
   c. Sargent Manufacturing (SA) - 480 Series.
   d. Yale Commercial(YA) - D100 Series.

2.9 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.10 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

   a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
   b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

6. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

7. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.

8. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

9. Rail Sizing: Provide exit device rails factory sized for proper door width application.

10. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Manufacturers:

   a. Sargent Manufacturing (SA) - 80 Series.

2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Manufacturers:

a. Norton Rixson (NO) - 7500 Series.
b. Sargent Manufacturing (SA) - 351 Series.

2.12 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood (RO).

2.13 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).
2. Reese Enterprises, Inc. (RE).

2.14 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.15 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that

are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. PE - Pemko
2. SU - Securitron
3. SA - SARGENT
4. DJ - Don-Jo
5. MK - McKinney
6. OT - Other

Hardware Sets

Set: 1.0

Doors: A105, A131, B109B, B111A, B111B, C100B, C101A, C102A, C104D, D100A, D100B, D105B, E106A, E110A, E115A, E118A, H138, H143, H151, J106A, R102, R107, R108, R109, R112, S101, S107, S108, S109, S110, SB101, SB102, T101, T102, T113, T115, U102, V101, V107, V109, W101, W107, X101, X111

1	Access Control Rim Exit, Aperio, No Key	**5CH** IN100-8878-BIPS B ETL **525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 2.0

Doors: T103, T114

1	Access Control Rim Exit, Aperio, No Key	12 **5CH** IN100-8878-BIPS B ETL **525**(No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 3.0

Doors: **F100A, F102A,** F103A, F106B, F107B, F107D, F109A, F110A, F111A, F112A, F114A, F115A, F116A, F118A, **F121A,** F123, G100A, G101A, G102A, G103A, G109A, G110A, G111A, G112A, M104, M105, M106, M107, N111A, N112A, N113A, N114A, N115A, RELO1, SR101, SR102, SR103, SR104

1	Aperio Control Rim Exit, Keyed, APERIO, KEYED	**5CH** IN100-8877-BIPS B ETL LC **525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

M106: Repair Door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 4.0

Doors: N110A, N200A, N207A, N208A, N209A, N210A, N211A, N212A, S103

1	FIRE Access Control Rim Exit, APERIO, KEYED	12 **5CH** IN100-8877-BIPS B ETL LC **525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 5.0

Doors: A114, B108A, B109A, C100A, C101B, C101C, C101D, C102B, C104A, C104B, C104C, D101A, D105D, D106A, D106B, D106C, E103A, E105B, F106A, H152, J102A, J106B, J110B, K101, K104, K105, K115, K120, **M102,** R101, R106, U101, V108, V110

1	Access Control Rim Exit, Aperio, No Key	**5CH** IN100-8878-BIPS B ETL **525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 6.0

Doors: H100C

1	Access Control Rim Exit, Aperio, No Key	**12 5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 7.0

Doors: B100A, B101A, B106A, B107A, B110A, C103A, F119A, H145, H146

1	Aperio Control Rim Exit, Keyed, **APERIO, KEYED**	**5CH IN100-8877-BIPS B ETL LC 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. **Available for 5 second lock down.**

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 8.0

Doors: U106

1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	
1	Wrap-Around	As Required		OT	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily

unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 8.1

Doors: C108A, C111A, J104A, J108A, M101, M103

1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Wrap Plate**	**As Required**		**DJ**	
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 9.0

Doors: U103

1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡
1	Wrap-Around	As Required		OT	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 10.0

Doors: X106

1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 11.0

Doors: A107, A108, A109, A115, A116, A124, A128, A130, B108B, D101B, **F122A, F122B, H130A**, H133, H134, H139, H153, H154, K106, K107, M108, M109, M110, M111, V102, V103, V104, V105

1	Wrap Plate	As Required		DJ	
1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled as required by district during school hours. Available for 5 second lock down.**

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 12.0

Doors: S105, S106, S111, S113

1	Wrap Plate	As Required		DJ	
1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled as required by district during school hours. Available for 5 second lock down.**

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 13.0

Doors: A101, A102, A103, A104, A110, A111, A112, A113, A117, A118, A119, A120, A121, A122, A123, A125, A126, A127, A129, B102A, B104A, C109A, C110A, D103A, D104A, E112A, F101A, F104A, F105A, F107A, F117A, F120A, G104A, G107A, G108A, H135, H136, H137, H141, H149, H150, J105A, K108, K109, K117, K119, T106, U104, W103, W104

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	IN100-10G77-BIPS B LL - Furnished in 0281300	US26D	SA	⚡
1	Wrap Plate	As Required		DJ	
1	Cylinder	DG1 C10-1 LFIC "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. **Available for 5 second lock down.**

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 14.0

Doors: R103, R104, R105, R110, R111

1	Wrap Plate	As Required		DJ	
1	Access Control Cyl Lock, Aperio, No Key	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 15.0

Doors: E113A, F108A, F113A, G105A, **H112A**, H142, H147, H155, **M112, M113,** W108

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	⚡
1	Wrap Plate	As Required		DJ	
1	Cylinder	DG1 C10-1 LFIC "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 16.0

Doors: K118

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	⚡
1	Wrap Plate	As Required		DJ	
1	Cylinder	DG1 C10-1 LFIC "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 17.0

Doors: H131, H148, J101A, J111A, K111, K112, K113, K114, S102, S104, S112, U105, U107, V106, W102, W105, W106

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	⚡
1	Wrap Plate	As Required		DJ	
1	Cylinder	DG1 C10-1 LFIC "0" bitted for facility keying	US15	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 18.0

Doors: H130B, K102, K103, T104, T105, T107, T108, T109, T110, T111, T112

1	Wrap Plate	As Required		DJ	
1	Access Control Cyl Lock, Aperio, No Key	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	US26D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 19.0

Doors: H102B, X105, X107

1	Access Control Cyl Lock, Aperio, No Key	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	US26D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 20.0

Doors: H108A, J107A, TC100, X102, X103, X104, X108, X109, X110, X112, X113

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	⚡
1	Cylinder	DG1 C10-1 LFIC "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. **Available for 5 second lock down.**

TC100: Repair door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 21.0

Doors: H110A, H110B

1	Access Control Cyl Lock, Aperio, No Key	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	US26D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 22.0

Doors: H109A

1	Access Control Cyl Lock, Aperio, Cyl, Keyed	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	⚡
1	Cylinder	DG1 C10-1 LFIC "0" bitted for facility keying	US15	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 23.0

Doors: J100A, J100B, J100C, J100D, J102B, J110A, K116, N100B, N116A, N117A, N213A, N214A

2	Access Control Rim Exit, Aperio, No Key	**5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	

Notes: Both Doors- Aperio lock - During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 24.0

Doors: H132, H144

1	Mullion	L980	PC	SA	
1	**Access Control Rim Exit, Aperio, No Key**	**5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	**US32D**	**SA**	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

These openings do not meet code - equal pair of 5' doors. Recommend unequal pair or opening up to 6'. Confirm with district

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 25.0

Doors: D100C, D105C, H102A

1	Access Control Rim Exit, Aperio, No Key	**5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 26.0

Doors: H106A, H113A, H113B

2	Access Control Rim Exit, Aperio, No Key	5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 27.0

Doors: A106

2	**Access Control Rim Exit, Aperio, No Key**	5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300	**US32D**	**SA**	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 28.0

Doors: G106A

1	Aperio Control Rim Exit, Keyed, APERIO, KEYED	5CH IN100-8877-BIPS B ETL LC 525 (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	⚡
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 29.0

Doors: H100A, H100B

1	Access Control Rim Exit, Aperio, No Key	**5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 30.0

Doors: H106B

1	**Mullion**	**L980**	**PC**	**SA**	
1	**Access Control Rim Exit, Aperio, No Key**	**5CH IN100-8878-BIPS B ETL 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	**US32D**	**SA**	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

This opening should be changed to an unequal pair - currently a pair of 5' doors.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 31.0

Doors: H114A, H114B

1	Access Control Rim Exit, Aperio, No Key	12 **5CH** IN100-8878-BIPS B ETL **525**(No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled as required by district during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 32.0

Doors: N100A

2	Access Control Rim Exit, Aperio, No Key	12 **5CH** IN100-8878-BIPS B ETL **525**(No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	

Notes: Both doors - Aperio lock - During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 33.0

Doors: E101A, H105A, H140, K110, N101A, N103A, N201A, N203A

1	Access Control Mort Lock, Aperio, Keyed	**IN100-82278 BIPS B OL LC - Furnished in 0281300**	US32D	SA	⚡
1	Indicator	185S-2	US32D	SA	
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 33.1

Doors: H107A

1	Access Control Mort Lock, Aperio, Keyed	IN100-82278 BIPS B OL LC - Furnished in 0281300	US32D	SA	⚡
1	Indicator	185S-2	US32D	SA	
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 34.0

Doors: E100B, E102A, E111A, E111AA, E114A, N105A, N108A, N109A, N204A, N205A, N206A, N215A, SR105, SR106

1	Access Control Mort Lock, Aperio, Keyed	**IN100-82278 BIPS B OL LC - Furnished in 0281300**	US32D	SA	⚡
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 35.0

Doors: E105A

1	Access Control Mort Lock, Aperio, No Deadbolt, No Key	**IN100-82279-BIPS OL LC - Furnished in 0281300**	US32D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 36.0

Doors: J106Cc

1	Access Control Mort Lock, Aperio, No Deadbolt, No Key	IN100-82279-BIPS OL LC - Furnished in 0281300	US32D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 37.0

Doors: H104A

1	Access Control Mort Lock, Aperio, Deadbolt, No Key	**IN100-82277-BIPS B OL LC - Furnished in 0281300**	US32D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 38.0

Doors: J106C

1	Access Control Mort Lock, Aperio,	IN100-82277-BIPS B OL LC - Furnished in	US32D	SA	⚡

	Deadbolt, No Key	0281300			

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 39.0

Doors: H105B

1	Access Control Mort Lock, Aperio, Deadbolt, Keyed	**IN100-82276-BIPS B OL LC - Furnished in 0281300**	US32D	SA	⚡
1	Mortise Cylinder	DG1 10 63 40 "0" bitted for facility keying	US32D	SA	

Notes: During off hours doors closed and locked with free egress at all times. Proper credential will momentarily unlock door. Door to be scheduled open during school hours.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 40.0

Doors: N104A, N107A

1	Access Control Mort Lock, Aperio, Keyed	**IN100-82278 BIPS B OL LC - Furnished in 0281300**	US32D	SA	⚡
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Wrap around plates as required - on rated doors replace or repair and recertify as required

Set: 43.0

Doors: MISC

Description: Aperio Hubs

Hub	**AH40IN2 - Furnished in 0281300**	**SA**	⚡
USB Radio Dongle	**APD-10-USB - Furnished in 0281300**	**SA**	

Notes: Provide the appropriate amount of hubs for proper functionality of the system.

END OF SECTION

SECTION 08 71 00.03
DOOR HARDWARE – TWENTYNINE PALMS JUNIOR HIGH SCHOOL

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 commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 28 Section “Access Control Hardware Devices”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.

5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

D. Proof of Compliance: (California located Projects): Provide a list of product(s) containing chemicals known to cause cancer or reproductive toxicity as defined by the Office of Environmental Health Hazard Assessment (OEHHA) under Proposition 65 (CA Code of Regulations, Title 27, Section 27001). The list includes the specific chemical(s), if the chemical will be exposed to consumers, the means of warning, and an illustration of the label.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

F. California Building Code: Provide hardware that complies with CBC Section 11B.

1. All openings as a part of an accessible route shall comply with CBC Section 11B-404.

2. The clear opening width for a door shall be 32” minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34” and 4” maximum projections into it between 34” and 80” above the finish floor or ground. Door closers and stops shall be permitted to be 78” minimum above the finish floor or ground. CBC Section 11B-404.2.3.

3. Operable hardware on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

Operable parts of such hardware shall be 34" minimum and 44" maximum above finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

4. Hardware (including panic hardware) shall not be provided with "nightlatch" function for any accessible doors or gates unless the following conditions are met:

   a. Such hardware has a 'dogging' feature and is dogged during the time the facility is open.
   b. All 'dogging' operation is performed only by employees as their job function (non-public use).

5. The force for pushing or pulling open a door shall be in accordance with CBC Section 11B-404.2.9.

   a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
   b. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
   c. The 5 pound (22.2 N) maximum force shall be validated for the size of the door used. The Building Materials Listing of the California State Fire Marshal shall indicate that the door hardware meets the 5 pound (22.2 N) force and shall also list the largest door that can be used.

6. Door closing speed shall comply with CBC Section 11B-404.2.8. Closers shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.

7. Floor stops shall not be located in the path of travel and 4" maximum from walls.

8. Thresholds shall comply with CBC Section 11B-404.2.5.

G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

   1. Function of building, purpose of each area and degree of security required.
   2. Plans for existing and future key system expansion.
   3. Requirements for key control storage and software.
   4. Installation of permanent keys, cylinder cores and software.
   5. Address and requirements for delivery of keys.

I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s),

and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:
1. Twenty five years for manual overhead door closer bodies.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution

Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

   a. Burns Manufacturing (BU).
   b. Door Controls International (DC).
   c. Rockwood (RO).

B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:

   a. Burns Manufacturing (BU).
   b. Door Controls International (DC).
   c. Rockwood (RO).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

   a. Burns Manufacturing (BU).
   b. Hiawatha, Inc. (HI).
   c. Rockwood (RO).

2.3 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Restricted Keyway.

D. Patented Cylinders: ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by manufacturer's United States patents. Cylinders are to be factory keyed with owner having the ability for on-site original key cutting.

1. Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.

2. Manufacturers:

a. Sargent (SA) - Degree DG1.
b. No Substitution.

E. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

F. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

G. Construction Keying: Provide temporary keyed construction cores.

H. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.4 APERIO WIRELESS ACCESS CONTROL

A. Wireless Access Control Mortise Locks: Wireless technology ANSI/BHMA A156.13 Grade 1 mortise lockset with integrated card reader, deadbolt monitoring, and request-to-exit and door position switch signaling in one complete unit. Motor driven locking/unlocking control of the lever handle trim, 3/4" stainless steel latch, and optional 1" deadbolt with hardened inserts. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. **Wireless access control lock interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.**
9. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
10. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
11. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

12. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 – 8200 Series.**
    b. **No Substitutions.**

B. Wireless Access Control Cylindrical Locks: Wireless technology ANSI/BHMA A156.2 Series 4000 Grade 1 cylindrical lockset with integrated card reader and request-to-exit signaling in one complete unit. Separate DPS connects directly to lock electronics for door position (open/closed status) monitoring.

Motor driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings.

1. **Wireless access control cylindrical locks interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated reader supports HID® 125kHz proximity credentials; or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS/iCLASS SE (full authentication, all formats), MIFARE Classic, DESFire EV1 (full authentication, all formats); or Near Field Communications (NFC); or HID® SIO enabled.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
6. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
7. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
8. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

9. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 10 Line Series.**
    b. **No Substitutions.**

C. **Wireless Access Control Exit Hardware: Wireless technology ANSI/BHMA A156.3 Grade 1 rim and mortise exit device hardware with integrated card reader. Separate DPS connects directly to exit hardware electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override trim.**

1. **Wireless access control exit hardware interfaces using local wireless connection between the electronic exit trim and a communication hub located directly above the door. Communication hub connected via RS-485 to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**

4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Outside lever rigid except when in "passage" mode, or valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of exit device latch without necessary electronic activation.**
9. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

10. **Manufacturers:**

    a. **Sargent Manufacturing (SA) - IN100 – 80 Series.**
    b. **No Substitutions.**

2.5 INTEGRATED WIRED OUTPUT ACCESS CONTROL, MULTI-CLASS READER

2.6 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.7 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.

1. Manufacturers:

a. Norton Rixson (NO) - 8500 Series.
b. Sargent Manufacturing (SA) - 1431 Series.

2.8 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood (RO).

2.9 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).
2. Reese Enterprises, Inc. (RE).

2.10 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.11 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting

hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. RO - Rockwood
2. SA - SARGENT
3. PE - Pemko
4. OT - Other

Hardware Sets

Set: 1.0

Doors: A104, **A111**, B102, B103, B104, D103, D104, D105, D106, E102**, E118, F105**, G101, **G102**, **G103, G108S**, G110S, **G111M, G112M,** I101**, I102,** I103, I106**, I107**

1	Access Control Rim Exit, Aperio, No Key	IN100-8878-BIPS B ETL **5CH 525** (No Hex/Cyl Dogging - Furnished in 0281300	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 2.0

Doors: **E104,** G109S, **I108, I109,** R101, R102, R103

1	Access Control Rim Exit, Aperio, Keyed	IN100-8877-BIPS B ETL **5CH 525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	⚡
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 3.0

Doors: **A119, A120, A128, A129, I104**

1	**Access Control Rim Exit, Aperio, No Key, Fire Rated**	**12 IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 4.0

Doors: **F103, F104**

1	**Access Control Rim Exit, Aperio, Keyed, Fire Rated**	**12 IN100-8877-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	⚡
1	Rim Cylinder	DG1 63 34 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 5.0

Doors: **B104A, D101, D102, E106, E107, E110, E111, E115**

1	**Access Control Cyl Lock, Aperio, No Key**	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	US26D	SA	⚡
1	Wrap-Around	As Required		OT	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 6.0

Doors**: E103, E105, E113, X102**

1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	⚡
1	**Cylinder**	**DG1 C10-1 "0" bitted for facility keying**	**US15**	**SA**	
1	**Wrap-Around**	**As Required**		**OT**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

REPAIR DOOR: X102

Set: 7.0

Doors: **A118**

1	Flush Bolt w/Fire Bolt	2848	US32D	RO	
1	Access Control Mort Lock, Deadbolt, Aperio, Keyed	IN100-82276-BIPS B OL LC - Furnished in 0281300	US32D	SA	⚡
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	
1	Coordinator	2600	Black	RO	
2	Surface Closer	1431 CPS	EN	SA	
1	Gasketing	S88BL		PE	
1	Astragal	S771BL		PE	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 8.0

Doors: **F101, F102, F117, J101, J103**

1	Mullion	12-L980	PC	SA	
2	Access Control Rim Exit, Aperio, No Key, Fire Rated	12 IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	⚡
1	Cylinder	DG1 63 980C1	US26D	SA	
1	Gasketing	5110BL		PE	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 9.0

Doors**: B104B, E112, E116, E117**

1	Access Control Cyl Lock, Aperio, No Key	IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 10.0

Doors: **RR101, RR104**

1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	US26D	SA	
1	Cylinder	DG1 C10-1 "0" bitted for facility keying	US15	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 11.0

Doors: **A101, A106, A109, A113, A114, A117, E101**

2	**Access Control Rim Exit, Aperio, Keyed**	**IN100-8877-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 12.0

Doors: **A102, A105, A107, A115, A116**

1	**Access Control Rim Exit, Aperio, Keyed**	**IN100-8877-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 13.0

Doors: **A108**

1	**Access Control Rim Exit, Aperio, No Key**	**IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 14.0

Doors: **A133**

1	**Access Control Rim Exit, Aperio, No Key**	**IN100-8878-BIPS B ETL 5CH 525 (No**	US32D	SA	

		Hex/Cyl Dogging - Furnished in 0281300			

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 15.0

Doors: **C108A, C108B**

1	**Mullion**	**L980**	**PC**	**SA**	
1	**Access Control Rim Exit, Aperio, No Key**	**IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300**	**US32D**	**SA**	
1	**Cylinder**	**DG1 63 980C1**	**US26D**	**SA**	
1	**Gasketing**	**5110BL**		**PE**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 16.0

Doors: **A112, E114**

1	**Mullion**	**L980**	**PC**	**SA**	
2	**Access Control Rim Exit, Aperio, Keyed**	**IN100-8877-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	**US32D**	**SA**	
1	**Rim Cylinder**	**DG1 63 34 "0" bitted for facility keying**	**US32D**	**SA**	
1	**Cylinder**	**DG1 63 980C1**	**US26D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 17.0

Doors: **A124, A125, A126, A130, C101A, C117A, G104, G105, I114**

1	**Access Control Mort Lock, Aperio, No Deadbolt, Keyed**	**IN100-82278 OL LC - Furnished in 0281300**	US32D	SA	
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 18.0

Doors: **C111A, E109**

1	**Access Control Mort Lock, Deadbolt, Aperio, Keyed**	**IN100-82276-BIPS B OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡
1	**Indicator**	**185S-2**	**US32D**	**SA**	
1	**Mortise Cylinder**	**DG1 63 41 "0" bitted for facility keying**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 19.0

Doors: A110, A132, A134, C101B, C102A, C102B, C102C, C103A, C103B, C105A, C105B, C106A, C106B, C113A, C113B, F116, F119, F121, F122, G106, G107, I115

1	**Access Control Mort Lock, No Deadbolt, Aperio, No Key**	**IN100-82279-BIPS OL - Furnished in 0281300**	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 20.0

Doors: **A121, A127**

1	**Access Control Mort Lock, No Deadbolt, Aperio, No Key**	**IN100-82279-BIPS OL - Furnished in 0281300**	US32D	SA	⚡

Notes: Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door. **Scheduled open during school hours.**

Set: 21.0

Doors: **J106, J117**, RR102, RR103

1	**Access Control Mort Lock, Aperio, No Deadbolt, Keyed**	**IN100-82278 OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 22.0

Doors: **J104, J105**

1	**Access Control Mort Lock, Aperio, No Deadbolt, Keyed**	IN100-82278 OL LC - Furnished in 0281300	US32D	SA	⚡
1	**Mortise Cylinder**	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 23.0

Doors: **B101, B102A, B102B, X101**

1	**Access Control Mort Lock, Deadbolt, Aperio, Keyed**	IN100-82276-BIPS B OL LC - Furnished in 0281300	US32D	SA	⚡
1	**Mortise Cylinder**	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. **Available for 5 second lock down.**

Set: 24.0

Doors: C102D, C114A, F107, F109, F112, F115, F118, I105, I111, I112, I113, J109, J112, J113, J115, J116

1	**Access Control Mort Lock, No Deadbolt, Aperio, No Key**	IN100-82279-BIPS OL - Furnished in 0281300	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 25.0

Doors: C104A, I110, J102, J107, J108, J118

1	**Access Control Mort Lock, Deadbolt, Aperio, Keyed**	IN100-82276-BIPS B OL LC - Furnished in 0281300	US32D	SA	⚡
1	Mortise Cylinder	DG1 63 41 "0" bitted for facility keying	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 26.0

Doors: **F108, F111, F113, F114, J110, J111, J114**

1	**Access Control Mort Lock, No Deadbolt, Aperio, No Key**	**IN100-82279-BIPS OL - Furnished in 0281300**	US32D	SA	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 27.0

Doors: **A122**

1	**Surface Bolt**	**580**	**US26D**	**RO**	
1	**Access Control Mort Lock, Aperio, No Deadbolt, Keyed**	**IN100-82278 OL LC - Furnished in 0281300**	**US32D**	**SA**	
1	**Mortise Cylinder**	**DG1 63 41 "0" bitted for facility keying**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 28.0

Doors: **E108**

2	Hardware	**Verify in Field**		OT	

Set: 29.0

Doors: **K105, K106**

1	**Access Control Mort Lock, Deadbolt, Aperio, Keyed**	**IN100-82276-BIPS B OL LC - Furnished in 0281300**	US32D	SA	
1	**Mortise Cylinder**	**DG1 63 41 "0" bitted for facility keying**	US32D	SA	

Notes: Verify lock type in field. Patch and repair as required.

Set: 30.0

Doors**: K101, K102, K103, K104**

1	**Access Control Rim Exit, Aperio, Keyed**	**IN100-8877-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging) - Furnished in 0281300**	US32D	SA	
1	**Rim Cylinder**	**DG1 63 34 "0" bitted for facility keying**	US32D	SA	

Notes: Verify lock type in field. Patch and repair as required.

Set: 31.0

Doors: MISC

Description: Aperio Hubs

Hub	**AH40IN2 - Furnished in 0281300**	**SA**	
USB Radio Dongle	**APD-10-USB - Furnished in 0281300**	**SA**	

Notes: Provide the appropriate amount of hubs for proper functionality of the system.

END OF SECTION

SECTION 08 71 00.04
DOOR HARDWARE – LA CONTENTA MIDDLE SCHOOL

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 commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 28 Section “Access Control Hardware Devices”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
b. Complete (risers, point-to-point) access control system block wiring diagrams.
c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Proof of Compliance: (California located Projects): Provide a list of product(s) containing chemicals known to cause cancer or reproductive toxicity as defined by the Office of Environmental Health Hazard Assessment (OEHHA) under Proposition 65 (CA Code of Regulations, Title 27, Section 27001). The list includes the specific chemical(s), if the chemical will be exposed to consumers, the means of warning, and an illustration of the label.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. California Building Code: Provide hardware that complies with CBC Section 11B.

1. All openings as a part of an accessible route shall comply with CBC Section 11B-404.

2. The clear opening width for a door shall be 32" minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34" and 4" maximum projections into it between 34" and 80" above the finish floor or ground. Door closers and stops shall be permitted to be 78" minimum above the finish floor or ground. CBC Section 11B-404.2.3.

3. Operable hardware on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34" minimum and 44" maximum above finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

4. Hardware (including panic hardware) shall not be provided with "nightlatch" function for any accessible doors or gates unless the following conditions are met:

   a. Such hardware has a 'dogging' feature and is dogged during the time the facility is open.
   b. All 'dogging' operation is performed only by employees as their job function (non-public use).

5. The force for pushing or pulling open a door shall be in accordance with CBC Section 11B-404.2.9.

   a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
   b. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
   c. The 5 pound (22.2 N) maximum force shall be validated for the size of the door used. The Building Materials Listing of the California State Fire Marshal shall indicate that the door hardware meets the 5 pound (22.2 N) force and shall also list the largest door that can be used.

6. Door closing speed shall comply with CBC Section 11B-404.2.8. Closers shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.

7. Floor stops shall not be located in the path of travel and 4" maximum from walls.

8. Thresholds shall comply with CBC Section 11B-404.2.5.

G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings

of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:
1. Twenty five years for manual overhead door closer bodies.
2. Two years for electromechanical door hardware, unless noted otherwise.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

   a. Two Hinges: For doors with heights up to 60 inches.
   b. Three Hinges: For doors with heights 61 to 90 inches.
   c. Four Hinges: For doors with heights 91 to 120 inches.
   d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

   a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
   b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

   a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
   b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

   a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

   a. Bommer Industries (BO).

b. McKinney (MK).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

a. Pemko (PE).

2.3 POWER TRANSFER DEVICES

A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Pemko (PE) - EL-CEPT Series.
b. Securitron (SU) - EL-CEPT Series.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
b. McKinney (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

a. McKinney (MK) - QC-C Series.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.

2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

    a. Burns Manufacturing (BU).
    b. Door Controls International (DC).
    c. Rockwood (RO).

B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:

    a. Rockwood (RO).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

    a. Burns Manufacturing (BU).
    b. Hiawatha, Inc. (HI).
    c. Rockwood (RO).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.

3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

D. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

E. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

F. Construction Keying: Provide temporary keyed construction cores.

G. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

P. Electronic Key Management System: Provide an electronic key control system with Stand-alone Plug and Play features including advanced RFID technology. Touchscreen interface with PIN access for keys individually locked in place. Minimum 1,000 system users and 21 iFobs for locking receptors. System shall have a minimum 250,000 audit events screen displayed or ability to be exported via USB port.

1. Manufacturers:

a. Medeco (MC).
b. Traka (TA).

2.7 APERIO WIRELESS ACCESS CONTROL

A. Wireless Access Control Mortise Locks: Wireless technology ANSI/BHMA A156.13 Grade 1 mortise lockset with integrated card reader, deadbolt monitoring, and request-to-exit and door position switch signaling in one complete unit. Motor driven locking/unlocking control of the lever handle trim, 3/4" stainless steel latch, and optional 1" deadbolt with hardened inserts. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. **Wireless access control lock interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.**
9. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
10. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
11. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

12. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 – 8200 Series.**
    b. **No Substitutions.**

B. **Wireless Access Control Cylindrical Locks: Wireless technology ANSI/BHMA A156.2 Series 4000 Grade 1 cylindrical lockset with integrated card reader and request-to-exit signaling in one complete unit. Separate DPS connects directly to lock electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings.**

1. **Wireless access control cylindrical locks interface using local wireless connection between the lock unit and a nearby communication hub. Communication hub connected via RS-485 or Wiegand to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated reader supports HID® 125kHz proximity credentials; or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS/iCLASS SE (full authentication, all formats), MIFARE Classic, DESFire EV1 (full authentication, all formats); or Near Field Communications (NFC); or HID® SIO enabled.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**

5. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
6. **Outside lever rigid except when valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of lock latch bolt without necessary electronic activation.**
7. **Communication Hub: Provide the necessary number of hubs which is connected to the access control system via RS-485 or Wiegand as required by the system. Provide hubs factory paired with the locks, but allow for field configuration as needed.**
8. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

9. **Manufacturers:**

    a. **Sargent Manufacturing (SA) – IN100 10 Line Series.**
    b. **No Substitutions.**

C. **Wireless Access Control Exit Hardware: Wireless technology ANSI/BHMA A156.3 Grade 1 rim and mortise exit device hardware with integrated card reader. Separate DPS connects directly to exit hardware electronics for door position (open/closed status) monitoring. Motor driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override trim.**

1. **Wireless access control exit hardware interfaces using local wireless connection between the electronic exit trim and a communication hub located directly above the door. Communication hub connected via RS-485 to a new or existing online electronic access control system platform.**
2. **Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks will continue functional operation independent of wireless connection slowdown or failure.**
3. **Integrated card reader supports 125kHz proximity credentials; 13.56 MHz contactless credentials: HID® iCLASS (full authentication, all formats, including SEOS), Mifare Classic (Sector and UID), DESFire, NFC-enabled mobile phones.**
4. **Support for HID Mobile Access via Bluetooth Low Energy (BLE) short-range wireless communication.**
5. **Lockdown capability with maximum 10 second response.**
6. **Patent pending credential cache to ensure offline access.**
7. **Power Source: 6 AA alkaline batteries power supply with LED indication of locked, programming mode and low capacity warning status conditions.**
8. **Outside lever rigid except when in "passage" mode, or valid user code is entered. Emergency override access capability with optional mechanical key cylinder retraction of exit device latch without necessary electronic activation.**
9. **Complete installation to include manufacturer's Installation Tool and USB Radio Dongle for initial lock set-up and configuration. Electronic on-line access control system platform, including communication cabling and software, by others.**

10. **Manufacturers:**

    a. **Sargent Manufacturing (SA) - IN100 – 80 Series.**
    b. **No Substitutions.**

2.8 INTEGRATED WIRED OUTPUT ACCESS CONTROL, MULTI-CLASS READER

2.9 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.10 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.

1. Manufacturers:

a. Norton Rixson (NO) - 8500 Series.
b. Sargent Manufacturing (SA) - 1431 Series.

2.11 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood (RO).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

a. Norton Rixson (RF).
b. Rockwood (RO).
c. Sargent Manufacturing (SA).

2.12 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).
2. Reese Enterprises, Inc. (RE).

2.13 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.14 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. DJ - Don-Jo
3. SA - SARGENT
4. RO - Rockwood
5. PE - Pemko

Hardware Sets

Set: 1.0

Doors: A102**, A103**, A104, **A105**, A106, **A107**, A108, **A109, B101,** B102, **B103,** B104, **B105**, B106, B110, **B111,** B112, **B113,** B114, **B115,** B116, **B117,** B118, **B119**, C101, C102, **C103**, C104, **C105**, C106, **C107, D101, D102,** D105, D106, **D107,** D110, **D111, D115, F103,** G103, **G104, G105, H101,** H102, **H103**, H104, H107, **H108**, H109, **H110**, H111, **H112, L101**, L102**, L104,** L105, R108, **R109**

1	Access Control Rim Exit, Aperio, No Key	IN100-8878-BIPS B ETL **5CH 525** (No Hex/Cyl Dogging - Furnished in 0281300	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

REPAIR DOOR : B118.

Set: 2.0

Doors: A101, B108, **B109,** H105, N101A, N102A, N103A, N106A, N107A, N108A**, N109A, N110A**, **N111A**, R101, **R102**, R103, R104, R105, R106, R107, R110, R111, R112, R113, R114, R115, **RR101, RR102**

1	Aperio Control Rim Exit, Keyed	IN100-8877-BIPS B ETL **5CH 525** (No Hex/Cyl Dogging) - Furnished in 0281300	US32D	SA	⚡
1	**Rim Cylinder**	**DG1 10 63 34 "0" bitted for facility keying**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 3.0

Doors: **D112, D119, D120, F102, G102, G111, G113, G115, G118**

1	**Wrap-Around**	**As Required**		**OT**	
1	**Access Control Cyl Lock, Aperio, No Key**	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	**US26D**	**SA**	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 4.0

Doors: **B107, C108, C111, D108, D116, D117, D125, D126, D127, D128, D130, F104, F105, F106, F107, F108, F109, F112, G107, G112, G114, G116, G117, G119, H116, H117**

1	**Wrap Plate**	**As Required**		**DJ**	
1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 5.0

Doors: **C110, D129, F110, F111, H115**

3	**Hinge, Full Mortise**	**TA2714**	**US26D**	**MK**	
1	**Wrap Plate**	**As Required**		**DJ**	
1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	
1	**Surface Closer**	**1431 CPS**	**EN**	**SA**	
1	**Gasketing**	**S88BL**		**PE**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. **Door to be scheduled open during school hours. Available for 5 second lock down.**

Replace door or patch and recertify as required for fire rating

Set: 6.0

Doors: **D123, D124, G110, G120**

3	**Hinge, Full Mortise**	**TA2714**	**US26D**	**MK**	
1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	
1	**Surface Closer**	**1431 OTB**	**EN**	**SA**	
1	**Door Stop**	**441H**	**US26D**	**RO**	
1	**Gasketing**	**S88BL**		**PE**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Replace door or patch and recertify as required for fire rating

Set: 7.0

Doors: **G101, G106**

1	**Access Control Cyl Lock, Aperio, No Key**	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	US26D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 8.0

Doors: G108, G109, H106, RR103, RR104

1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 9.0

Doors**: E105**

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	**Access Control Cyl Lock, Aperio, Cyl,**	**IN100-10G77-BIPS B LL - Furnished in**	**US26D**	**SA**	⚡

	Keyed	**0281300**			
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	
1	**Surface Closer**	**1431 CPS**	**EN**	**SA**	
1	**Threshold**	**Match Existing**		**PE**	
1	**Gasketing**	**303AS**		**PE**	

Notes: Fire label, inspect in field.

Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Set: 10.0

Doors**: B120, B122, D113, D114**

3	**Hinge, Full Mortise**	**TA2714**	**US26D**	**MK**	
1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	
1	**Overhead Holder**	**Surface - Heavy Duty (Traffic) - Model - Stop Only**			
1	**Surface Overhead Stop**	**598S**	**EN**	**SA**	
1	**Surface Closer**	**1431 O**	**EN**	**SA**	
1	**Gasketing**	**S88BL**		**PE**	

Notes: Fire label, inspect in field.

Door normally closed and locked with free egress at all times. Proper credential will momentarily unlock door.

Set: 11.0

Doors: **D103, D104, F101**

2	**Access Control Rim Exit, Aperio, No Key**	**IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300**	US32D	SA	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door**. Door to be scheduled open during school hours. Available for 5 second lock down.**

Set: 12.0

Doors: **C109**

1	**Access Control Rim Exit, Aperio, No Key**	**IN100-8878-BIPS B ETL 5CH 525 (No Hex/Cyl Dogging - Furnished in 0281300**	**US32D**	**SA**	⚡

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 13.0

Doors: **D109**

1	**Wrap Plate**	**As Required**		**DJ**	
1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 14.0

Doors: C113, D118, D121, D122, E101, E102, E103, E104, N104A, N105A

1	**Access Control Mort Lock, Aperio, Keyed**	**IN100-82278 OL LC - Furnished in 0281300**	**US32D**	**SA**	⚡
1	**Mortise Cylinder**	**DG1 63 40 "0" bitted for facility keying**	**US32D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Set: 15.0

Doors: **H118**

1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	⚡
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Verify condition of existing hardware, replace as needed. New flush door.

Set: 16.0

Doors: **B121, B123**

1	**Access Control Cyl Lock, Aperio, No Key**	**IN100-10G77-BIPS LL SPAR 04416 (No Cylinder Override) - Furnished in 0281300**	**US26D**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Verify condition of existing hardware, replace as needed. New flush fire door.

Set: 17.0

Doors: **B124, H113, H114**

1	**Access Control Cyl Lock, Aperio, Cyl, Keyed**	**IN100-10G77-BIPS B LL - Furnished in 0281300**	**US26D**	**SA**	
1	**Cylinder**	**DG1 C10-1 LFIC "0" bitted for facility keying**	**US15**	**SA**	

Notes: During off hours door closed and locked with free egress at all times. Proper credential momentarily unlocks door. Door to be scheduled open during school hours. Available for 5 second lock down.

Verify condition of existing hardware, replace as needed. New flush fire door.

Set: 18.0

Doors: MISC

Description: Aperio Hubs

Hub	**AH40IN2 - Furnished in 0281300**	**SA**	
USB Radio Dongle	**APD-10-USB - Furnished in 0281300**	**SA**	

Notes: Provide the appropriate amount of hubs for proper functionality of the system.

END OF SECTION

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES

MORONGO UNIFIED SCHOOL DISTRICT

RUHNAU CLARKE ARCHITECTS

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES.
2. THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA BUILDING CODE AND CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
3. CONTRACTOR WILL BE REQUIRED TO PROVIDE AND INSTALL ALL EQUIPMENT AND RELATED ITEMS AS SHOWN IN THESE DOCUMENTS AND AS SPECIFIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID AND TO DETERMINE THE WORK NECESSARY TO COMPLETE THE PROJECT.
4. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.)
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF INFORMATION SHOWN ON AVAILABLE DOCUMENTS. ANY DAMAGE TO EXISTING CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN HEREON.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUACY AND SAFETY OF THE DESIGN/ERECTION OF BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING.
8. UNDER NO CIRCUMSTANCE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE DRAWINGS.
9. ALL STANDARDS, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE STATE BUILDING CODES, ORDINANCES, REGULATIONS, AND LAWS.
10. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL AND STATE CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
11. ITEMS MARKED "TYP." OR "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF REQUIREMENTS BETWEEN THE DISCIPLINES BETWEEN DRAWING AND SPECIFICATION IN ORDER TO ENSURE THAT ALL ITEMS SHOWN IN RELATIONSHIP TO ONE ANOTHER OR SHOWN IN MULTIPLE LOCATIONS ARE IN AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DISCREPANCIES, ERRORS, OMISSIONS OR INCONSISTENCIES AND SHALL NOT PROCEED WITH THE WORK UNTIL CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.
13. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DETERIORATION OR NON-COMPLYING CONSTRUCTION AND SHALL NOT PROCEED WITH THE WORK UNTIL CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.
14. GRADING PLANS DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

ARCHITECTURAL ABBREVIATIONS

∠	ANGLE	MACH	MACHINE
AB	ANCHOR BOLT	MAX	MAXIMUM
ABS	ABSOLUTE	MCB	METAL CORNER BEAD
AC	ASPHALTIC CONCRETE	MECH	MECHANICAL
ACC	ACCESSIBLE	MFR	MANUFACTURER
ACP	ACOUSTIC PANEL	MH	MANHOLE
ACT	ACOUSTIC TILE	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
ALUM	ALUMINUM	MO	MASONRY OPENING
AN	ANODIZED	MTL	METAL
AWP	ACOUSTIC WALL PANEL	MBRS	MEMBERS
BD	BOARD	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BLKG	BLOCKING	OC	ON CENTER
BM	BENCH MARK	OD	OUTSIDE DIAMETER
BUR	BUILT-UP ROOFING	ODR	OVERFLOW DRAIN
CAB	CABINET	OFCI	OWNER FURNISHED/APPLICABLE CATEGORY CONTRACTOR INSTALLED
CHLK	CHAINLINK		
CI	CAST IRON	O/	OVER
CJ	CONSTRUCTION/COLD JOINT	OH	OPPOSITE HAND
CL	CENTERLINE	P	PAINT
CLR	CLEAR	PA	PLANTER AREA
CMU	CONCRETE MASONRY UNIT	PCPL	PORTLAND CEMENT PLASTER
COL	COLUMN	PFIN	PREFINISHED
CONC	CONCRETE	PH	PANIC HARDWARE
CPL	CEMENT PLASTER	PI	PAINTED INSULATION FACING
CPT	CARPET	PLAS	PLASTER
CT	CERAMIC TILE	PLAM	PLASTIC LAMINATE
DET	DETAIL	PL	PLATE/PROPERTY LINE
DF	DRINKING FOUNTAIN	PLWD	PLYWOOD
DG	DECOMPOSED GRANITE	PR	PAIR
DIA	DIAMETER	PSM	PAINTED SHEET METAL
DIM	DIMENSION	QT	QUARRY TILE
DN	DOWN	R	RADIUS/RISER/REMOVABLE MULLION
DR	DOOR	RB	RUBBER BASE
DS	DOWNSPOUT	RD	ROOF DRAIN
DSA	DIVISION OF STATE ARCHITECT	REF	REFERENCE
EA	EACH	REINF	REINFORCING
EJ	EXPANSION JOINT	REQ'D	REQUIRED
ELEC	ELECTRIC	RM	ROOM
ELEV	ELEVATION	RO	ROUGH OPENING
ENCL	ENCLOSURE	RSLB	RESILIENT BASE
EPF	EPOXY FLOOR SYSTEM	REF	REFRIGERATOR
EPS	EXPANDED POLYSTYRENE FOAM	SB	SPLASH BLOCK
EQ	EQUAL	SC	SOLID CORE
ES	EXPOSED STRUCTURE	SCHED	SCHEDULE
ESP	EGGSHELL PAINT	SD	STORM DRAIN
EXP	EXPANSION/EXPOSED	SGP	SEMI GLOSS PAINT
EXT	EXTERIOR	SHT	SHEET
EWC	ELECTRIC WATER COOLER	SHTH	SHEATHING
FD	FLOOR DRAIN	SIM	SIMILAR
FEC	FIRE EXTINGUISHER CABINET	SPEC	SPECIFICATIONS
FF	FINISH FLOOR	SQ	SQUARE
FF	FACTORY FINISH	SRF	SEAMLESS RESILIENT FLOORING
FG	FINISH GRADE	SS	STAINLESS STEEL
FHC	FIRE HOSE CABINET	STC	SOUND TRANSMISSION CLASS
FHNS	FLAT HEAD WOOD SCREWS	STD	STANDARD
FIN	FINISH	STL	STEEL
FL	FLOWLINE	STN	STAIN
FLR	FLOOR	STR	STRUCTURAL/STRUCTURE
FOC	FACE OF CONCRETE	SUSP	SUSPENDED
FOF	FACE OF FINISH	TB	TACKBOARD
FOM	FACE OF MASONRY	TC	TOP OF CURB
FOS	FACE OF STUD	TER	TERRAZZO
FRA	FIRE RATED ASSEMBLY	TG	TOP OF GRATE
FRP	FIBERGLASS REINFORCED PANEL	TJ	TOOLED JOINT
FRT	FIRE RETARDANT TREATED	TOM	TOP OF MASONRY
FURN	FURNISH/FURNITURE	TOS	TOP OF SHEATHING
FOW	FACE OF WINDOW	TOP	TOP OF PARAPET
FOD	FACE OF DOOR	TOW	TOP OF WALL
GA	GAUGE	TP	TOP OF PAVING
GALV	GALVANIZED	TS	TOP OF STEEL
GI	GALVANIZED IRON	TYP	TYPICAL
GLULAM	GLUE LAMINATED	T	TEMPERED GLASS
GPL	GYPSUM PLASTER	UC	UNDER CUT
GSM	GALVANIZED SHEET METAL	UNO	UNLESS NOTED OTHERWISE
GWB	GYPSUM WALLBOARD	U.O.S.	UNDERSIDE OF STRUCTURE
GWW	WATER RESISTANT GWB	VAR	VARIES
HB	HOSE BIBB	VERT	VERTICAL
HDW	HARDWARE	VCT	VINYL COMPOSITION TILE
HDWD	HARDWOOD	VT	VINYL TILE
HC	HOLLOW CORE	VSF	VINYL SHEET FLOORING
HM	HOLLOW METAL	VWC	VINYL WALL COVERING
HORIZ	HORIZONTAL	W/	WITH
HR	HOUR	WC	WATERCLOSET
INSUL	INSULATION	WD	WOOD
INT	INTERIOR	WGL	WIREGLASS
INV	INVERT	WH	WATER HEATER
JT	JOINT	WV	WOOD VENEER
JST	JOIST	WWF	WELDED WIRE FABRIC
KCPL	KEENES CEMENT PLASTER	X	FACTORY FINISHED PREFINISHED
LAB	LABORATORY		
LAV	LAVATORY		
LMB	LAMINATED MARKER BOARD		
LP	LAMINATED PLASTIC		

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES

2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 C.C.R.
(2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

2019 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 C.C.R.
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE PART 11, TITLE 24 C.C.R.

2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2019 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2019 CBC (SFM) CHAPTER 35.
SEE CHAPTER 35 FOR STATE CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PARTIAL LIST OF APPLICABLE STANDARDS

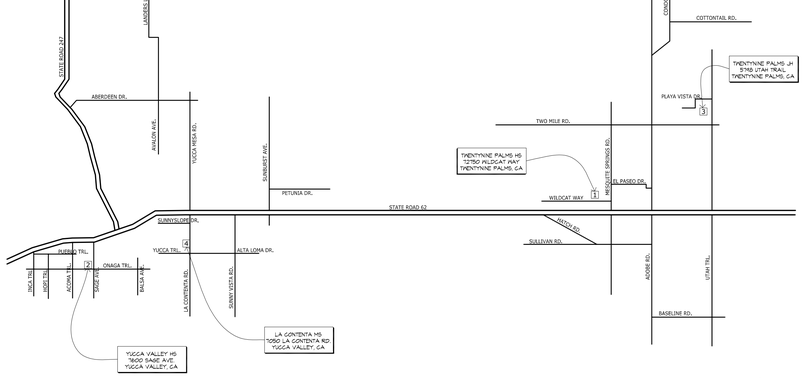
NFPA 13	AUTOMATIC FIRE SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS & THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	ICC STANDARD ON BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRAND STANDS	2017 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS	2005 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION

FOR COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SMF) CHAPTER 35 & CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

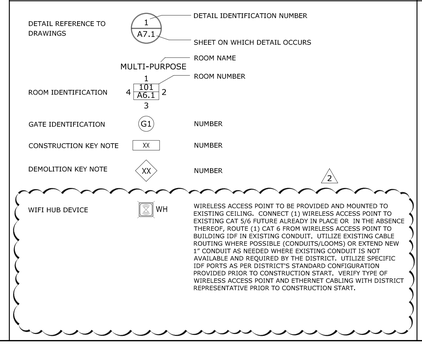
VICINITY MAP

SITES LIST:

1. TWENTYNINE PALMS HIGH SCHOOL
   72750 WILDCAT WAY, TWENTYNINE PALMS, CA 92277
2. YUCCA VALLEY HIGH SCHOOL
   7600 SAGE AVE, YUCCA VALLEY, CA 92284
3. TWENTYNINE PALMS JUNIOR HIGH SCHOOL
   5798 UTAH TRAIL, TWENTYNINE PALMS, CA 92277
4. LA CONTENTA MIDDLE SCHOOL
   7050 LA CONTENTA ROAD, YUCCA VALLEY, CA 92284



ARCHITECTURAL SYMBOLS



CONTACT LIST

OWNER
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL
TWENTYNINE PALMS, CA 92277
TEL: (760) 367-9191
CONTACT: DAVID DANIELS, DIRECTOR
EMAIL: david_daniels@morongo.k12.ca.us

ARCHITECT
RUHNAU CLARKE ARCHITECTS
3775 10TH STREET
RIVERSIDE, CA 92501
TEL: (951) 684-4664
CONTACT: ROGER CLARKE, PRINCIPAL
EMAIL: rclarke@ruhnauclarke.com

HARDWARE CONSULTANT
ASSA ABLOY
9783 E. MAPLEWOOD AVENUE
ENGLEWOOD, CO 80111
MOBILE: (321) 330-6851
CONTACT: STEVEN PELLOT
TEL: steven.pellot@assaabloy.com

SCOPE OF WORK

ACCESS CONTROL AND DOOR HARDWARE UPGRADES AT THE VARIOUS DISTRICT SITES BELOW:

1. TWENTYNINE PALMS HIGH SCHOOL
2. YUCCA VALLEY HIGH SCHOOL
3. TWENTYNINE PALMS JUNIOR HIGH SCHOOL
4. LA CONTENTA MIDDLE SCHOOL

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

SHEET INDEX

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_49\149B3_MorongoUSD_AccessControlUpgrades+5Sites\DESIGN\Revit\CAD\00_T1.0_Title Sheet___ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 7:25 PM

DRAWN BY: MN CHECKED BY: HN

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ISSUE No.____	DATE_____	DESCRIPTION_____	REVISION No.____	DATE_____	DESCRIPTION_____
ISSUE No.____	DATE_____	DESCRIPTION_____	REVISION No.____	DATE_____	DESCRIPTION_____
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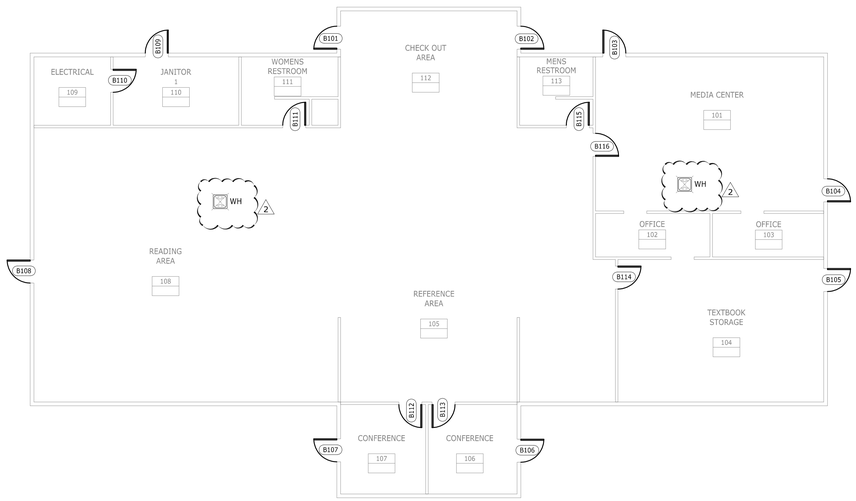
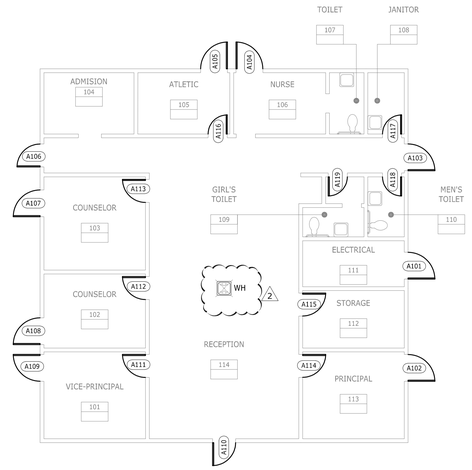


NORTH

BUILDING B - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING A - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'A'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
A101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			A101
A102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A102
A103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A103
A104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A104
A105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A105
A106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A106
A107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A107
A108	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A108
A109	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A109
A110	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A110
A111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				A111
A112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				A112
A113	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						4.0				A113
A114	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						4.0				A114
A115	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				A115
A116	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						4.0				A116
A117	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				A117
A118	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				A118
A119	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				A119

2 TYP.

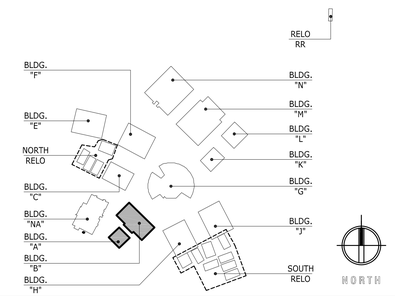
BUILDING A - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'B'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
B101	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			B101
B102	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			B102
B103	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			B103
B104	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			B104
B105	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			B105
B106	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						14.0				B106
B107	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						14.0				B107
B108	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			B108
B109	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						13.0				B109
B110	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				B110
B111	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						18.0				B111
B112	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				B112
B113	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				B113
B114	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				B114
B115	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						18.0				B115
B116	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				B116

2

BUILDING B - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Yorongo_49\1483_Yorongo\50_Access\control\upgrades-49\arch\DES\GNR\rvt\CAD\D2_A101_29Palms HS_Bldg A + B_____ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:18 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
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REVISION No._2_ DATE 06/01/22 DESCRIPTION_ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

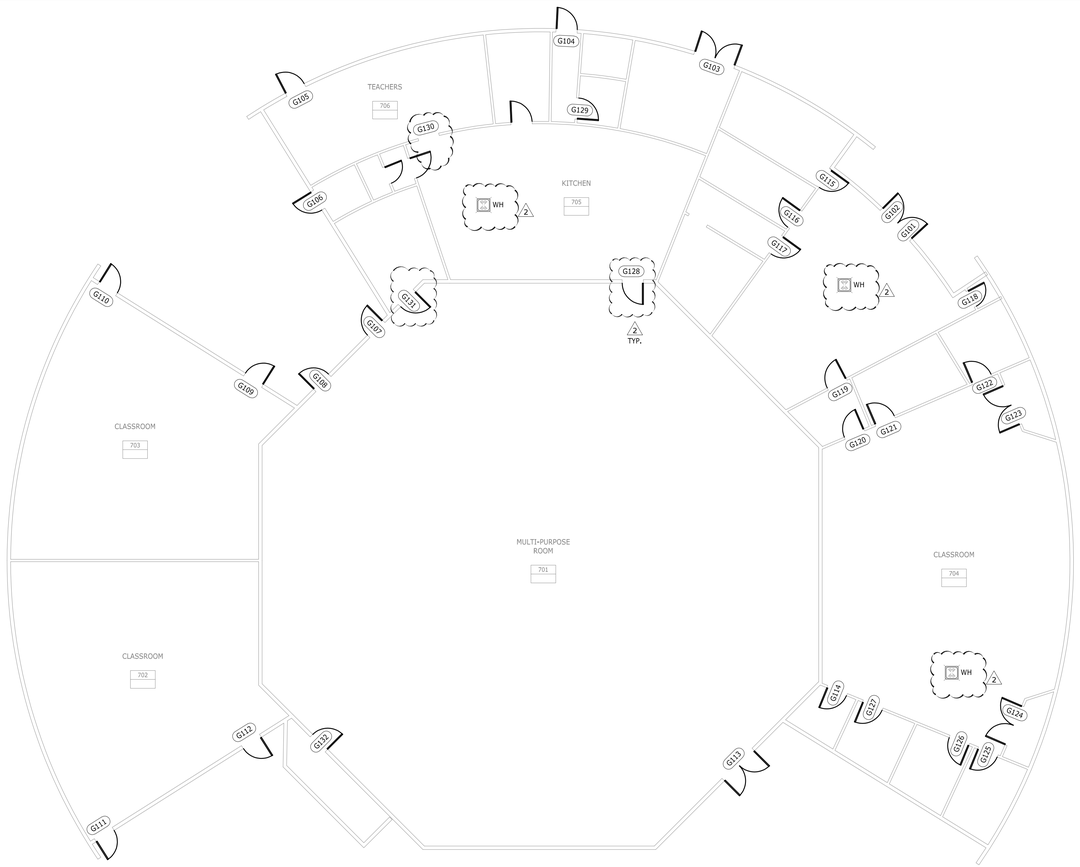
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

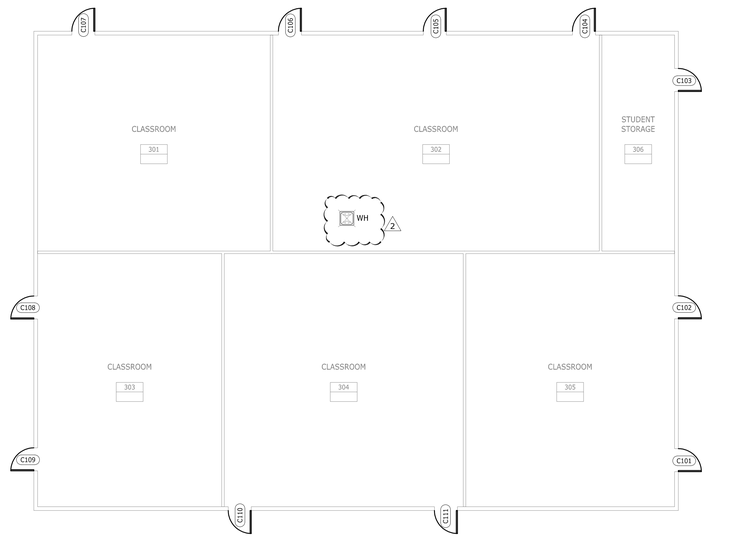
TWENTYNINE PALMS HS
BUILDING A & B
FLOOR PLAN & DOOR SCHED.

A1.01

1-49-83



BUILDING G - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING C - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'C'

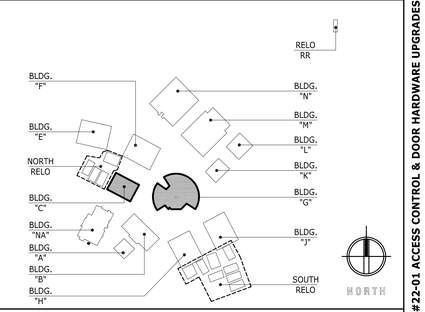
DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
C101	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C101
C102	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C102
C103	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				C103
C104	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C104
C105	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0 (2)	●			C105
C106	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C106
C107	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			C107
C108	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C108
C109	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C109
C110	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C110
C111	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			C111

BUILDING C - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'G'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
G101	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			G101
G102	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G102
G103	(E)	PR 30 x 84	1 3/4"			(E) HM			(E) HM						13.0				G103
G104	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			G104
G105	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						14.0				G105
G106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						13.0				G106
G107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G107
G108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G108
G109	(E)	40 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G109
G110	(E)	40 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G110
G111	(E)	40 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G111
G112	(E)	40 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G112
G113	(E)	PR 30 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G113
G114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			G114
G115	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				G115
G116	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0		45 MIN.		G116
G117	(E)	42 x 84	1 3/4"			(E) WD			(E) HM						2 YP. 6.0				G117
G118	(E)	30 x 80	1 3/4"			(E) WD			(E) HM						6.0				G118
G119	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						1.0	●			G119
G120	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						1.0	●			G120
G121	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				G121
G122	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						6.0				G122
G123	(E)	PR 30 x 80	1 3/4"			(E) WD			(E) HM						6.0				G123
G124	(E)	PR 30 x 80	1 3/4"			(E) WD			(E) HM						6.0				G124
G125	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				G125
G126	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				G126
G127	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						6.0				G127
G128	(E)	36 x 84	1 3/4"			(E) HM			(E) HM									NO ACCESS CONTROL PROVIDE	G128
G129	(E)	30 x 80	1 3/4"			(E) WD			(E) HM						22.0				G129
G130																		EXISTING CASE OPENING, NO DOOR	G130
G131																		NO ACCESS CONTROL PROVIDE	G131
G132	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0		45 MIN.		G132

BUILDING G - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Yorongo_4Fl\4483_Yorongo\50_Access\Control\Upgrades-49ers\DESIGN\Revit\CADV03_A1.02_29Palms HS_Bldg C & G__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:16 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
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REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
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RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

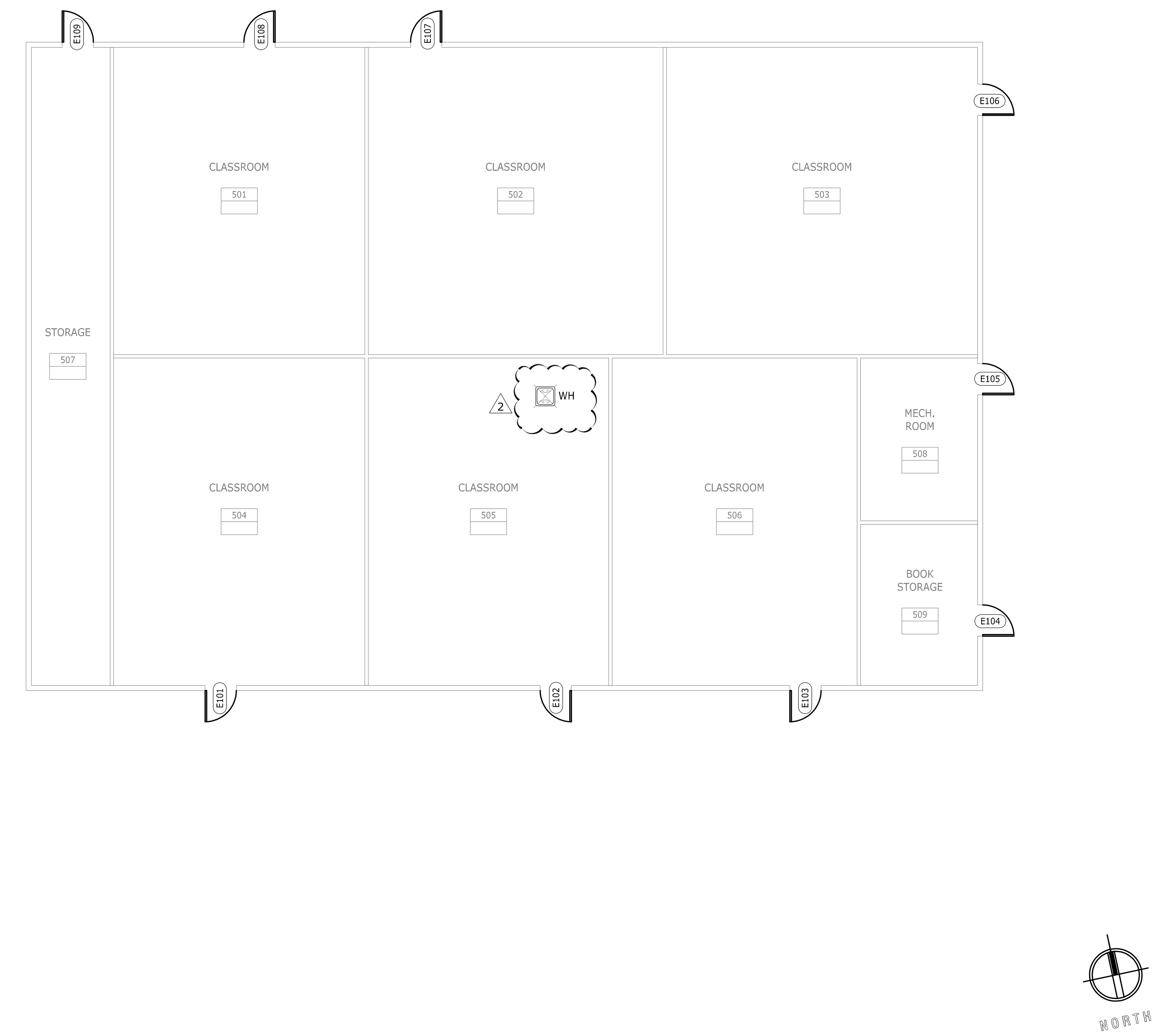
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS HS
BUILDING C & G
FLOOR PLAN & DOOR SCHED.

A1.02

1-49-83

BUILDING F - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING E - FLOOR PLAN | 1/8"=1'-0" | 1

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

DOOR SCHEDULE: BUILDING 'E'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
E101	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			E101
E102	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			E102
E103	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			E103
E104	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				E104
E105	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				E105
E106	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			E106
E107	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			E107
E108	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			E108
E109	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				E109

2 TYP.

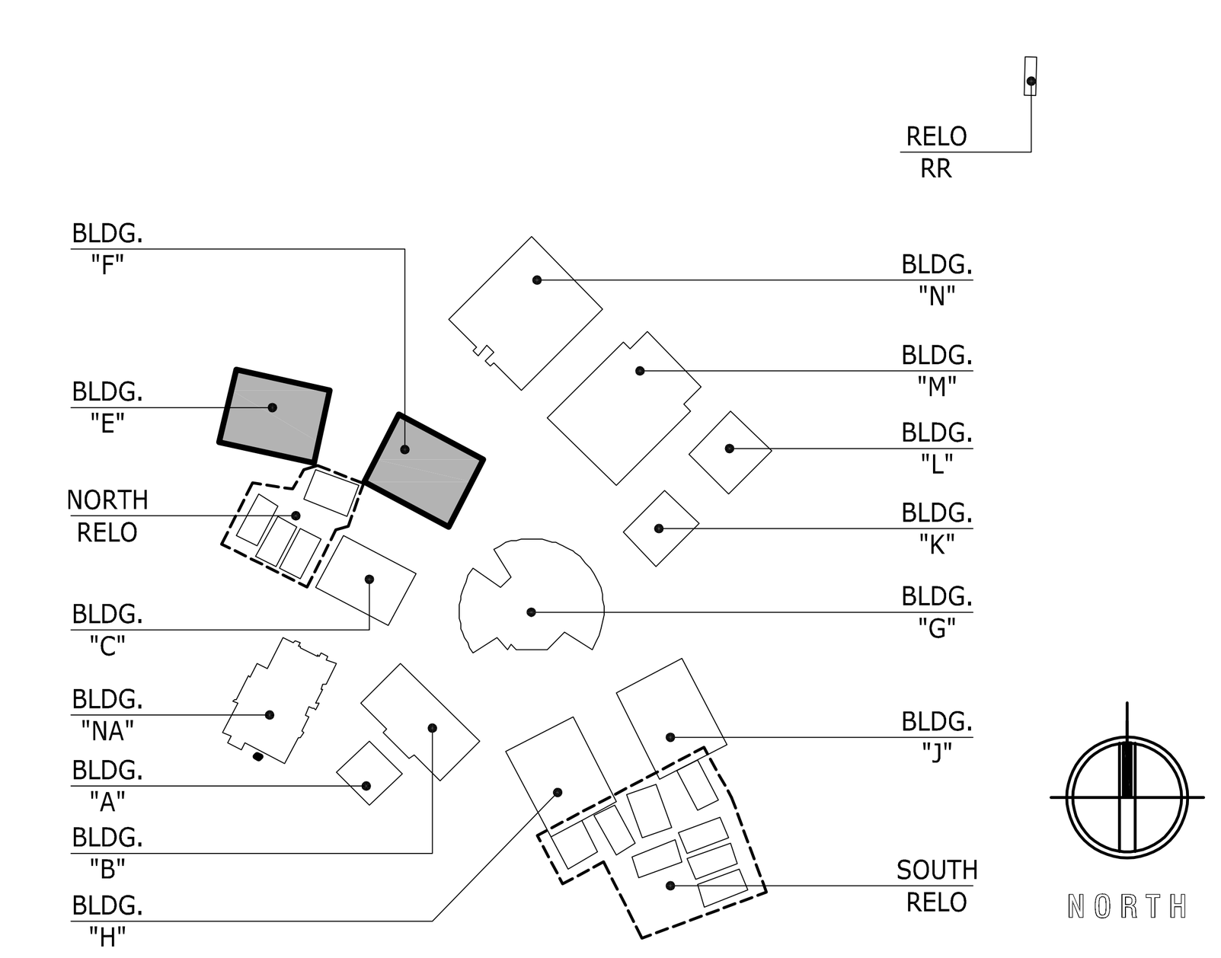
BUILDING E - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'F'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
F101	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			F101
F102	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			F102
F103	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				F103
F104	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			F104
F105	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			F105
F106	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			F106
F107	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						2.0	●			F107
F108	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						9.0				F108
F109	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				F109
F110	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				F110
F111	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				F111
F112	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						14.0				F112

2 TYP.

BUILDING F - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_49\4983_MorongoUSD_AccessControlUpgrades-4Sites\DESIGN\Revit\CAD\04_A1.03_29Palms HS_Bldg E & F___ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:15 PM

DRAWN BY: MN CHECKED BY: HN
ISSUE No.______ DATE________ DESCRIPTION______ REVISION No. 2 DATE 06/01/22 DESCRIPTION ADDENDUM 2
ISSUE No.______ DATE________ DESCRIPTION______ REVISION No.______ DATE________ DESCRIPTION______
ISSUE No.______ DATE________ DESCRIPTION______ REVISION No.______ DATE________ DESCRIPTION______
ISSUE No.______ DATE________ DESCRIPTION______ REVISION No.______ DATE________ DESCRIPTION______

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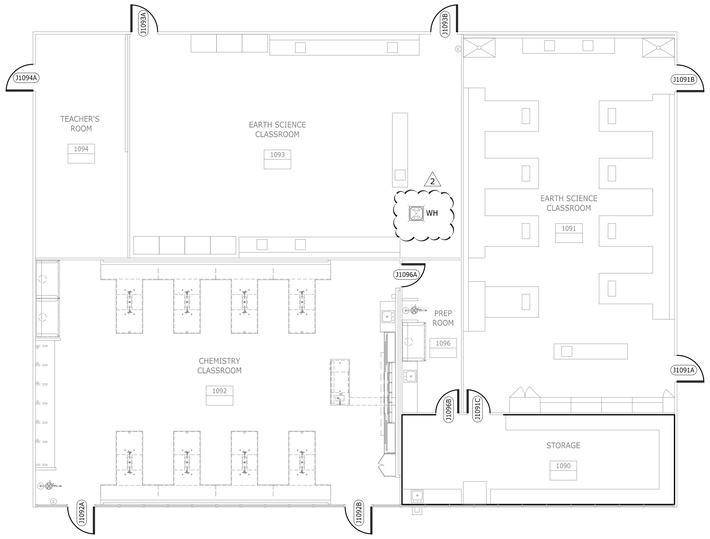
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS HS
BUILDING E & F
FLOOR PLAN & DOOR SCHED.

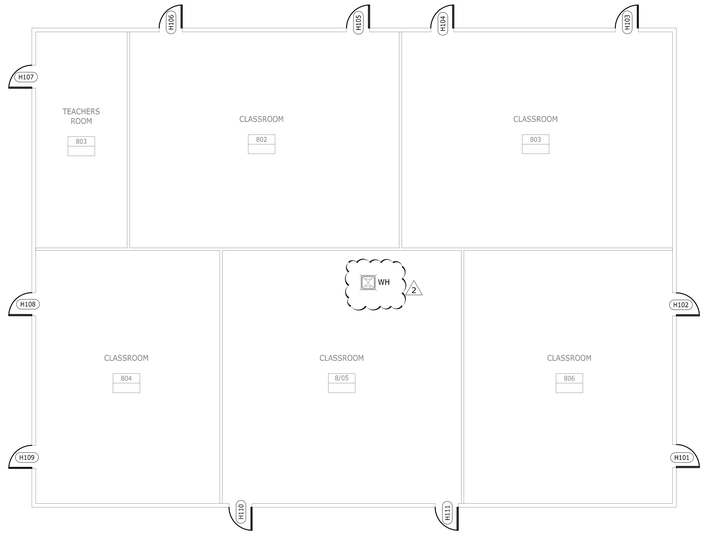
A1.03

1-49-83



NORTH

BUILDING J - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING H - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'H'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
H101	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H101
H102	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H102
H103	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H103
H104	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H104
H105	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H105
H106	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H106
H107	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						13.0				H107
H108	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H108
H109	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H109
H110	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H110
H111	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H111

2 TYP.

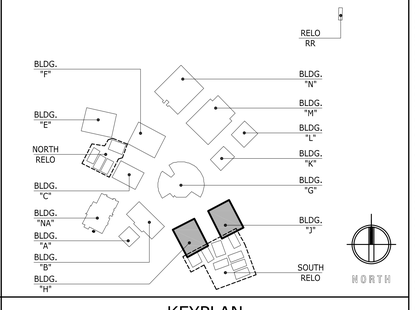
BUILDING H - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'J'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
J1091A	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			J1091A
J1091B	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			J1091B
J1091C	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						4.0				J1091C
J1092A	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			J1092A
J1092B	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			J1092B
J1093A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			J1093A
J1093B	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			J1093B
J1094A	(E)	42 x 80	1 3/4"			(E) HM			(E) HM						13.0				J1094A
J1096A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						4.0				J1096A
J1096B	(E)	30 x 80	1 3/4"			(E) HM			(E) HM						4.0				J1096B

2 TYP.

BUILDING J - DOOR SCHEDULES | N.T.S | 2



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_49\49-83_Morongo\50_Access Control\Upgrades-49\Rev\DESIGN\Rev4\CADD\5_A\04_2PP\dms HS_Bldg H & J_____ ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:10 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
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REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____

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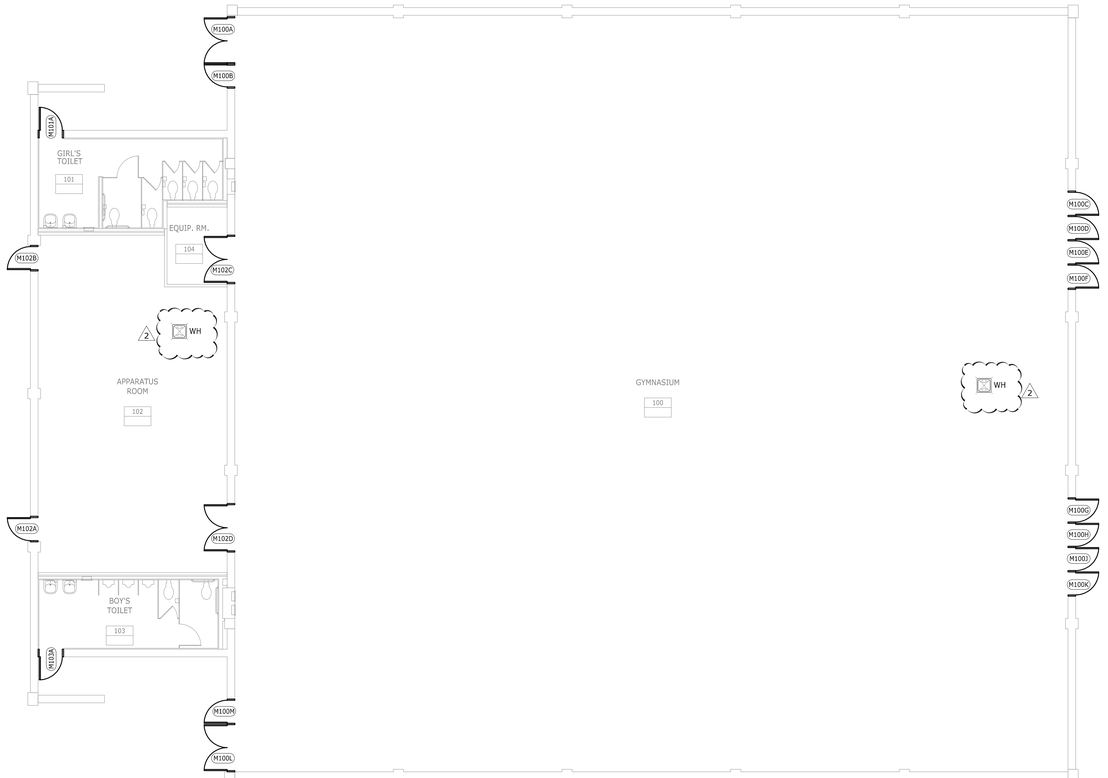
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

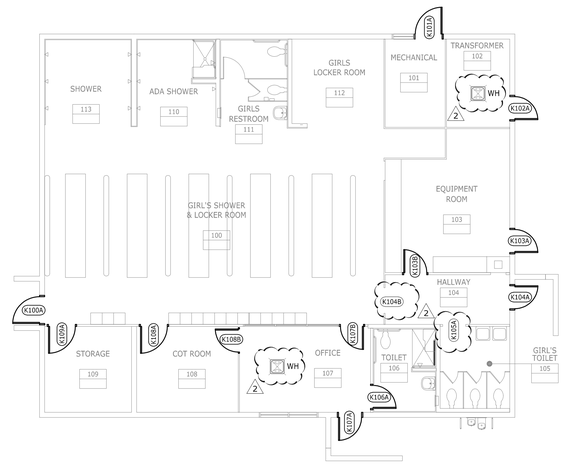
TWENTYNINE PALMS HS
BUILDING H & J
FLOOR PLAN & DOOR SCHED.

A1.04

1-49-83



BUILDING M - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING K - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'K'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
K100A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			K100A
K101A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			K101A
K102A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			K103A
K103A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			K103A
K103B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				K103B
K104A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			K104A
K104B																		EXISTING CASE OPENING, NO DOOR	K104B
K105A																		EXISTING CASE OPENING, NO DOOR	K105A
K106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						22.0				K106A
K107A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			K107A
K107B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				K107B
K108A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						4.0				K108A
K108B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				K108B
K109A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						6.0				K109A

2 TYP.

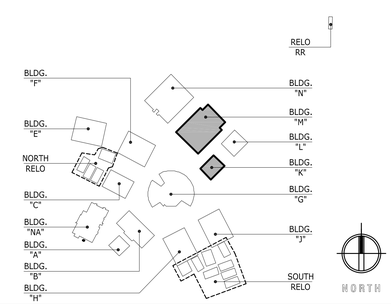
BUILDING K - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'M'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
M100A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100A
M100B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100B
M100C	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100C
M100D	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100D
M100E	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100E
M100F	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100F
M100G	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100G
M100H	(E)	32 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100H
M100J	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100J
M100K	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100K
M100L	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						10.0	●			M100L
M100M	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			M100M
M101A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				M101A
M102A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0	●			M102A
M102B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				M102B
M102C	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						15.0				M102C
M102D	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						16.0				M102D
M103A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						18.0				M103A

2 TYP.

BUILDING M - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_4Yrs\49-83_Morongo\ISD_Access Control\Upgraden-49ten\DES\6NEw4\CAD\06-A1.05_2PP.dms HS_Bldg K & M_____ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:13 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
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REVISION No. 2 DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

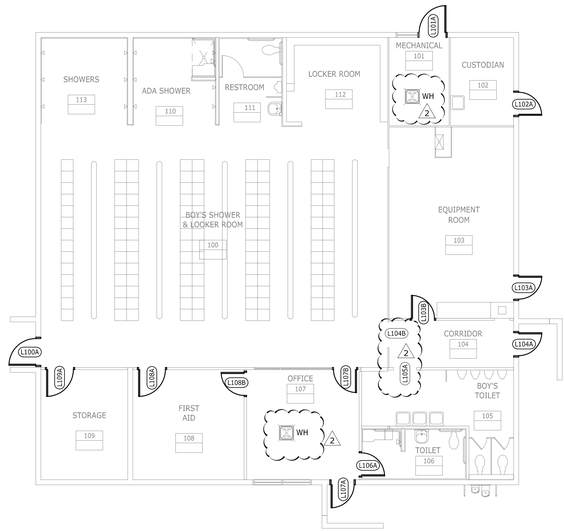
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS HS
BUILDING K & M
FLOOR PLAN & DOOR SCHED.

A1.05

1-49-83

BUILDING N - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING L - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'L'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
L100A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L100A
L101A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			L101A
L102A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			L102A
L103A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L103A
L103B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				L103B
L104A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L104A
L104B																		EXISTING CASE OPENING, NO DOOR	L104B
L105A																		EXISTING CASE OPENING, NO DOOR	L105A
L106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						22.0				L106A
L107A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L107A
L107B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				L107B
L108A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						4.0				L108A
L108B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				L108B
L109A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						6.0				L109A

2 TYP.

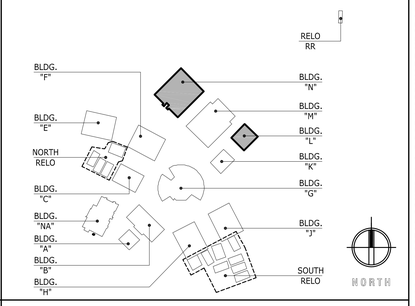
BUILDING L - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'N'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
N104A	(E)	PR 38 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			N104A
N104B	(E)	36 x 84	1 3/4"			(E) WD			(E) WD						4.0				N104B
N105A	(E)	36 x 84	1 3/4"			(E) WD			(E) WD						8.0				N105A
N106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						7.0		45 MIN.	REPAIR DOOR & FRAME BENTS, DENTS AS NEEDED. REPAINT ENTIRE DOOR & FRAME TO MATCH EXISTING CONDITION FINISH	N106A
N106B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						21.0		60 MIN.		N106B
N107A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0				N107A
N109A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N109A
N109B																		NO ACCESS CONTROL PROVIDE	N109B
N110A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N110A
N111A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N111A
N112A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N112A
N112B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				N112B
N113A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N113A
N114A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N114A
N114B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0		45 MIN.		N114B
N115A	(E)	PR 38 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			N115A
N115B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N115B
N115C	(E)	32 x 84	1 3/4"			(E) HM			(E) HM						5.0		45 MIN.		N115C
N116A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N116A
N116B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N116B
N116C	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				N116C
N116D	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				N116D
N117A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			N117A

2 TYP.

BUILDING N - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4M\4493_Morongo\50_Access\Control\Upgrades-49sites\DESIGN\Revit\CAD\OT_A1.06_29Palms HS_Bldg L & N__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:21 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
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ISSUE No.____ DATE____ DESCRIPTION____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____

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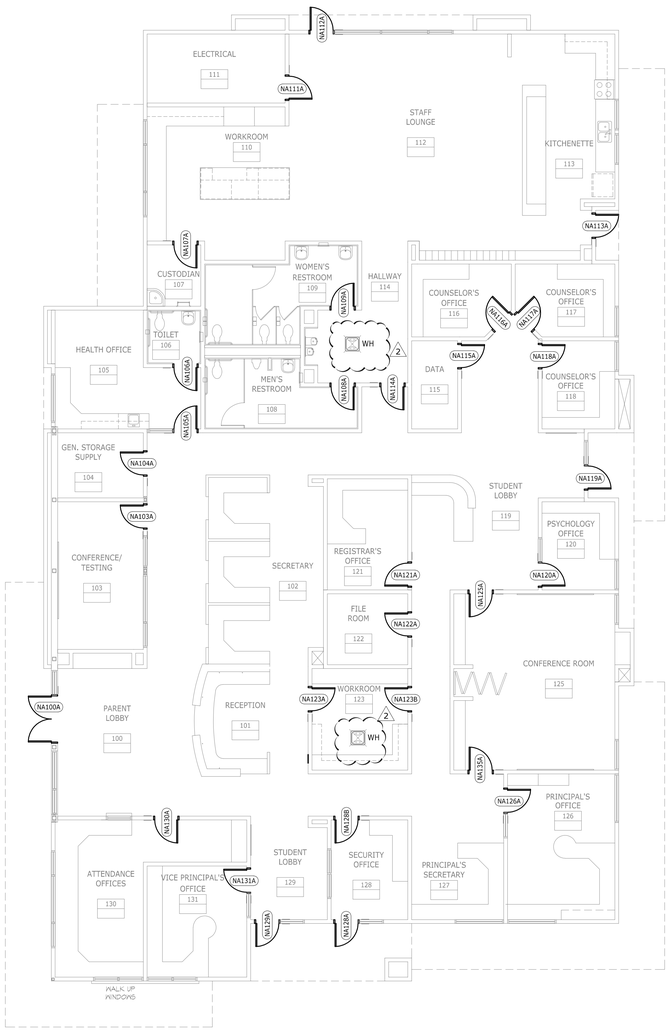
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS HS
BUILDING L & N
FLOOR PLAN & DOOR SCHED.

A1.06

1-49-83



NORTH

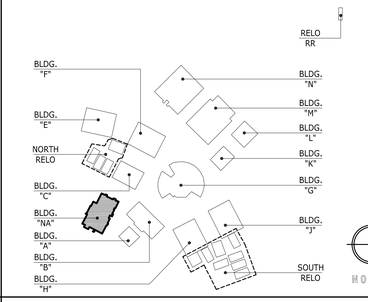
BUILDING NA - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'NA'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NA100A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			NA100A
NA103A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA103A
NA104A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						20.0		60 MIN.		NA104A
NA105A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA105A
NA106A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						12.0				NA106A
NA107A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA107A
NA108A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						9.0				NA108A
NA109A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						9.0				NA109A
NA111A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA111A
NA112A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			NA112A
NA113A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			NA113A
NA114A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				NA114A
NA115A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA115A
NA116A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA116A
NA117A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA117A
NA118A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA118A
NA119A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			NA119A
NA120A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA120A
NA121A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA121A
NA122A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						20.0		60 MIN.		NA122A
NA123A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				NA123A
NA123B	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				NA123B
NA125A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				NA125A
NA126A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA126A
NA128A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			NA128A
NA128B	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				NA128B
NA129A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			NA129A
NA130A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA130A
NA131A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				NA131A
NA135A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				NA135A

2

BUILDING NA - DOOR SCHEDULES | N.T.S | 2



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4M\4M83_Morongo\5D_AccessControl\Upgrades-49Sites\DESIGN\Revit\CAD\08_A1.07_29Palms HS_Bldg NA_____ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:24 PM

DRAWN BY: HN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No._2_ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

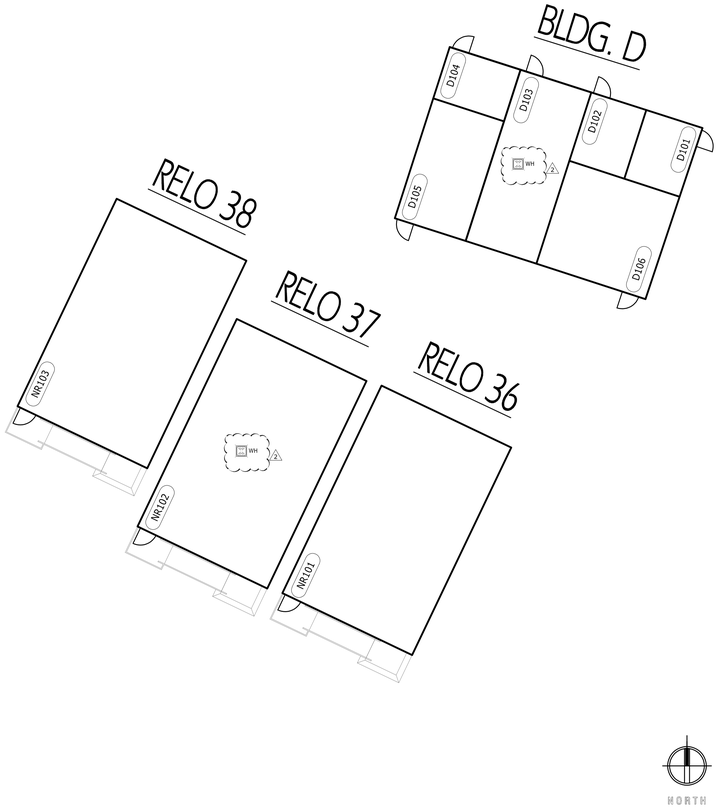
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

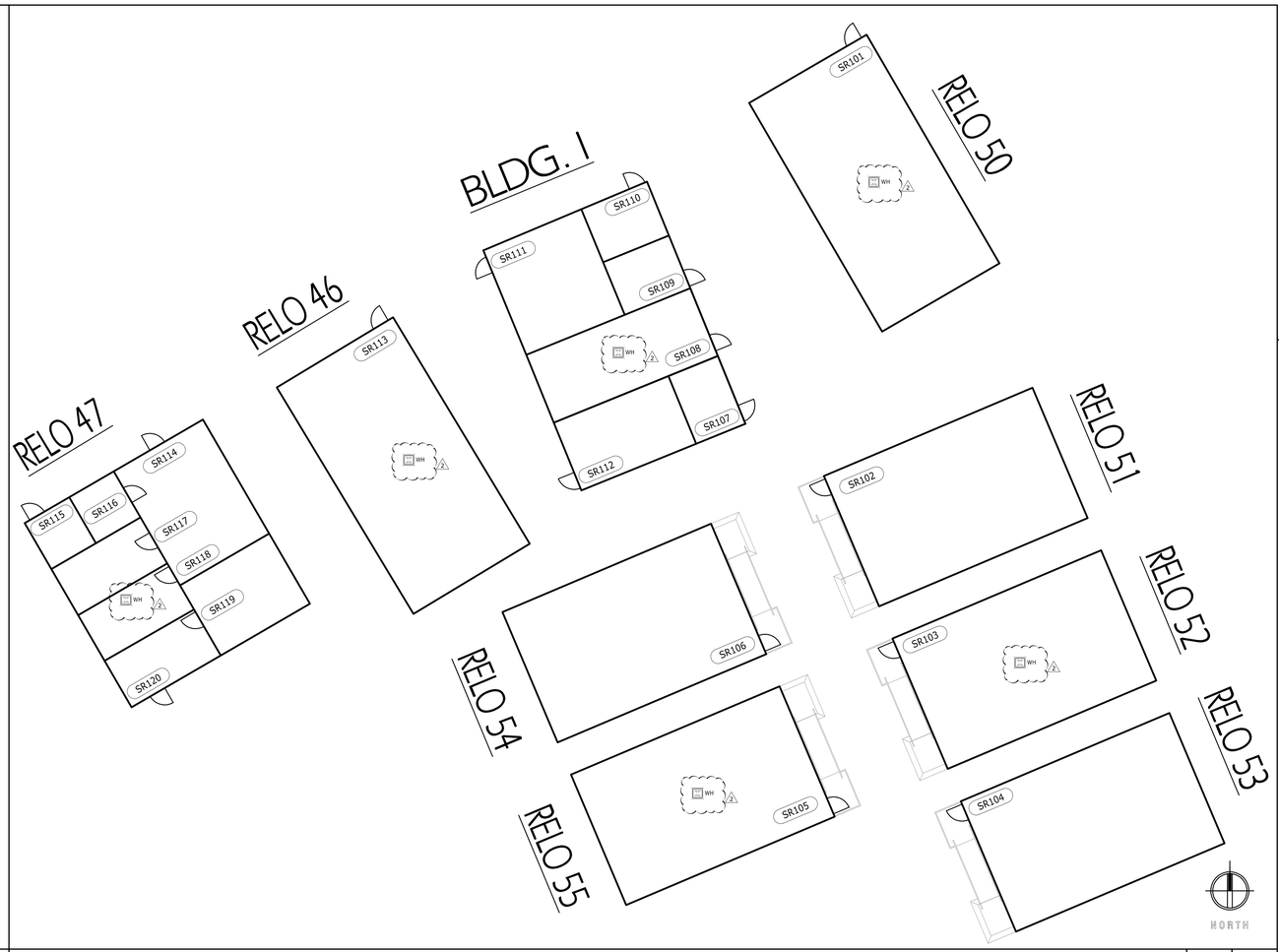
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS HS
BUILDING NA
FLOOR PLAN & DOOR SCHED.

A1.07

1-49-83





NORTH RELO - FLOOR PLAN | 3/32"=1'-0" | 2

SOUTH RELO - FLOOR PLAN | 3/32"=1'-0" | 1

DOOR SCHEDULE: SOUTH RELO BUILDING

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
SR101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR101
SR102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR102
SR103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR103
SR104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR104
SR105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR105
SR106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR106
SR107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						13.0				SR107
SR108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						13.0				SR108
SR109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						12.0				SR109
SR110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						12.0				SR110
SR111	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				SR111
SR112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				SR112
SR113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR113
SR114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR114
SR115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR115
SR116	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						6.0				SR116
SR117	(E)	36 x 84	1 3/4"			(E) WD			(E) WD						4.0				SR117
SR118	(E)	36 x 84	1 3/4"			(E) WD			(E) WD						4.0				SR118
SR119	(E)	36 x 84	1 3/4"			(E) WD			(E) WD						6.0				SR119
SR120	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			SR120

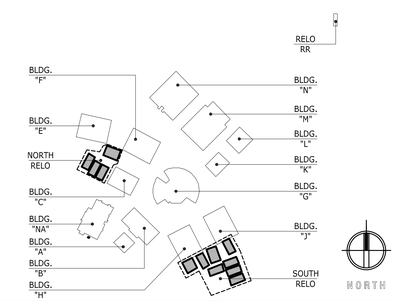
2 TYP.

SOUTH RELO - FLOOR PLAN | N.T.S | 3

DOOR SCHEDULE: NORTH RELO BUILDING

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NR101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			NR101
NR102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			NR102
NR103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			NR103

NORTH RELO - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_4Rl\49-83_Morongo\50_Access Control\Upgraden 49ten\DES\04NEw4\CAD\01_A\08_2RP.dms HS_RELO__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:27 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

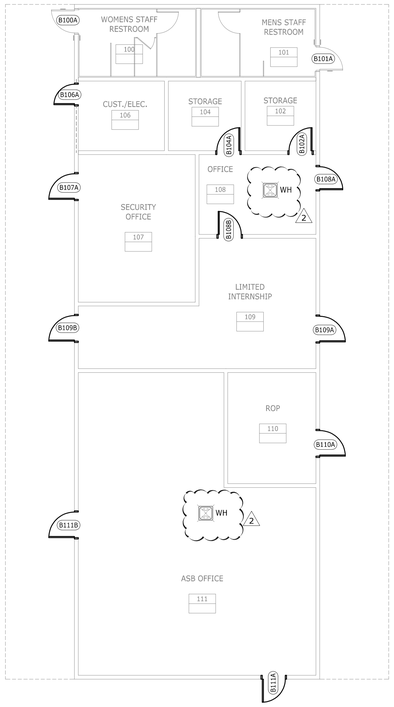
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS HS
NORTH RELO & SOUTH RELO FLOOR PLAN & DOOR SCHED.

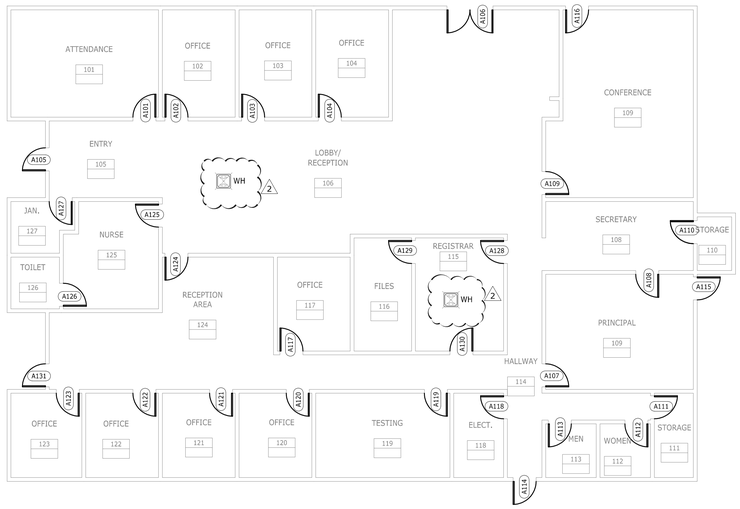
A1.08

1-49-83



NORTH

BUILDING B - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING A - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'A'

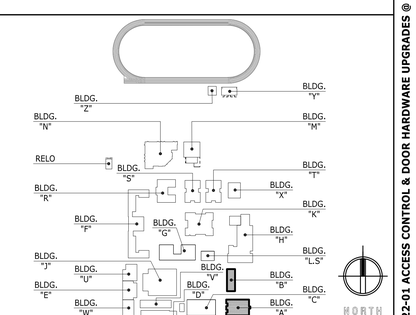
DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
A101	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A101 13.0				A101
A102	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A102 13.0				A102
A103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						A103 13.0				A103
A104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A104 13.0				A104
A105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						A105 1.0	●			A105
A106	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						A106 27.0	●			A106
A107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A107 11.0		45 MIN.		A107
A108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A108 11.0				A108
A109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A109 11.0				A109
A110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A110 13.0				A110
A111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A111 13.0		45 MIN.		A111
A112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A112 13.0				A112
A113	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A113 13.0				A113
A114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						A114 5.0	●			A114
A115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						A115 11.0				A115
A116	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						A116 11.0				A116
A117	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A117 13.0				A117
A118	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A118 13.0		45 MIN.		A118
A119	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A119 13.0				A119
A120	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A120 13.0				A120
A121	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A121 13.0				A121
A122	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A122 13.0				A122
A123	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A123 13.0				A123
A124	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A124 11.0				A124
A125	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A125 13.0				A125
A126	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A126 13.0				A126
A127	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A127 13.0		45 MIN.		A127
A128	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A128 11.0				A128
A129	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A129 13.0		45 MIN.		A129
A130	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						A130 11.0				A130
A131	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						A131 1.0	●			A131

BUILDING A - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'B'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
B100A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						7.0	●			B100A
B101A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						7.0	●			B101A
B102A	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						13.0				B102A
B104A	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						13.0				B104A
B106A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						7.0	●			B106A
B107A	(E)	40 x 82	1 3/4"			(E) HM			(E) HM						7.0	●			B107A
B108A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						5.0	●			B108A
B108B	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						11.0				B108B
B109A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						5.0	●			B109A
B109B	(E)	40 x 82	1 3/4"			(E) HM			(E) HM						1.0	●			B109B
B110A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						7.0	●			B110A
B111A	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0	●			B111A
B111B	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0	●			B111B

BUILDING B - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Yucca...49\1483_Morongo\50_AccessControl\Upgrades-49ers\V25\GNRev\ArCAD\I_A2.01_Yucca Valley HS_Bldg A & B.dwg

PROJECT No. : 1-49-83
6/1/2022 5:32 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
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ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
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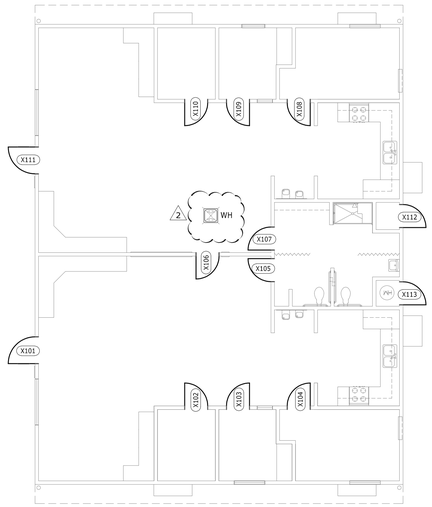
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING A & B
FLOOR PLAN & DOOR SCHED.

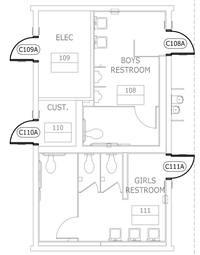
A2.01

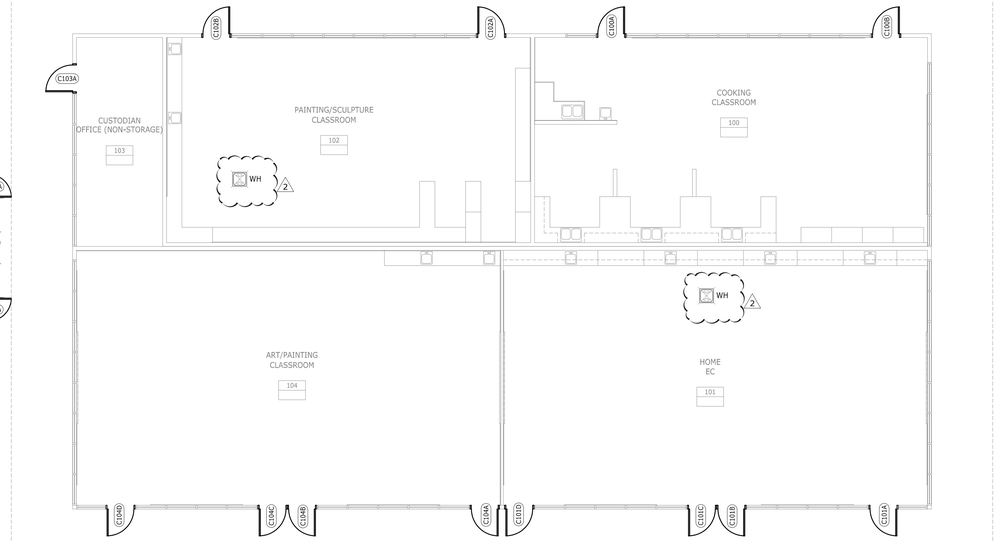
1-49-83



BUILDING X - FLOOR PLAN | 1/8"=1'-0" | 2

NORTH





BUILDING C - FLOOR PLAN | 1/8"=1'-0" | 1

NORTH

DOOR SCHEDULE: BUILDING 'C'

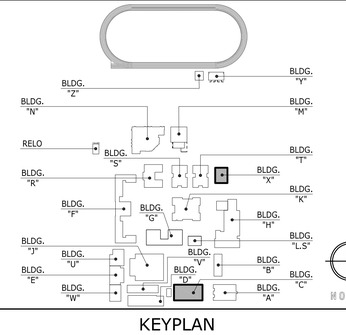
DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
C100A	(E)	42 x 84	1 3/4"			(E) WD			(E) HM						5.0	●			C100A
C100B	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C100B
C101A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C101A
C101B	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C101B
C101C	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C101C
C101D	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C101D
C102A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C102A
C102B	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C102B
C103A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						7.0	●			C103A
C104A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C104A
C104B	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C104B
C104C	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			C104C
C104D	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C104D
C108A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.1				C108A
C109A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						13.0				C109A
C110A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						13.0				C110A
C111A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.1				C111A

BUILDING C - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'X'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
X101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			X101
X102	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						20.0				X102
X103	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						20.0		20 MIN.		X103
X104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						20.0		20 MIN.		X104
X105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						19.0		20 MIN.		X105
X106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						10.0		20 MIN.		X106
X107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						19.0				X107
X108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						20.0				X108
X109	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						20.0				X109
X110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						20.0		20 MIN.		X110
X111	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			X111
X112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						20.0				X112
X113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						20.0				X113

BUILDING X - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

NORTH

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Yucca Valley HS_49\49-83_Morongo\50_Access Control\Upgrades-49\Revit\CAD\2_A202_Yucca Valley HS_Bldg C & X___ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:35 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____

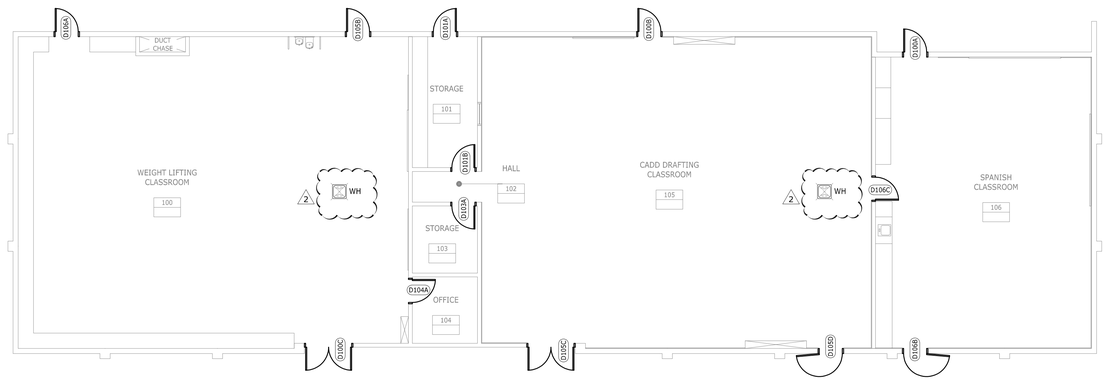
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLY HS
BUILDING C & X
FLOOR PLAN & DOOR SCHED.

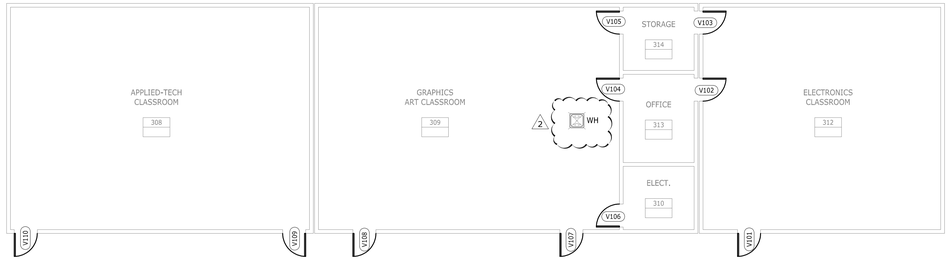
A2.02

1-49-83



HORTH

BUILDING D - FLOOR PLAN | 1/8"=1'-0" | 1



HORTH

BUILDING V - FLOOR PLAN | 1/8"=1'-0" | 2

DOOR SCHEDULE: BUILDING 'D'

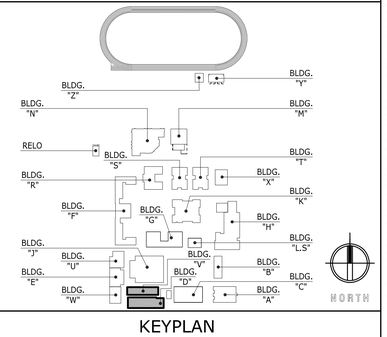
DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
D100A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D100A
D100B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D100B
D100C	(E)	PR 56 x 90	1 3/4"			(E) HM			(E) HM						25.0	●			D100C
D101A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			D101A
D101B	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						11.0				D101B
D103A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				D103A
D104A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				D104A
D105B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D105B
D105C	(E)	PR 36 x 90	1 3/4"			(E) HM			(E) HM						25.0	●			D105C
D105D	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			D105D
D106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			D106A
D106B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			D106B
D106C	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			D106C

BUILDING D - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'V'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
V101	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			V101
V102	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						11.0				V102
V103	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						11.0				V103
V104	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						11.0				V104
V105	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						11.0				V105
V106	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		V106
V107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			V107
V108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			V108
V109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			V109
V110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			V110

BUILDING V - DOOR SCHEDULES | N.T.S | 4



HORTH

KEYPLAN

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

PROJECT No. : 1-49-83
6/1/2022 5:38 PM

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ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

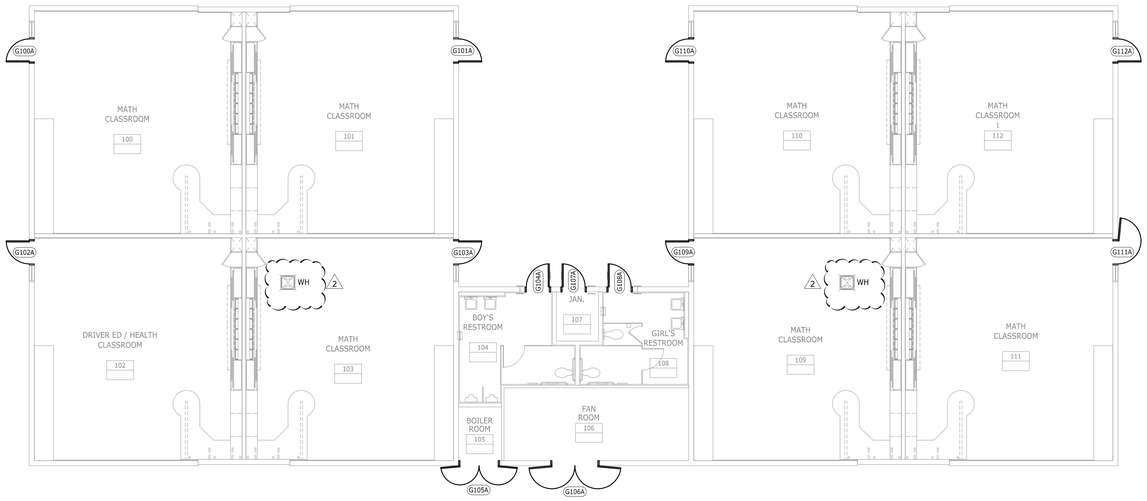
YUCCA VALLEY HS
BUILDING D & V
FLOOR PLAN & DOOR SCHED.

A2.03

1-49-83

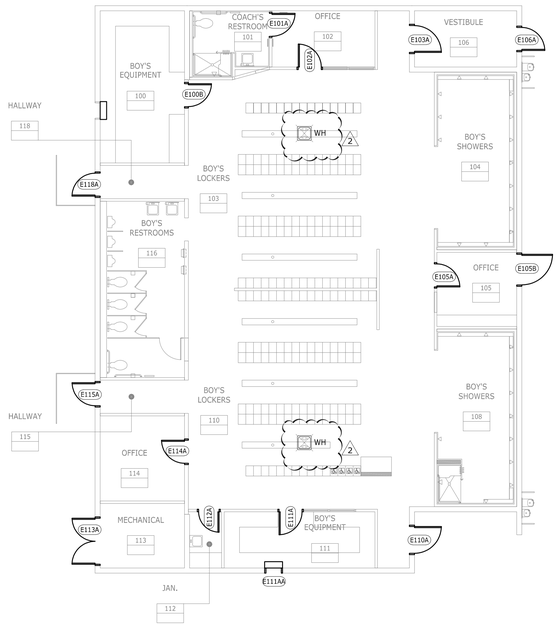
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_49\49-83_Morongo\50_Access Control\Upgrades-49ers\DESIGN\Revit\CAD\B_A2.03_Yucca Valley HS_Bldg D & V___ADD 2.dwg



HORTH

BUILDING G - FLOOR PLAN | 1/8"=1'-0" | 2



HORTH

BUILDING E - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'E'

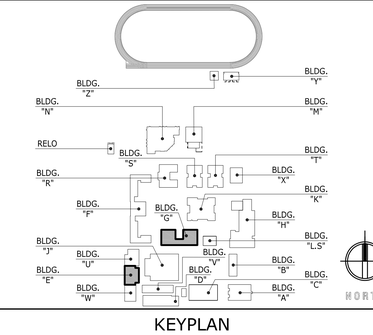
	DOOR								FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
E100B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				E100B
E101A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						33.0				E101A
E102A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				E102A
E103A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			E103A
E105A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						35.0				E105A
E105B	(E)	48 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			E105B
E106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			E106A
E110A	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			E110A
E111A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				E111A
E111AA	(E)	24 x 84	1 3/4"			(E) HM			(E) HM						34.0				E111AA
E112A	(E)	32 x 84	1 3/4"			(E) HM			(E) HM						13.0				E112A
E113A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						15.0				E113A
E114A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				E114A
E115A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			E115A
E118A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			E118A

BUILDING E - FLOOR PLAN | 1/8"=1'-0" | 3

DOOR SCHEDULE: BUILDING 'G'

	DOOR								FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
G100A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G100A
G101A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G101A
G102A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G102A
G103A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G103A
G104A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				G104A
G105A	(E)	PR 30 x 80	1 3/4"			(E) HM			(E) HM						15.0				G105A
G106A	(E)	PR 36 x 80	1 3/4"			(E) HM			(E) HM						28.0	●			G106A
G107A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				G107A
G108A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				G108A
G109A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G109A
G110A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G110A
G111A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G111A
G112A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			G112A

BUILDING G - DOOR SCHEDULES | N.T.S | 4



HORTH

KEYPLAN

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

PROJECT No. : 1-49-83
6/1/2022 5:41 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No.____	DATE____	DESCRIPTION____		REVISION No.__2__	DATE 06/01/22	DESCRIPTION ADDENDUM 2	
ISSUE No.____	DATE____	DESCRIPTION____		REVISION No.____	DATE____	DESCRIPTION____	
ISSUE No.____	DATE____	DESCRIPTION____		REVISION No.____	DATE____	DESCRIPTION____	
ISSUE No.____	DATE____	DESCRIPTION____		REVISION No.____	DATE____	DESCRIPTION____	

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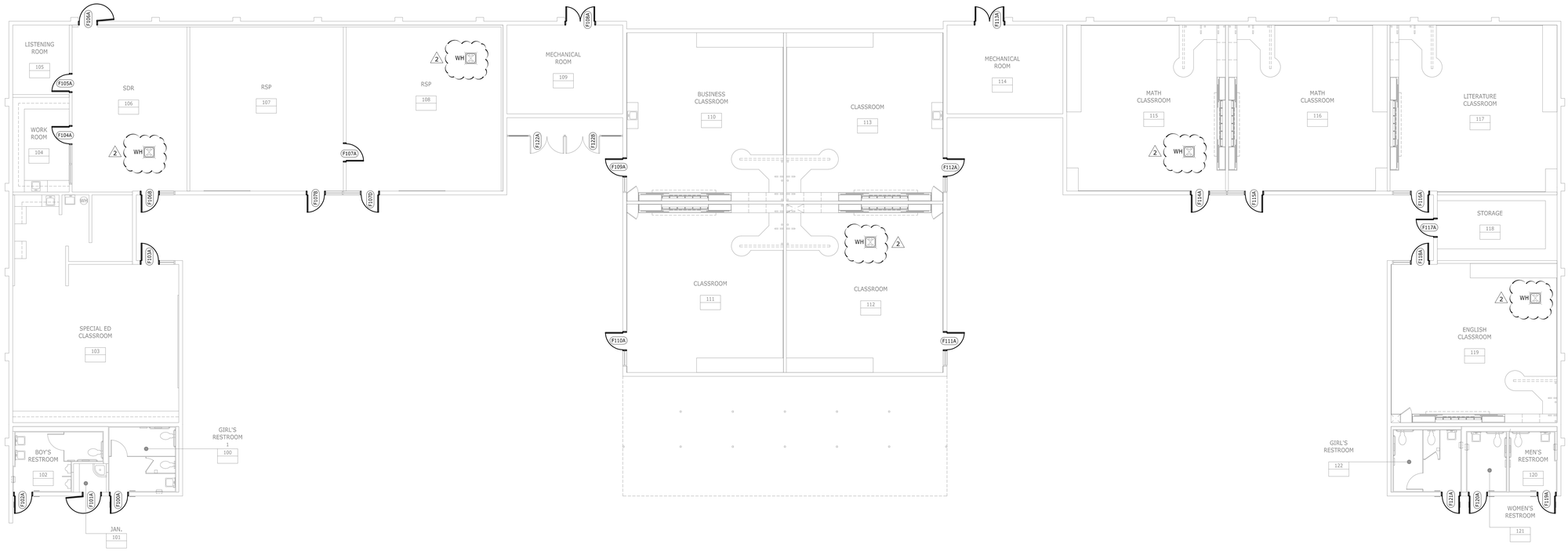
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING E & G
FLOOR PLAN & DOOR SCHED.

A2.04

1-49-83



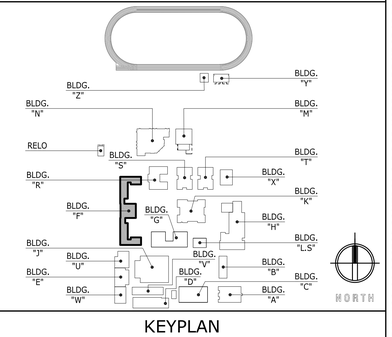
NORTH

BUILDING F - FLOOR PLAN | 3/32"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'F'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
F100A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F100A
F101A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				F101A
F102A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						3.0	●			F102A
F103A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F103A
F104A	(E)	36 x 80	1 3/4"			(E) WD			(E) WD						13.0				F104A
F105A	(E)	36 x 80	1 3/4"			(E) WD			(E) WD						13.0				F105A
F106A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						5.0	●			F106A
F106B	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F106B
F107A	(E)	36 x 80	1 3/4"			(E) WD			(E) WD						13.0				F107A
F107B	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F107B
F107D	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F107D
F108A	(E)	PR 30 x 80	1 3/4"			(E) HM			(E) HM						15.0				F108A
F109A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F109A
F110A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F110A
F111A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F111A
F112A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F112A
F113A	(E)	PR 30 x 80	1 3/4"			(E) HM			(E) HM						15.0				F113A
F114A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F114A
F115A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F115A
F116A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F116A
F117A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				F117A
F118A	(E)	30 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			F118A
F119A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						7.0	●			F119A
F120A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						13.0				F120A
F121A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM					2 TYP.	3.0	●			F121A
F122A	(E)	PR 36 x 80	1 3/4"			(E) WD			(E) HM						11.0				F122A
F122B	(E)	PR 36 x 80	1 3/4"			(E) WD			(E) HM						11.0				F122B
F123A	(E)	PR 36 x 80	1 3/4"			(E) WD			(E) HM						3.0	●			F123A

BUILDING F - DOOR SCHEDULES | N.T.S | 2



KEYPLAN

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_4R\49-83_Morongo\50_AccessControl\Upgrades-49ers\DESIGN\Revit\CAD\05_A2.05_Yucca Valley HS_Bldg F_____ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 5:43 PM

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ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No._2_ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

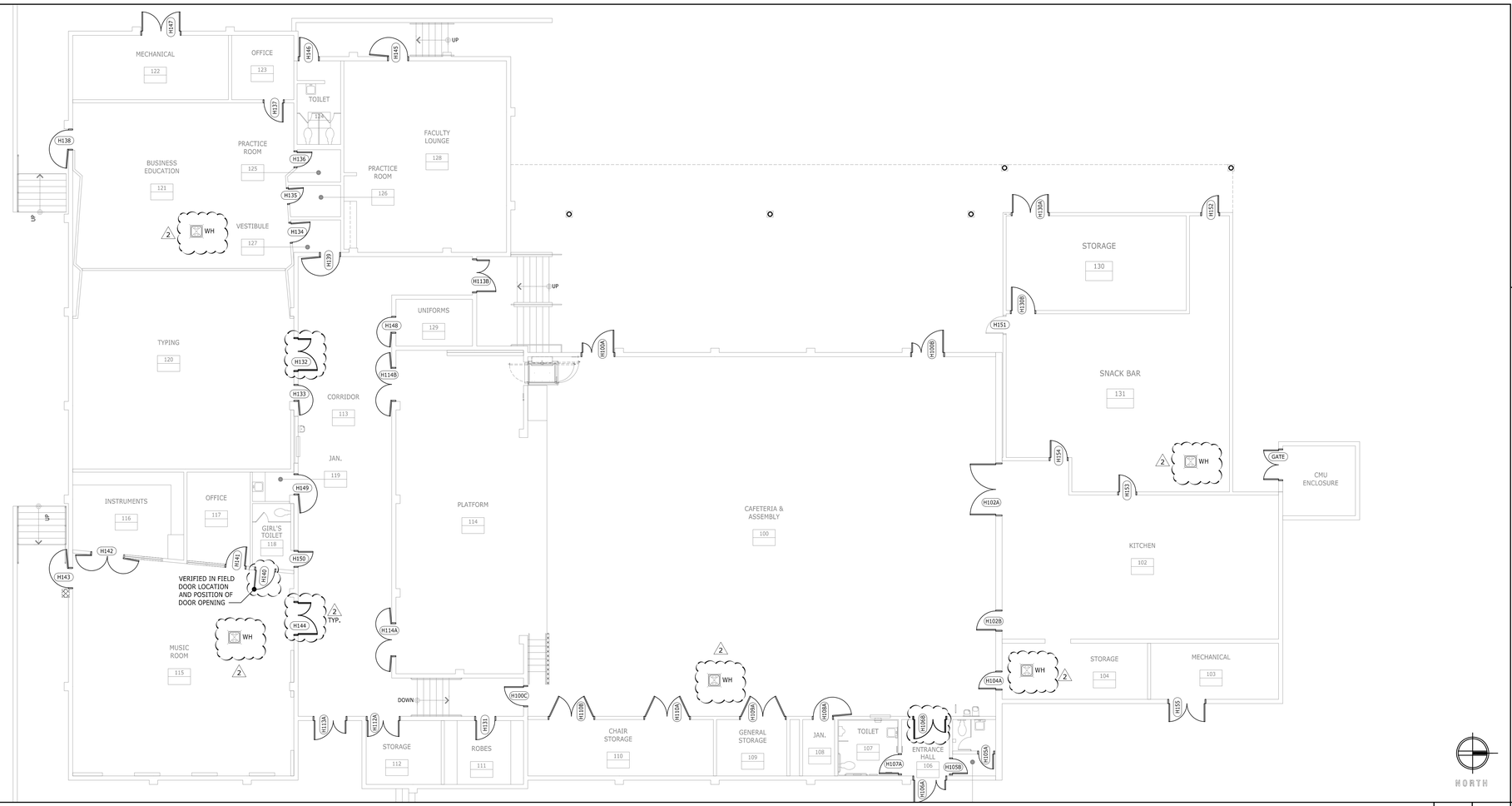
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING F
FLOOR PLAN & DOOR SCHED.

A2.05

1-49-83

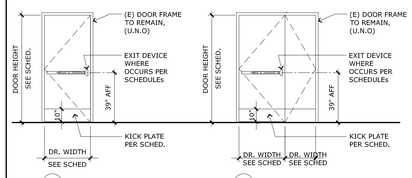


BUILDING H - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'H'

	DOOR								FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
H100A	(E)	PR 60 x 80	1 3/4"			(E) HM			(E) HM						29.0	●		PAIR OF DOOR NOT EQUAL SIDE	H100A
H100B	(E)	PR 60 x 80	1 3/4"			(E) HM			(E) HM						29.0	●		PAIR OF DOOR NOT EQUAL SIDE	H100B
H100C	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						6.0	●	90 MIN.		H100C
H102A	(E)	PR 48 x 80	1 3/4"			(E) WD			(E) HM						25.0	●			H102A
H102B	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						19.0				H102B
H104A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						37.0				H104A
H105A	(E)	28 x 80	1 3/4"			(E) WD			(E) WD						33.0				H105A
H105B	(E)	28 x 80	1 3/4"			(E) WD			(E) WD						39.0				H105B
H106A	(E)	PR 30 x 80	1 3/4"			(E) WD			(E) WD						26.0	●			H106A
H106B	B	UE 60 x 81	1 3/4"			WD			(E) WD						30.0			(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	H106B
H107A	(E)	28 x 80	1 3/4"			(E) WD			(E) WD						33.1				H107A
H108A	(E)	36 x 80	1 3/4"			(E) WD			(E) WD						20.0				H108A
H109A	(E)	PR 36 x 80	1 3/4"			(E) WD			(E) WD						22.0	●			H109A
H110A	(E)	PR 36 x 80	1 3/4"			(E) WD			(E) WD						21.0				H110A
H110B	(E)	PR 36 x 80	1 3/4"			(E) WD			(E) WD						21.0				H110B
H112A	(E)	PR 42 x 84	1 3/4"			(E) HM			(E) HM						15.0				H112A
H113A	(E)	PR 34x 84	1 3/4"			(E) HM			(E) HM						26.0	●			H113A
H113B	(E)	PR 34 x 80	1 3/4"			(E) HM			(E) HM						26.0	●			H113B
H114A	(E)	PR 30 x 80	1 3/4"			(E) HM			(E) HM						31.0	●	90 MIN.		H114A
H114B	(E)	PR 30 x 80	1 3/4"			(E) HM			(E) HM						31.0	●	90 MIN.		H114B
H130A	(E)	PR 36 x 80	1 3/4"			(E) HM			(E) HM						11.0				H130A
H130B	(E)	48 x 80	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		H130B
H131	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						17.0			REPAIR DOOR & FRAME BENTS, DENTS AS NEEDED. REPAINT ENTIRE DOOR & FRAME TO MATCH EXISTING CONDITION FINISH	H131
H132	B	UE 60 x 80	1 3/4"			WD			(E) HM						24.0	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	H132
H133	(E)	28 x 80	1 3/4"			(E) WD			(E) HM						11.0				H133
H134	(E)	36 x 80	1 3/4"			(E) WD			(E) WD						11.0				H134
H135	(E)	28 x 80	1 3/4"			(E) WD			(E) WD						13.0				H135
H136	(E)	28 x 80	1 3/4"			(E) WD			(E) WD						13.0				H136
H137	(E)	36 x 80	1 3/4"			(E) WD			(E) WD						13.0				H137
H138	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			H138
H139	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						11.0				H139
H140	(E)	30 x 80	1 3/4"			(E) WD			(E) WD						33.0				H140
H141	(E)	36 x 80	1 3/4"			(E) HM			(E) WD						13.0				H141
H142	(E)	PR 30 x 80	1 3/4"			(E) WD			(E) WD						15.0				H142
H143	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			H143
H144	B	UE 60 x 80	1 3/4"			WD			(E) HM						24.0	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	H144
H145	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						7.0	●			H145
H146	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						7.0	●		2 TYP.	H146
H147	(E)	PR 36 x 80	1 3/4"			(E) HM			(E) HM						15.0				H147
H148	(E)	28 x 80	1 3/4"			(E) WD			(E) HM						17.0		60 MIN.		H148
H149	(E)	36 x 80	1 3/4"			(E) WD			(E) HM						13.0				H149
H150	(E)	28 x 80	1 3/4"			(E) WD			(E) HM						13.0				H150
H151	(E)	36 x 87	1 3/4"			(E) HM			(E) HM						1.0	●			H151
H152	(E)	36 x 87	1 3/4"			(E) HM			(E) HM						5.0	●			H152
H153	(E)	36 x 81	1 3/4"			(E) WD			(E) HM						11.0				H153
H154	(E)	36 x 81	1 3/4"			(E) WD			(E) HM						11.0				H154
H155	(E)	PR 36 x 80	1 3/4"			(E) HM			(E) HM						15.0				H155

BUILDING H - DOOR SCHEDULES | N.T.S | 2

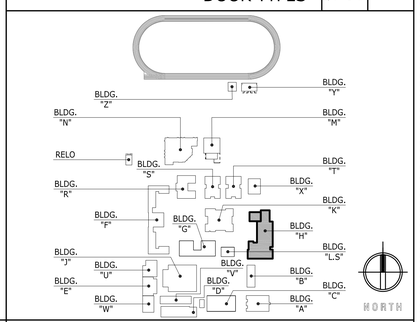


NOTES:
ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING BUT NOT LIMITED, SHALL CONFORM WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE CALIFORNIA BUILDING CODE.

A. DOOR SHALL BE OPERABLE FROM THE INSIDE WITH A SINGLE MOTION WITHOUT THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE
B. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE WITHIN 34" AND 42" ABOVE FINISH FLOOR.
C. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
D. OPERABLE PARTS OF ALL THE ACCESSIBLE ELEMENTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX PER CBC SECTION 11B-205 AND 11B-309.4.

DOOR TYPES | 1/4"=1'-0"

KEYPLAN



STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

PROJECT No. : 1-49-83
6/1/2022 5:46 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING H
FLOOR PLAN & DOOR SCHED.

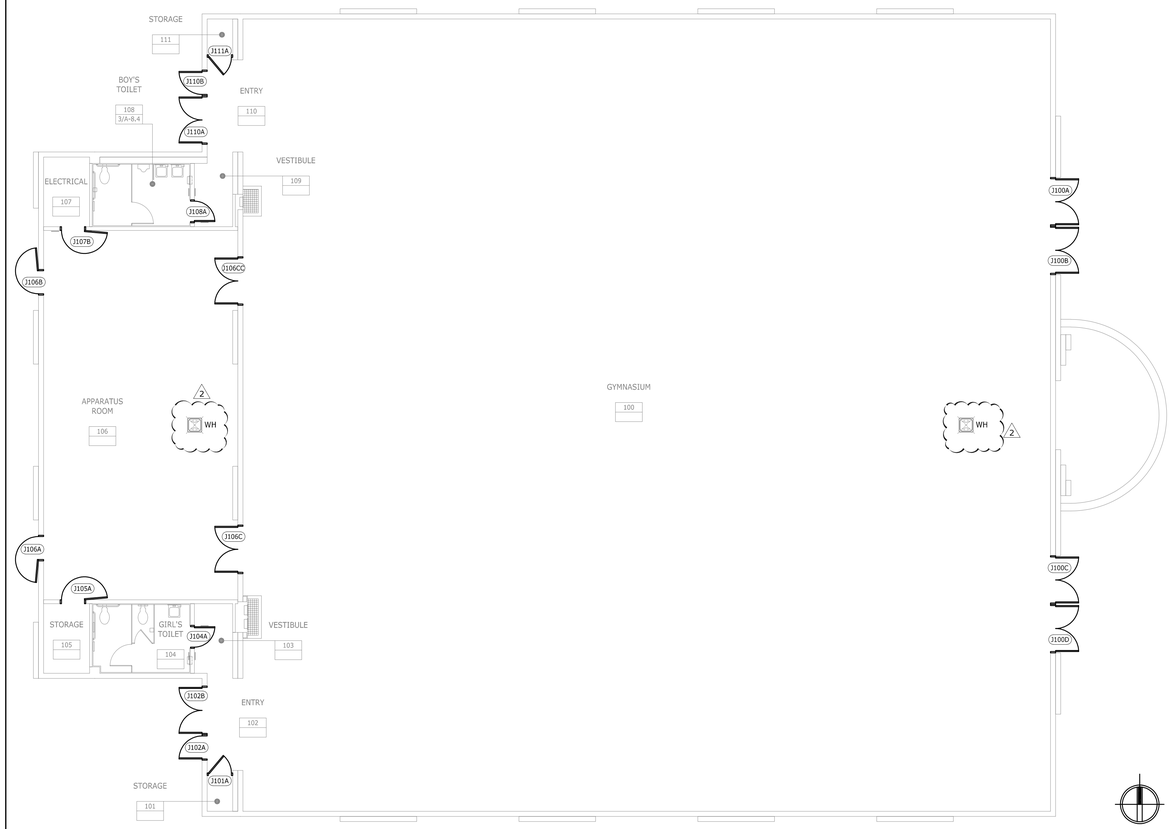
A2.06

1-49-83

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_49\49B3_Morongo350_AccessControlUpgrades-45Man\DES\GNR\Revit\CAD\A6_A2.06_Yucca Valley HS_Bldg H_____ADD 2.dwg

BUILDING K - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING J - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'J'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
J100A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J100A	23.0	●			J100A
J100B	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J100B	23.0	●			J100B
J100C	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J100C	23.0	●			J100C
J100D	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J100D	23.0	●			J100D
J101A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM					J101A	17.0		45 MIN.		J101A
J102A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM					J102A	5.0	●			J102A
J102B	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J102B	23.0	●			J102B
J104A	(E)	36 x 80	1 3/4"			(E) HM			(E) HM					J104A	8.1				J104A
J105A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM					J105A	15.0				J105A
J106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM					J106A	1.0	●			J106A
J106B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM					J106B	5.0	●			J106B
J106C	(E)	PR 36 x 84	1 3/4"			(E) WD			(E) HM					J106C	38.0				J106C
J106CC	(E)	PR 36 x 82	1 3/4"			(E) WD			(E) HM					J106CC	36.0				J106CC
J107A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM					J107A	20.0				J107A
J108A	(E)	36 x 80	1 3/4"			(E) WD			(E) HM					J108A	8.1				J108A
J110A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J110A	23.0	●			J110A
J110B	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM					J110B	5.0	●			J110B
J111A	(E)	PR 36 x 82	1 3/4"			(E) HM			(E) HM					J111A	17.0		45 MIN.		J111A

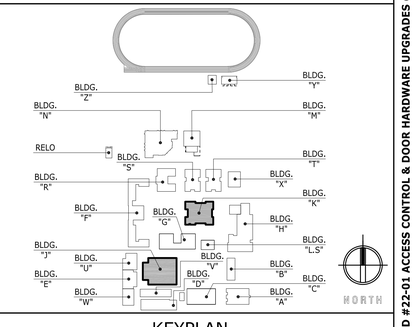
2 TYP.

BUILDING J - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'K'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
K101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			K101
K102	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						18.0		20 MIN.		K102
K103	(E)	PR 36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		K103
K104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						5.0	●			K104
K105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						5.0	●			K105
K106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						11.0				K106
K107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						11.0				K107
K108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				K108
K109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				K109
K110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						33.0				K110
K111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		K111
K112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		K112
K113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0		45 MIN.		K113
K114	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		K114
K115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			K115
K116	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						23.0	●			K116
K117	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				K117
K118	(E)	PR 36 x 84	1 3/4"			(E) WD			(E) HM						16.0		45 MIN.		K118
K119	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				K119
K120	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			K120

BUILDING K - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Yucca Valley HS_49\49-1923_Morongo\BID_AccessControl\Upgrades-49Sets\DESIGN\Revit\CADVT_A2.07_Yucca Valley HS_Bldg J & K_____ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:07 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
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ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

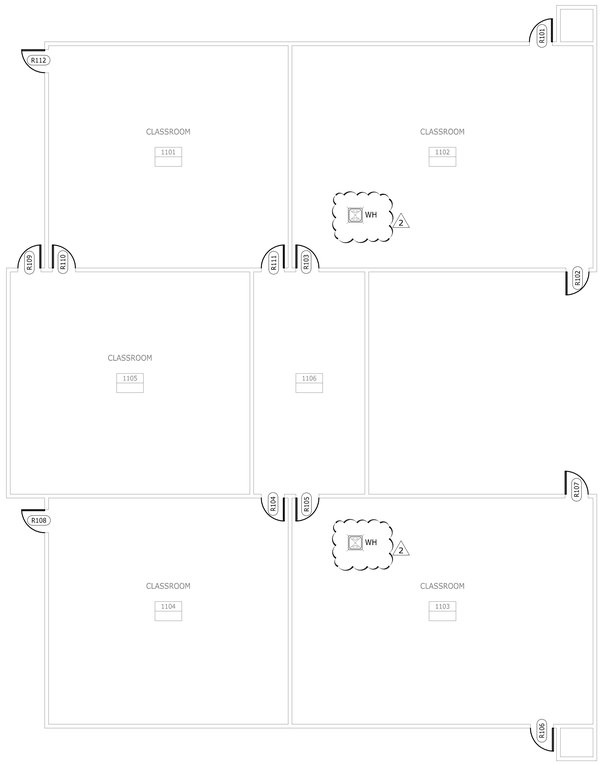
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

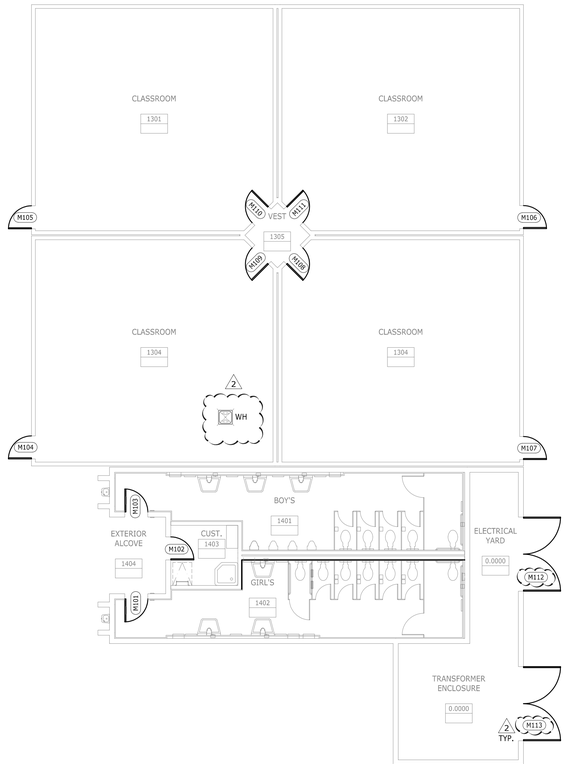
YUCCA VALLY HS
BUILDING J & K
FLOOR PLAN & DOOR SCHED.

A2.07

1-49-83



BUILDING R - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING M - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'M'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
M101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.1				M101
M102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0				M102
M103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.1				M103
M104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			M104
M105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			M105
M106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●		REPAIR DOOR & FRAME BENTS, DENTS, HINGE AS NEEDED. REPAINT ENTIRE DOOR & FRAME TO MATCH EXISTING CONDITION FINISH	M106
M107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			M107
M108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						11.0				M108
M109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						11.0				M109
M110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						11.0				M110
M111	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						11.0				M111
M112	(E)	PR 58 x 84	1 3/4"			(E) HM			(E) HM						15.0				M112
M113	(E)	PR 58 x 84	1 3/4"			(E) HM			(E) HM						15.0				M113

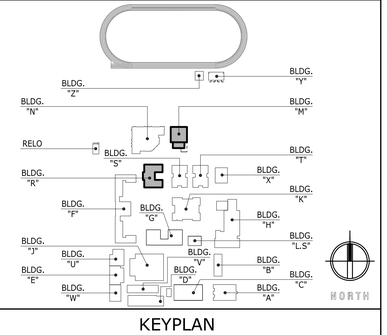
2 TYP.

BUILDING M - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'R'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
R101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			R101
R102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R102
R103	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				R103
R104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				R104
R105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				R105
R106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			R106
R107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R107
R108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R108
R109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R109
R110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				R110
R111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				R111
R112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R112

BUILDING R - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

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PROJECT No. : 1-49-83
6/1/2022 7:53 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No.:_____	DATE:_____	DESCRIPTION:_____	REVISION No.:_2_	DATE:06/01/22	DESCRIPTION:_ADDENDUM 2_____
ISSUE No.:_____	DATE:_____	DESCRIPTION:_____	REVISION No.:_____	DATE:_____	DESCRIPTION:_____
ISSUE No.:_____	DATE:_____	DESCRIPTION:_____	REVISION No.:_____	DATE:_____	DESCRIPTION:_____
ISSUE No.:_____	DATE:_____	DESCRIPTION:_____	REVISION No.:_____	DATE:_____	DESCRIPTION:_____

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

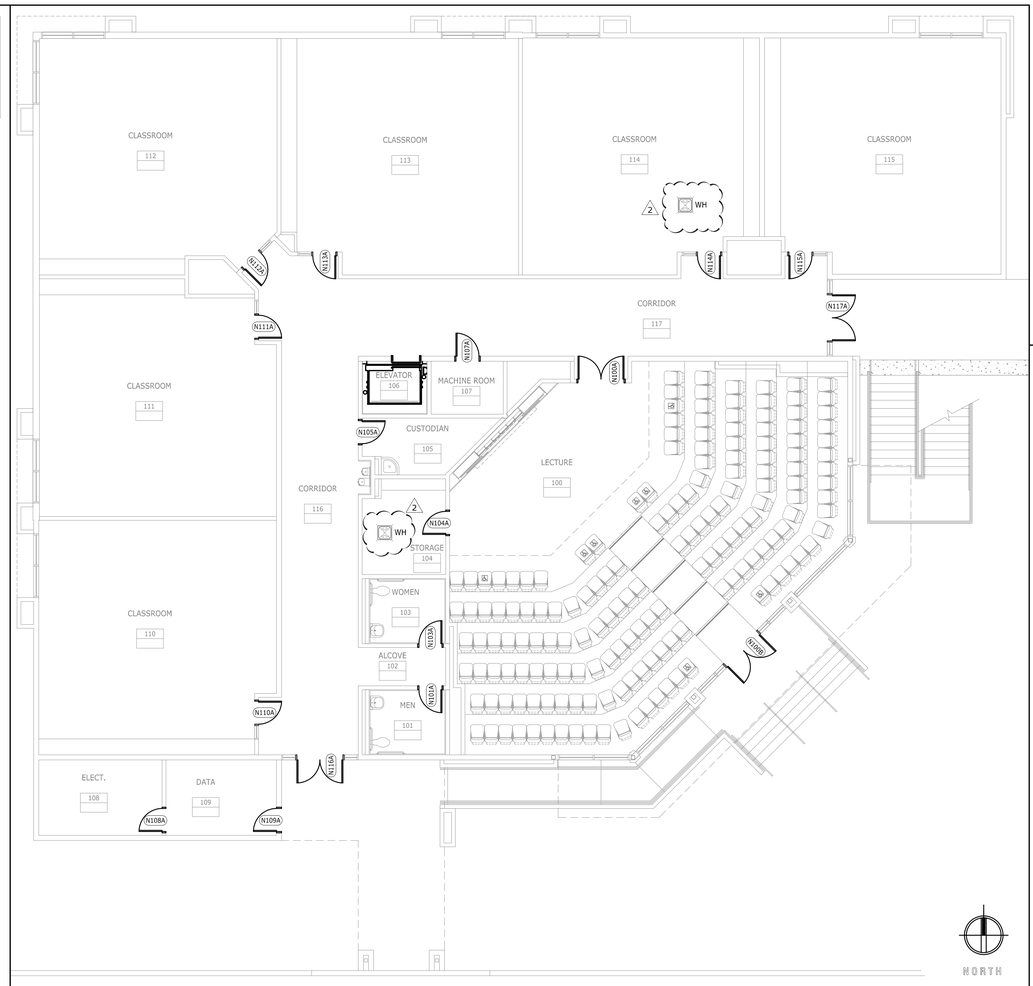
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING M & R
FLOOR PLAN & DOOR SCHED.

A2.08

1-49-83

BUILDING N - 2ND FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING N - 1ST FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'N' - 1ST FLOOR

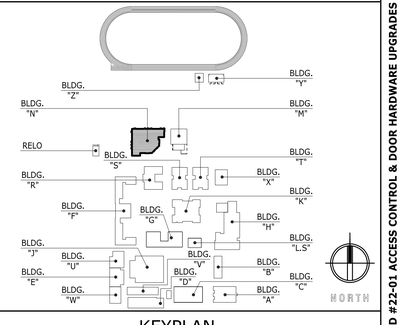
DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
N100A	(E)	PR 36 x 84	1 3/4"			(E) WD			(E) HM						32.0	●	20 MIN.		N100A
N100B	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						23.0	●			N100B
N101A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						33.0		20 MIN.		N101A
N103A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						33.0		20 MIN.		N103A
N104A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						40.0		60 MIN.		N104A
N105A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0		20 MIN.		N105A
N107A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						40.0		45 MIN.		N107A
N108A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				N108A
N109A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				N109A
N110A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N110A
N111A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0	●			N111A
N112A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0	●			N112A
N113A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0	●			N113A
N114A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0	●			N114A
N115A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0	●			N115A
N116A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						23.0	●			N116A
N117A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						23.0	●			N117A

BUILDING N - 1ST FLOOR DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'N' - 2ND FLOOR

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
N200A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N200A
N201A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						33.0		20 MIN.		N201A
N203A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						33.0		20 MIN.		N203A
N204A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						34.0		20 MIN.		N204A
N205A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0		20 MIN.		N205A
N206A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				N206A
N207A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N207A
N208A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N208A
N209A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N209A
N210A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●			N210A
N211A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N211A
N212A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	●	20 MIN.		N212A
N213A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						23.0	●			N213A
N214A	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						23.0	●			N214A
N215A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				N215A

BUILDING N - 2ND FLOOR DOOR SCHEDULES | N.T.S | 4



KEYPLAN

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_4RVH#83_Morongo\SD_AccessControl\Upgraden-49ken\DESIGN\Rev4\CAD\fl_A2.09_Yucca Valley HS_Bldg N___ ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:11 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

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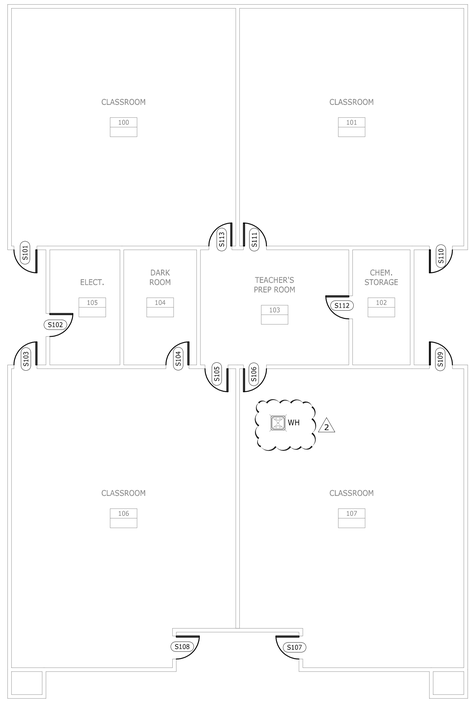
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING N - TWO STORY
FLOOR PLAN & DOOR SCHED.

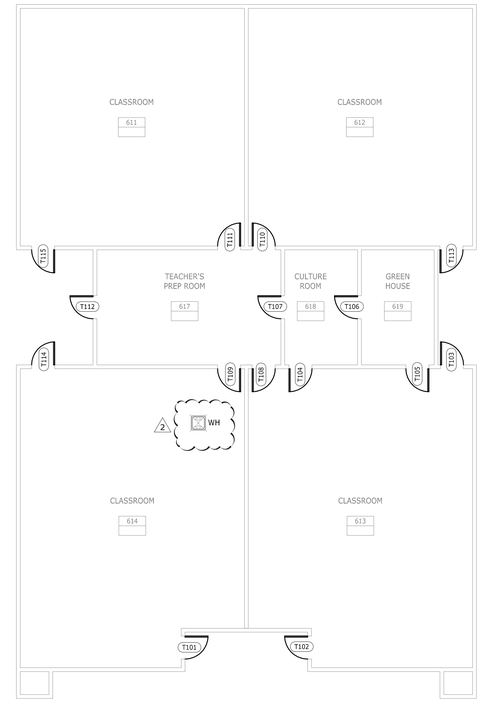
A2.09

1-49-83



NORTH

BUILDING S - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING T - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'T'

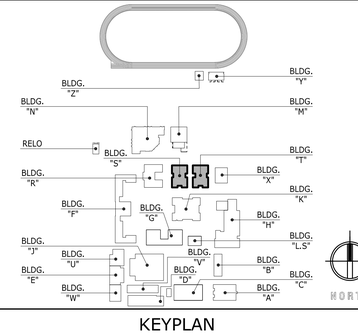
DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
T101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			T101
T102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			T102
T103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●	45 MIN.		T103
T104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T104
T105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T105
T106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				T106
T107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T107
T108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T108
T109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T109
T110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T110
T111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0		45 MIN.		T111
T112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						18.0		45 MIN.		T112
T113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			T113
T114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●	45 MIN.		T114
T115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			T115

BUILDING T - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'S'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
S101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			S101
S102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0		45 MIN.		S102
S103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0	●	45 MIN.		S103
S104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		S104
S105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						12.0		45 MIN.		S105
S106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						12.0		45 MIN.		S106
S107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			S107
S108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			S108
S109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			S109
S110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			S110
S111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						12.0		45 MIN.		S111
S112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		S112
S113	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						12.0		45 MIN.		S113

BUILDING S - DOOR SCHEDULES | N.T.S | 4



NORTH

KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Yucaro_4\1\4923_Morongo\50_Access Control\Upgrades-49ten\DESIGN\Revit\CAD\3D_A310_Yucca Valley HS_Bldg S & T___ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:15 PM

DRAWN BY: MN CHECKED BY: MN

ISSUE No.____ DATE____ DESCRIPTION____
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ISSUE No.____ DATE____ DESCRIPTION____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE____ DESCRIPTION____
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REVISION No.____ DATE____ DESCRIPTION____

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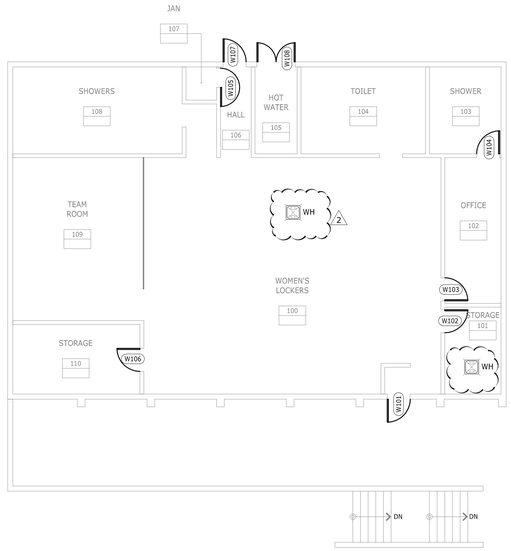
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING S & T
FLOOR PLAN & DOOR SCHED.

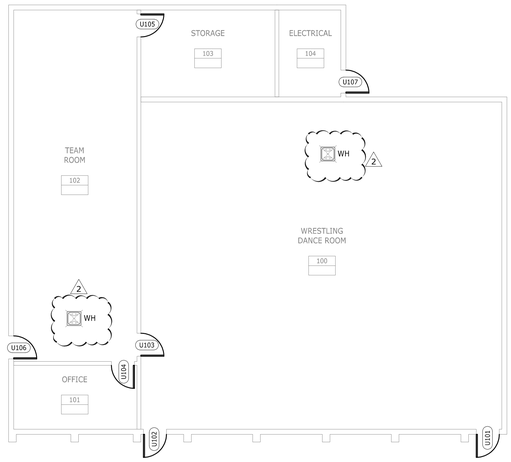
A2.10

1-49-83



HORTH

BUILDING W - FLOOR PLAN | 1/8"=1'-0" | 2



HORTH

BUILDING U - FLOOR PLAN | 1/8"=1'-0" | 1

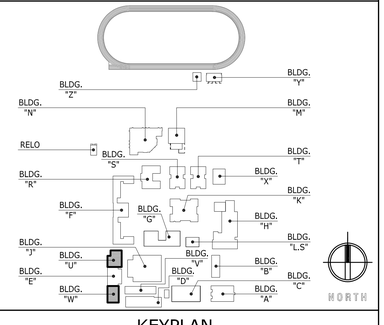
DOOR SCHEDULE: BUILDING 'U'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
U101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	●			U101
U102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			U102
U103	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						9.0		45 MIN.		U103
U104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				U104
U105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		U105
U106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						8.0				U106
U107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		U107

BUILDING U - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'W'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
W101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			W101
W102	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		W102
W103	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				W103
W104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						13.0				W104
W105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		W105
W106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		W106
W107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			W107
W108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						15.0				W108



HORTH

BUILDING W - DOOR SCHEDULES | N.T.S | 4

KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_4fd4893_Morongo150_AccessControlUpgrades-49Sites\DESIGN\Revit\CAD\2_A2\1_Yucca Valley HS_Bldg U & W__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:19 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION
ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION
ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION
ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION

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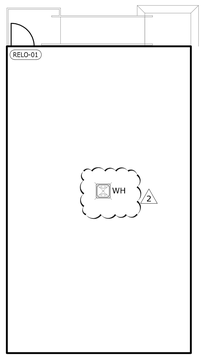
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

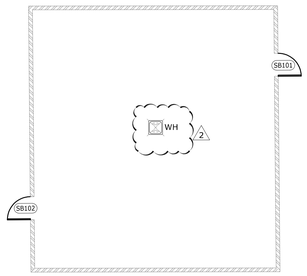
YUCCA VALLEY HS
BUILDING U & W
FLOOR PLAN & DOOR SCHED.

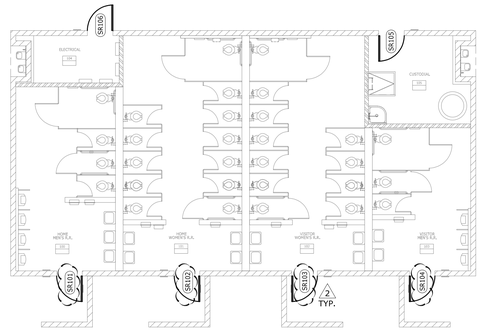
A2.11

1-49-83



BUILDING RELO 1 - FLOOR PLAN | 1/8"=1'-0" | 2





BUILDING Y & Z - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: STADIUM RESTROOM (BUILDING 'Y')

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
SR101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			SR101
SR102	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						3.0	●			SR102
SR103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			SR103
SR104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			SR104
SR105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0	2 TYP.			SR105
SR106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						34.0				SR106

DOOR SCHEDULE: MAINTENANCE (BUILDING 'Z')

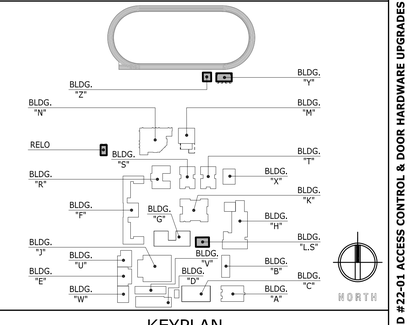
DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
SB101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			SB101
SB102	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						1.0	●			SB102

BUILDING Y & Z - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: RELO 1

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
RELO1	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			RELO1

BUILDING RELO & L.S - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

LICENSED ARCHITECT
ROGER CLARKE
No. C-21340
Exp. 10-31-23
STATE OF CALIFORNIA

STAMPS

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4Fld\493_Morongo150_AccessControlUpgrades-45Sites\DFS\6INRevit\CAD\22_A212_Yucca Valley HS_Bldg Y & Z & RELO_-_ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:21 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.____ DATE_____ DESCRIPTION_____
ISSUE No.____ DATE_____ DESCRIPTION_____
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REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE_____ DESCRIPTION_____
REVISION No.____ DATE_____ DESCRIPTION_____
REVISION No.____ DATE_____ DESCRIPTION_____

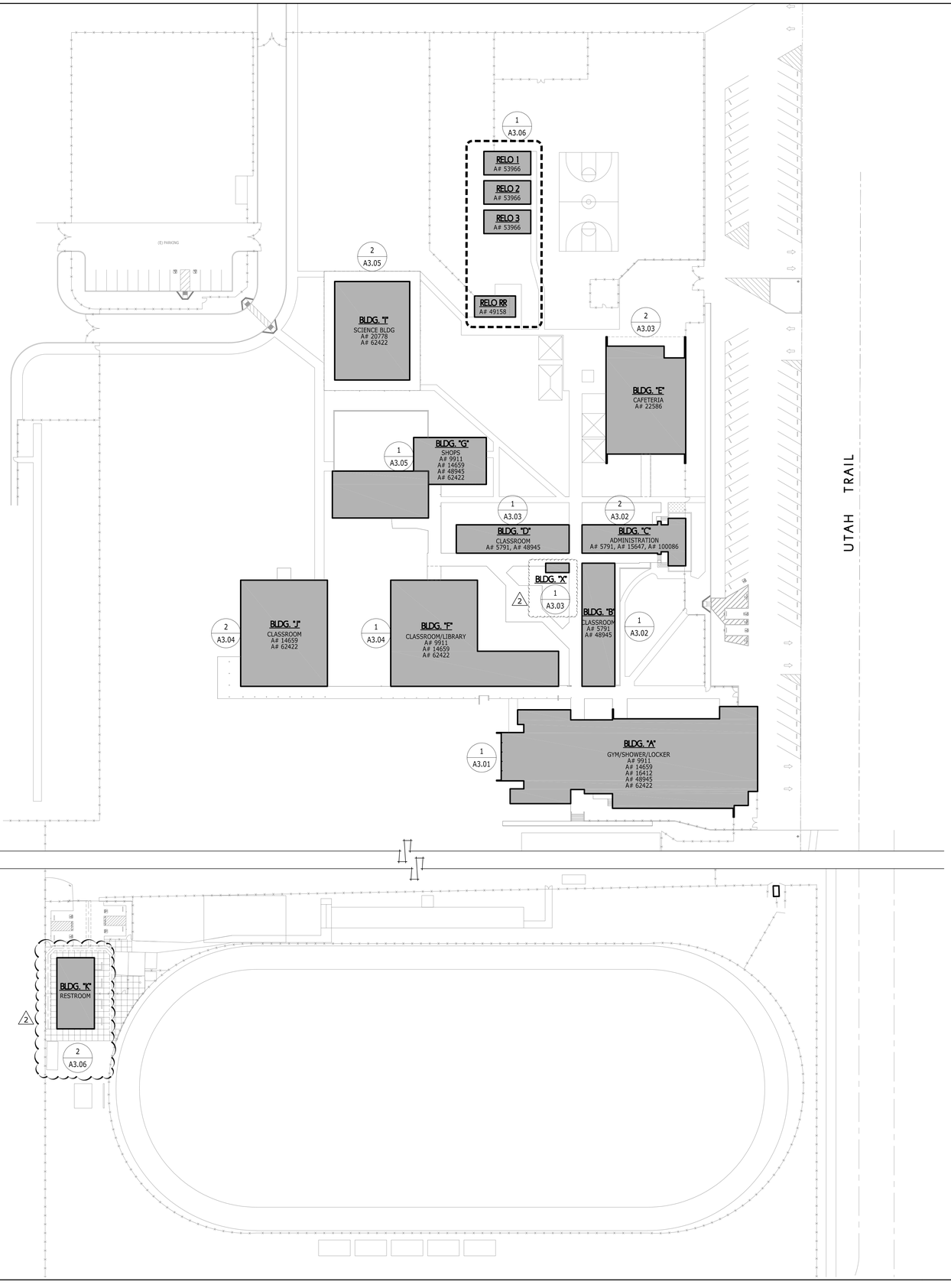
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

YUCCA VALLEY HS
BUILDING Y & Z ; RELO & L.S
FLOOR PLAN & DOOR SCHED.

A2.12

1-49-83



SITE PLAN | 1"=40'-0" | 1

EXISTING BUILDING IN SCOPE OF WORK

SITE LEGEND

STAMPS

LICENSED ARCHITECT ROGER N. CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

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PROJECT No. : 1-49-83
6/1/2022 6:23 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
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ISSUE No.____ DATE____ DESCRIPTION____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE____ DESCRIPTION____
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REVISION No.____ DATE____ DESCRIPTION____

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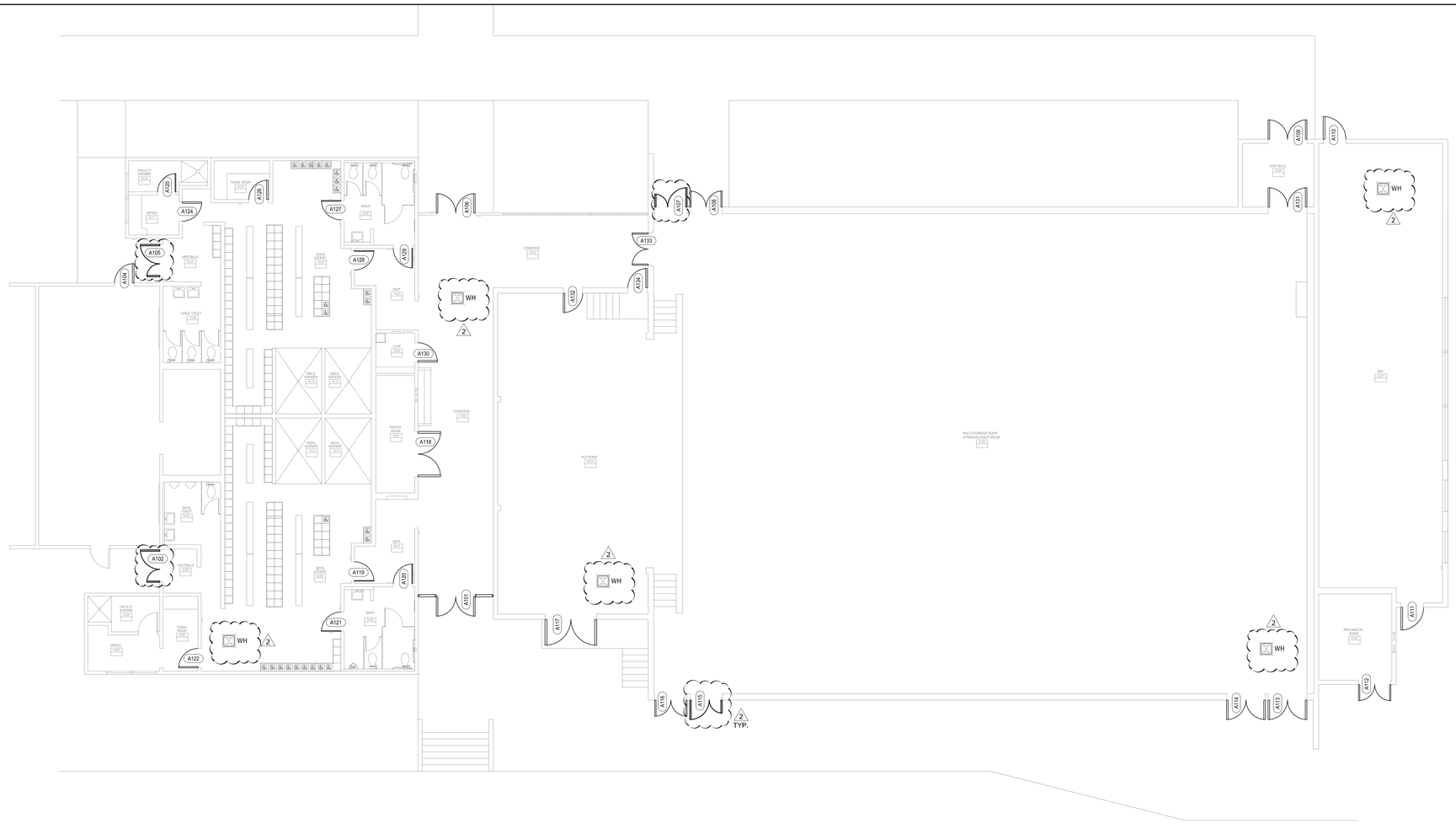
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
SITE PLAN

AS-3.0

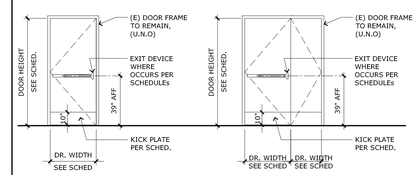
1-49-83



BUILDING A - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'A'

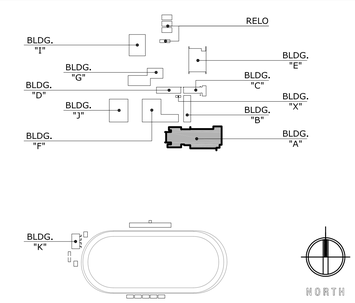
	DOOR								FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
A101	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			A101
A102	B	UE 60 x 84	1 3/4"			HM			(E) HM						12	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	A102
A104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A104
A105	B	UE 60 x 84	1 3/4"			HM			(E) HM						12	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	A105
A106	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			A106
A107	B	UE 60 x 84	1 3/4"			HM			(E) HM						12	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	A107
A108	(E)	PR 30 x 84	1 3/4"			(E) HM			(E) HM						13.0	●			A108
A109	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			A109
A110	(E)	30 x 84	1 3/4"			(E) HM			(E) HM						19.0				A110
A111	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A111
A112	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						16.0	●			A112
A113	(E)	PR 30 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			A113
A114	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			A114
A115	B	UE 60 x 84	1 3/4"			HM			(E) HM						12.0	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	A115
A116	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						12.0	●			A116
A117	(E)	PR 48 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			A117
A118	(E)	PR 42 x 84	1 3/4"			(E) HM			(E) HM						7.0		90 MIN.		A118
A119	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●	20 MIN.		A119
A120	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●	20 MIN.		A120
A121	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						20.0		90 MIN.		A121
A122	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						27.0				A122
A124	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				A124
A125	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				A125
A126	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0		90 MIN.		A126
A127	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						20.0				A127
A128	(E)	36 x 84	1 3/4"			(E) HM			(E) HM					2 TYP.	3.0	●	20 MIN.		A128
A129	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●	20 MIN.		A129
A130	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				A130
A132	(E)	48 x 84	1 3/4"			(E) HM			(E) HM						19.0				A132
A133	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						14.0	●			A133
A134	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				A134



NOTES:
ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING BUT NOT LIMITED, SHALL CONFORM WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE CALIFORNIA BUILDING CODE.

A. DOOR SHALL BE OPERABLE FROM THE INSIDE WITH A SINGLE MOTION WITHOUT THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE
B. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE WITHIN 34" AND 42" ABOVE FINISH FLOOR.
C. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
D. OPERABLE PARTS OF ALL THE ACCESSIBLE ELEMENTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX PER CBC SECTION 11B-205 AND 11B-309.4.

DOOR TYPES | 1/4"=1'-0"



BUILDING A - DOOR SCHEDULES | N.T.S | 2

KEYPLAN

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

PROJECT No. : 1-49-83
6/1/2022 6:26 PM

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CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
REVISION No.__2__ DATE 05/01/22 DESCRIPTION ADDENDUM 2

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
BUILDING A
FLOOR PLAN & DOOR SCHED.

A3.01

1-49-83

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

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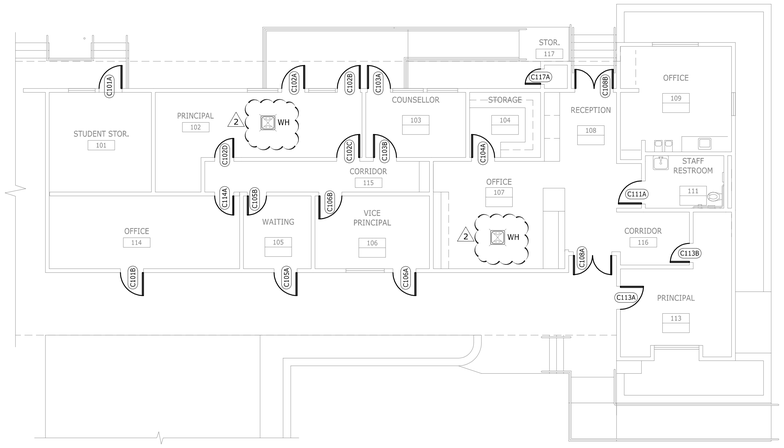
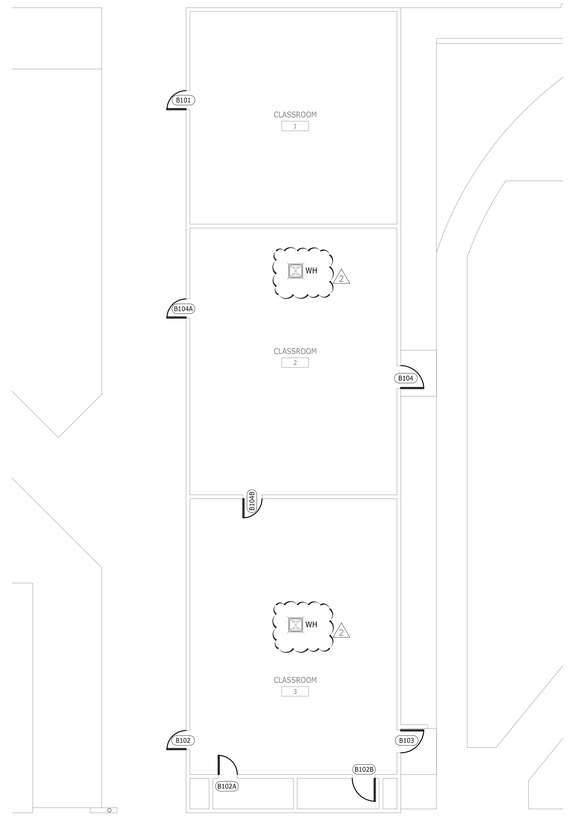


NORTH

BUILDING C - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING B - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'B'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
B101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						23.0				B101
B102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B102
B102A	(E)	30 x 84	1 3/4"			(E) WD			(E) WD						23.0				B102A
B102B	(E)	30 x 84	1 3/4"			(E) WD			(E) WD						23.0				B102B
B103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B103
B104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B104
B104A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0				B104A
B104B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						9.0				B104B

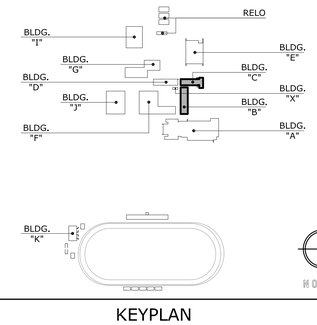
2 TYP.

BUILDING B - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'C'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
C101A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				C101A
C101B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C101B
C102A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C102A
C102B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C102B
C102C	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C102C
C102D	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						24.0		60 MIN.		C102D
C103A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C103A
C103B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C103B
C104A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						25.0		20 MIN.		C104A
C105A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C105A
C105B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C105B
C106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C106A
C106B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C106B
C108A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						15.0	●			C108A
C108B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						15.0	●			C108B
C111A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0				C111A
C113A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C113A
C113B	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						19.0				C113B
C114A	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0	2			C114A
C117A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						17.0				C117A

BUILDING C - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

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PROJECT No. : 1-49-83
6/1/2022 6:30 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.____ DATE_____ DESCRIPTION_____
ISSUE No.____ DATE_____ DESCRIPTION_____
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REVISION No.__2__ DATE 06/01/22 DESCRIPTION_ADDENDUM 2
REVISION No.____ DATE_____ DESCRIPTION_____
REVISION No.____ DATE_____ DESCRIPTION_____
REVISION No.____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

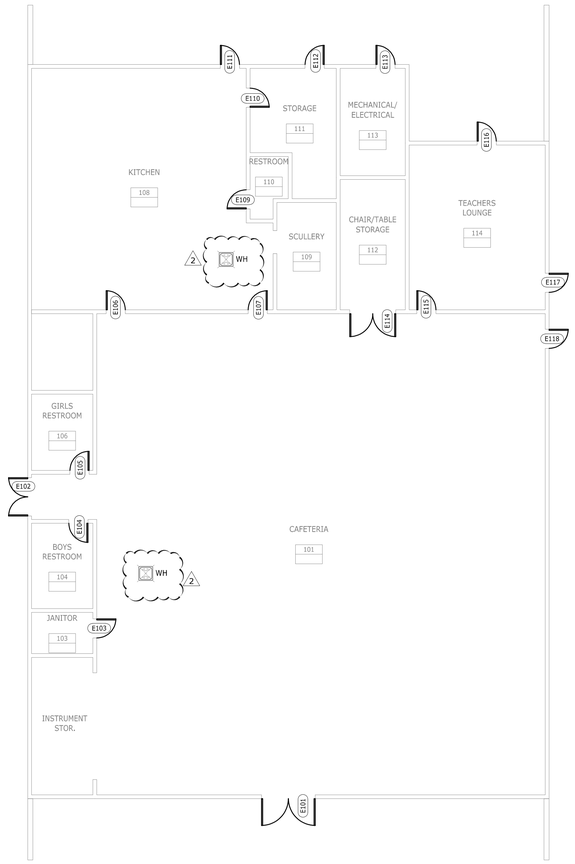
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
BUILDING B & C
FLOOR PLAN & DOOR SCHED.

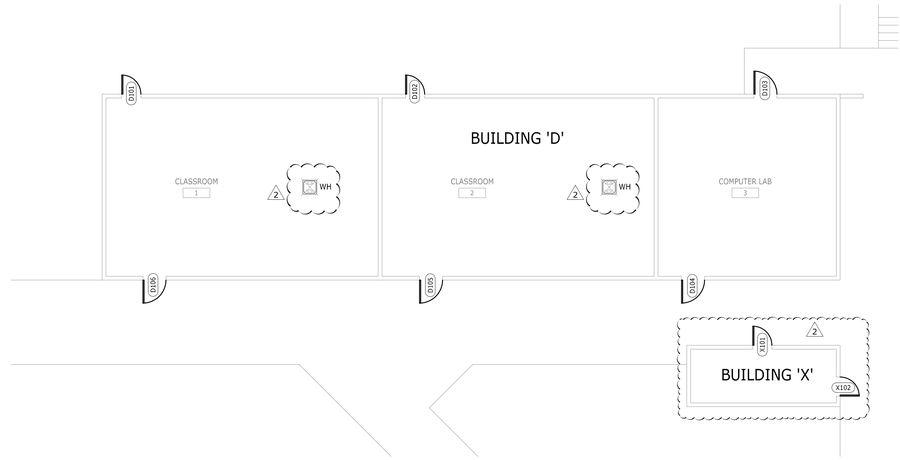
A3.02

1-49-83



NORTH

BUILDING E - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING D & X - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'D'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
D101	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						5.0				D101
D102	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						5.0				D102
D103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2 1.0	●			D103
D104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D104
D105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D105
D106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D106

2

DOOR SCHEDULE: BUILDING 'X'

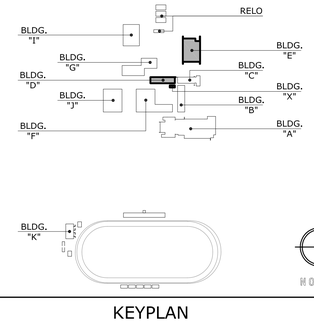
DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
X101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						23.0				X101
X102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0				X102

BUILDING D - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'E'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
E101	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			E101
E102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			E102
E103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0				E103
E104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			E104
E105	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						6.0				E105
E106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0				E106
E107	(E)	42 x 84	1 3/4"			(E) HM			(E) HM						5.0				E107
E108	(E)	PR 30 x 84	1 3/4"			(E) HM			(E) HM						28.0				E108
E109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						18.0				E109
E110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						5.0				E110
E111	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						5.0				E111
E112	(E)	30 x 82	1 3/4"			(E) WD			(E) HM						9.0				E112
E113	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						6.0				E113
E114	(E)	PR 30 x 82	1 3/4"			(E) WD			(E) HM						16.0	●			E114
E115	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						5.0				E115
E116	(E)	30 x 82	1 3/4"			(E) WD			(E) HM						9.0				E116
E117	(E)	30 x 82	1 3/4"			(E) WD			(E) HM						9.0	2			E117
E118	(E)	30 x 82	1 3/4"			(E) WD			(E) HM						1.0	●			E118

BUILDING E - DOOR SCHEDULES | N.T.S | 4



NORTH

KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4fld\493_Morongo150_AccessControlUpgrades-49Sites\DTE\6INRevit\CAD\06_A3.03_28Palms_#6_Bldg D ⇕ E ⇕ X__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:33 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.____ DATE_____ DESCRIPTION_____
ISSUE No.____ DATE_____ DESCRIPTION_____
ISSUE No.____ DATE_____ DESCRIPTION_____
ISSUE No.____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE_____ DESCRIPTION_____
REVISION No.____ DATE_____ DESCRIPTION_____
REVISION No.____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

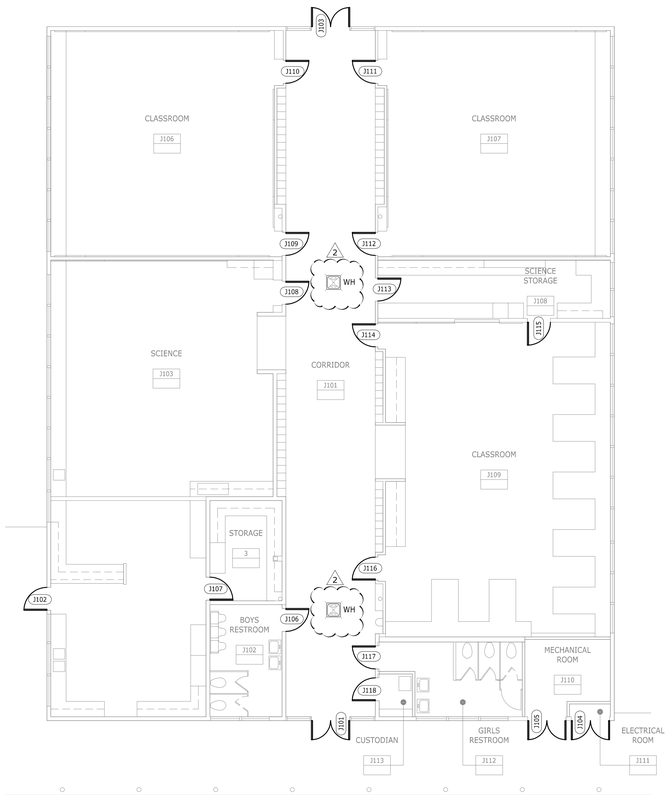
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
BUILDING D & E & X
FLOOR PLAN & DOOR SCHED.

A3.03

1-49-83



NORTH

BUILDING J - FLOOR PLAN | 1/8"=1'-0" | 2

NORTH

BUILDING F - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'F'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
F101	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						8.0	●	90 MIN.		F101
F102	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						8.0	●	90 MIN.		F102
F103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0	●	90 MIN.		F103
F104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0	●	90 MIN.		F104
F105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			F105
F107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		F107
F108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		F108
F109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		F109
F111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		F111
F112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		F112
F113	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		F113
F114	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		F114
F115	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		F115
F116	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						19.0				F116
F117	(E)	PR 36 x 84	1 3/4"			(E) WD			(E) HM						8.0	●	90 MIN.		F117
F118	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		F118
F119	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						19.0				F119
F120																		NO ACCESS CONTROL PROVIDE	F120
F121	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						19.0				F121
F122	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						19.0				F122

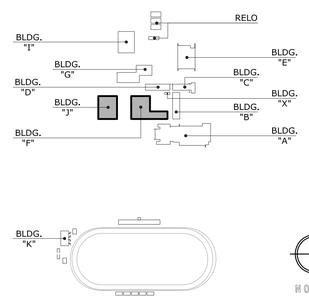
2 TYP.

BUILDING F - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'J'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
J101	(E)	PR 38 x 84	1 3/4"			(E) HM			(E) HM						8.0	●	90 MIN.		J101
J102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						25.0		90 MIN.		J102
J103	(E)	PR 38 x 84	1 3/4"			(E) HM			(E) HM						8.0	●			J103
J104	(E)	PR 32 x 84	1 3/4"			(E) HM			(E) HM						22.0				J104
J105	(E)	PR 32 x 84	1 3/4"			(E) HM			(E) HM						22.0				J105
J106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						21.0		20 MIN.		J106
J107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						25.0		45 MIN.		J107
J108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						25.0		20 MIN.		J108
J109	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		J109
J110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		J110
J111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		J111
J112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		J112
J113	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		45 MIN.		J113
J114	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						26.0		20 MIN.		J114
J115	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		45 MIN.		J115
J116	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						24.0		20 MIN.		J116
J117	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						21.0	2	45 MIN.		J117
J118	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						25.0		45 MIN.		J118

BUILDING J - DOOR SCHEDULES | N.T.S | 4



NORTH

KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

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PROJECT No. : 1-49-83
6/1/2022 6:36 PM

DRAWN BY: HN
CHECKED BY: HN

ISSUE No.____ DATE_____ DESCRIPTION_____
REVISION No.__2__ DATE 06/01/22 DESCRIPTION_ ADDENDUM 2

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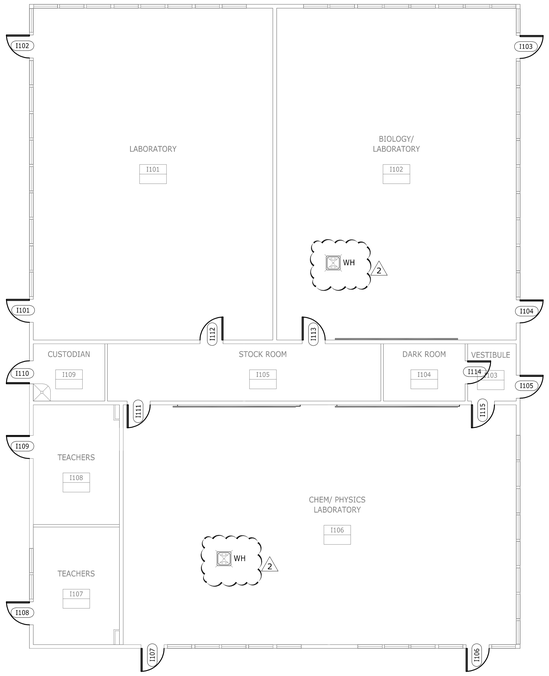
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
BUILDING F & J
FLOOR PLAN & DOOR SCHED.

A3.04

1-49-83



NORTH

BUILDING I - FLOOR PLAN | 1/8"=1'-0" | 2

NORTH

BUILDING G - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'G'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
G101	(E)	36 x 86	1 3/4"			(E) HM			(E) HM						1.0	●	90 MIN.		G101
G102	(E)	36 x 86	1 3/4"			(E) HM			(E) HM						1.0	●	90 MIN.		G102
G103	(E)	36 x 88	1 3/4"			(E) HM			(E) HM						1.0	●	90 MIN.		G103
G104	(E)	36 x 86	1 3/4"			(E) WD			(E) HM						17.0		45 MIN.		G104
G105	(E)	42 x 86	1 3/4"			(E) WD			(E) HM						17.0				G105
G106	(E)	42 x 86	1 3/4"			(E) WD			(E) HM						19.0				G106
G107	(E)	42 x 86	1 3/4"			(E) WD			(E) HM						19.0				G107
G108S	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0	●			G108S
G109S	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			G109S
G110S	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G110S
G111M	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G111S
G112M	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G112M

2 TYP.

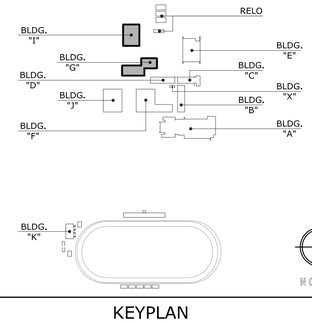
BUILDING G - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'I'

DOOR									FRAME			DETAILS			HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD					
I101	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0	●			I101
I102	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0				I102
I103	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0				I103
I104	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						3.0				I104
I105	(E)	32 x 82	1 3/4"			(E) HM			(E) HM						24.0				I105
I106	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0				I106
I107	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						1.0				I107
I108	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						2.0				I108
I109	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						2.0				I109
I110	(E)	36 x 82	1 3/4"			(E) HM			(E) HM						25.0				I110
I111	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						24.0				I111
I112	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						24.0				I112
I113	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						24.0				I113
I114	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						17.0				I114
I115	(E)	36 x 82	1 3/4"			(E) WD			(E) HM						19.0				I115

2 TYP.

BUILDING I - DOOR SCHEDULES | N.T.S | 4



NORTH

KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

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PROJECT No. : 1-49-83
6/1/2022 6:41 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.____	DATE_____	DESCRIPTION_____	
ISSUE No.____	DATE_____	DESCRIPTION_____	
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ISSUE No.____	DATE_____	DESCRIPTION_____	
REVISION No.__2__	DATE 06/01/22	DESCRIPTION ADDENDUM 2	
REVISION No.____	DATE_____	DESCRIPTION_____	
REVISION No.____	DATE_____	DESCRIPTION_____	
REVISION No.____	DATE_____	DESCRIPTION_____	

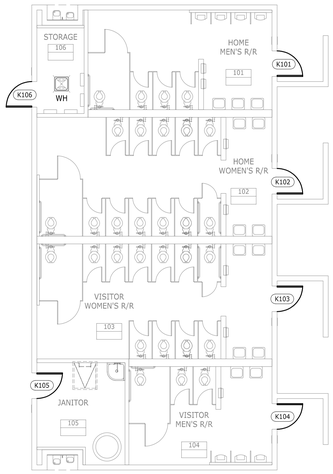
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
BUILDING G & I
FLOOR PLAN & DOOR SCHED.

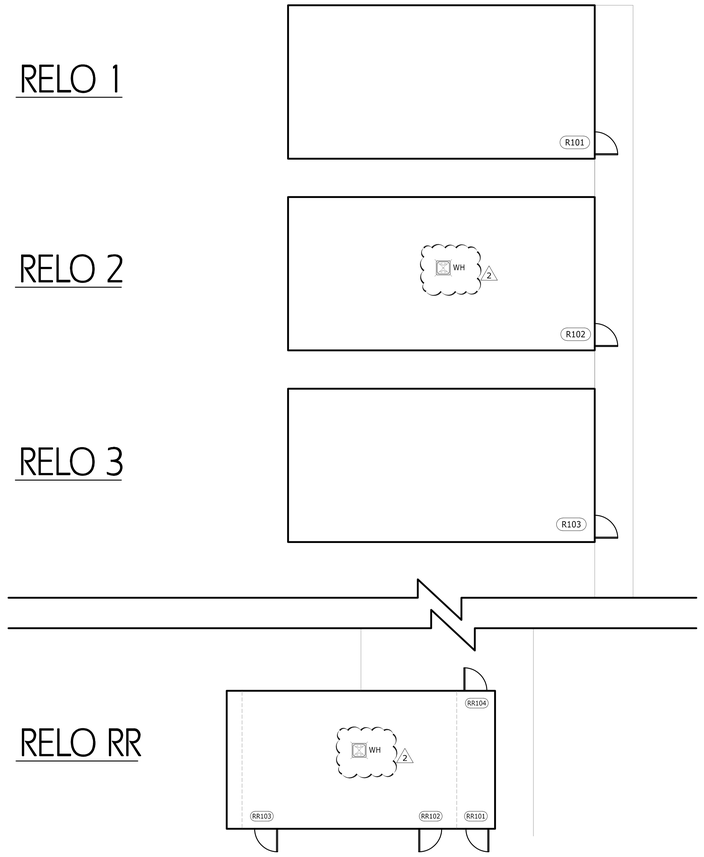
A3.05

1-49-83



NORTH

BUILDING K - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

RELO - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: RELO BUILDING

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
R101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R101
R102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R102
R103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R103
RR101	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						10.0	●			RR101
RR102	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						21.0				RR102
RR103	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						21.0				RR103
RR104	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						10.0	●			RR104

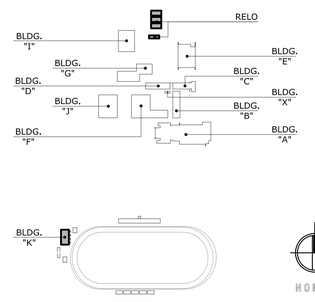
2

RELO - FLOOR PLAN | 1/8"=1'-0" | 3

DOOR SCHEDULE: BUILDING 'K'

DOOR									FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
K101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						30.0				K101
K102	(E)	36 x 80	1 3/4"			(E) HM			(E) HM						30.0				K102
K103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						30.0				K103
K104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						30.0				K104
K105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						29.0				K105
K106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						29.0				K106

BUILDING K - DOOR SCHEDULES | N.T.S | 4



NORTH

KEYPLAN

STAMPS

LICENSED ARCHITECT · ROGER CLARKE · No. C-21340 Exp. 10-31-23 · STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4th\4883_Morongo\SD_AccessControlUpgrades-4Sites\DESIGN\Revit\CAD\24_A3.06_2-RP.rvtm JHS_Bldg K I RELO_____ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 7:49 PM

DRAWN BY: MN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No._____ DATE_____ DESCRIPTION_____
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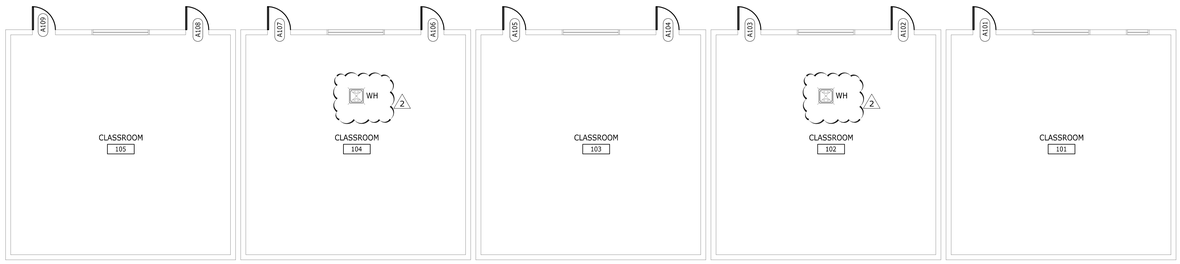
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

TWENTYNINE PALMS JHS
RELO & BUILDING K
FLOOR PLAN & DOOR SCHED.

A3.06

1-49-83



NORTH

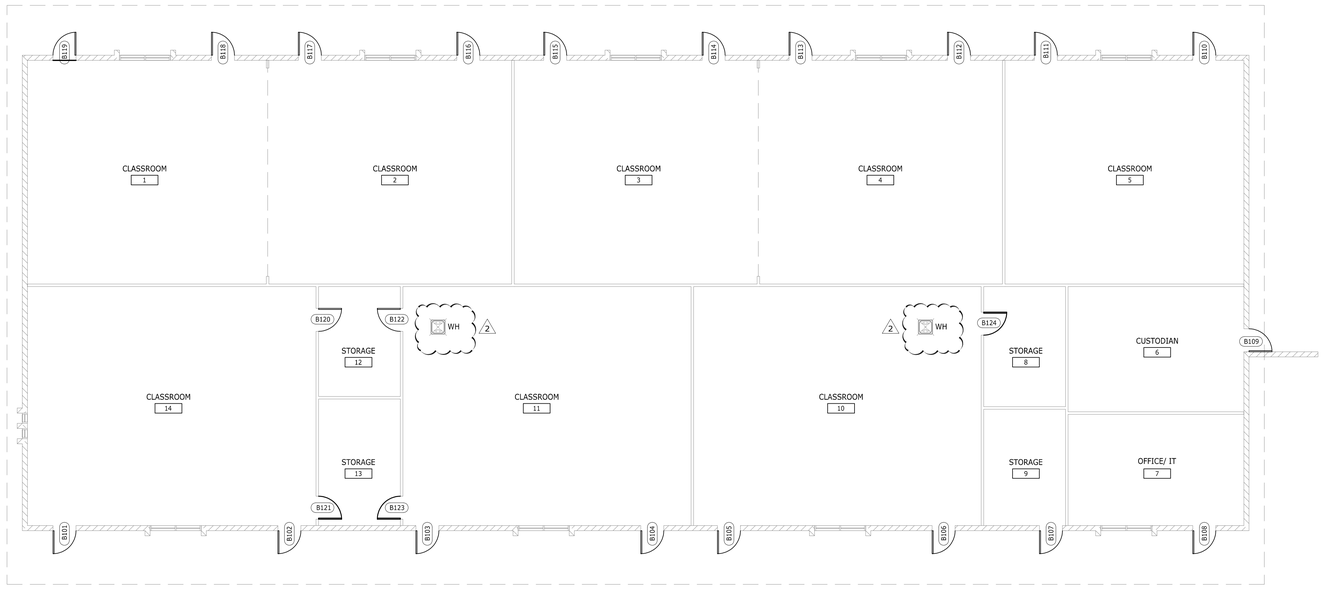
BUILDING A - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'A'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
A101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			A101
A102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A102
A103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A103
A104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A104
A105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A105
A106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A106
A107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A107
A108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A108
A109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			A109

2 TYP.

BUILDING A - DOOR SCHEDULES | N.T.S | 2



NORTH

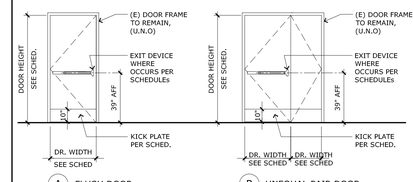
BUILDING B - FLOOR PLAN | 1/8"=1'-0" | 3

DOOR SCHEDULE: BUILDING 'B'

DOOR									FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
B101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B101
B102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B102
B103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B103
B104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B104
B105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B105
B106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B106
B107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0				B107
B108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			B108
B109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●		(E) DOOR AND FRAME TO BE REPAIRED.	B109
B110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B110
B111	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B111
B112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B112
B113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B113
B114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B114
B115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B115
B116	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B116
B117	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			B117
B118	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●		(E) DOOR AND FRAME TO BE REPAIRED.	B118
B119	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●		(E) DOOR AND FRAME TO BE REPAIRED.	B119
B120	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						10.0		60 MIN.		B120
B121	A	36 x 84	1 3/4"			HM			(E) HM						16.0		90 MIN.	REPLACE (E) DUTCH DOOR WITH NEW FLUSH DOOR. (E) DOOR FRAME TO ME REMAIN	B121
B122	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						10.0		60 MIN.		B122
B123	A	36 x 84	1 3/4"			HM			(E) HM						16.0		90 MIN.	REPLACE (E) DUTCH DOOR WITH NEW FLUSH DOOR. (E) DOOR FRAME TO ME REMAIN	B123
B124	A	36 x 84	1 3/4"			HM			(E) HM						17.0		90 MIN.	REPLACE (E) DUTCH DOOR WITH NEW FLUSH DOOR. (E) DOOR FRAME TO ME REMAIN	B124

2 TYP.

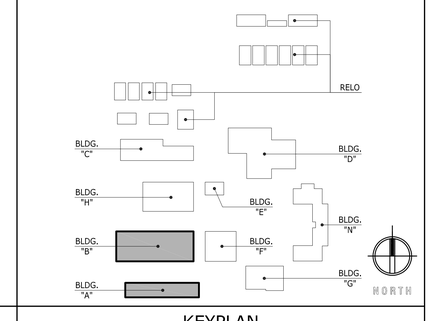
BUILDING B - DOOR SCHEDULES | N.T.S | 4



NOTES:
ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING BUT NOT LIMITED, SHALL CONFORM WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE CALIFORNIA BUILDING CODE.

A. DOOR SHALL BE OPERABLE FROM THE INSIDE WITH A SINGLE MOTION WITHOUT THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE
B. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE WITHIN 34" AND 42" ABOVE FINISH FLOOR.
C. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
D. OPERABLE PARTS OF ALL THE ACCESSIBLE ELEMENTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX PER CBC SECTION 11B-205 AND 11B-309.4.

DOOR TYPES | 1/4"=1'-0"



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_4Yu4893_Morongo\50_AccessControlUpgrades-49Sites\DFS6iNRevit\CAD\BI_A4.01_La Contenta MS_Bldg A & B___ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:50 PM

DRAWN BY: MN
CHECKED BY: HN

ISSUE No.____ DATE_____ DESCRIPTION_____
REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2
REVISION No.____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

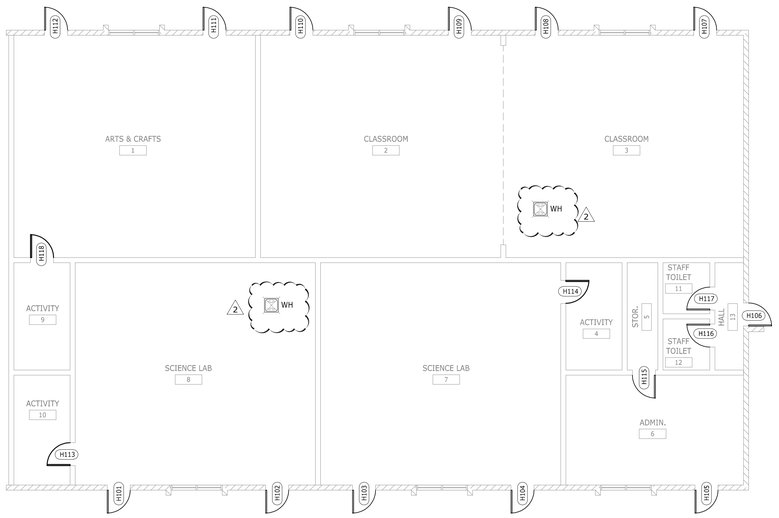
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

LA CONTENTA MS
BUILDING A & B
FLOOR PLAN & DOOR SCHED.

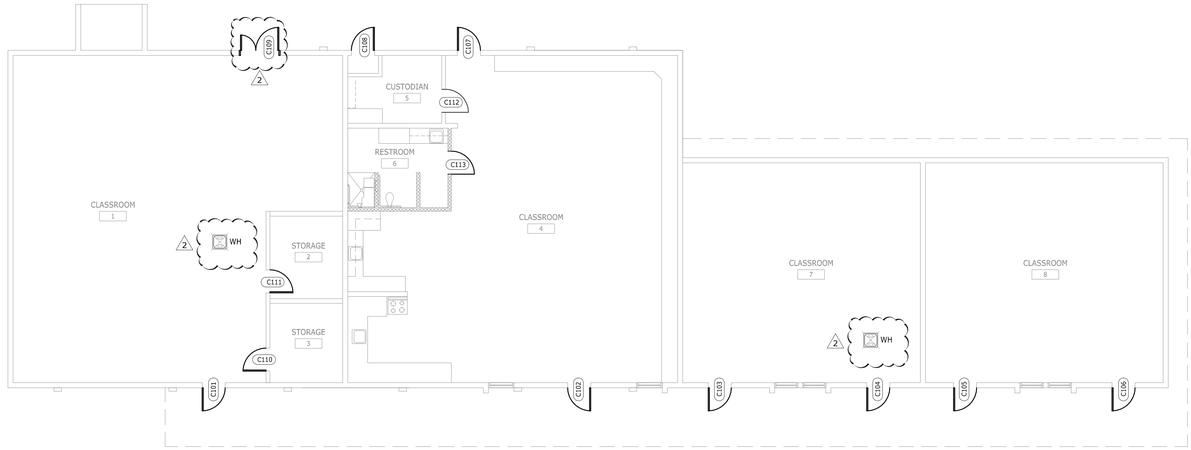
A4.01

1-49-83



NORTH

BUILDING H - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING C - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'C'

	DOOR								FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
C101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C101
C102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C102
C303	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C303
C104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C104
C105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C105
C106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C106
C107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			C107
C108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0	2 TYP.			C108
C109	B	UE 60 x 84	1 3/4"			HM			(E) HM						12.0	●		(E) EQUAL PAIR OF DOORS TO BE CHANGED TO (N) UNEQUAL PAIR OF DOORS 3'-0" AND 2'-0". (E) DOOR FRAME TO REMAIN	C109
C110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0		90 MIN.		C110
C111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				C111
C112																		NO ACCESS CONTROL PROVIDE	C112
C113	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				C113

BUILDING C - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'H'

	DOOR								FRAME			DETAILS						
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
H101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H101
H102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H102
H103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H103
H104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H104
H105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			H105
H106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.0				H106
H107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H107
H108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H108
H109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H109
H110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						1.0	●			H110
H111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						1.0	●			H111
H112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			H112
H113	A	36 x 84	1 3/4"			HM			(E) HM						17.0		90 MIN.	REPLACE (E) DUTCH DOOR WITH NEW FLUSH DOOR. (E) DOOR FRAME TO ME REMAIN	H113
H114	A	36 x 84	1 3/4"			HM			(E) HM						17.0		90 MIN.	REPLACE (E) DUTCH DOOR WITH NEW FLUSH DOOR. (E) DOOR FRAME TO ME REMAIN	H114
H115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0		90 MIN.		H115
H116	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0	2 TYP.			H116
H117	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				H117
H118	A	36 x 84	1 3/4"			HM			(E) HM						15.0			REPLACE (E) DUTCH DOOR WITH NEW FLUSH DOOR. (E) DOOR FRAME TO ME REMAIN	H118

BUILDING H - DOOR SCHEDULES | N.T.S | 4

NOTES:
ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING BUT NOT LIMITED, SHALL CONFORM WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE CALIFORNIA BUILDING CODE.

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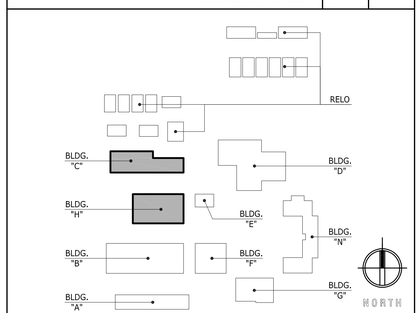
B. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE WITHIN 34" AND 42" ABOVE FINISH FLOOR.
C. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
D. OPERABLE PARTS OF ALL THE ACCESSIBLE ELEMENTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX PER CBC SECTION 11B-205 AND 11B-309.4.

DOOR TYPES | 1/4"=1'-0"



KEYPLAN

PROJECT No. : 1-49-83
6/1/2022 6:54 PM

DRAWN BY: HN CHECKED BY: HN

ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____
ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No._2_ DATE 05/01/22 DESCRIPTION_ADDENDUM 2_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES

MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

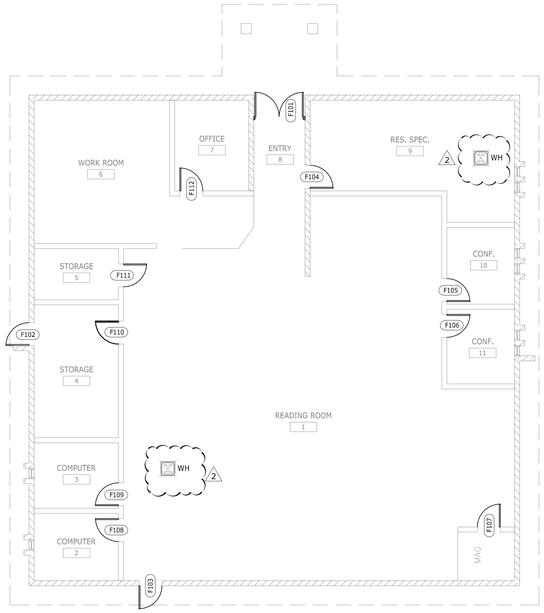
LA CONTENTA MS
BUILDING C & H
FLOOR PLAN & DOOR SCHED.

A4.02

1-49-83

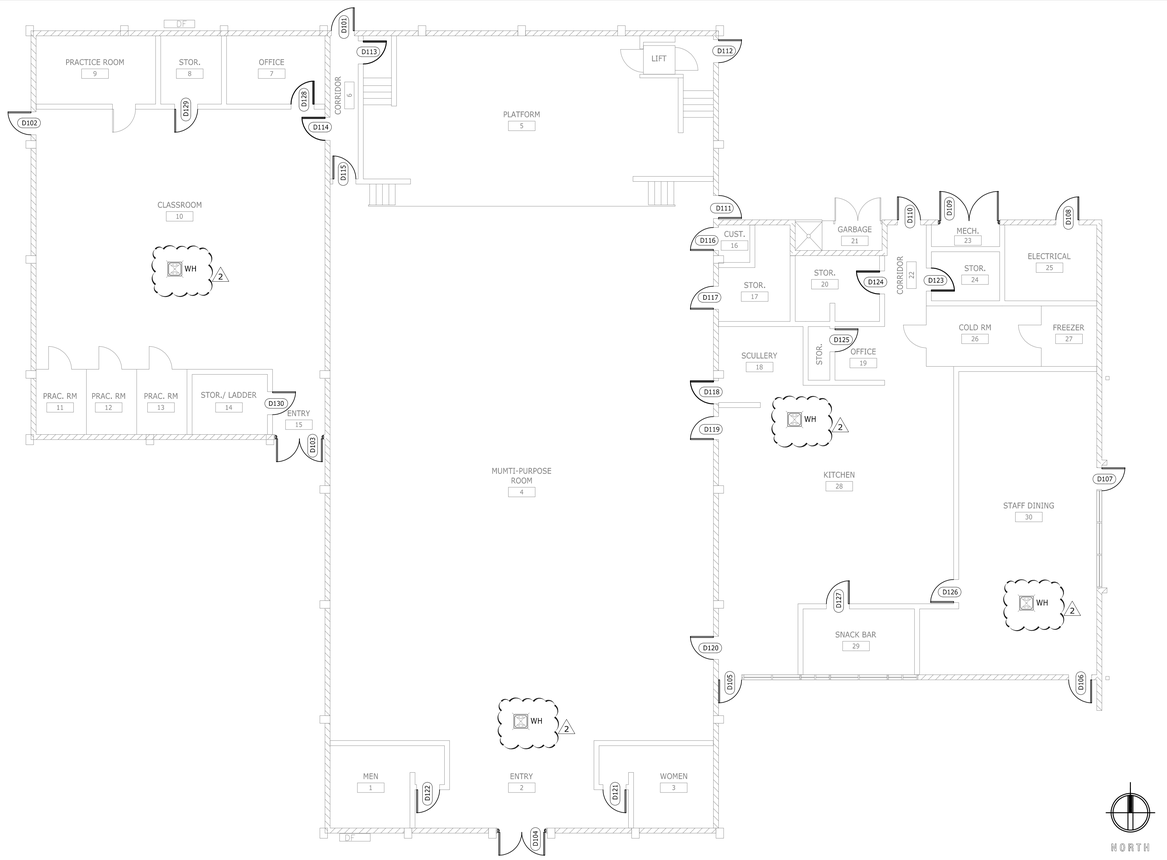
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

J:\Morongo_49\1483_Morongo\BID_Access control\bid upgrades-45sites\DESIGN\Revit\CAD\32_A4.02_La Contenta MS_Bldg C & H__ADD 2.dwg



NORTH

BUILDING F - FLOOR PLAN | 1/8"=1'-0" | 2



NORTH

BUILDING D - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'D'

	DOOR								FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
D101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D101
D102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D102
D103	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			D103
D104	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			D104
D105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D105
D106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D106
D107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D107
D108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						4.0				D108
D109	(E)	PR 46 x 84	1 3/4"			(E) HM			(E) HM						13.0				D109
D110	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						1.0	●			D110
D111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						1.0	●			D111
D112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0				D112
D113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						10.0		60 MIN.		D113
D114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						10.0				D114
D115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			D115
D116	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				D116
D117	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				D117
D118	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0				D118
D119	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0				D119
D120	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0				D120
D121	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				D121
D122	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						14.0				D122
D123	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0		60 MIN.		D123
D124	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0		60 MIN.		D124
D125	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				D125
D126	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				D126
D127	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				D127
D128	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0	2 TYP.			D128
D129	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0		60 MIN.		D129
D130	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				D130

BUILDING D - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'F'

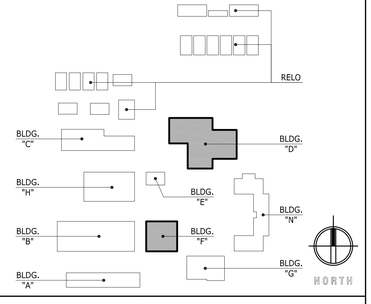
	DOOR								FRAME			DETAILS							
NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
F101	(E)	PR 36 x 84	1 3/4"			(E) HM			(E) HM						11.0	●			F101
F102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0				F102
F103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			F103
F104	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				F104
F105	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				F105
F106	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				F106
F107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				F107
F108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				F108
F109	(E)	60 x 84	1 3/4"			(E) WD			(E) HM						4.0				F109
F110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						5.0	2	60 MIN.		F110
F111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						5.0				F111
F112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				F112

BUILDING F - DOOR SCHEDULES | N.T.S | 4

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS



KEYPLAN

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES; 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4M\4M03_Morongo\SD_AccessControlUpgrades-9Sites\DESIGN\Revit\CAD\03_A4.03_La Contenta MS_Bldg D & F__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 6:58 PM

DRAWN BY: HN | CHECKED BY: HN

ISSUE No.___ DATE___ DESCRIPTION___
REVISION No.__2__ DATE 06/01/22 DESCRIPTION ADDENDUM 2

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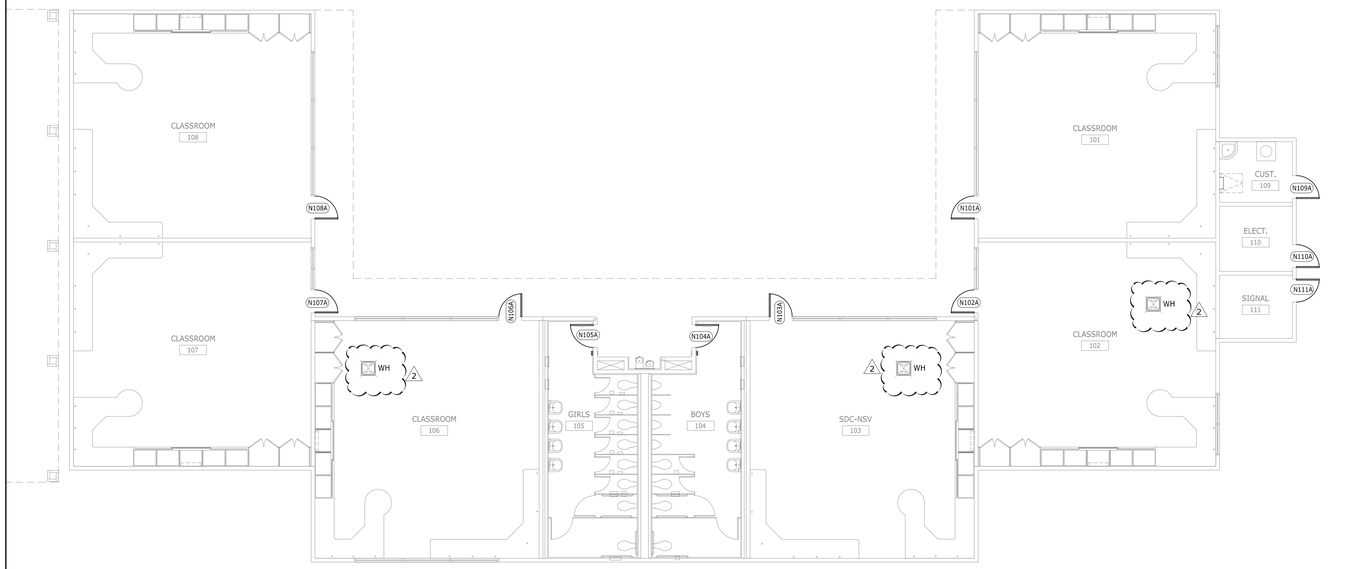
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES
MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

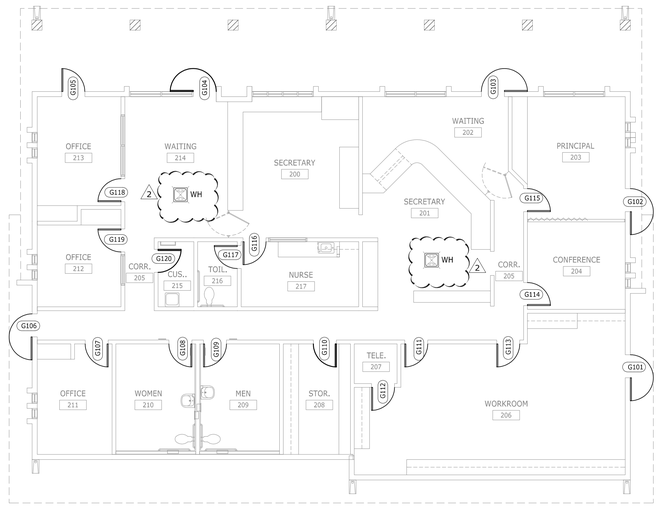
LA CONTENTA MS
BUILDING D & F
FLOOR PLAN & DOOR SCHED.

A4.03

1-49-83



BUILDING N - FLOOR PLAN | 1/8"=1'-0" | 2



BUILDING G - FLOOR PLAN | 1/8"=1'-0" | 1

DOOR SCHEDULE: BUILDING 'G'

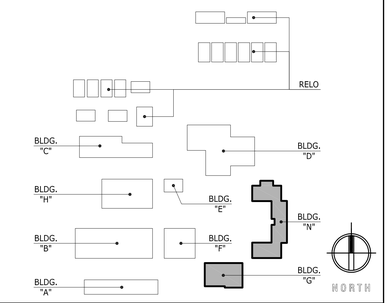
NUMBER	DOOR TYPE	DOOR SIZE	DOOR THICKNESS	DOOR LOUVER	DOOR UNDERCUT	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
G101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						7.0				G101
G102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						3.0				G102
G103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			G103
G104	(E)	36 x 84	1 3/4"			(E) ALUM			(E) ALUM						1.0	●			G104
G105	(E)	36 x 84	1 3/4"			(E) ALUM			(E) ALUM						1.0	●			G105
G106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						7.0				G106
G107	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				G107
G108	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						8.0				G108
G109	(E)	60 x 84	1 3/4"			(E) WD			(E) HM						8.0				G109
G110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0		90 MIN.		G110
G111	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0				G111
G112	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				G112
G113	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0				G113
G114	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				G114
G115	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						3.0				G115
G116	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				G116
G117	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				G117
G118	(E)	60 x 84	1 3/4"			(E) WD			(E) HM						3.0				G118
G119	(E)	36 x 84	1 3/4"			(E) WD			(E) HM						4.0				G119
G120	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						6.0		90 MIN.		G120

BUILDING D - DOOR SCHEDULES | N.T.S | 3

DOOR SCHEDULE: BUILDING 'N'

NUMBER	DOOR TYPE	DOOR SIZE	DOOR THICKNESS	DOOR LOUVER	DOOR UNDERCUT	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
N101A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N101A
N102A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N102A
N103A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N103A
N104A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0				N104A
N105A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0				N105A
N106A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N106A
N107A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N107A
N108A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N108A
N109A	(E)	60 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N109A
N110A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N110A
N111A	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			N111A

BUILDING H - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

STAMPS

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022 _BID SETS ADD. 2

J:\Morongo_4Rivers\Morongo\SD_Access control\bid grades 4\Revit\DESIGN\Revit\CAD\04_A4.04_La Contenta MS_Bldg G & N__ADD 2.dwg

PROJECT No. : 1-49-83
6/1/2022 7:01 PM

DRAWN BY: HN CHECKED BY: HN

ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____
ISSUE No.____ DATE____ DESCRIPTION____

REVISION No.__2__ DATE 05/31/22 DESCRIPTION_ ADDENDUM 2 ____
REVISION No.____ DATE____ DESCRIPTION____
REVISION No.____ DATE____ DESCRIPTION____
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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

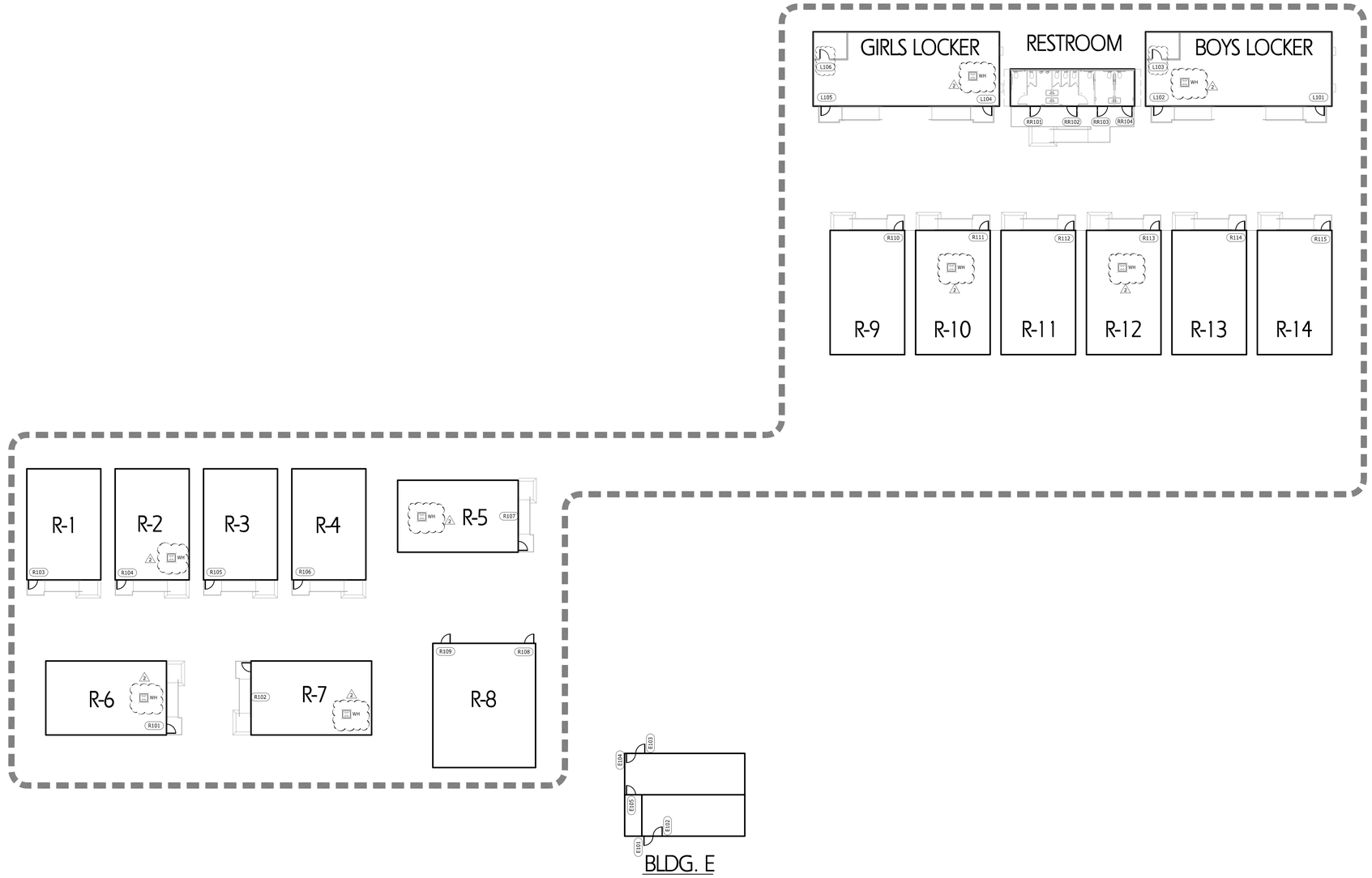
BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES

MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

LA CONTENTA MS
BUILDING G & N
FLOOR PLAN & DOOR SCHED.

A4.04

1-49-83

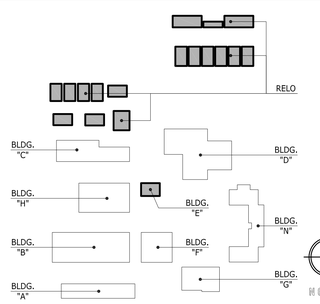


RELO - FLOOR PLAN | 1/16"=1'-0" | 1

DOOR SCHEDULE: RELO & BUILDING 'E'

	DOOR									FRAME			DETAILS							
	NUMBER	TYPE	SIZE	THICKNESS	LOUVER	UNDERCUT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEAD	JAMB	THRESHOLD	HDW GROUP	PANIC HDW	FIRE RATING	REMARKS	NUMBER
RELO: R-1 THRU R-14	R101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R101
	R102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R102
	R103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R103
	R104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R104
	R105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R105
	R106	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R106
	R107	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R107
	R108	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R108
	R109	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			R109
	R110	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R110
	R111	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R111
	R112	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R112
	R113	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R113
	R114	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R114
	R115	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			R115
BOYS LOCKER	L101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L101
	L102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L102
	L103																		NO ACCESS CONTROL PROVIDE	L103
RESTROOM LOCKER	RR101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			RR101
	RR102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						2.0	●			RR102
	RR103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.0				RR103
	RR104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						8.0				RR104
GIRLS LOCKER	L104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L104
	L105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						1.0	●			L105
	L106																		NO ACCESS CONTROL PROVIDE	L106
BUILDING "E"	E101	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0				E101
	E102	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0	2 TYP.			E102
	E103	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0				E103
	E104	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						14.0				E104
	E105	(E)	36 x 84	1 3/4"			(E) HM			(E) HM						9.0				E105

RELO - DOOR SCHEDULES | N.T.S | 4



KEYPLAN

LICENSED ARCHITECT ROGER CLARKE No. C-21340 Exp. 10-31-23 STATE OF CALIFORNIA

STAMPS

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

PROJECT No. : 1-49-83
6/1/2022 7:06 PM

DRAWN BY: HN CHECKED BY: HN

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ISSUE No._____ DATE_____ DESCRIPTION_____
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ISSUE No._____ DATE_____ DESCRIPTION_____

REVISION No.__2__ DATE 05/01/22 DESCRIPTION_ADDENDUM 2_____
REVISION No._____ DATE_____ DESCRIPTION_____
REVISION No._____ DATE_____ DESCRIPTION_____
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BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES

MORONGO UNIFIED SCHOOL DISTRICT
5715 UTAH TRAIL, TWENTYNINE PALMS, CA 92277

LA CONTENTA MS
BUILDNG E & RELO
FLOOR PLAN & DOOR SCHED.

A4.05

1-49-83

BID #22-01 ACCESS CONTROL & DOOR HARDWARE UPGRADES @ VARIOUS DISTRICT SITES: 06/01/2022_BID SETS ADD. 2

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