

**ADDENDUM NUMBER THREE**

**DATE August 17, 2018**

**TO THE PLANS AND SPECIFICATIONS FOR:**

**PAGE 1 OF 31 PAGES**

RENOVATIONS AT ADMINISTRATION BUILDING  
SANTA ROSA INDEPENDENT SCHOOL DISTRICT  
SANTA ROSA, TEXAS

LAMARR WOMACK & ASSOCIATES, LP  
711 N. CARANCAHUA, SUITE 404  
CORPUS CHRISTI, TX 78401  
361/884-7442 FAX: 361/883-1612



This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, materialmen, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth any time, any place in this addendum. These documents shall be attached to and become a part of the contract documents for this project.

**CLARIFICATION ITEMS**

Item C-1      Section 00300 Competitive Sealed Proposal: Use the attached competitive sealed proposal forms to submit your bids.

**SPECIFICATION ITEMS**

Item S-1      Section 087100 – Finish Hardware – **DELETE** the section in its entirety and **REPLACE** with the attached revised section.

Item S-2      Section 102800 – Toilet, Bath and Laundry Accessories, 2.3 Warm-Air Dryers, B.  
– **ADD** World Dryer, SLIMdri # L-973 as an acceptable product, comparable equal to Bobrick B-7128 is required.

**PLAN ITEMS**

Item P-1      Sheet A101 Demolition Plan, 1 Demolition Plan, Rooms A136 Executive Session, A137 Records – **REVISE** Demolition plan, refer to attached page AD3-1.

Item P-2      Sheet A200 Floor Plan, 1 Floor/Fixture Plan, Rooms A135 Board Room, A136 Executive Session, A137 Records – **REVISE** Floor plan, refer to attached page AD3-2.

Item P-3      Sheet A300, 1 Reflected Ceiling Plan – **REVISE** plan layout of Rooms A135, A136, A137 to coincide with page AD3-2 and MEP addendum no.3.

**ADDENDUM NUMBER ONE**

**DATE July 17, 2018**

**TO THE PLANS AND SPECIFICATIONS FOR:**

**PAGE 2 OF 31 PAGES**

- Item P-4      Sheet A300, 2 Floor Graphics Plan – **REVISE** plan layout of Rooms A135, A136, A137 to coincide with page AD3-2.
- Item P-5      Sheet A400 Door and Window Schedules, Door and Frame Schedule, Door marks A102A and A102B, Door Material – **CHANGE** P.lam. **TO** Aluminum.
- Item P-6      Sheet A400 Door and Window Schedules, Door and Frame Schedule – **ADD** Door – Mark A135C, Style W, Placement Interior, Type Single, Size 3'-0" x 7'-0" x 1-3/4", Type LNL, Glass B, Material P.Lam., Frame – Elev. AA, Material Galv. H.M., Remark C.
- Item P-7      Sheet A400 Door and Window Schedules, Door and Frame Schedule, Door mark A136A – **ADD** remark K.
- Item P-8      Sheet A400 Door and Window Schedules, Door and Frame Schedule, Door mark A136B – **DELETE** Door mark A136B.
- Item P-9      Sheet A400 Door and Window Schedules, Door and Frame Schedule Notes, Door and Frame Remarks: – **ADD** K. Aluminum threshold, ADA/TAS compliant, 271A AL Pemko.
- Item P-10     Sheet A400 Door and Window Schedules, Window Schedule, Mark A135A, Elev. E. – **CHANGE** Material from Alum. **TO** Galv. Hollow Metal. **DELETE** remark DD.
- Item P-11     Sheet A400 Door and Window Schedules, Details 13, 14, 15 – **CHANGE** Aluminum storefront sliding window **TO** Galvanized hollow metal sliding window. Refer to specifications.

**MEP ITEMS**

See attached MEP Addenda Items (4 pages)

## SECTION 00300 - COMPETITIVE SEALED PROPOSAL

**PROJECT:** RENOVATIONS AT ADMINISTRATION BUILDING  
SANTA ROSA INDEPENDENT SCHOOL DISTRICT  
SANTA ROSA, TEXAS

**PLACE:** ADMINISTRATION BUILDING  
102 JESUS R. CRUZ  
SANTA ROSA, TEXAS 78593

**DATE & TIME FOR RECEIPT OF THE COMPETITIVE SEALED PROPOSAL:** August 21, 2018 at  
3:00 P.M. CST

**TO:** MR. HERIBERTO VILLARREAL, SUPERINTENDENT

1. Pursuant to and in compliance with the Invitation to Offerors and the proposed Contract Documents dated July 9, 2018, prepared by LAMARR WOMACK & ASSOCIATES, LP relating to the above referenced project, the undersigned, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the Contract Documents, and addenda thereto, for the following sum of money:

**A. BASE PROPOSAL: Renovations at Administration Building**

All labor, materials, services, and equipment necessary for completion of the work in accordance with the Contract Documents and Addenda thereto for the sum of:

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**B. ALTERNATES:**

**ALTERNATE No. 1 – Security Camera System**

All labor, materials, services, and equipment necessary for completion of the Security Camera System. If the Owner elects to proceed with Alternate No. 1 add the sum of:

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**ALTERNATE No. 2 – Access Controlled Doors**

All labor, materials, services, and equipment necessary for completion of the Access Controlled Doors. If the Owner elects to proceed with Alternate No. 2 add the sum of:

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

2. If awarded this contract the undersigned will execute a satisfactory Construction Contract, Performance Bond, Labor and Material Payment Bond and proof of insurance coverage, with the Owner for the entire work as per the Contract Documents within 10 calendar days after notice of award. It is agreed that this proposal is subject to the Owner's acceptance for a period of 45 days from the above date.

3. Enclosed is a Certified Check or Proposal Bond in the amount of 5% of the highest amount bid, in compliance with the specification requirements. **(Personal or company checks are not allowed.)**

The above Check or Security Bond is to become the property of the Owner in the event the Construction Contract (when offered by the Owner) and the bonds and proof of insurance coverage are not executed within the time set forth above.

4. **Extra Work:** The undersigned agrees that should any change in the work or extra work be ordered, the allowance for overhead and profit combined shall be as scheduled below, but in no case shall it exceed 14%. The following applicable percentages shall be added to the extra work cost as defined by Article 7 of the General Conditions.

- A. Allowance to the Contractor for overhead and profit for extra work provided by his own forces \_\_\_\_\_. **(Do not exceed 10%)**
- B. Allowance to the Contractor for overhead and profit for extra work provided by a subcontractor and supervised by the Contractor \_\_\_\_\_. **(Do not exceed 4%)**
- C. The General Contractor shall not be allowed to charge the Owner for "extended overhead" charges relating to weather delays and construction related delays.

5. The undersigned agrees to the following:

- A. To furnish all labor and materials as shown and specified.
- B. To complete work in \_\_\_\_\_ days.
- C. To work \_\_\_\_\_ days per week.
- D. To start work \_\_\_\_\_ days after notice of award of contract.

6. The full amount of all allowances as specified in the General Requirements, Division I, Section 01020, of the Specifications, is included in the Base Offer price shown.

7. Receipt is acknowledged of the following addenda:

No. \_\_\_\_\_  
No. \_\_\_\_\_  
No. \_\_\_\_\_

Dated \_\_\_\_\_  
Dated \_\_\_\_\_  
Dated \_\_\_\_\_

8. Offeror declares that proposal does not include any product/manufacturer substitutions which have **not** been prior approved by Addendum.

\_\_\_\_\_  
Initials

\_\_\_\_\_  
Date

9. Offeror declares that he will not withhold more retainage from the subcontractor and/or suppliers than the Owner withholds from the Contractor as per Article 9.6.2 of Section 00700 General Conditions.

\_\_\_\_\_  
Initials

\_\_\_\_\_  
Date

10. Offeror acknowledges and understands Section 00100-22, paragraph 5, Selection Criteria and Section 00100-3, paragraph E to be "Careful and Thorough", and that any unanswered Selection Criteria will receive "0" points. ALL Selection Criteria is required at the time of the Receipt of Proposals.

\_\_\_\_\_  
Initials

\_\_\_\_\_  
Date

11. Offeror agrees that the Owner has the right to accept or reject any or all competitive sealed proposals, to accept the competitive sealed proposal providing the best value for the Owner, and to waive all informalities.
12. If the district is unable to negotiate a contract with the selected offeror, the district shall, formally and in writing, end negotiations with that offeror and proceed to the next offeror in the order of the selection ranking until a contract is reached or all proposals are rejected.
13. The Offeror has attached to this Proposal the information required in Section 00100, Paragraph 5, of the Instructions to Offerors.

Respectfully submitted,

By \_\_\_\_\_  
Signature/Title

\_\_\_\_\_  
Printed Name/Title

\_\_\_\_\_  
Company

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
Phone Number

(Seal-if Offeror is a corporation)

**END OF SECTION**

**SECTION 08 71 00 - FINISH HARDWARE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

Hardware for swinging, sliding, and folding doors except special types of unique and non-matching hardware specified in other sections.

**1.02 RELATED WORK**

- A. Section 08 11 13 – Hollow Metal Doors and Frames
- B. Section 08 21 11 – Flush Wood Doors
- C. Section 08 36 13 – Overhead Sectional Doors
- D. Section 08 43 13 – Metal Framed Storefronts
- E. Division 26 – Electrical

**1.03 REFERENCES**

- A. ADA - Americans with Disabilities Act of 1990 including Accessibility Guidelines as amended by the D.O.J. September 15, 2010, as adopted by the Authority Having Jurisdiction (AHJ).
- B. ANSI A117.1 - Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People.
- C. ANSI/BHMA A156 (.1 through .21)
- D. ANSI/DHI – A115.IG Installation Guide for Doors and Hardware.
- E. FEMA P-361 – Safe Rooms for Tornadoes and Hurricanes.
- F. NFPA 80 - Fire Doors and Windows.
- G. NFPA 101 – Life Safety Code
- H. IBC - International Building Code, as adopted by public Authority Having Jurisdiction (AHJ).
- I. State and local Rules and Regulations for Barrier Free Facilities, as adopted by AHJ.

**1.04 DOOR HARDWARE TYPES**

- A. Types of finish hardware required include, but is not necessarily limited to, the following:
  - 1. Pivot sets and intermediate pivots.
  - 2. Hinges.
  - 3. Lock cylinders.
  - 4. Keys, keying, and key control.
  - 5. Locksets, latchsets, and privacy sets.
  - 6. Exit devices.
  - 7. Closers.
  - 8. Mullions.
  - 9. Overhead, wall, and floor stops.
  - 10. Protection plates.
  - 11. Gasketing for exterior and interior doors, as required.
  - 12. Door holders.
  - 13. Door bottoms.
  - 14. Thresholds.
  - 15. Silencers.
- B. Requirements for design, grade, function, finish, size and other distinctive qualities of each type of door hardware is indicated elsewhere in this section or in the Door Hardware Schedule at the end of this section. Refer to Part 2 Products for Manufacturer's identification and allowable substitutions.

**1.05 SUBMITTALS**

- A. Under provisions of Section 01 34 00, submit the following:
1. Product information: Manufacturer's published technical product data for all specified door hardware items indicating compliance with the requirements.
  2. Hardware Schedule:
    - a. Hardware schedules are intended for the Contractor's coordination of the work. Review and acceptance by the Architect or Owner does not relieve the Contractor of his exclusive responsibility to fulfill the requirements as shown and specified.
    - b. Submit hardware schedule in the manner and format as specified, complying with the actual construction progress schedule requirements for each draft. Include the following information:
      - 1) Explanation of all abbreviations, symbols, codes, at the like, including door handing.
      - 2) Type, style, function, size, and finish of each hardware item.
      - 3) Door and frame sizes and materials cross referenced to the Architect's marks in the door schedule.
      - 4) Room identification (name and number) on each side of door opening as indicated on the drawings.
      - 5) Product name, model number, description, and name of manufacturer of each item.
      - 6) Fastenings and other pertinent information.
      - 7) Locations of hardware cross referenced to architectural floor plans and door schedules.
      - 8) Mounting heights and locations of each type of hardware.
  3. Key Schedule:
    - a. Require a qualified representative of the hardware supplier to personally meet with the Owner and Architect to obtain the Owner's written key requirements.
    - b. Include a separate key schedule, showing clearly how the Owner's instructions on keying of locks has been fulfilled.
    - c. Lock functions will be confirmed at this meeting before materials are ordered.
  4. Samples: Upon request, submit actual material samples.
  5. Templates: Hardware supplier will furnish hardware templates to the Contractor for each fabricator of doors, frames, and other work to be shop prepared or factory prepared for the installation of hardware. Upon request check shop drawings of such other work, to conform that adequate provisions are made for proper location and installation of hardware.
  6. Provide electrical operation technical sheets including product schematics, point to point diagrams, and electrical requirements of all electrified hardware. Completely coordinate with the general contractor, electrical engineer, electrician, security access subcontractor and the installer. Operational descriptions are for demonstration only – verify operational intent with the owner, architect and electrical engineer.
  7. Coordinate the Best Shelter system per #6, including installation and training of the owner's representatives.
- B. Under provisions of Section 01 70 00, submit the following:
1. Product information.
  2. Hardware schedule.
  3. Manufacturer's published operation and maintenance data. Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
  4. Tools and extra materials as required.
  5. Manufacturer's warranties, revise to meet criteria as established within this section. Warranty periods shall commence upon acceptance of the building by the owner. Where warranties listed exceed the manufacturer's standard warranty, obtain in writing an extended warranty to meet the requirements above and as noted. If the manufacturer will not meet these requirements, and another approved manufacturer will comply, supply the alternate approved manufacturer.



- A. Acceptable Designs:
  - 1. Items specified in this section are products which are of acceptable design.
  - 2. Do not substitute products without Architect's written prior approval per Section 01 60 00. Requests for approval shall be submitted by factory authorized distributor firms representing the products proposed for substitution. Items that are noted to allow no substitution are matching existing materials and the owner's material inventory for servicing the facility.
- B. Qualifications:
  - 1. Manufacturer: Manufacturers named in Part 2 of this section with not less than 5 years experience in manufacturing commercial door hardware of the type indicated.
  - 2. Hardware Supplier:
    - a. A recognized architectural finish hardware supplier who has been furnishing hardware in the same state as the project for a period of not less than 5 years.
    - b. Hardware supplier's organization shall include an experienced Architectural Hardware Consultant (AHC), certified by the Door and Hardware Institute (DHI), who is physically available, at reasonable times during the course of the work, for consultation about project's hardware requirements, to Owner, Architect and Contractor. Mail or telephone correspondence is not acceptable.
    - c. Hardware supplier shall have local warehousing facilities and shall maintain an adequate parts inventory of items supplied for future service to the owner. Supplier will be a factory authorized distributor of all hardware specified.
  - 3. Installer: Company specializing in installing work of this section with not less than 5 years experience and acceptable to the manufacturers and the hardware supplier. Maintain regular work force of qualified personnel, trained, skilled, and experienced in installing door hardware and constant, competent supervision per the requirements of the General Contractor. The hardware installer shall meet with the representatives of the General Contractor and hardware supplier to jointly inventory all hardware items. Upon satisfactory inventory of products, the hardware installer accepts responsibility for all hardware items inventoried.
  - 4. Best Shelter locking system is to be installed by factory authorized personnel. Installation costs are to be included as part of the base bid and can be acquired through the area Best representatives.
- C. Regulatory Requirements:
  - 1. Provide hardware for all openings, whether specified or not, in compliance with NFPA Standard No. 80 and local building code requirements. Provide only hardware which has been tested and listed by UL or FM for types and sizes of doors required and complies with requirements of door and door frame labels. Label hardware, as required, for compliance with pressure testing criteria as dictated in IBC.
  - 2. Provide hardware which meets or exceeds handicap accessibility per local building code requirements. Conform to the Americans with Disabilities Act (ADA) of 1990 as amended by the D.O.J. September 15, 2010, as adopted by the Authority Having Jurisdiction (AHJ).

1.07 DELIVERY, STORAGE, HANDLING, AND PROTECTION

- A. Deliver, store, handle, and protect products to project site under provisions of Section 01600 and as specified herein.
- B. Require hardware supplier to:
  - 1. Tag each item or package separately, with identification related to final hardware schedule.
  - 2. Include manufacturer's basic installation instructions with each item or package.
  - 3. As material is received by hardware supplier from various manufacturers, sort and repackage in containers with each item clearly marked with appropriate opening numbers to match the approved hardware schedule. Two or more identical items may be packed in the same container.
  - 4. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installation.



5. Inventory hardware jointly with representatives of the General Contractor, hardware supplier and the hardware installer until each is satisfied that count is correct. Refer to paragraph 1.6-B-3.
- C. Protect hardware from theft by cataloging and storing in a secure and lockable area. Control the handling and installation of hardware items which are not immediately replaceable, so that the completion of the work will not be delayed by hardware losses, both before and after installation. Replace lost, missing, damaged, or stolen door hardware items at no additional cost to the Owner as required to meet schedule requirements.

#### **1.08 SEQUENCING AND SCHEDULING**

- A. Coordinate work of this section with the work of other sections of work under provisions of Section 01 04 00
- B. Furnish hardware templates to each fabricator of doors, frames, and other work to be shop or factory prepared for the installation of hardware.
- C. Verify completeness and suitability of door hardware with the hardware supplier and the hardware installer.

#### **1.09 MAINTENANCE MATERIALS**

- A. Under provisions of Section 01 70 00, furnish to Owner a complete set of special wrenches and tools applicable to each different or special hardware component as needed for Owner's continued adjustment, maintenance, removal, and replacement of door hardware.
- B. Special tools and accessories shall be supplied by the hardware component manufacturer.

### **PART 2 PRODUCTS**

#### **2.01 MATERIALS AND FABRICATION**

- A. General:
  1. Provide all door hardware for complete work, in accordance with the drawings and as specified herein.
  2. Quantities listed, in any instance, are for the Contractor's convenience only and are not guaranteed.
  3. Provide items and quantities not specifically mentioned to ensure a proper and complete operational installation. Match the quality and finish of items specified.
  4. Provide miscellaneous hardware as listed in hardware groups.
- B. Hand of door: Drawings show direction of slide, swing or hand of each door leaf. Door schedule indicates door and frame sizes, materials, required fire ratings, and other pertinent information. Furnish each item of hardware for proper installation and operation of door movement as indicated.
- C. Manufacturer's Name Plate: Do not use manufacturer's products which have manufacturer's name or trade name displayed in a visible location (omit removable name plates), except in conjunction with required UL or FM labels and as otherwise acceptable to the Architect. Manufacturer's identification will be permitted on rim of lock cylinders and latch faceplates only.
- D. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
- E. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self-tapping sheet metal screws, except as specifically indicated.

1. Screws: Furnish screws for installation, with each hardware item. Provide Phillips flat head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finishes of such other work as closely as possible, including "prepared for paint" in surfaces to receive painted finish.
2. Concealed Fasteners: Provide concealed fasteners for hardware units which are exposed when door is closed, except to extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work, except where it is not feasible to adequately reinforce the work. In such cases, provide sleeves for each thru-bolt or use sex screw fasteners.

## 2.02 HINGES

- A. Manufacturer:
  1. Listed in Door Hardware Schedule: Stanley
  2. Approved Substitutions: Per 1.06-A-2
  3. Continuous hinges are as manufactured by Stanley.
- B. Templates: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template produced units.
- C. Screws: Furnish Phillips flat head or machine screws for installation of units, except furnish Phillips flat head or wood screws for installation of units into wood. Finish screw heads to match surface of hinges.
- D. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
  1. Steel Hinges: Steel pins.
  2. Non-ferrous Hinges: Stainless steel pins.
  3. Exterior doors: Non-removable pins.
  4. Reverse bevel interior doors (lockable): Non-removable pins.
  5. Interior doors: Non-rising pins.
- E. Pin Tips: Flat button and matching plug, finished to match leaves.
- F. Hinges will be the manufacturer's standard 5-knuckle concealed bearing type.
- F. Number of Hinges: Provide number of hinges indicated, but not less than 3 hinges per door leaf for doors 90" or less in height and one additional hinge for each 30" of additional height.
- G. Butt type hinges and continuous hinges are to be warranted for a period of two years.

## 2.03 LOCK CYLINDERS

- A. Manufacturer:
  1. Listed in Door Hardware Schedule: Schlage
  2. Substitutions: No substitution – district standard
- B. Equip locks with 6-pin cylinders for large format interchangeable core pin tumbler inserts, Brass construction cores for use during the construction phases. Temporary construction cores shall be removed upon installation of the permanent key system by the owner and returned to the hardware supplier. Plastic construction cores are not acceptable.
- C. Construct lock cylinder parts from brass/bronze, stainless steel, or nickel silver.

## 2.04 KEYS, KEYING, AND KEY CONTROL

- A. Keys:
  1. Material: Provide keys of nickel silver only.
  2. Quantities: These quantities are to establish a maximum allowable quantity of cut keys to service the project and may not necessarily be assigned as noted. A lesser quantity of cut keys required will not result in any credits, nor a quantity of uncut keys to be issued unless noted otherwise.
    - a. 3 change keys per each cylinder unit.
    - b. 2 grand master keys.

- c. 6 master keys per master.
  - d. 2 Construction Control Keys
  - e. 2 Permanent Control Keys
  - f. 20 construction keys.
- 3. Deliver keys to the Owner's representative: Send masterkeys to Owner via U.S. registered mail direct from hardware supplier.
- B. Keying:
  - 1. Comply with Owner's written instructions for masterkeying and, except as otherwise indicated, provide individual change keys for each lock which is not designated to be keyed alike with a group of related locks.
  - 2. Grandmaster key all cylinder items to coordinate with the Owner's instructions. Permanently inscribe each key with the notation "DO NOT DUPLICATE".
  - 3. All keys and cores to be stamped.
  - 4. Installation review by AHC.
  - 5. Provide factory bitting list and hardware schedule.
- C. Key Control:
  - 1. Provide a key control system including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by the system manufacturer, with capacity for 150% of the number of locks required for the project.
  - 2. Provide a hinged panel type cabinet, for wall mounting, Telkee AWC-150S or equal.
  - 3. Provide cylinder units with concealed key control and keys with visual key control.

## 2.05 LOCKSETS, LATCHSETS, AND PRIVACY SETS:

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: Best 9K
  - 2. Approved Substitutions: Schlage ND
- B. Types: Locksets, latchsets, and privacy sets as indicated in Door Hardware Schedule.
- C. Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt. Provide dust-proof strikes for foot bolts, except where not available. At these locations, provide manufacturer's standard recessed strike. Provide roller type strikes where recommended by lock, latch or bolt manufacturer. If aluminum frames are specified, confirm with the aluminum frame supplier that the standard lock strikes will function. Provide the manufacturer's standard extended lip strikes if required.
- D. Lock Throw: Provide 3/4" minimum throw of mortise type latches and deadbolts used. Cylindrical latches will be 1/2" minimum. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
- E. Locks and latches shall be warranted for a period of five years.

## 2.06 CYLINDRICAL TYPE LOCKS FOR LOCKDOWN:

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: Best 9KX
  - 2. Approved Substitutions: Schlage AD400 Equivalent
- A. Code Compliance, UL10C-3 Hour; ANSI/BHMA A156.2 Grade 1, ANSI/BHMA A156.25 and ANSI/BHMA A156.5; NFPA101 Life Safety Code and IBC Compliant; FCC Part 15, B: and UL1034 Listed.
- B. Functions; Classroom in standard mode, lock and unlock with key on outside and functions in Storeroom in lockdown mode the key retracts latch, and outside lever is always locked.
- C. Chassis latch and chassis components are brass or corrosion-treated steel.
- D. Fit modified ANSI A115.2 door preparation.
- E. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty
- F. Locksets to have anti-rotational studs that are thru-bolted
- G. Keyed lever shall not have exposed "keeper" hole

- H. Each lever to have independent spring mechanism controlling it
- I. 2-3/4 inch (70 mm) backset standard, 3 3/4", and 5" available.
- J. 9/16 inch (14 mm) throw latch bolt
- K. Provide sufficient curved strike lip to protect door trim
- L. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy
- M. Keyed lever to be removable only after core is removed, by authorized control key
- N. Provide locksets with 7-pin removable and interchangeable core cylinders
- O. Coordinate the Best Shelter system per 1.05-A-6, including installation and training of the owner's representatives.
- P. Locksets outside locked lever must withstand minimum 1400-inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset.
- Q. Core face must be the same finish as the lockset.
- R. Batteries/warnings; 4 AA batteries (Included), up to 3-year battery life. Low battery warning at lock; Battery level reporting available in software.
- S. Wireless Communication; 900 MHz; Range of 400 ft. indoors, 1,200 ft. line of site (typical).
- T. Visual Indicators; Red = Lockdown, Green = Clear/restore to normal, Blue = Wireless communications indicator; others = Error/Fault/TBD.
- U. Audible Alarm; On board sounder with software-configurable on/off Tamper detection – alarm when enclosure is removed.
- V. Gateway Communications:
  - 1. 900 MHz; Range of 400 ft. indoors; 1,200 ft. line of site (typical).
  - 2. Internet connection by ethernet connection standard; Wi-Fi or cellular connections optional. Cloud connectivity; functional without internet connection.
  - 3. Gateway when connected to cloud via internet connection; internet connection allows system status updates to cloud software; once system is configured, lockdown will still be functional if internet connection not present.
  - 4. Code compliance UL 60950, FCC Part 15 Compliant.
  - 5. Power supply; 12VDC; wall mount power supply specified to be provided along with battery back-up.
  - 6. System Setup; Local webpage for basic setup and configuration. Initial training to be included in the base bid.
- W. Repeaters:
  - 1. 900 MHz; Range of 400 ft. indoors; 1,200 ft. line of site (typical).
  - 2. Repeater to extend range of network; Maximum 8 repeaters actively extending network.
  - 3. Environment; IP 67 enclosure.
  - 4. Code compliance; UL60950
  - 5. Power Supply: 12/24VDC power; Power supply specified separately.
  - 6. Inputs; 2 dry contact switch inputs available and configurable to initiate or cancel lockdown.
  - 7. Outputs; 2 form C relay outputs, 24V/1A rated.
- X. FOB:
  - 1. Wireless communications of 900 MHz; Range of 400 ft. indoors; 1,200 ft. line of site (typical).
  - 2. Buttons; 2 button FOB, one large button for Lockdown: to be pressed and held for one second to initiate lockdown; FOB to flash when working. Second button to be smaller and to be pressed for one second for battery test and wireless communication test.
  - 3. FOB to have capability to be configurable to lock single door, set of doors, or entire system.
  - 4. FOB range 200 ft. indoors (typical).
  - 5. Code compliance; FCC Part 15 B&C.
  - 6. Material; Polycarbonate
  - 7. Battery powered by standard 3V CR2450 battery.

**2.07 EXIT DEVICES AND MULLIONS**

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: Precision
  - 2. Approved Substitutions: Von Duprin
- B. Provide risers, as needed, to prevent interference with door glazing kits.
- C. Coordinate electronic operations per 1.05-A-6.
- C. Provide spacers as needed for proper application of removable mullions on narrow stop type frames.
- D. Exit devices and related hardware shall be warranted for a period of five years.

**2.08 CLOSERS:**

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: Stanley QDC1 Series
  - 2. Approved Substitutions: LCN 4040 XP DEL
- B. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending on the size of the door, exposure to weather and anticipated frequency of use.
- C. Provide manufacturer's standard through bolt attachment where door construction is not adequate for support.
- D. Arms:
  - 1. Provide parallel arms for all overhead closers, except as otherwise indicated. Provide drop plates as needed to prevent glazing interference.
- E. Mount all closers to the maximum allowable degree of opening by the closer manufacturer's template. Where closer arms incorporate dead stop features, mount closers to the maximum degree of opening available before conflict with adjacent structures. If not apparent on the contract documents, verify the use of open space with the Architect or Owner's Representative to determine the maximum allowable degree of opening.
- F. Access Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units complying with ANSI A117.1 provisions for door opening force. Fire protection has precedence over handicap compatibility, check with local jurisdiction.
- G. Door closers and related hardware shall be warranted for a period of twenty five years or lifetime. Electronic closers shall be warranted for a period of two years.

**2.09 OVERHEAD STOPS**

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: Architectural Builders Hardware (ABH)
  - 2. Approved Substitutions: Per 1.06-A-2
- B. Mount stops to the maximum degree of opening available before conflict with adjacent structures, or, if adjacent structures are not considered, to the maximum allowable by stop manufacturer's template.
- C. If not apparent on the contract documents, verify the use of open space with the Architect or Owner's Representative to determine the maximum allowable degree of opening.
- D. Overhead stops in exterior doors must be manufactured from stainless steel, US32D finish.
- E. Overhead stops shall be warranted for a period of two years.

**2.10 WALL AND FLOOR STOPS**

- A. Manufacturers:
  - 1. Listed in Door Hardware Schedule: Trimco
  - 2. Approved Substitutions: Per 1.06-A-2

- B. General: Except as otherwise indicated, provide stops (wall, floor or overhead) at each leaf of every swinging door leaf.

#### **2.11 PROTECTION PLATES**

- A. Manufacturers:
  - 1. Listed in Door Hardware Schedule: Trimco
  - 2. Approved Substitutions: Per 1.06-A-2
- B. Types: Armor Plates, Kick Plates, Mop Plates
- C. Fasteners: Provide manufacturer's standard exposed Phillips head fasteners for door trim units; either machine screws or self-tapping sheet metal type screws per manufacturer's recommendations for application to the specified door construction.
- D. Sizes: Fabricate protection plates (armor, kick or mop) not more than 2" less than door width on stop side and not more than 1" less than door width on pull side, x the height indicated.
- E. Metal Plates: Stainless Steel, 18 gauge (0.050) thick. Satin finish, US32D (630), beveled four edges (B4E).

#### **2.12 GASKETS AND SWEEPS**

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: National Guard
  - 2. Approved Substitutions: Per 1.06-A-2
- B. General: Except as otherwise indicated, provide continuous weatherstripping at each edge of every exterior door leaf. Provide type, sizes and profiles indicated as drawn or scheduled.
- C. Fasteners: Provide non-corrosive fasteners as recommended by the manufacturer for applications indicated.
- D. Replaceable seal strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by the manufacturer.
- E. Perimeter weatherstripping: Flexible, hollow neoprene bulb or loop insert, conforming to MIL R 6055, Class II, Grade 40.
- F. Weatherstripping at Door Bottoms: Provide door bottoms consisting of contact type resilient insert and metal housing of design and size indicated.
- G. Hot smoke seal, if required by IBC and subsequent UL testing procedures, will be supplied as an integral part of the door assembly by the door manufacturer.
- H. Gaskets and sweeps shall be warranted for a period of three years.

#### **2.13 THRESHOLDS**

- A. Manufacturer:
  - 1. Listed in Door Hardware Schedule: National Guard
  - 2. Approved Substitutions: Per 1.06-A-2
- B. Except as otherwise indicated provide standard metal threshold unit of type, size and profile as detailed or scheduled.
- C. Where there is conflict between scheduled thresholds and details, details shall have precedence. Revise details only if necessary to comply with handicap accessibility requirements. Notify the Architect of such required modifications.
- D. Project thresholds are ADA ramp type. Verify all existing conditions and revise if necessary. All thresholds must be within ADA parameters. Notify the Architect of required revisions if applicable. All thresholds and returns will have the manufacturer's standard abrasive coating (SIA).
- E. Thresholds and related items shall be warranted for a period of three years, abrasive coatings shall be warranted for a period of ten years.

#### **2.14 SILENCERS**

- A. Manufacturers:

1. Listed in Door Hardware Schedule: Trimco
2. Approved Substitutions: Per 1.06-A-2

**2.15 FINISHES**

- A. Exposed surfaces of hardware shall be Brushed Chrome (US26D, 626), unless otherwise indicated. Items specified in Satin Stainless Steel (US32D, 630) shall be supplied in stainless steel with no exceptions.
- B. The designations used in the schedule and elsewhere to indicate hardware finishes are the industry recognized standard commercial finishes common to the product's manufacturer listed.

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Under provisions of Section 01 04 00, examine and verify that substrates and project site conditions are ready to receive work of this section.
- B. Do not begin installation until finishes indicated to be field applied have been applied to doors, frames, and similar items requiring project site finishing and are thoroughly dry and cured.
- C. Do not begin installation until unsatisfactory conditions are corrected in a manner acceptable to the installer. Beginning installation means installer accepts project site conditions and substrates as ready to receive work of this section.

**3.02 INSTALLATION**

- A. General: The types and approximate quantities of door hardware required for this project are indicated at the end of this section.
- B. Key Cabinet: Install in location as indicated on drawings or as directed by the Architect.
- C. Heights: Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for /standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by the Architect.
- D. Substrates: Adjust and reinforce attachment substrates as necessary for proper installation and operation of hardware.
- E. Installation:
  1. Install each hardware item in compliance with the manufacturer's instructions, requirements of NFPA 80, NFPA 101, IBC, ADA, State Rules and Regulations for Barrier Free Facilities and recommendations of the DHI.
  2. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
  3. Drill and countersink units which are not factory prepared for fasteners. Space fasteners and anchors in accordance with industry standards.
  4. Where not factory machined, machine cut for hardware per template, as required.
  5. Cut and fit thresholds and floor covers to profile of door frames. Join units with concealed welds. Cut smooth openings for spindles, bolts, or similar items. Screw thresholds to substrate with the manufacturer's standard flat head sleeve anchor (FHSL), 1/4-20 x 2" unless otherwise noted. Fill cavities of thresholds at sound rated openings with 1 inch thick (uncompressed thickness) low density fiberglass sill sealer insulation full width and length of the threshold. In addition to fastening requirements, set thresholds for exterior doors in a full bed of butyl-rubber or polyisobutylene mastic sealant.
  6. Do not install hardware which is incomplete or apparently improper for application. Notify the hardware supplier immediately of any such deficiencies. Failure to comply with this requirement indicates the hardware installer's acceptance of responsibility for proper application and performance.



7. The Best Shelter system is to be installed by a factory authorized installation company including training of the owner's representatives.
- F. Cutting and Patching:  
Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections.

### **3.03 ADJUSTING**

- A. Initial Adjustment:
  1. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Adjust resilient faced sound stops for continuous contact with door and threshold. Adjust weatherstripping and sweeps to completely seal doors with frames and to adjacent structures.
  2. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

### **3.04 DEMONSTRATION**

Instruct Owner's personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

### **3.05 CLEANING AND DEBRIS**

- A. Cleaning:
  1. Clean work under provisions of Section 01 70 00
  2. Clean adjacent surfaces soiled by work of this section.
- B. Debris: Under provisions of Section 01 50 00, remove debris from project site and legally dispose of off-site.

### **3.06 MAINTENANCE**

- A. Approximately six months after the acceptance of hardware in each area, the hardware installer shall:
  1. Return to the project and re-adjust every item of hardware to restore proper function of doors and hardware.
  2. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures.
  3. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units.
  4. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware and submit to the Architect.

### **3.07 PROTECTION**

Under provisions of Section 01 50 00, protect work of this section as required so that work will be without damage or deterioration at the time of completion and acceptance by the Owner.

### **3.08 DOOR HARDWARE SCHEDULE**

**List of Manufacturers**

AL	Altronix	Power Supplies
BE	Best	Locks, Cylinders, Shelter System
DM	Dorma	Door Position Switches, Key Switch
HE	Hanchett Entry Systems (HES)	Electric Strike
KX	The Knox Co.	Knox Box
NA	National Guard	Weatherstrip, Thresholds
PR	Precision	Exit Devices
ST	Stanley	Hinges, Closers
TK	Telkee	Key Cabinet
TR	Trimco	Stops, Push/Pulls, Flat Goods

**Finish Codes**

<u>Code</u>	<u>Description</u>
613	Oil Rubbed Bronze
626W	Brushed Chrome Weatherized
626, 652	Brushed Chrome
628	Clear Anodized Aluminum
630	Satin Stainless Steel
640	Dark Bronze Lacquered
689	Painted Aluminum
690	Sprayed Dark Bronze
695	Dark Bronze Powder Coated
DKB	Dark Bronze
GREY	Grey

**Option List**

<u>Code</u>	<u>Description</u>
C	Quick Connect Wiring Option (Precision)
CD	Cylinder Dogging (Precision)
TS	Touchbar Monitoring Switch (Precision)
MLR	Motorized Latch Retraction (Precision)
HC	Hurricane Code Device (Precision)
SNB	Sex Bolts (Precision)
SCHRC	Schlage Removable Core Preparation (Best)
B4E	Beveled 4 Edges - Kick and Mop Plates (Trimco)
CS	Counter Sinking of Kick and Mop Plates (Trimco)
SIA	Abrasive Non-slip Coating (NGP)
SSMS/EA	Stainless Machine Screws/Expansion Anchors (NGP)
SMS-TEKS	Self-Drilling Machine Screws (NGP)

**Miscellaneous Items**

Provide the following items:

1	Key Cabinet	AWC-150-S		TK
8	Spare Cores	23-020	613	SC
1	Knox Box	3200R	DKB	KX

Alternate bid – substitute/add the following:

*1	Shelter Gateway	SHX-GTW		BE
*1	Shelter Power Supply	SHX-PTL		BE
*2	Power Supplies	AL400ULACM x LB12070		AL
*4	Shelter Repeater	SHX-RPT		BE
*1	Key Switch	KS8 (reset Shelter system)		DM
1	Cylinder (key switch)	20-061		SC
1	Installation	Installation – Shelter		BE
1	(8) Hours Shelter Training	Training		BE

Include components and installation to complete the Best Shelter package.

**SET #1 - Entry**

Doors: A101A, A101B, A138A

2	Continuous Hinges	661HD	628	ST
1	Removable Mullion	KR822	689	PR
1	Exit Device	2403 S458 CD SNB	626W	PR
1	Exit Device	2401 S458 CD SNB	626W	PR
2	Rim Cylinders	20-057	626	SC
2	Mortise Cylinders	20-061	626	SC
2	Door Pulls	1191-4 Type N Mounting	630	TR
2	Door Closer/Drop Plates	QDC115 x 8Q00471	689	ST
2	Spacer Blocks	P45HD-110	689	ST
2	Angle Brackets	P45HD-112	689	ST
2	Door Stops	1209HA	689	TR
1	Mullion Seal	5100N		NA
2	Door Sweeps	200 NA SMS-TEKS		NA
1	Saddle Threshold	426 MS/EA SIA		NA
*2	Door Position Switches	MC4		<b>DM</b>

Note: This hardware set to be used as a design guideline. All items with the exception of the bold characters to be provided by the Aluminum Storefront supplier.

Perimeter gaskets by door manufacturer. Mount floor stops out of foot traffic. Operation: Card activation (if applicable) momentarily retracts latches and allows entry. Card reader by security access. Coordinate electronics to function as part of the Best Shelter security lockdown system per 1.05-A-6. Verify threshold application.

Alternate bid – substitute/add the following:

2	Continuous Hinges	661HD EPT	628	ST
*2	Power Transfers	EPT-12C		PR
*1	Exit Device	C MLR TS 2403 S458 SNB	626W	PR
*1	Exit Device	C MLR TS 2401 S458 SNB	626W	PR
*2	Wire Harnesses	WH-6E		ST
*2	Wire Harnesses	WH-12		ST
*2	Wire Harnesses	WH-192		ST
*1	Power Supply	RPSMLR2		PR

Perimeter gaskets by door manufacturer. Mount floor stops out of foot traffic. Operation: Card activation (if applicable) momentarily retracts latches and allows entry. Card reader by security access. Coordinate electronics to function as part of the Best Shelter security lockdown system per 1.05-A-6. Verify threshold application.

**SET #2 - Shelter Protected**

Doors: A106A, A108A, A110A, A112A, A113A, A113B, A119A, A130A, A131A, A134A, A136A, A136B, A137A

3	Hinges	CB179 4 1/2 X 4 1/2	640	ST
1	Lockset	9K3-7IN14D SC	613	BE
1	Core	23-020	613	SC
1	Door Closer	QDC115	690	ST
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
3	Door Silencers	1229A	GREY	TR

Coordinate electronic Best Shelter lock with the Shelter system.

Alternate bid – substitute/add the following:

1	Shelter Electronic Lock	9KX3-7R14D SC	613	BE
1	Core	23-020	613	SC

Coordinate electronic Best Shelter lock with the Shelter system.

**SET #2A - Shelter Protected**

Doors: A125A, A127A

3	Hinges	CB179 4 1/2 X 4 1/2 NRP	640	ST
1	Lockset	9K3-7IN14D SC	613	BE
1	Core	23-020	613	SC
1	Door Closer	QDC115	690	ST
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
3	Door Silencers	1229A	GREY	TR

Alternate bid – substitute/add the following:

1	Shelter Electronic Lock	9KX3-7R14D SC	613	BE
1	Core	23-020	613	SC

Coordinate electronic Best Shelter lock with the Shelter system.

**SET #2B - Shelter Protected**

Doors: A102A, A102B

1	Mortise Cylinder	20-061	613	SC
1	Mortise TT Cylinder	1EA-74	613	BE

Balance of hardware by Aluminum Storefront Supplier. Coordinate electronic Best Shelter lock with the Shelter system.

Alternate bid – substitute/add the following:

1	Electric Strike	1006	613	HE
1	Transformer	24VDC		HE

Coordinate electronic Best Shelter lock with the Shelter system.

**SET #3 - Office**

Doors: A103A, A106B, A114A, A130B, A132A

3	Hinges	CB179 4 1/2 X 4 1/2	640	ST
1	Lockset	9K3-7R14D SC	613	BE
1	Core	23-020	613	SC
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
3	Door Silencers	1229A	GREY	TR

**SET #4 - Storage**

Door: A105A

3	Hinges	CB179 4 1/2 X 4 1/2	640	ST
1	Lockset	9K3-7R14D SC	613	BE
1	Core	23-020	613	SC
1	Floor Stop	1215CKU	613	TR
1	Perimeter Gasket	5050 B		NA

**SET #5 - Existing Exterior Single**

Door: A107A

1	Exit Device	2103 CD SNB	626W	PR
1	Rim Cylinder	20-057	626	SC
1	Mortise Cylinder	20-061	626	SC
1	Door Pull	1191-4 Type N Mounting	630	TR
1	Door Closer	QDC115	689	ST
1	Kick Plate	K0050 10" x 2" LDW B4E CS	630	TR
1	Door Stop	1209HA	630	TR
1	Perimeter Gasket	5075 B		NA
1	Perimeter Gasket	5040 B		NA
1	Door Sweep	200 NA SMS-TEKS		NA
1	Saddle Threshold	426 MS/EA SIA		NA
*1	Door Position Switch	MC4		DM

Modify door to accept new hardware as specified. Mount floor stop out of foot traffic. Verify threshold application.

Alternate bid – substitute/add the following:

*1	Power Transfer	EPT-2		PR
*1	Exit Device	C MLR TS 2103 SNB	630	PR
*1	Wire Harness	WH-192P		ST
*1	Power Supply	RPSMLR2		PR

Reuse existing hinges. Operation: Card activation (if applicable) momentarily retracts latches and allows entry. Card reader by security access. Coordinate electronics to function as part of the Best Shelter security lockdown system per 1.05-A-6.

**SET #6 - Storage/Office**

Doors: A109A, A111A, A133A

3	Hinges	CB179 4 1/2 X 4 1/2 NRP	640	ST
1	Lockset	9K3-7R14D SC	613	BE
1	Core	23-020	613	SC
1	Wall Stop	1270CVSV	613	TR
1	Perimeter Gasket	5050 B		NA

**SET #7 - Storage**

Door: A104A

3	Hinges	CB179 4 1/2 X 4 1/2	640	ST
1	Lockset	9K3-7R14D SC	613	BE
1	Core	23-020	613	SC
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
1	Perimeter Gasket	5050 B		NA

**SET #8 - Restroom**

Door: A115A

3	Hinges	CB168 4 1/2 X 4 1/2 NRP	640	ST
1	Pull Plate	1018-3	613	TR
1	Push Plate	1001-3	613	TR
1	Closer/Stop	QDC119	690	ST
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Perimeter Gasket	5050 B		NA

**SET #9 - Restroom**

Doors: A116A, A121A, A123A

3	Hinges	CB168 4 1/2 X 4 1/2	640	ST
1	Pull Plate	1018-3	613	TR
1	Push Plate	1001-3	613	TR
1	Door Closer	QDC115	690	ST
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Mop Plate	KM050 6" x 1" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
1	Perimeter Gasket	5050 B		NA



**SET #10 - Shelter Protected**

Door: A117A

3	Hinges	CB179 4 1/2 X 4 1/2 NRP	640	ST
1	Lockset	9K3-7R14D SC	613	BE
1	Core	23-020	613	SC
1	Door Closer	QDC115	690	ST
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
1	Perimeter Gasket	5050 B		NA

Alternate bid – substitute/add the following:

1	Shelter Electronic Lock	9KX3-7R14D SC	613	BE
1	Core	23-020	613	SC
Coordinate electronic Best Shelter lock with the Shelter system.				

**SET #11 – Cross Corridor**

Doors: A120A, A128A

3	Rim Cylinders	20-057	613	SC
2	Mortise Cylinders	20-061	613	SC
Balance of hardware by Door and Frame Supplier.				

**SET #12 - Janitor**

Door: A122A

3	Hinges	CB179 4 1/2 X 4 1/2	640	ST
1	Lockset	9K3-7D14D SC	613	BE
1	Core	23-020	613	SC
1	Kick Plate	K0050 10" x 2" LDW B4E CS	613	TR
1	Wall Stop	1270CVSV	613	TR
1	Perimeter Gasket	5050 B		NA

**SET #13 - Storage**

Door: A126A

3	Hinges	CB179 4 1/2 X 4 1/2 NRP	640	ST
1	Lockset	9K3-7D14D SC	613	BE
1	Core	23-020	613	SC
1	Wall Stop	1270CVSV	613	TR
3	Door Silencers	1229A	GREY	TR

**SET #14 - Existing Exterior Pair**

Door: A128B

2	Continuous Hinges	661HD	628	ST
1	Removable Mullion	KR822	689	PR
1	Exit Device	2403 S458 CD SNB	626W	PR
1	Exit Device	2401 S458 CD SNB	626W	PR
2	Rim Cylinders	20-057	626	SC
2	Door Pulls	1191-4 Type N Mounting	626	TR
2	Door Closer/Drop Plates	QDC115 x 8Q00471	689	ST
2	Spacer Blocks	P45HD-110	689	ST
2	Angle Brackets	P45HD-112	689	ST
2	Door Stops	1209HA	630	TR
1	Mullion Seal	5100N		NA
2	Door Sweeps	200 NA SMS-TEKS		NA
1	Saddle Threshold	426 MS/EA SIA		NA
*2	Door Position Switches	MC4		DM

Note: This hardware set to be used as a design guideline. Replace only existing items that are defective or in need of repair.

Alternate bid – substitute/add the following:

2	Continuous Hinges	661HD EPT	313AN	ST
*2	Power Transfers	EPT-12C		PR
*1	Exit Device	C MLR TS 2403 S458 SNB	613	PR
*1	Exit Device	C MLR TS 2401 S458 SNB	613	PR
*2	Wire Harnesses	WH-6E		ST
*2	Wire Harnesses	WH-12		ST
*2	Wire Harnesses	WH-192		ST
*1	Power Supply	RPSMLR2		PR

Modify existing doors and frame to accept specified hardware. Reuse perimeter gaskets. Mount floor stops out of foot traffic. Operation: Card activation (if applicable) momentarily retracts latches and allows entry. Card reader by security access. Coordinate electronics to function as part of the Best Shelter security lockdown system per 1.05-A-6. Verify threshold application.

**SET #15 – Cross Corridor**

Door: A138B

2	Rim Cylinders	20-057	613	SC
2	Mortise Cylinders	20-061	613	SC

Balance of hardware by Door and Frame Supplier.

**SET #16 - Meeting Room - Protected**

Doors: A135A, A135B

3	Rim Cylinders	20-057	613	SC
2	Mortise Cylinders	20-061	613	SC

Balance of hardware by Door and Frame Supplier.

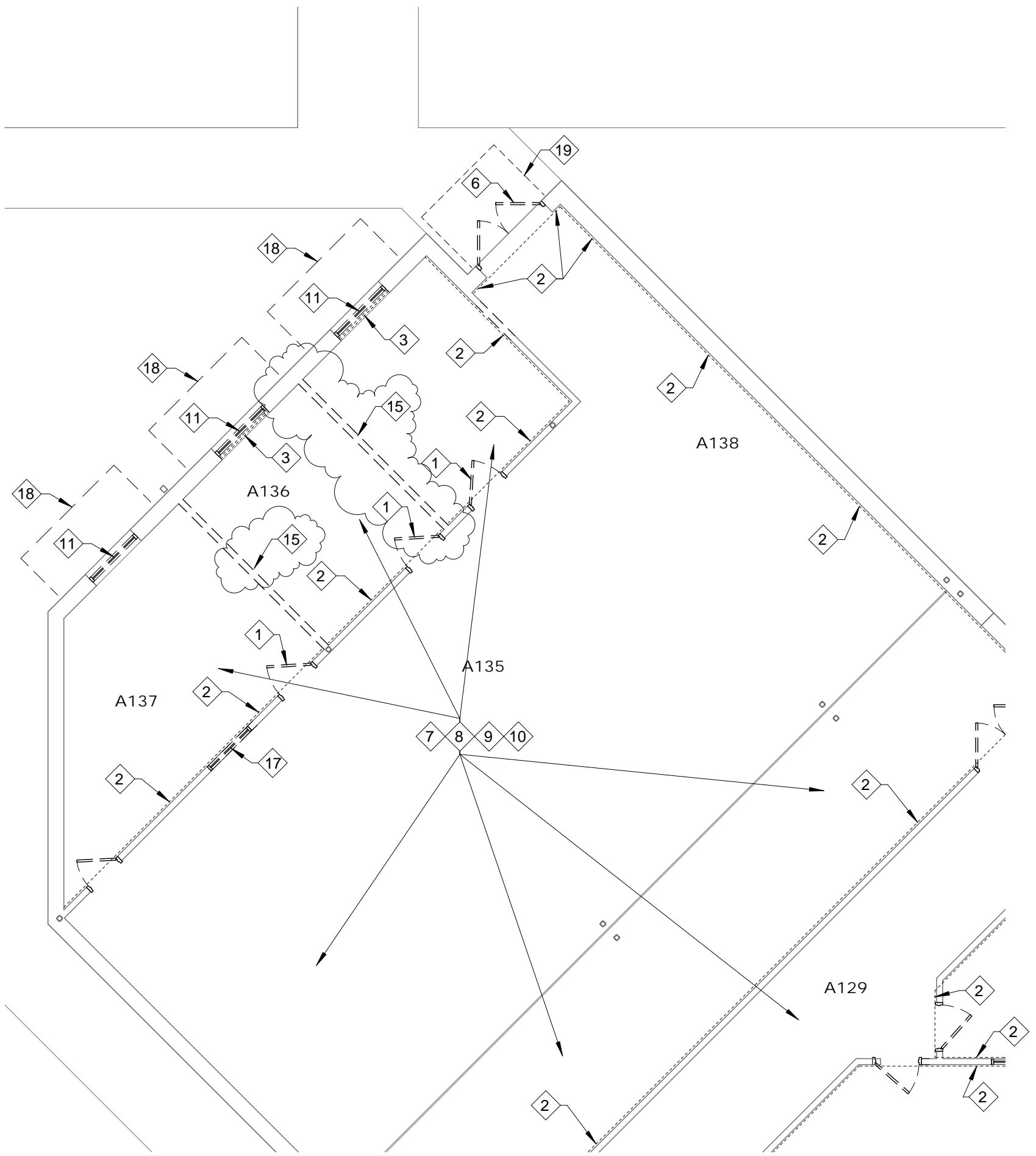
Alternate bid – substitute/add the following:

*2	Electric Hinges	CECB168-12C 4 1/2 x 4 1/2	640	ST
*2	Exit Devices	E2103 X 4908D SNB	613	PR
*2	Wire Harnesses	WH-6E		ST
*2	Wire Harnesses	WH-12		ST
*2	Wire Harnesses	WH-192		ST
*1	Power Supply	RPSMLR2		PR

Operation: Electronic trim locks on signal from the Best Shelter lockdown system.  
Coordinate per 1.05-A-6.

\* Requires electronic coordination.

End of Section



1

## DEMOLITION PLAN

REVISED FROM SHEET A101

1/8" = 1'-0"



**LWA**

ARCHITECTS

American Bank Plaza  
711 N. Carancahua, Suite 404  
Corpus Christi, Texas 78401

Phone: 361.884.7442  
Fax: 361.883.1612

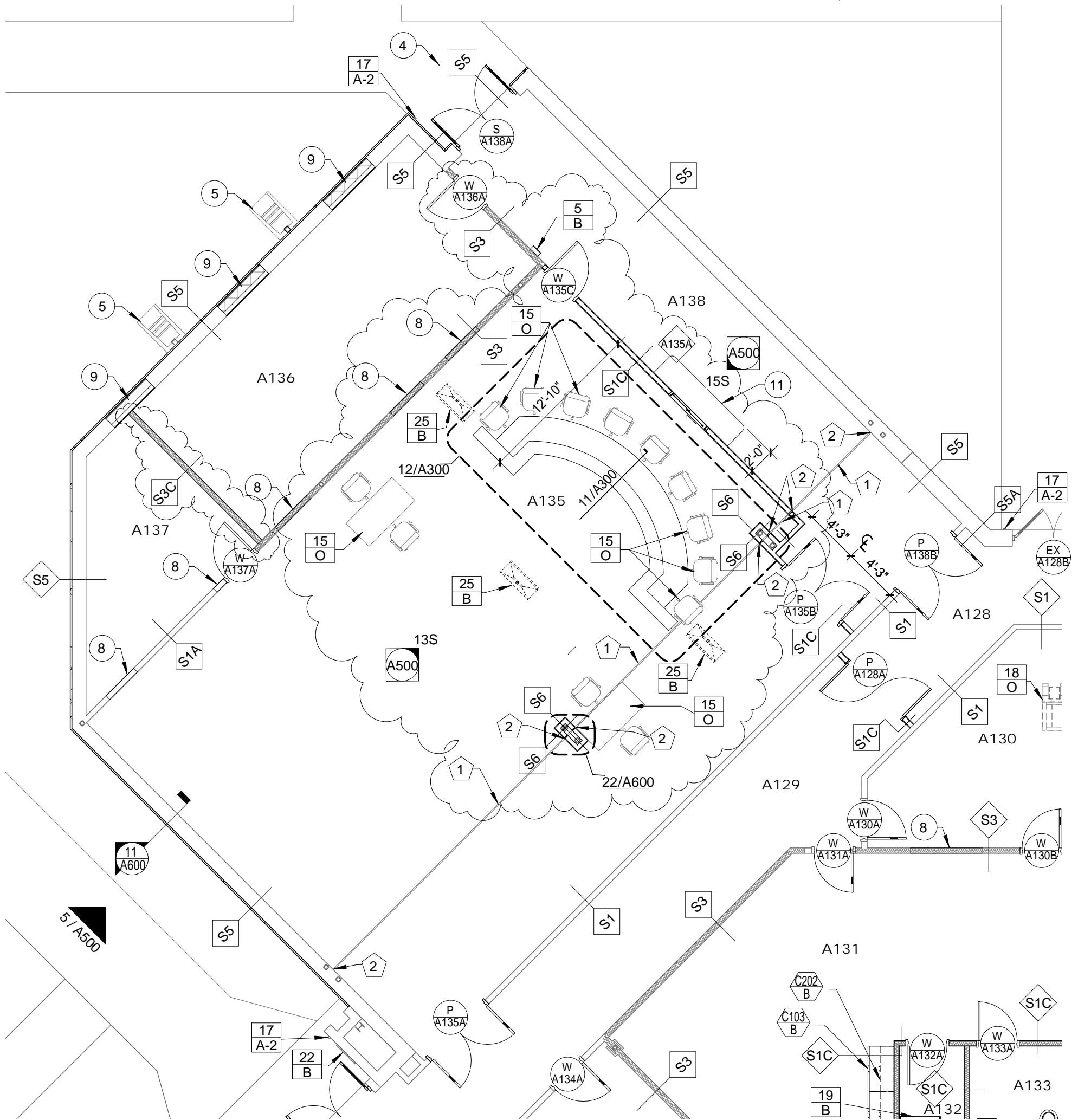
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## RENOVATIONS AT ADMINISTRATION BUILDING SANTA ROSA INDEPENDENT SCHOOL DISTRICT SANTA ROSA, TEXAS

DATE: 08/17/2018

JOB NO: 1706

SHT. NO. AD3-1

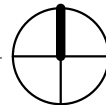


1

## FLOOR / FIXTURE PLAN

REVISED FROM SHEET A200

1/8" = 1'-0"

TRUE  
NORTH
**LWA**
**ARCHITECTS**

American Bank Plaza  
711 N. Carancahua, Suite 404  
Corpus Christi, Texas 78401

Phone: 361.884.7442  
Fax: 361.883.1612

www.lwarchitects.com

# **RENOVATIONS AT ADMINISTRATION BUILDING** **SANTA ROSA INDEPENDENT SCHOOL DISTRICT** **SANTA ROSA, TEXAS**

DATE: 08/17/2018

JOB NO: 1706

SHT. NO. AD3-2

## Addendum

**DATE**

August 16, 2018

**ADDENDUM NO.**

3

**PROJECT**

189005.000 | Santa Rosa ISD – Administration Building - Renovation

The work described herein shall be added to the scope of work defined by the contract documents or it shall modify the scope of work defined by the contract documents as described. This work shall become a part of the contract documents by addendum.

**DRAWINGS****Item 01      Sheet M201 – Level 1 Mechanical Plan**

- A.      Shift supply air device in Record A137 to center of room on ceiling grid. Coordinate location with light fixtures.

**Item 02      Sheet EL201 – Level 1 Lighting Plan**

- A.      Revise lighting layout and control device location in rooms #A136 Executive Session and #A137 Records as shown in attached drawing.

**Item 03      Sheet EP201 – Level 1 Power Plan**

- A.      Revise receptacle layout in rooms #A135 Boardroom, #A136 Executive Session and #A137 Records as shown in attached drawing.

**Item 04      Sheet ETS201 – Level 1 Technology Plan**

- A.      Revise data/telephone device layout in rooms #A135 Boardroom, #A136 Executive Session and #A137 Records as shown in attached drawing.

END OF ADDENDUM

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**1 LEVEL 1 LIGHTING PLAN**  
EL201 1/8" = 1'-0"

**GENERAL LIGHTING NOTES**

- A REFER TO E501 FOR LIGHT FIXTURE SCHEDULE.
- B REFER TO SHEET E601 FOR LIGHTING CONTROL WIRING DIAGRAMS, LIGHTING CONTROL DEVICE LEGEND AND LIGHTING CONTROL MATRIX.
- C ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.
- D MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED TOGETHER UNDER A COMMON COVER PLATE.
- E PROVIDE UNSWITCHED CIRCUIT TO ALL EXIT SIGNS.
- F CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT CONTROLLED BY EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.
- G SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED LIGHTING FIXTURES.
- H FIXTURES DESIGNATED "NL" SHALL BE UNSWITCHED NIGHTLIGHT.
- I PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12

**ELECTRICAL KEYNOTE LEGEND**

- | No. | Note  |
|-----|---|
| 1   | TYPE 'G' FIXTURES SHALL BE MOUNTED ON TOP OF ARCHITECTURAL COVE FACING UP. COORDINATE EXACT LOCATION WITH ARCHITECT IN FIELD. |

**RENOVATIONS AT ADMINISTRATION BUILDING  
SANTA ROSA INDEPENDENT SCHOOL DISTRICT  
SANTA ROSA, TEXAS**

**LWA**  
ARCHITECTS

American Bank Plaza  
711 N. Garcaulus, Suite 404  
Corpus Christi, Texas 78401  
Phone: 361.884.7442  
Fax: 361.883.1612  
www.lwarchitects.com

STATE OF TEXAS  
JEFFREY D. TABB  
87912  
07/09/2018

KEYPLAN
DATE: 08/14/2018 DWG BY: Author CKD BY: Checker JOB NO: 1706 REVISION: SHEET NUMBER
EL201 LEVEL 1 LIGHTING PLAN
SET NO.

**DBR**

400 Mann Street, Suite 602  
Corpus Christi, TX 78401  
361.888.5797 p  
TBPE Firm Registration No. 2234

DBR Project Number 189005.000

JT MG JB TL --



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**1 LEVEL 1 POWER PLAN**  
EP201  
1/8" = 1'-0"

**GENERAL ELECTRICAL NOTES**

- A ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT.
- B CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- C ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TELEPHONE, DATA, CATV, SECURITY, AND CAMERA OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- D ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- E HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
- F ALL RECEPTACLES MOUNTED ABOVE COUNTERS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.
- G PROVIDE A DEDICATED HOT, NEUTRAL, AND GROUND FOR ALL COPY MACHINES.
- H CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2011 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- I CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- J ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- K CONTRACTOR SHALL ARRANGE PANELBOARDS IN ELECTRICAL ROOM TO PROVIDE CLEARANCE PER NEC 110.26.
- L MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.
- M VAVS WITH DAMPER ONLY SHALL BE CONNECTED BY MECHANICAL CONTRACTOR.
- N REFER TO RESPECTIVE SIDE OF THE BOUNDARY MATCHLINE FOR THE APPROPRIATE FLOOR PLAN KEYED NOTES.
- O PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.
- P ALL MOTORIZED DAMPERS SHALL BE CONNECTED TO CIRCUIT XX-XX
- Q ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.
- R ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.

**ELECTRICAL KEYNOTE LEGEND**

No.	Note
1	208V, 30A/2P, NEMA 1, N.F. DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING.
2	PROVIDE 120V, MOTOR RATED TOGGLE SWITCH AND CIRCUIT FOR CIRC PUMP. EXTEND CIRCUIT TO TIME SWITCH AND CONNECT AS REQUIRED. COORDINATE EXACT LOCATION OF EQUIPMENT AND REQUIREMENTS WITH PLUMBING.
3	MOUNT RECEPTACLES IN CAVITY OF WATER COOLER. PROVIDE REMOTE GFI RESET BUTTON. SEE DETAIL 8/E401.
4	PROVIDE GROUND BUS BAR. SEE DETAIL 5/E401.
5	DEVICES MOUNTED IN RECESSED CEILING BOX. PROVIDE CHIEF #CMS491 RECESSED BOX (OR EQUAL). COORDINATE EXACT LOCATION WITH OWNER IN FIELD.
6	PROVIDE FLUSH MOUNTED FLOOR BOX. WIREMOLD EVOLUTION SERIES EFB6 (OR EQUAL). PROVIDE TWO DUPLEX RECEPTACLES AND PROVISIONS FOR DATA OUTLETS. PROVIDE 3/4" UNDER SLAB TO NEAREST WALL, UP WALL TO PANEL AND CIRCUIT INDICATED. PROVIDE ONE 2" CONDUIT UNDER SLAB TO NEAREST WALL, UP WALL TO ACCESSIBLE LOCATION ABOVE CEILING FOR DATA CABLING. TRENCH AND REPAIR EXISTING CONCRETE FLOOR AS REQUIRED AND PER ARCHITECT'S SPECIFICATIONS.
7	DEVICES MOUNTED IN MILLWORK DESK. COORDINATE EXACT LOCATION AND MOUNTING WITH ARCHITECT IN FIELD. COORDINATE CONDUIT ROUTING WITH ARCHITECT IN FIELD.
8	PROVIDE 4"x4"x3/4" PLYWOOD TELEPHONE BOARD.
9	INDOOR UNIT SHALL RECEIVE POWER FROM OUTDOOR UNIT. PROVIDE 3/4" BETWEEN UNITS FOR CONTROL CONDUCTORS. SEE ROOF PLAN FOR OUTDOOR UNIT.
10	FLUSH MOUNTED J-BOX FOR CARD READER. PROVIDE 3/4" TO ACCESSIBLE LOCATION ABOVE CEILING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
11	PROVIDE 120V POWER TO DOOR HARDWARE AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FURNISHED EQUIPMENT.
12	FLUSH MOUNTED J-BOX IN WALL BELOW COUNTER. PROVIDE ONE EMPTY 1" CONDUIT WITH PULLSTRING FROM J-BOX TO CEILING MOUNTED TV IN BOARD ROOM.



ARCHITECTS

American Bank Plaza  
711 N. Garza Street, Suite 404  
Corpus Christi, Texas 78401

Phone: 361.884.7442  
Fax: 361.883.1612

www.lwaarchitects.com



**RENOVATIONS AT ADMINISTRATION BUILDING**  
**SANTA ROSA INDEPENDENT SCHOOL DISTRICT**  
**SANTA ROSA, TEXAS**

KEYPLAN

DATE: 08/14/2018  
DWG BY: Author  
CKD BY: Checker  
JOB NO: 1706

REVISION:  
SHEET NUMBER

**EP201**  
LEVEL 1 POWER  
PLAN

SET NO.



400 Mann Street, Suite 602  
Corpus Christi, TX 78401  
361.888.5797 p  
TBPE Firm Registration No. 2234

DBR Project Number		189005.000		
JT	MG	JB	TL	--

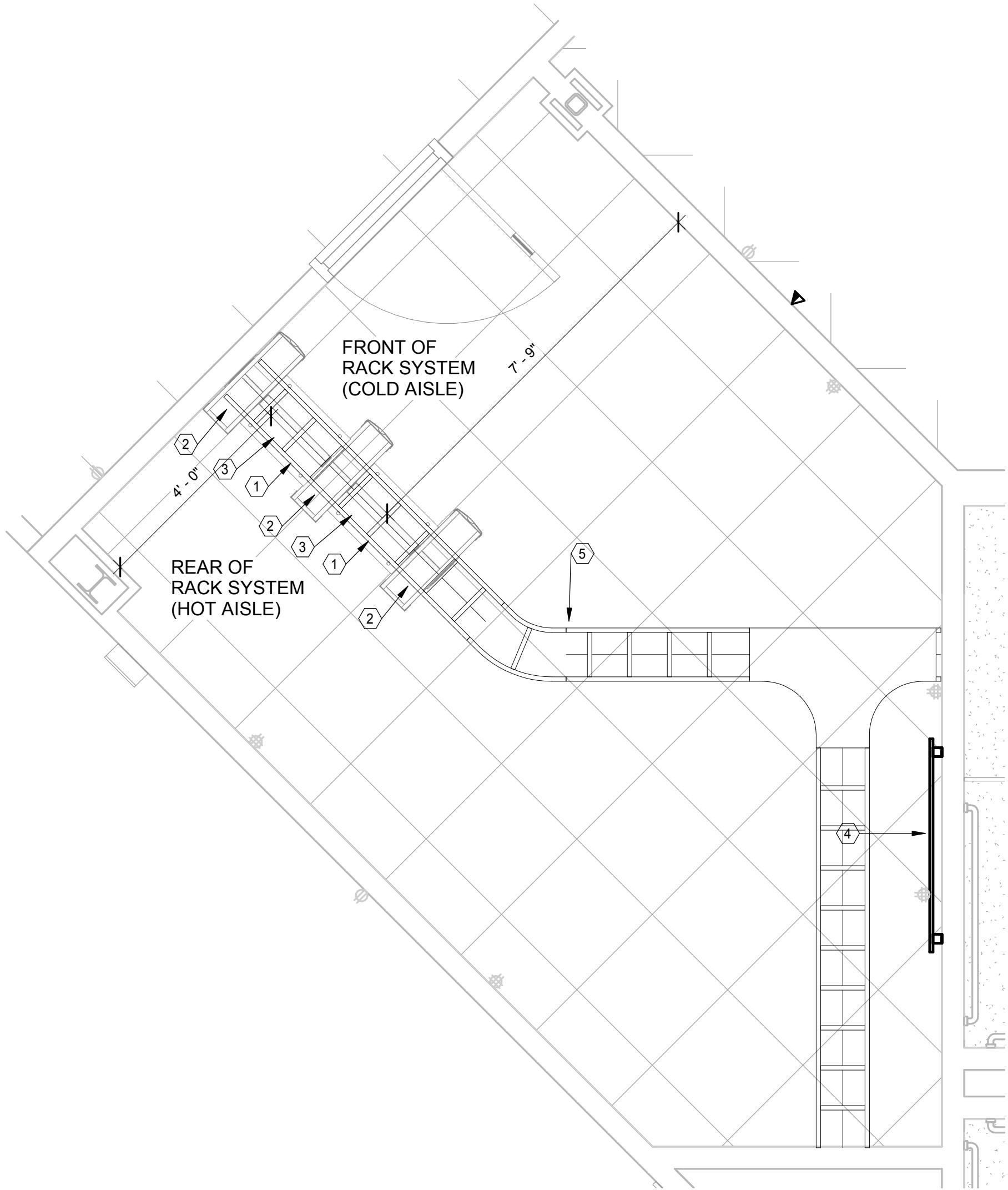
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ENLARGED PLAN GENERAL NOTES

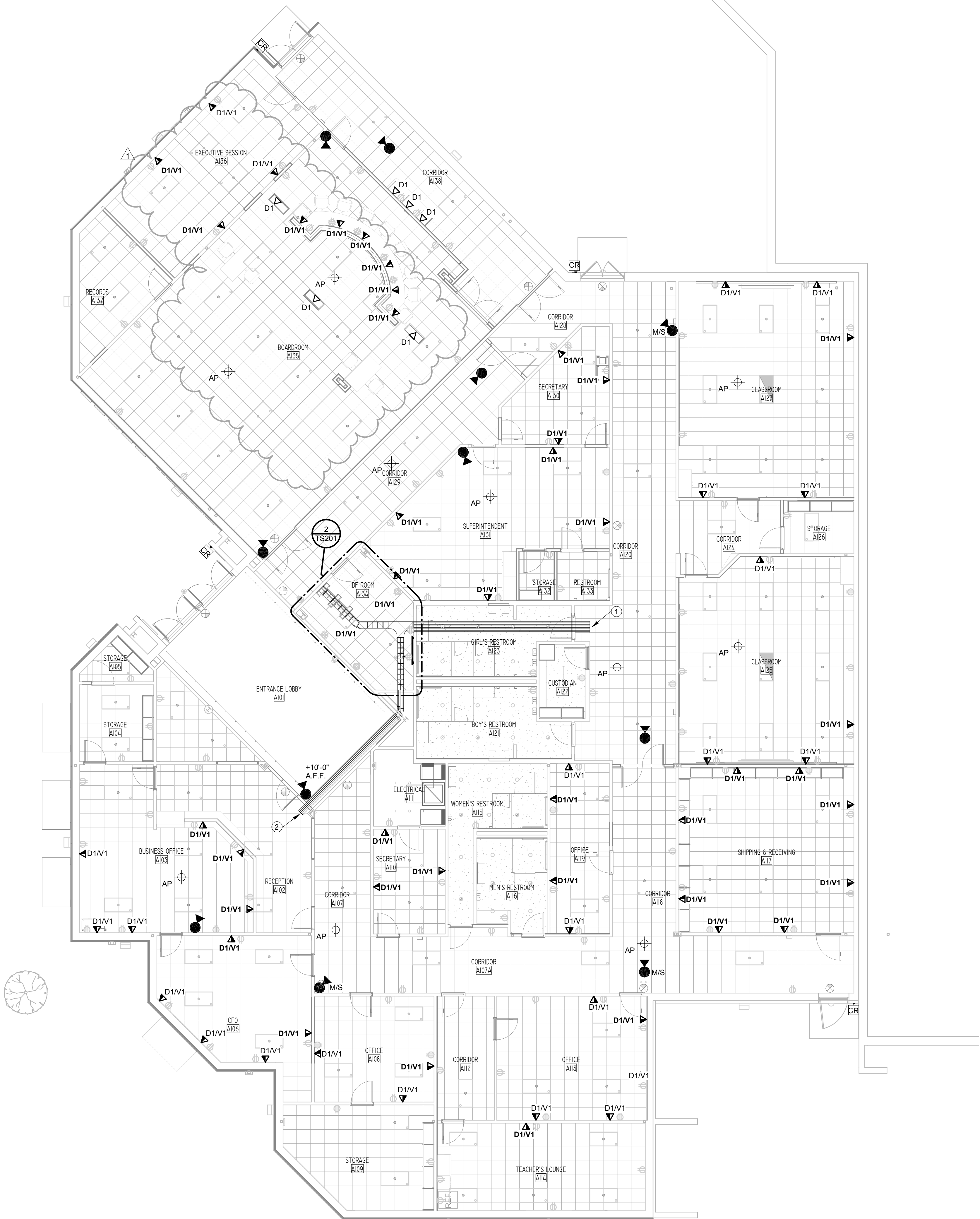
- A. ALL RACK LOCATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- B. PATCH PANEL QUANTITY SHALL BE DETERMINED BY STATION CABLE DROP COUNTS SHOWN ON TS PLANS AND THE ASSOCIATED PROJECT MATRIX. ENSURE PATCH PANEL QUANTITY IS SUFFICIENT TO SUPPORT THE NUMBER OF PORTS REQUIRED BY TS PLANS PLUS AN ADDITIONAL 25% FOR FUTURE GROWTH.
- C. CONTRACTOR SHALL NOT MOUNT EXCEED MORE THAN A 50% RACK FILL RATIO ON ANY RACK.
- D. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS
- E. ALL RACKS, LADDER TRAYS, LIGHTNING PROTECTION ENCLOSURES AND ANY OTHER DEVICES, PART OF THE STRUCTURED CABLEING SYSTEM, SHALL BE GROUNDED TO A GROUND BUS BAR LOCATED IN THE TELECOMMUNICATIONS ROOM WITH A #6AWG GROUND CABLE. DAISY CHAINING WILL NOT BE ACCEPTED. ALL ITEMS SHALL HAVE A DEDICATED GROUND CABLE TO BUS BAR. GROUND CABLE SHALL BE GREEN IN COLOR.

ENLARGED PLAN KEYED NOTES

- 1. PROVIDE AND INSTALL (1) 2-POST, FLOOR MOUNTED RELAY RACK.
- 2. PROVIDE AND INSTALL (1) 7'X6" FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER AT THIS LOCATION.
- 3. PROVIDE AND INSTALL RACK-TO-RUNWAY MOUNTING PLATE FOR ALL LOCATIONS WHEN ASSOCIATED WITH A 2-POST OR 4-POST RACK. RACK SHALL BE BLACK IN COLOR. PROVIDE (1) 6" LADDER TRAY ELEVATION KIT AT EACH RACK-TO-RUNWAY MOUNTING PLATE LOCATION.
- 4. PLYWOOD BACK BOARD.
- 5. PROVIDE OVERHEAD CABLE TRAY.



2 IDF ROOM A134 ENLARGED PLANS  
1/2" = 1'-0"



1 LEVEL 1 TECHNOLOGY PLAN  
1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

- A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.
- B. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. REFER TO TECHNICAL SYSTEMS OVERALL PLANS FOR EXTERIOR CAMERAS AND ADDITIONAL INFORMATION.
- D. REFER TO TECHNOLOGY NOTES AND LEGEND, TECHNICAL SYSTEMS DETAILS, TECHNICAL SYSTEMS SCHEDULES AND SPECIFICATIONS FOR EXTERIOR CAMERAS AND ADDITIONAL INFORMATION.
- E. EACH CEILING DSAP TECHNOLOGY OUTLET, LOCATED IN CLASSROOMS, LABS, AND GROUP INSTRUCTIONAL SPACES, ARE DESIGNATED AS FOLLOWS:
  - WIRELESS ACCESS POINT (1 CATEGORY CABLE)
  - IP INTERCOM SPEAKER (1 CATEGORY CABLE WHITE IN COLOR)
  - CEILING MOUNT PROJECTOR (1 CATEGORY CABLE)
  - MEDIA GATEWAY (1 CATEGORY CABLE)
- F. ALL EXISTING SYSTEMS SHALL BE FULLY TESTED FOR FUNCTIONALITY PRIOR TO THE COMMENCEMENT OF DEMOLITION. THE FUNCTIONALITY OF ALL DEVICES SHALL BE DOCUMENTED AND REPORTED PRIOR TO REMOVAL. ITEMS NOT FUNCTIONING, AND WERE NOT REPORTED TO NON-FUNCTIONAL, NOT PROPERLY FUNCTIONING SHALL BE REPLACED AT NO COST TO THE OWNER OR THE PROJECT. REPAIR AND/OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- G. ALL EXISTING CEILING MOUNTED DEVICES SHALL BE REMOVED DURING CONSTRUCTION, ALLOWING FOR COMPLETE REMOVAL OF THE EXISTING CEILING. CONTRACTOR TO DOCUMENT DEVICE LOCATION AND INSTALL EACH DEVICE AT THE LOCATION IT WAS REMOVED FROM. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY IN MAINTAINING THE INTEGRITY OF ALL EXISTING SYSTEM CABLE THAT IS TO REMAIN.
- H. ALL EXISTING DEVICES, THAT ARE TO BE REMOVED AND REINSTALLED, SHALL BE REINSTALLED IN THE EXISTING LOCATION. UNLESS THE EXISTING AREA IS BEING COMPLETELY RENOVATED, REFERENCE FLOOR PLAN OF THE RENOVATED AREAS FOR NEW DEVICE LOCATION.
- I. CONTRACTOR SHALL PROVIDE A ONE (1) YEAR PARTS AND LABOR WARRANTY ON ALL NEW DEVICES AND EXISTING DEVICES BEING REUSED.
- J. ALL EXISTING EXTERIOR VIDEO SURVEILLANCE CAMERAS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND TAKE ALL MEASURES REQUIRED TO MAINTAIN THE INTEGRITY AND FUNCTIONALITY OF ALL CAMERAS, CABLE, AND ASSOCIATED HARDWARE.
- K. ALL EXISTING ACCESS CONTROL, VIDEO SURVEILLANCE, AND INTRUSION DETECTION DEVICES TO BE INSTALLED IN THE SAME, ORIGINAL LOCATIONS. RECONNECT TO SYSTEM AND RE-CERTIFIED FOR PROPER FUNCTIONALITY.
- L. REFERENCE TECHNOLOGY DEMOLITION PLANS FOR LOCATIONS OF EXISTING CAMERAS, CARD READERS, LOCAL SOUND SYSTEMS, INTRUSION DETECTION DEVICES, WIRELESS ACCESS POINTS, WALL MOUNTED TELEPHONES, AND CEILING MOUNTED PROJECTORS THAT ARE TO REMAIN, BE RELOCATED, OR BE REMOVED IN THEIR ENTIRETY.

TECHNOLOGY KEYED NOTES

- 1. PROVIDE FOUR (4) 4" CONDUITS FROM IDF TO CEILING PLENUM. CONDUITS WILL SERVE AS DISTRIBUTION PATHWAYS FOR STRUCTURE CABLEING SYSTEM.
- 2. PROVIDE TWO (2) 4" CONDUITS FROM IDF TO CEILING PLENUM. CONDUITS WILL SERVE AS DISTRIBUTION PATHWAYS FOR STRUCTURE CABLEING SYSTEM.

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TECHNOLOGY &  
SECURITY PLAN  
SET NO.

**DBR**  
400 Mann Street, Suite 602  
Corpus Christi, TX 78401  
361.888.5797 p  
TBPE Firm Registration No. 2234  
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JT MG JB TL --