All panel programming has been checked and is correct. Door Contacts shall be GE Model # 1076D-M Double Pole Double Throw (To be utilized for Access Control and Security Alarm) (See security alarm specs) Panel(s) has been tested for proper operation DOOR LOCK RELEASE BUTTON SHALL BE (NO SUBSTITUTIONS) All zones have been tested to verify proper description at keypad RCI PART # 909S ROCKER SWITCH All zones have been tested to verify proper reporting to the monitoring station. Power Supply for locking hardware **Power supply in Keyscan Controller is for the Control and Readers only. All zones have been tested to verify they are in their proper partition(s). Power Supplies shall be sized to meet requirements of Strikes and locks with a maximum of 80% amp load. All sirens and strobes have been tested for proper operation. Power Supply shall have form "C" contacts for supervision that is connected to Keyscan Control Aux Input. 24 VDC Securitron- AccuPower- AQM20-8C/16C, AQD5-8C or equal. All motion detectors have been adjusted for proper sensitivity and have been walk tested. 2.01 Systems Installation All motion detectors have been sealed to prevent air and insects from entering. All junctions and or splices shall be soldered and insulated All glass break detectors have been adjusted for proper sensitivity and tested. All circuits and wiring shall be labeled at all terminating ends. All cabinets are labeled on the outside with module numbers and zone numbers. All devices shall be mounted in accordance to the manufactures specifications. All cabinets are labeled on the inside with module numbers by the corresponding module and zone descriptions. All devices shall be properly adjusted and tested prior to job completion. All user codes have been programmed and tested for proper partition access. All controllers shall be labeled outside with their corresponding modules and installed with lock. The monitoring station has the correct account information such as call list, zone descriptions etc. All controllers shall have a Cat 6 network cable Blue in color ran from the nearest network cabinet and labeled with drop number. 1.09 References All card readers shall be labeled with their corresponding reader number. NFPA-70 National Electrical Code 2008 edition All doors with access control shall have contacts installed for door status indication. Steel doors shall have wide NFPA-72 National Fire Alarm Code gap door contacts installed. All doors with access control shall have egress motions installed to allow system to detect proper egress. UL 1666 - Standard for Safety of Flame Propagation Height (including doors with panic exit hardware.) NFPA 262 - Flame Travel and Smoke of Wires and Cables Protective grommets shall be installed on all conduits to protect wire. Local Authority Having Jurisdiction All panels, power supplies and modules shall be grounded. 1.10 Definitions All wire shall be run in J hooks above ceiling with a minimum space of 6" from ceiling deck. All wire shall be in AWG - American Wire Gauge separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck. BICSI - Building Industry Consulting Service International All wire visible from the finished floor shall be covered in decorative wire molding. EIA - Electronics Industry Alliance All wire ran between building shall be in conduit and shall be direct burial cable. FCC - Federal Communications Commission Installer shall have a licensed Access Control technician on the job site at all times during installation. NECA - National Electrical Contractors Association Installer will work closely with the electrical and or masonry contractors to ensure conduit, back boxes, door frame NFPA - National Fire Protection Agency access conduit, etc. are in the proper locations and accessible. Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008. UL - Underwriters Laboratory Follow and adhere to installation practices specified by the Manufacturers **Access Control System** Specifications 3.01 Bidder/Installer Qualifications **Access Control Equipment** Bidding contractor shall be a local licensed Access Control Company with licensed Access Control technician(s) Part 1 - Manufacture Bidding contractor shall have at least one year experience installing Keyscan Access Control Systems. Access Control Manufacturer shall be Keyscan. (No Substitutions) Bidding contractor shall have a minimum of 5 years experience installing commercial Access Control Systems. Peripheral device Manufacturers shall be according to equipment list. (No Substitutions) Bidding contractor shall be able to provide insurance at the request of the owner. Cable Manufacturer shall be Genesis. (Or Equivalent) Bidding contractor shall have a commercial Access Control technician on the job site at all times during 1.01 Access Control Equipment Description 3.01.1 Submittals Access Control System Manufacture shall be Keyscan (No Substitutions) Access Control Management Software = Aurora (This software is already installed and in use. It is listed for information purposes only) 3.01.2 Prior to installation Reader Control Panels shall be (No Substitutions) Show compete map of system design for approval by Owner. Kevscan CA 4500 = 4 Door Keyscan CA 8500 = 8 Door 3.01.3 Prior to final acceptance Each Reader Control Panel shall be equipped with (2) 16VAC 40VA Transformer Each Reader Control Panel shall be equipped with (1) 12V 7AH Battery Provide a soft CAD copy As-Built showing layout of Controller Panel, Card Readers, Power Supplies and all One 2.4 or 8 Door Reader Control Panel per site shall be equipped with (1) Keyscan Netcom2p module. If the site mounted equipment upon Substantial Completion. has an existing 2.4 or 8 Door Control Panel with a Netcom2P already installed, then a Netcom 2P is not needed and CIM or CIM-Link modules shall be used to connect the new Control Panel to the existing Control Panel. Ensure all warranties specify that the Owner is entitled to all rights guaranteed by the warranty for various All Reader Control Panels shall be linked together with either CIM or CIM-Link modules. Each new Reader Control Panel shall be capable of 4 doors minimum Card Readers shall be (No Substitutions) MOORE PUBLIC SCHOOLS 3.02 Quality Assurance HID 40NKS0000000 Signo Wall Mount reader (for use in all locations except where mullion mount reader size is 3.02.1 Qualifications required to fit) Install all components as directed by Manufacturer's installation guidelines. HID 20NKS00000000 Signo 20 Mullion Reader (For use on mullion mount locations where single gang reader is too All products shall bear the mark of UL or ETL for performance level. ALL READERS REQUIRE 22/6 STR OAS WIRE. System installation shall meet all applicable Local/State codes and safety requirements where project is located. Access Control Strikes and locks shall be (No Substitutions unless approved by Moore Public Schools) All products shall be new and un-used in original packaging. RCI 0163X32D ½ inch Rim(ONLY USE IF $\frac{3}{4}$ INCH RIM WILL NOT FIT) RCI 0162X32D ¾ inch Rim Access Control Installation RCI F0162X32D ¾ inch Rim Fire Rated Completion Check List RCI F2164 RECESSED ALL-IN-ONE STRIKE Where storm doors are installed, install compatible power motor and power supply to activate door hardware unless installed by door contractor. 4.01 Section Includes Egress Motions shall be (No Substitutions) BOSCH DS160 OR HONEYWELL IS310 Access Control System Completion Check List LOCKER ROOM 4.02 Completion Check List **ADDITION** A map of the entire system showing device numbers and wire routes has been left inside the main controller panel and a copy has been given to Rodney Cobb with MPS. MOORE WEST All system programming has been checked and is correct. JUNIOR HIGH SCHOOL Panel(s) has been tested for proper operation. All card readers are labeled with reader number and have been tested to verify proper operation. All user card and key fobs have been programmed into system and tested to verify proper operation. All egress motion detectors have been adjusted for proper sensitivity and have been walk tested. All controllers are labeled on the outside with module numbers.



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All controllers are labeled on the inside with module numbers by the corresponding module.

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WDB ENGINEERING

SALAS O'BRIEN MECHANICAL / ELECTRICAL

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