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CITY OF YONKERS/YONKERS PUBLIC SCHOOLS
Purchasing

Mike Spano, Mayor
Tom Collich, Director

TO: PROSPECTIVE BIDDERS NOVEMBER 11, 2021
FROM: TOM COLLICH 2 PAGES
RE: IFB-6711 – NEW CONSTRUCTION OF COMMUNITY SCHOOL 35
ADDENDUM NO. 1

The contents of this addendum alter and amend the original RFB requirements and take precedence over the related items therein. This addendum forms a part of the contract documents. Bidders must acknowledge receipt of all addenda when submitting their bids. Failure to acknowledge receipt may render a bid non-responsive and ineligible for award. Vendors are responsible for ensuring that they receive all addenda. All addenda will be posted on the Empire State Purchasing Group System (<http://www.empirestatebidsystem.com/>).

1. **MODIFY SECTION 001000 TABLE OF CONTENTS** – Add Section 004150 “City of Yonkers Bidders Affidavit” and add Section 280000 “Security Systems General Conditions”
2. **MODIFY SECTION 002000 INSTRUCTIONS TO BIDDERS**
 - a. On Page 4, Item 10, add the following indented item after “Statement of Bidder’s Qualifications (AIA A305) including Exhibits A, B, C, D and E”
 - “City of Yonkers Bidder’s Affidavit”
 - b. On Page 11, add the following to become Item 31:
“31. CITY OF YONKERS BIDDER’S AFFIDAVIT
The bidder is required to include with its bid the "City of Yonkers Bidder’s Affidavit” fully executed and notarized. This form is included in the Bid Documents.”
3. **MODIFY SECTION 004010 - Contract No. 1 – General Construction Work:** On page 4 add the following to become 12.i” - “i. City of Yonkers Bidder’s Affidavit”
4. **MODIFY SECTION 004020 - Contract No. 2 – Plumbing and Fire Protection Work:** On page 3 add the following to become 12.i” - “i. City of Yonkers Bidder’s Affidavit”
5. **MODIFY SECTION 004030 - Contract No. 3 – HVAC Work:** On page 3 add the following to become 12.i” - “i. City of Yonkers Bidder’s Affidavit”
6. **MODIFY SECTION 004040 - Contract No. 4 – Electrical Work:** On page 3 add the following to become 12.i” - “i. City of Yonkers Bidder’s Affidavit”
7. **ADD SECTION 004150 CITY OF YONKERS BIDDER’S AFFIDAVIT** – Form(s) to be signed and included by Contractor(s) with submission of Bid Package.

8. **ADD SECTION 280000 SECURITY SYSTEMS GENERAL CONDITIONS** – To be included as part of the Contract Documents. Work shown in this section shall primarily be the responsibility of the Electrical Prime Contractor (Contract #4). Coordination shall be required between all prime contractors as described in the Contract Documents.
9. **ADD SECURITY DRAWINGS (26 Total Sheets 30x42)** – To be included as part of the Contract Documents – Work shown in the Security Drawings shall primarily be the responsibility of the Electrical Prime Contractor (Contract #4). Coordination shall be required between all prime contractors as described in the Contract Documents. Each prime contractor is responsible for all relevant work as shown and noted on ALL Drawings and Specifications that are part of the Contract Documents.
10. **List of Documents included with Addendum 1.**

004150 CITY OF YONKERS BIDDER’S AFFIDAVIT FORM (4 pages 8.5x11)

280000 SECURITY SYSTEMS GENERAL CONDITIONS (19 pages 8.5x11)

SE SERIES - Security Drawings (26 Drawing Sheets 30x42)

SE-000, SE-100, SE-102, SE-103, SE-104, SE-105, SE-106, SE-107, SE-200, SE-201, SE-202, SE-300, SE-301, SE-302, SE-303, SE-700, SE-701, SE-702A, SE-702B, SE-703, SE-703A, SE-703B, SE-704, SE-705, SE-705A, SE-706

THE OPENING DATE REMAINS FRIDAY, DECEMBER 10, 2021 AT 2:00 PM

IFB-6711 - ADDENDUM NO. 1 – ACKNOWLEDGEMENT

Legal Name of Bidding Firm: _____

Address: _____

Bidder’s Representative: _____ **Title:** _____

E-mail: _____ **Phone:** _____

Signature: _____ **Date:** _____

CITY OF YONKERS BIDDER'S AFFIDAVIT

Bid No.: **IFB-6711**

Project: **COMMUNITY SCHOOL 35**

By submission of this Bid and the execution of the Bidder's Affidavit, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies on behalf of its own organization, under penalty of perjury, that to the best of his/her knowledge and belief:

- A. Fair and Ethical Business Practices will be strictly adhered to during the life of this Contract. During the term of this Contract, neither the Bidder nor any director, partner, principal, officer or employee shall:
 - 1) File with a government office or employee, a written instrument which intentionally contains a false statement or false information;
 - 2) Intentionally falsify business records;
 - 3) Give, or offer to give, money or any other benefit to a labor official with intent to influence that labor official with respect to any of his or her acts, duties or decisions as a labor official;
 - 4) Give, or offer to give, money or any other benefit to a public servant with intent to influence that public servant with respect to any of his or her acts, duties or decisions as a public servant; and
 - 5) Knowingly participate in the criminal activities of any organized crime group, syndicate or family, nor shall any person employed by or associated with any such organized crime family, syndicate or group participate through criminal means in any of the business affairs of the Bidder.

- B. In addition, if it becomes known that any director, partner, officer, employee of the Bidder, or any shareholder owning 5% or more of the Bidder's stock:
 - 1) is the subject of investigation involving any violation of criminal law or other federal, state or local law or regulation by any governmental agency; or
 - 2) is arrested, indicted or named as an unindicted co-conspirator in any indictment or other accusatory instrument; or
 - 3) is convicted of any felony under state or federal law and/or any misdemeanor involving a business-related crime.

The Bidder shall immediately notify the City of Yonkers of any such event.

AFFIDAVIT WHERE THE BIDDER IS A CORPORATION

STATE OF _____, COUNTY OF _____

as:

_____ being duly sworn,

says:

I am a member of _____,
the above named corporation whose name is subscribed to and which executed the foregoing bid and Bidders Affidavit. I reside at _____
_____.

I have full knowledge of the matters pertaining thereto.

(Signature of the person who signed the Bid)

ACKNOWLEDGEMENT WHERE THE CONTRACTOR IS A CORPORATION

STATE OF _____)
) ss:
COUNTY OF _____)

On the _____ day of _____, in the year 20____, before me personally came _____, to me known, who, being by me duly sworn, did depose and say that he/she resides at _____, that she is the _____ of _____, the corporation described in and which executed the above instrument; and that he/she signed his/her name thereto by order of the Board of Directors of said corporation.

Notary Public

If a Corporation, Bidder must complete both Affidavit and Acknowledgement sections and submit with its bid

AFFIDAVIT WHERE BIDDER IS A PARTNERSHIP

STATE OF _____, COUNTY OF _____
as:

_____ being duly sworn,
says:

I am a member of _____ the above named partnership whose name is subscribed to and which executed the foregoing bid and Bidders Affidavit. I reside at _____ . I have full knowledge of the matters pertaining thereto.

(Signature of the person who signed the Bid)

ACKNOWLEDGEMENT OF CONTRACTOR, IF A PARTNERSHIP

STATE OF _____)
) ss:
COUNTY OF _____)

On the _____ day of _____, in the year 20____, before me personally came _____, to me known and known to me to be a member of the firm _____; described in and who executed the foregoing

SECTION 28 00 00

SECURITY SYSTEMS GENERAL CONDITIONS

1.01 GENERAL

- a. Installation of Electronic Security System to include but not limited to:
 1. Closed Circuit Television (CCTV)
 2. Building Access Control
 3. Gates Access Control
 4. Perimeter Door Alarms
 5. Video Intercom
 6. Burglar alarm
 7. Additional interfaces: Building Lighting, electrified locks and Fire alarm systems

- b. Electronic security related *equipment* such as cameras, card readers, controllers, goosenecks, power supplies, door contacts, motion detectors and others will be furnished to the bidder by the City of Yonkers (COY) / Yonkers Public Schools (YPS) authority and are *not* part of this contract. System commissioning, programming, and testing will be performed by owner's representatives and are not part of this contract. This bidder/ contractor ("contractor", "EC") is to provide all necessary labor, pipe, fasteners, wire and other electrical components needed to INSTALL AND TERMINATE owner's and/or other Prime Contractors provided materials AS WELL AS WORK WITH OWNER's REPRESENTATIVE DURING THE COMMISSIONING PROCESS and to provide the owner with a complete, turnkey system.
 1. All wire, conduit, supporting devices, boxes, connections, stub ups and rough in will be furnished and installed by this bidding Electrical Contractor ("contractor", "EC"). EC shall connect and terminate and punch down the devices to the patch panel/ control panel designated in the SE-xxx Security drawings. EC shall machine label, tag on both ends, and test all connections for proper continuity. EC shall certify network cabling and provide supporting testing reports to the owner to ensure proper wire has been installed, proper installation and cable lengths. EC shall test for ground faults and wire integrity on card access, burglar alarm and door stations wiring prior to turn over to owner.
 2. The EC shall provide firestopping for all penetrations required for work of their contract.
 3. Electronics system's Commissioning shall be done by the Owner's representative. EC shall have a responsible electrician/foreman with knowledge of the project's on-site installation during commissioning to correct any installation faults as instructed by Owner's representative.

4. All burglar alarm device wiring is to be home-run to designated closet wall field device equipment. No cable splicing is allowed for any of the subsystems
- c. Install system as per security drawing's set SE-xxx and follow specific notes regarding intent, means and methods
- d. The general conditions for contracts of construction, referred to in the contract documents as the general conditions, together with the following articles of the specifications, which amend, modify and supplement various articles and provisions of the general conditions, are made part of the Contract and shall apply to all work under the Contract.
- e. All articles or parts of articles of the general conditions not so amended, modified or supplemented by these specifications shall remain in full force and effect. Should any discrepancy become apparent between the general conditions and the specifications the Contractor shall notify Owner/Engineer, in writing and the Owner/Engineer shall interpret and decide such matters in accordance with the provisions of the General Conditions.
- f. The Contractor shall comply with all applicable governmental regulations and with all Federal, State, County, City, and other applicable codes and ordinances.
- g. These specifications call out certain duties of the Contractor and his suppliers. They are not intended as a material list of items required by the Contract.
- h. This division of the specifications covers the security systems for the various schools and other city sites located in Yonkers, NY.
- i. Contractor should note that it shall be necessary to coordinate with other contractors who will be working in the space at the same time as this work.
- j. It is the intent of these specifications to provide complete and workable electronic security system ready for the Owner's use. Any item not specifically shown on the drawings or called for in the specifications, but normally required to conform with the intent, are to be considered as part of the Contract.
- k. These specifications are equipment and performance specifications. Actual installation shall be as indicated on the Drawings. Any discrepancies found between the Specification and the Drawing shall be immediately brought to the attention of the Owner/Engineer.

1.02 DEFINITIONS

- a. Certain terms such as "shall", "provide", "install", "complete", "startup" are not used in some parts of these specifications. This does not indicate that the items shall be less than completely installed or that systems shall be less than complete.

b. Utilize the following abbreviations for discernment on the Drawings and within the Specifications:

- | | | |
|-----|------|---|
| 1. | NEC | National Electrical Code |
| 2. | OSHA | Occupational Safety and Health Act |
| 3. | ANSI | American National Standards Institute |
| 4. | NFPA | National Fire Protection Association |
| 5. | IEEE | Institute of Electrical and Electronics Engineers |
| 6. | CCTV | Closed Circuit Television |
| 7. | UL | Underwriters' Laboratories, Inc. |
| 8. | ASTM | American Society of Testing Materials |
| 9. | FCC | Federal Communications Commission |
| 10. | FBO | Furnished by others |
| 11. | EC | Bidding (electrical) contractor |

c. Utilize the following definitions for discernment within the Specifications:

1. "PROVIDE" or "FURNISH" means to supply, purchase, transport, place, erect, connect, test and turn over to Owner, complete and ready for regular operation, the particular work referred to.
2. "SUPPLY" means to purchase, procure, acquire, and deliver complete with related accessories.
3. "INSTALL" means to move from property line, set in place, join, unite, fasten, link, attach, set up or otherwise connect together before testing and turning over to Owner of equipment supplied under another division. Installation to be complete and ready for regular operation, the particular work referred to.
4. "WIRING" or "CABLING," means the inclusion of all fittings, conductors, connectors, connections, terminations and termination hardware and all other items necessary and/or required in connection with such work.
5. "DATA GATHERING PANEL", "iSTAR", "CONTROLLERS" means the inclusion of installations all I/O hardware, power supplies, alarm controllers, reader controllers, output relays, communications devices,

and housings necessary to interface card readers, alarm contacts, door locking and control hardware, etc. to the system.

6. "CONDUIT" or "CABLE TRAY" or "LADDER RACK" means the inclusion of all fittings, hangers, supports, sleeves, etc.
7. "AS DIRECTED" means as directed by the Owner or his representative.
8. "CONCEALED," means embedded in masonry or other construction, installed behind wall furring or within double partitions, or installed within hung ceilings or under raised floors.
9. "EXPOSED" means not installed underground or "CONCEALED" as defined above.
10. "APPROVED," means as accepted and authorized, in writing, by the Owner or Engineer.
11. "COY", "YPS" or "OWNER" means City of Yonkers, Yonkers Public Schools
12. "ENGINEER" or "AGENT" means owner or his designated representative

1.03 SCOPE OF WORK

- a. The work covered by these specifications includes the installations described herein and illustrated on the SE Security drawings, including all labor necessary to perform and complete such construction, all materials and equipment incorporated in or to be incorporated in such installations and all services, facilities, tools and equipment necessary or used to perform and complete such installations.
- b. The scope of work includes, but is not limited to, the work described herein and in the following specifications sections, as applicable:
 1. Division 26 – Electrical Specifications
 2. Preparation and submission of unit pricing sheets, shop drawings, testing reports, record drawings, and documentation.
 3. Termination, connectorization, labeling, testing and documentation of all cables and components provided under these specification sections.
 4. Tile cuts, as noted on the drawings and in the individual specification sections, under equipment racks, server racks, frames, cabinets, etc.
 5. Fire stopping of all conduits, cable trays rated wall and floor penetrations, etc. as noted.

6. Furnish shop drawings to the Construction Manager and the Engineer and receive written approval prior to fabrication, assembly and installation. The shop drawing submission shall be within sufficient time to allow endorsement by the Engineer prior to commencement of the work.
 7. Provide system's installation changes that were made due to field conditions to the owner. Documentation including copies of all relevant drawings and equipment manuals.
 8. Provide warranty services for bidder's work portion only for the specified period from the date of acceptance.
 9. Remove and dispose of all refuse related to the security system installation from site.
 10. Panduit Laser *Machine Labeling* and documentation of all cables, wiring boxes, equipment cabinets, pull boxes and termination strips installed under this contract. Use of hand label machines such as 'Brother-P-Touch' is not acceptable
 11. Installation, final connections and terminations of all security cabling and owner's provided equipment.
 12. Position cameras in the direction that is acceptable to the owner and follow owner's instruction for camera views. Be present and work with Owner's representative during commissioning and re-point cameras as needed to the owner's
 13. Be present at and work with owner's commissioning agent during system's turn on. Remedy all installation and wiring faults as per agent's direction.
- c. Bidding Contractor - Provided under this contract. Follow Division 26 for additional scope instructions
1. 120 VAC power wiring. Connection between 120 VAC power sources and all security equipment panels and equipment cabinets.
 2. Conduits, electrical, and pull boxes (provided under electrical work). NEMA Type 1 enclosure for all junction boxes provided under this work.
 3. Fire-stopping of all rated wall and floor penetrations.

1.04 MATERIALS SUPPLIED BY OTHERS AND INSTALLED UNDER THIS WORK

- a. Electronic Equipment noted on drawings SE-xxx Security Drawings

1.05 SITE VISIT

- a. Prior to bid submission, the Contractor shall visit the site and examine the drawings of other trades to determine the existing design conditions that may affect the work. The Contractor shall be held responsible for any assumptions in regard thereto.
- b. The Contractor shall verify all dimensions and distances in the field and/or other provided document the cable lengths and materials to be furnished and installed. The provision and installation of non-specified miscellaneous hardware, i.e., nuts, bolts, tie wraps, etc., and shall be the Contractor's responsibility.
- c. Contractor should note this is an existing facility under construction. Existing site conditions, other contract documents and the overall construction schedule must be carefully reviewed to determine all required interfacing and timing of the work.
- d. Existing Contract Documents for all other trades shall be made available for review through the General Contractor.

1.06 CONTRACTOR QUALIFICATIONS

- a. The Contractor shall provide Contractor Qualifications to include name/address of three (3) similar security projects performed in the past 5 years.

1.07 BIDDING

- a. The bidder's submittal shall include detailed labor costs break down for installation of the provided equipment including the ADD/DEDUCT form. ADD/DEDUCT form to have a single dollar amount to be applied to either adding or deleting an item.
- b. Materials costs shall reflect all miscellaneous hardware, connectors, and materials required and shown as a separate cost.
- c. Material, labor, documentation, and shipping totals shall be entered in a Master Costs forms.
- d. Substitute Equipment
 1. All cable and fiber (where applicable) shall be bid as specified.
 2. Equivalency in quality, performance, construction, and function shall be demonstrated by submitting, as applicable or required by the Engineer, the following:
 - a) Specifications.
 - b) Laboratory test data.

- c) List of advantages to the Owner and the Engineer.
 - d) Cost differences compared to the "as specified" bid package.
3. The drawings and specifications are based on specific equipment, functions, and arrangements. Additions or revisions to equipment, materials, and labor may be necessary for the proper fit and function of any proposed substitute items to the purpose, arrangement and intent originally indicated. It is the responsibility of the Bidder to determine the electrical needs for such additions and/or revisions and identify them in the Bidder's submittal.
4. Costs for any additional labor and additions or revisions to wiring, space requirements, equipment, or other materials, required for the use of substitute equipment shall be included by the Bidder without claim for subsequent additional payment.
5. Consideration in the Bidding for a proposed substitute will be given only if, in the opinion of the Engineer, the substitute is equal to and/or offers significant advantage to the project over the specified item.
- e. Installation materials supplied shall be complete, model numbers accurate, and the performance shall conform to manufacturer's specifications.
 - f. All materials shall be new and shall conform to applicable codes.
 - g. Repair or replace any items damaged during installation.
 - h. Procure and pay for all necessary permits, licenses, inspections, and observe any requirements stipulated therein.
 - i. Comply with all applicable labor regulations and applicable union and trade regulations.
 - j. The installation shall conform to the latest safety codes and regulations. Where conflicts exist, the most stringent code or regulation shall apply.
 - k. Adhere to all Quality Assurance items in the Sub-Contract Agreement issued by the Owner/Engineer.

1.08 SUBMITTALS

- a. As directed by the Owner/Engineer and the Construction Program, submit hand marked detailed field changes so that they can be incorporated onto the final as-built set (by others)
- b. Shop drawings shall be based on actual equipment, installation, and field conditions. Note however, that locations and other information provided herein are only approximate. Therefore, where possible, make equipment and field

measurements prior to the preparation of shop drawings, fabrication, and installation to ensure proper fit and function of the equipment. However, this requirement shall not delay the progress of the work. Allow for trimming and fitting wherever the taking of field, or other measurements, before fabrication might delay the work. Costs for failure to coordinate equipment details with site conditions and designated equipment locations shall be borne by the Security Contractor.

- c. The review and approval of shop drawings shall be general only and shall not relieve the Contractor from responsibility for proper installation or for deviations from the specifications or drawings due to field conditions; conflict with the work of others that may result from such deviations; or for errors of any sort.
- d. Shop drawings shall include and clearly indicate any proposed modification of the specifications or drawings.
- e. Shop drawings shall include and clearly indicate the addition of any items not detailed herein, but necessary to provide a properly functioning and complete system.
- f. Changes to riser diagrams for power and grounding, Security systems cabling and fiber optic/patch panel, data gathering panels, power supplies interconnections, and all Security field devices.

1.09 DELIVERY, STORAGE AND HANDLING

- a. Delivery of Materials: Coordinate with owner's designated agent
- b. Storage of Materials, Equipment and Fixtures: Store materials suitably sheltered from the elements, but readily accessible for inspection until installed. Store all items subject to moisture damage in dry, heated spaces. Provide space requirements for storage in submittals list. The General Contractor shall assign storage space.
- c. Store all materials in a secure fashion to prevent the loss of these materials due to pilferage or theft.

1.10 COORDINATION OF WORK

- a. Carefully check space requirements and the physical confines of the area of work to ensure that all material can be installed in the spaces allotted thereto, including equipment racks, and cable supports.
- b. Transmit to other trades in a timely manner all information required for work to be provided under their respective Sections in ample time for installation.
- c. Wherever work interconnects with or contacts the work of other trades, coordinate with other trades to ensure that all trades have the information necessary so that they may properly install all the necessary connections and

equipment. Identify all items of work that require access so that the floor tile trade shall know where to install tile cutouts.

- d. Attend all construction meetings, at the project site or at other location, as requested by the Owner or General Contractor.
- e. When directed by the Owner, the Contractor shall, without extra charge, make reasonable modifications in the layout as needed to prevent conflict with work of other trades or for proper compliance with the design intent.

1.11 CODES, REGULATIONS AND STANDARDS

- a. The installation shall be in compliance with the requirements of the National Electrical Code, OSHA, recommendations and the rules, regulations and requirements of all state and federal codes.
- b. The installation shall comply fully with all County, city, and state laws and ordinances, regulations, and codes applicable to the installation.
- c. All equipment shall be equal to or exceed the minimum requirements of NEMA, IEEE, ASME, ANSI and Underwriters' Laboratories.

1.12 SPECIAL CONDITIONS

- a. The requirements and recommendations of all standards, specifications and codes referred to herein, including the security systems drawings, shall be considered a part of these specifications.
- b. All local fees, permits, and services of inspection authorities shall be obtained and paid for by the Contractor. The Contractor shall cooperate fully with local utility companies with respect to their services. Contractor shall include in his price, all costs to be incurred relative to the installation of the system described herein.

1.13 WARRANTY

- a. For a period of 1 year after full acceptance, Contractor to Repair/Replace any defects in its work/materials to remedy the condition.

1.14 MATERIALS

- a. Where specific items are called out in the specification or indicated on the drawings for a specific application, use those products or materials. Otherwise, use first class products and materials that have been approved by the owner/engineer at the time of bid. Materials substituted after the time of bid a subject to prior approval by the Owner/Engineer.

1.15 GENERAL INSTALLATION

- a. Requirements herein referring to materials, or work related to, or that may affect the system but not within the work scope of this specification, shall apply to the supplying and/or installing contractor who shall comply with said requirements. Where conflict exists with other specifications concerning such work, this specification takes precedence unless otherwise approved in writing by the Owner/Engineer.
- b. Follow manufacturers' instructions for installing, connecting, and adjusting all equipment and cabling.
- c. The locations of equipment, power outlets, boxes, devices, etc. indicated on the drawings are approximately correct and are understood to be subject to such revision as may be found necessary or desirable at the time the work is installed.
- d. Exercise particular caution with reference to the location of all field devices they have precise and definite locations accepted by the Owner/Engineer before proceeding with the installation.
- e. Maintain a current copy of this bid specification at the job site at all times.
- f. Maintain a complete file of shop drawings and other submissions at the job site at all times. These shop drawings and submissions shall be made available to the Owner/Engineer at his request.
- g. Keep all items protected before and after installation, with dust and moisture proof barrier materials. It shall be the contractor's responsibility to ensure the integrity of these protective measures throughout the life of the project.
- h. Ensure that safe ingress and egress from all work sites is maintained during movement and installation of materials.
- i. Clean up all debris generated by installation activities. Always keep all work areas free of debris.
- j. Perform all tests required by local authorities in addition to tests specified herein.
- k. At all times during the construction, protect all equipment from damage and theft. Equipment in the equipment room shall not be installed until such time as other trades have completed their work in that area so that the equipment will not be moved or damaged.
- l. Upon project completion, provide hand corrected as-built drawings and documentation as defined herein.

1.16 STAFFING

- a. The Contractor shall keep a qualified foreman in charge of the work at all times. The foreman shall be present in the field at all times during the performance of the work. Such foreman shall be replaced if deemed unsatisfactory by the Owner.
- b. The Contractor shall provide a supervisory work force sufficient to efficiently execute the Contractor's responsibilities.
- c. The Contractor shall provide the level of manpower necessary to meet all construction schedules.
- d. The Contractor shall use only skilled, experienced, and reliable workers and shall discontinue the services of anyone employed on this project upon written request of the Owner.
- e. Manufacturer's installation instructions shall be used for in-process quality control and final acceptance of the work installation.
- f. Craft personnel shall be required to provide and use the proper tools and test equipment in the performance of each activity. Tools must be in good working order and test equipment must be properly calibrated. Contractor is responsible for safe storage of tools and is responsible for their security.

1.17 COMPONENT INSTALLATION

- a. Location of Equipment
 1. The specifications describe only approximate locations of the work. Verify all locations in the field.
 2. Bidder is to wire electrified locks (door hardware provided by General Contractor) as needed for both new and existing doors.
 3. Locate equipment and accessories to provide easy access for proper service and maintenance.
- b. Conduit and Raceway System
 1. Security cabling shall be in ferrous conduit, as shown on the drawings and described in the electrical and conduit specifications.
 - a) With Owner's prior approval, properly supported exposed security cabling shall be permitted above an accessible finished ceiling within the secure areas.
 - b) All security wiring installed in an inaccessible area shall be installed in appropriate metallic conduit.

2. Exposed conduit shall be parallel with, or at right angles to, walls and ceilings. It shall be adequately supported by means of approved galvanized iron clamps or hangers.
 3. Conduit fill shall not exceed 40% of conduit cross-sectional area.
 4. Nominal trade sizes for conduit shall be 3/4-inch minimum and 4-inch maximum.
 5. All junction boxes and pull boxes utilized in the raceway system shall be installed.
- c. Mounting Boxes/Enclosures
1. Mounting boxes and enclosures shall be rigidly and securely mounted to the building structure. Wiring contained in them shall be accessible. Install blanking devices or threaded plugs in all unused holes.
 2. Clean all interiors thoroughly before installing plates, panels or covers.
- d. Electrical Power 120 VAC
1. Any Electrical work to be provided and installed by the Contractor as described herein, shall be performed in accordance with all applicable electrical codes.
 2. Review and coordinate electrical power system installation with the Electrical Trade Contractor to ensure proper function and operation of the Security systems.
 3. Verify that all power circuits designated for Security equipment, both fixed-in-place and portable, are properly wired, phased and grounded. Report any discrepancies found to the Engineer and the Owner/Engineer so that appropriate corrective action can be taken.
 4. Provide distribution of electrical power within all equipment racks, enclosures, and consoles. For each branch circuit provide a minimum of two (2) spare receptacles in each plugmold strip. Provide a minimum of one (1) unswitched receptacle power strip (rack mounted) per each equipment rack cabinet group.
- e. Finishes
1. All enclosures, housings and supporting structures supplied by the Contractor not having a standard factory protective finish shall be painted. Paint specifications will be supplied by the Owner/Engineer or indicated herein.

2. Any equipment or materials supplied, which are exposed to public view, shall be approved by the Owner/Engineer. Provide, as may be required by the Owner/Engineer, custom color and/or finish for all such items. This does NOT exclude equipment or materials that are supplied with standard colors or finishes as specified herein.
 3. Finish and color of blank, perforated vent, and custom rack panels shall match each other as closely as possible.
- f. Installation of Cabling
1. Run all wiring in compliance with the requirements of the electrical specification and in accordance with authorities and codes having jurisdiction. Provide separate conduit for control wiring under this Section. Follow manufacturers' instructions for installing, connecting, and adjusting all equipment and cabling.
 2. Installation of all wire and cable shall include ensuring proper:
 - a) Types
 - b) Lengths
 - c) Routing
 - d) Quantities
 - e) Pulling tensions
 - f) Circuit identification
 - g) Wire/cable group separations
 3. Do not pull through any box, enclosure, or fitting where change of conduit or raceway alignment or direction occurs. Do not bend conductors to less than recommended radius. Employ temporary guides, sheaves, rollers, and other necessary items to protect cables from excess tension, abrasion, or damaging bending during pulling.
 4. Provide wire pulling lubricants and pulling tensions strictly in accordance with wire and cable manufacturer's recommendations.
 5. Cover edges of cable pass through holes in chassis, racks, boxes, plates, etc. with rubber grommets or Heyco or Brady GRNY nylon grommets.
 6. Use Velcro-type cable ties for bundling cabling as required and securing cable bundles to racks as required. Use integral brass grommets for screw attachment. Attach to backboards using flat-headed screws with

rigid support. Lengths vary as required. Types vary as required.

7. Provide ample service loops at each termination so that plates, panels, and equipment can be de-mounted for inspection, service, and so equipment in drawers or on slides can move freely.
8. Permanently identify all wires and cables at each end by labeling with Panduit or Brady (for example, not Brother P Touch type) wire markers printed on LaserJet or dot matrix printer via computer software program. Labeling information shall include the following:
 - a) Cable prefixes and cable numbers as per Security Wiring Riser and CCTV Wiring Riser drawings.
 - b) Descriptive information related to the cable's equipment source.
 - c) Descriptive information related to the cable's equipment destination.
 - d) Enter all identifications on wire/cable run schedules and/or as part of the shop drawings.
9. Use the same wire color coding for the same circuit, circuit functions, or phasing throughout the system. No splices shall exist in any length of wire run except where noted on specification drawings or approved by the Engineer.
10. Exercise care in wiring to avoid damage to cables. Cables shall be well supported and neatly dressed between racks, cabinets, consoles, or modules. Make all connections to jacks and connectors with rosin-core solder. Soldering shall be neat and shall not exhibit "cold" solder joints. Avoid "solder splatter" which can cause shorts in exposed terminals or wiring.
11. Connections made with screw actuated pressure type terminal strips shall be made by stripping approximately 6mm of insulation from the stranded conductor, inserting the un-tinned wire into the pressure terminal, and tightening the terminal screw using a small screwdriver which securely fits the screw head.
12. All exposed shielded drain wires shall be sheathed in properly sized clear tubing, clear shrink tube, or white "spaghetti". Floating shields (at device outputs) shall be insulated using the proper size heat shrink tubing and completely protected against shorting to any other conductors or connector shell.
13. CAT-6/5E for CCTV, Intercoms and other connections shall only be using proper crimp type connectors of appropriate for the equipment or device

terminations.

14. Cable Separation

- a) Cabling shall be bundled separately from other system cabling. Each cable bundle shall be tie wrapped and supported J - hooks every 5-feet.
- b) Separate cables running parallel to electrical cables/conduits by a minimum of 12-inches. Maintain at least 18-inch separation from all lighting ballasts and fixtures.
- c) Cables, which must cross-electrical cables/conduits, shall do so only at 90-degree angles.

g. Installation of Security Equipment Panels

- 1. Provide security equipment panel installation in accordance with the provided SE series drawings.

h. Installation of Security Equipment Racks and Cabinets

- 1. Provide security equipment rack and cabinet installation in accordance with industry expected standards and per provided SE drawings.

1.18 IDENTIFICATION

- a. Furnish a nameplate for each security equipment panel, NEMA and power supply enclosures provided under this work. Plates shall be Panduit, self-laminating or 2 1/4" lamacoid or aluminum with a black enamel background with etched or engraved upper case 1/4" white letters or black and white laminated Bakelite plate with beveled edges. Coordinate labeling and nameplate requirements with the Owner/Engineer prior to installation. Nameplates shall be screwed on with countersunk screws.
- b. All cables and terminal strips shall be labeled with machine generated black uppercase lettering on a permanent adhesive label stock, covered with a permanent water resistant sealer. Labels shall be placed on both ends of the cable and no more than 6" from the point at which the cable is broken out into individual copper pairs or from the connector or terminal block. All labels shall be readily visible.
- c. Hand lettered label stock shall not be accepted for final installation. Hand lettered stock is only acceptable for use with temporary labeling required during construction phases.
- d. If at any time during the project, the cable label becomes illegible or removed, the Contractor shall immediately replace it with a duplicate pre-printed cable label.

- e. All cable IDs shall be both physically and visually accessible upon completion of the project.

1.19 FIRE STOP PENETRATION SEALANT

- a. Provide fire-resistant materials of a type and composition necessary to restore fire ratings to all wall or floor or ceiling penetrations. Material must be properly classified and meet national and local codes.
- b. All penetrations through fire rated floors and walls shall be sealed to prevent the passage of cold smoke, fire, toxic gas or water through the penetration either before, during or after a fire. The fire rating of the penetration seal shall be at least that of the floor or wall into which it is installed, so that the original fire rating of the floor or wall is maintained as required by Article 300-21 of the National Electrical Code.
- c. No flammable material may be used to line the chase or hole in which the fire stop material is to be installed.
- d. When damming materials are to be left in place after the seal is complete, and then all such materials shall be non-flammable.
- e. When damming materials are to be left in place after the seal is complete, and then all such materials shall be non-flammable.
- f. The sealant shall remain resilient and pliable to allow the removal and/or addition of cable without the necessity of drilling holes. It shall adhere to itself perfectly to allow any and all repairs to be made with the same material. It shall allow for vibration, expansion and/or contraction of anything passing through the penetration without affecting the seal, or cracking, crumbling and spalling.
- g. When sealant is injected into a penetration, the material shall expand to surround all the items within the penetration and maintain pressure against the walls of the penetration as well as the pass-through items. The material shall cure within five minutes. No heat shall be required to further expand the material to prevent the passage of fire and smoke or water.
- h. The materials shall have been subjected to fire exposure in accordance with standard time-temperature curve in the Standard, UL, ASTM E 119 and NFPA 251. The fire stop material shall have also been subjected to the hose stream test in accordance with UL 10B.

1.20 GROUNDING

- a. Grounding and shielding shall conform to the following procedures. AC grounding applies only to power circuits intended for powering Security equipment.

- b. It is the primary intent of the following procedures to provide a safe system for personnel to operate.
- c. The power cord from active equipment shall not have its third prong-grounding conductor defeated.
- d. To reduce noise voltages in the system it is intended that only one ground connection path exist between two pieces of equipment.
- e. Where mounting hardware is indicated as a means of grounding, ensure both a solid electrical and mechanical connection is made.
- f. Cable shields shall be considered grounded if connected to the shield connection points provided by the manufacturer of active equipment.
- g. Conduit/mounting boxes:
 - 1. Permanently and effectively, bond to building earth ground per applicable codes. Insulated connections between conduit and wall boxes, junction boxes, or wireways are not permitted.
- h. Passive Equipment Chassis: Connect an appropriately sized (green) insulated ground cable to the copper ground terminal block (provided under the electrical contract), to the ground bus bar within each equipment rack. This ground bus bar shall be bonded to bright metal of each equipment rack with the appropriate antioxidant employed at the copper to rack interface. Each adjacent equipment rack shall have its grounding conductor homerun to the copper ground terminal block.

1.21 SYSTEM PROGRAMING AND INITIALIZATION

- a. Programming, software, and materials necessary for initial configuration, programming and start-up of access control and CCTV systems is by others.
 - 1. Provide all labor and materials necessary to during system's commissioning.
 - 2. Provide labor to attend weekly project meetings for the duration of the project.

1.22 TRAINING

- a. Allow a minimum of 8 hours to walk the site with the owner for needed training on provided materials and installations to show location of junction boxes, breaker panels etc.

1.23 INSPECTIONS AND TESTING

- a. Help perform field I/O calibration and commissioning, system commissioning and integrated system program commissioning. Document all commissioning information on commissioning data sheets that shall be submitted prior to acceptance testing. Notify the Owner/Engineer in writing of the testing schedule so that operating personnel may observe calibration and commissioning.
 1. Inspections and Cable Testing
 2. System Programming
 3. System Operation
 4. Component Commissioning
 5. Primary Power Failure
 6. Fire alarm Interface Test
- b. After the installation is complete, in addition to any other required testing as described herein, and at such times as the Owner/Engineer directs, be present while the Owner/Engineer conducts an operating test for approval. The installation shall be demonstrated to be in accordance with the requirements of this specification. Any defects revealed shall be corrected promptly at the Contractor's expense and the tests performed again.
- c. As a minimum, test, as described below, all cables installed under these specifications.
 1. Conduct cable testing as described below upon completion of installation. Test fully completed systems only.
 2. Multi-conductor metallic cables: End-to-end testing of each cable pair/conductor for continuity ground fault, proper termination, shorts and crossed pairs.
 3. If a bad conductor is found, replace the entire cable. Remove any cables that contain a defective conductor from ceiling and/or floor duct. Do not abandon defective cables in place.
- d. The Owner/Engineer reserves the right to observe of any or all portions of the testing process.
- e. The Owner/Engineer further reserves the right to conduct, using contractor equipment and labor, a random re-test of 10% of the cables to confirm documented test results. Such retests may be observed and reported on by a third-party contractor retained by the Owner/Engineer.

- f. All test results and corrective procedures are to be documented and submitted to the Owner/Engineer within five (5) working days of test completion

1.24 ACCEPTANCE

- a. Submit a detailed acceptance procedure designed to demonstrate compliance with contract installation requirements at least 2 weeks before the start of testing. This procedure to be approved prior to the start of the testing.
- b. During acceptance testing, provide services to owner's security systems technician.
- c. Coordinate testing period so that free access, work lighting and electrical power are available on site.
- d. Furnish three portable VHF or UHF business band, two-way radios with sufficient range to cover the entire project. Include extra rechargeable batteries, battery charger and belt "holsters".
- e. Ensure that technical areas are in a clean and orderly condition, ready for acceptance testing.

1.25 RECORD DRAWINGS

- a. During construction, the Contractor shall keep an accurate record of all deviations between the work as shown on the drawings and that, which is accurately installed.

END OF SECTION

ST. DENIS SCHOOL 73 LAWRENCE STREET YONKERS, NY 10705

SECURITY UPDATE PROJECT

SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

FLOOR PLANS

SE-100 SECURITY UPDATE PROJECT FIRST FLOOR
SE-102 SECURITY UPDATE PROJECT BASEMENT
SE-103 SECURITY UPDATE PROJECT COMMUNITY FIRST FLOOR
SE-104 SECURITY UPDATE PROJECT COMMUNITY BASEMENT
SE-105 SECURITY UPDATE PROJECT SECOND FLOOR
SE-106 SECURITY UPDATE PROJECT THIRD FLOOR
SE-107 SECURITY UPDATE PROJECT FOURTH FLOOR

RISER

SE-200 SECURITY RISER DIAGRAM GROUND FLOOR, FIRST FLOOR & FIRST FLOOR
SE-201 SECURITY RISER DIAGRAM BASEMENT, COMMUNITY FIRST FLOOR & COMMUNITY BASEMENT
SE-202 SECURITY RISER DIAGRAM SECOND FLOOR, THIRD FLOOR & FOURTH FLOOR

CLOSET DETAILS

SE-300 CLOSET ELEVATIONS BASEMENT MDF / IDF-1
SE-301 CLOSET ELEVATIONS COMMUNITY BASEMENT IDF-2
SE-302 CLOSET ELEVATIONS SECOND FLOOR IDF-3
SE-303 CCTV ONE LINE DIAGRAM

TYPICALS

SE-700 ISTAR-OVERALL SCHEMATIC SECURITY DEVICE & POWER CONNECTION
SE-701 ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX
SE-702A ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX
SE-702B ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX
SE-703 SECURITY EQUIPMENT DETAIL 1- (DOOR TYPICALS)
SE-703A SECURITY EQUIPMENT DETAIL 1A- (DOOR TYPICALS)
SE-703B SECURITY EQUIPMENT DETAIL 1B- (DOOR TYPICALS)
SE-704 SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SE-705 SECURITY EQUIPMENT DETAIL 3- (ILDA DEVICE TYPICALS)
SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

GENERAL NOTES

- GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
- WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, ETC.
- THE INSTALLING SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOSTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.
- FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SECURITY CONTRACTOR AS REQUIRED BY CODE.
- THESE DRAWINGS ARE DIAGNOSTIC IN NATURE, AND FINAL SYSTEM CONDUIT AND CONDUCTOR LAYOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
- THE INSTALLING CONTRACTOR MUST COORDINATE WITH THE DEVICE INSTALLATION DETAILS, AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE FOR THE FINAL SHOP DRAWING APPROVED DEVICE, ON A LOCATION-BY-LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS FOR SURFACE OR RECESS MOUNTING. RECESS MOUNTING IS THE PREFERRED APPLICATION.
- PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 40% CONDUIT FILL.
- THE INSTALLING CONTRACTOR SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM UNLESS OTHERWISE NOTED. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE INSTALLING SECURITY CONTRACTOR.
- THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND BACKBOXES FOR THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET.
- THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MILLWORK UNLESS OTHERWISE NOTED.
- THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY LHOODS, CABLE TRAY OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
- THE INSTALLING CONTRACTOR TO PROVIDE GROUNDINGS OF ALL ELECTRONICS EQUIPMENT ON THE PLYWOOD BACKBOARD, USE GROUND BAR OR COORDINATE WITH GENERAL CONTRACTOR FOR NEAREST GROUNDING LOCATION.
- THE INSTALLING CONTRACTOR SHALL PREP ALL DOORS FOR DOOR HARDWARE. THIS INCLUDES MAGNETIC LOCKS, ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS AND MAGNETIC LOCK ASSEMBLIES.
- THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT.
- ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH PULL WIRES AND BIRIBINGS, WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE FIRE STOPPED.
- PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION OF ALL ELECTRIFIED DOOR HARDWARE WITH OWNERS REP TO VERIFY CORRECT INSTALLATION & PROPER FUNCTIONING.
- AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE INSTALLING CONTRACTOR SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT, TEST THE INSTALLATION AND REMEDY ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDY OF ANY CABLE &/OR EQUIPMENT INSTALLATION PROBLEMS AND ALL RELATED PUNCH LIST ITEMS.
- CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM.
- THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING BACK A COMPLETE, MARKED UP SET FOR THE GENERATION OF CORRECT AS BUILT DRAWINGS. INSTALLING SECURITY CONTRACTOR IS TO PROVIDE THE SECURITY PROJECT MANAGER WITH THE UPDATED SETS AND REVIEW.
- ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING 151-77 TACS. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE
- SECURITY SCREWS TO BE USED AS NEEDED AND EXPECTED TO MAINTAIN SYSTEMS INTEGRITY

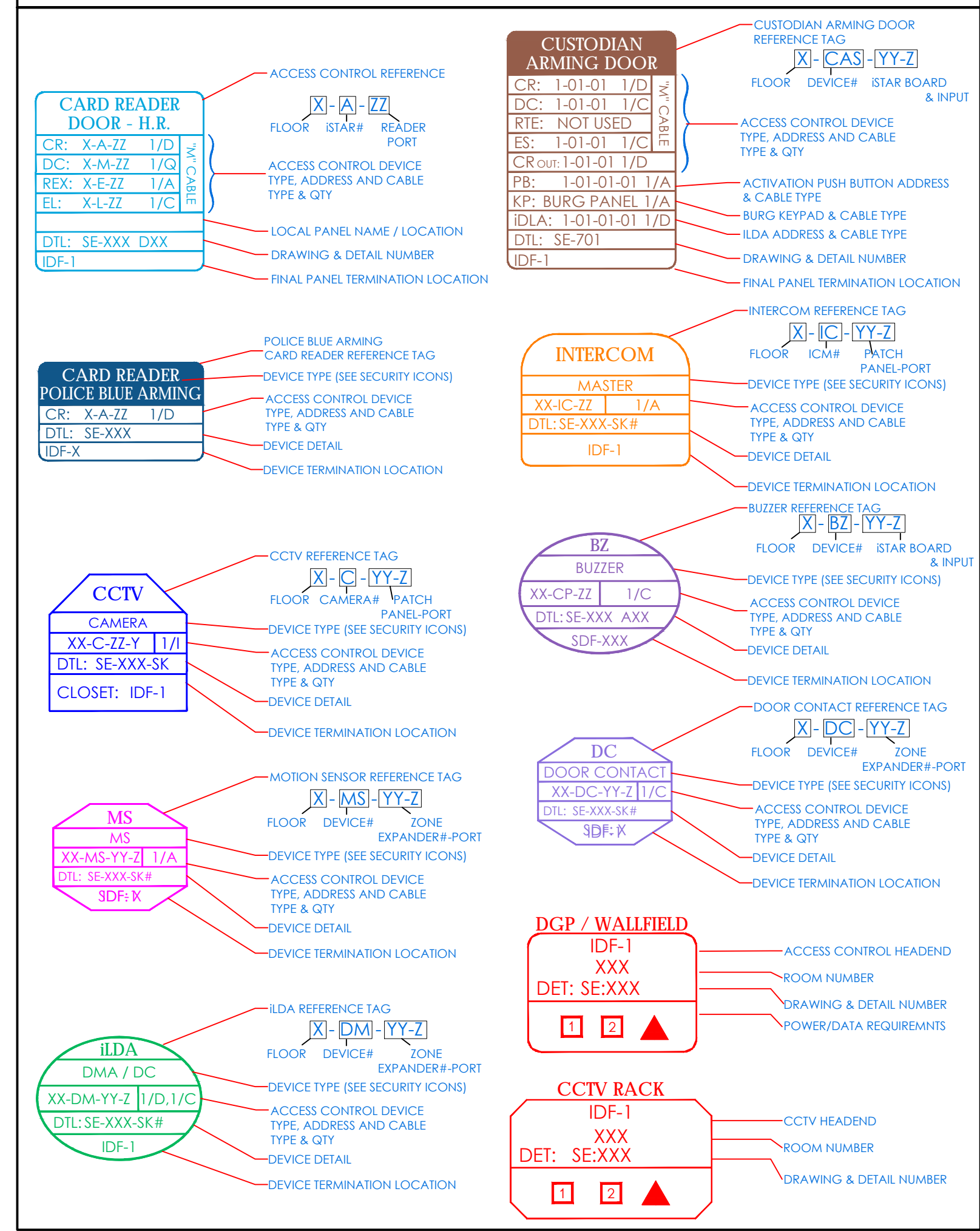
POWER REQUIREMENTS

- POWER (EMERGENCY CIRCUIT)
ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
- POWER (NON-EMERGENCY CIRCUIT)
ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

SECURITY DEVICES LEGEND

| | | | |
|------|---|--|---|
| CR | CARD READER | LR = LONG RANGE R = RECESS S = SURFACE | BIO = BIOMETRIC BC = BARCODE |
| DDC | DOUBLE DOOR CONTACTS | S = SURFACE | DPDT = DOUBLE POLE DOUBLE THROW |
| DC | DOOR CONTACT | R = RECESS S = SURFACE | DPDT = DOUBLE POLE DOUBLE THROW |
| KP | BURG PANEL KEY PAD | | |
| DO | ELECTRIFIED DOOR OPERATOR (PBO) | | |
| OH | OVERHEAD DOOR CONTACT | | DPDT = DOUBLE POLE DOUBLE THROW |
| EL | ELECTRIC MORTISE LOCK | REX = REQUEST TO EXIT BUILT IN | |
| ML | ELECTROMAGNETIC LOCK | | |
| ES | ELECTRIC STRIKE LOCK | | |
| EOI | END OF LINE RESISTOR | | |
| REX | REQUEST TO EXIT MOTION SENSOR | | |
| ILDA | INTELLIGENT LOCAL DOOR ALARM (ILDA) - "D" CABLE | | |
| CB | ELECTRIC LOCKING CRASH BAR | REX = BUILT IN REQUEST TO EXIT | |
| MS | MOTION SENSOR (LONG RANGE) - "A" CABLE | | MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION SENSOR IS 360° CEILING TYPE |
| MS | MOTION SENSOR (SHORT RANGE) - "A" CABLE | | |
| BUZ | BUZZER | | |
| TMP | TEMPERATURE SENSOR | | |
| MON | VIDEO MONITOR | | |
| ICM | INTERCOM | S=SUBSTATION M=MASTER | VS=VIDEO SUBSTATION VM=VIDEO MASTER |
| S | SIREN | | |
| CAS | CUSTODIAN ARMING STATION | | |
| ADA | ADA PUSHBUTTON | X=IN / OUT | |
| OP | AUTOMATIC DOOR OPENER | | |
| CMC | FIXED MINI DOME OUTDOOR VANDAL CAMERA | | |
| CMC | FIXED MINI DOME INDOOR CAMERA | | |
| PTZ | PTZ DOME OUTDOOR CAMERA | | |
| PTZ | PTZ DOME INDOOR CAMERA | | |
| CB | FIXED BOX OUTDOOR CAMERA | | |
| CB | FIXED BOX INDOOR CAMERA | | |
| 360 | 360° DOME OUTDOOR CAMERA | | |
| 360 | 360° DOME INDOOR CAMERA | | |

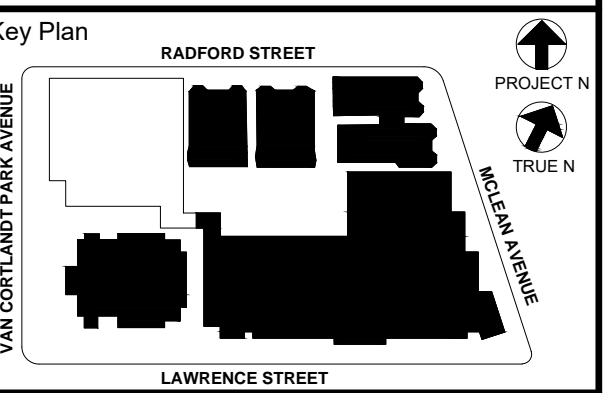
REFERENCE DEVICE ATTRIBUTE LEGEND



CABLE LEGEND

| CABLE TYPE | MANUFACTURER | PART NUMBER | DESCRIPTION | USE | O.D. |
|------------|----------------|-------------|---|---|----------|
| A | REEMEE | TYPE A | 20 AWG / 2 PAIR, INDIVIDUALLY SHIELDED PLENUM PINK CABLE | INTERCOM, COMMUNICATION, REX | .194 IN |
| B | BELDEN | 3082A | MULTI-CONDUCTOR DEVICES FOR DEVICES/CONTACT | PLC COMMUNICATION | .480 IN |
| C | REEMEE | TYPE C | 18AWG / 2 COND PLENUM PINK CABLE | PTZ POWER | .150 IN |
| D | REEMEE | TYPE D | 20AWG / 8 COND OVERALL SHIELD PLENUM PINK CABLE | CARD READER, COMMUNICATION | .207 IN |
| E | CORNING | 12MM62.5 | 6 STRAND 62.5UM RISER FIBER - MULTIMODE | NETWORK BACKBONE | |
| F | REEMEE | TYPE F | RS57U 20AWG PLENUM PINK CABLE | ANALOG CCTV CAMERA, ANALOG MONITOR | .214 IN |
| H | TBD | TBD | 14 AWG / 6 COND THHN STRANDED QUICK PULL CABLE COLOR: BLUE, RED, BROWN, YELLOW, PINK, WHITE | DEFINITION LOCK POWER/STATUS | |
| I | REEMEE | TYPE I | 23 AWG / 4 PAIR CAT5E - UNSHIELDED PLENUM | IP CCTV CAMERA, NETWORK | .215 IN |
| M | REEMEE | TYPE M | 4 ELEMENT COMPOSITE PINK CABLE PLENUM (A) - TYPE A; 20AWG / 2 PAIR - REX (C) - TYPE C; 18AWG / 2 COND - LOCK POWER (D) - TYPE D; 20AWG / 8 COND - CARD READER (G) - TYPE G; 20AWG / 2 COND - DOOR CONTACT | ACCESS CONTROL DOOR | .420 IN |
| P | HITACHI | 57-26S1 | 24AWG / 25 PAIR CAT5E PLENUM | PLC COMMUNICATION | .454 IN |
| Q | REEMEE | TYPE Q | 20AWG / 2 COND UNSHIELDED PLENUM | DOOR CONTACT | .150 IN |
| Z | WEST PENN WIRE | AGC3186 | 18 AWG / 6 COND OVERALL SHIELDED, PVC | PEDESTAL CARD READER | .323 IN |
| X | WEST PENN WIRE | AGC357 | 22 AWG / 2 PAIR, 1 PAIR SHIELDED, 1 PAIR UNSHIELDED, PVC | PEDESTAL INTERCOM | .235 IN |
| 4722A | REEMEE | | (S) - COMPONENT 1: CARD READER IN 1/PR (R5-4B5) SHIELDED 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (SO) - COMPONENT 2: CARD READER-OUT 1/PR (R5-4B5) SHIELDED 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (DC) - COMPONENT 3: DOOR CONTACT 2 COND - 22AWG STRANDED (EL) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED (HN) - COMPONENT 5: HORN/STROBE 2 COND - 20AWG STRANDED - NOT USED | ACCESS CONTROL DOOR IN / OUT CARD READERS | 0.484 IN |
| 4722B | REEMEE | | (S) - COMPONENT 1: CARD READER IN 1/PR (R5-4B5) SHIELDED 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (RX) - COMPONENT 2: REQUEST TO EXIT 4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED (DC) - COMPONENT 3: DOOR CONTACT 2 COND - 22AWG STRANDED (EL) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED (HN) - COMPONENT 5: HORN/STROBE 2 COND - 20AWG STRANDED - NOT USED | ACCESS CONTROL DOOR SINGLE CARD READER | 0.484 IN |

** FOR PROCUREMENT, PLEASE CONTACT CHRIS SCIANO AT MONTANA DATACOM



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Professional Seal

| | | |
|-----|------------|---------------------------|
| No. | Date | Issue |
| 5 | 11/11/2021 | BID ADDENDUM #1 |
| 3 | 07/14/2021 | CONSTRUCTION DOCS - NYSED |
| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |

COVER SHEET / LEGEND & INDEX

| | | | |
|--------------|-----------|-----------------|------------|
| Job No. | 2019-1026 | Date | 08/31/2020 |
| Scale | AS NOTED | Drawn / Checked | |
| Sheet Number | SE-000 | | |

NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

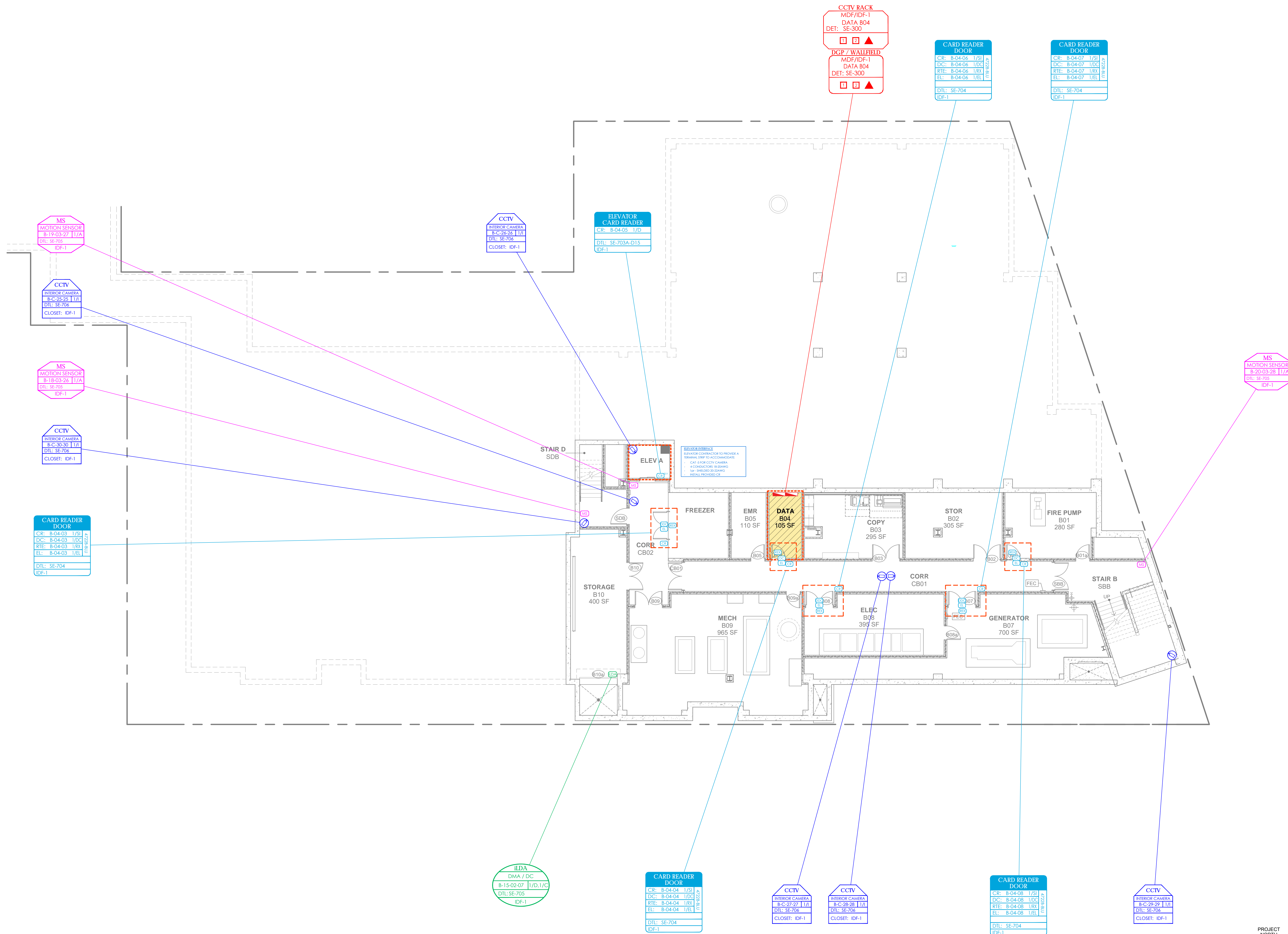
YONKERS JOINT SCHOOLS
CONSTRUCTION BOARD

121 McLean Avenue
Yonkers, NY 10705

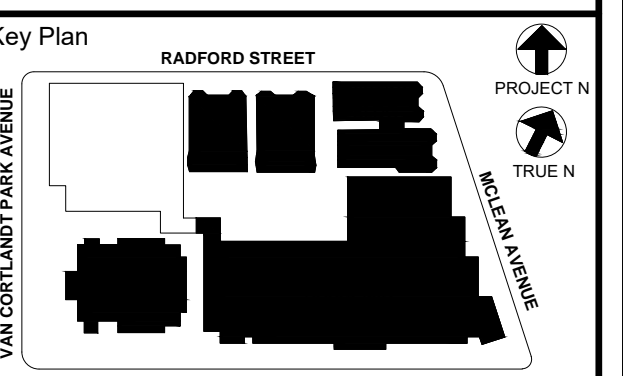


155 Lafayette Ave
White Plains, NY 10603
SECURITY SYSTEMS

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001



2 BASEMENT FLOOR PLAN
1/8" = 1'-0"



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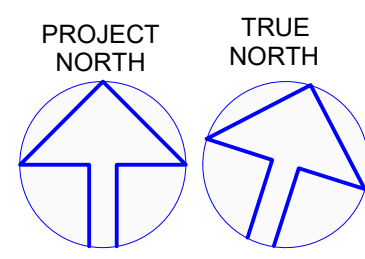
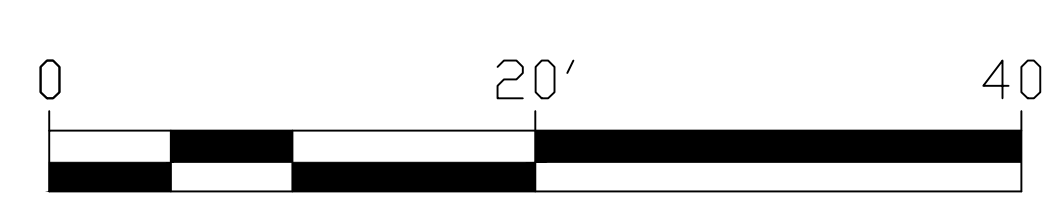
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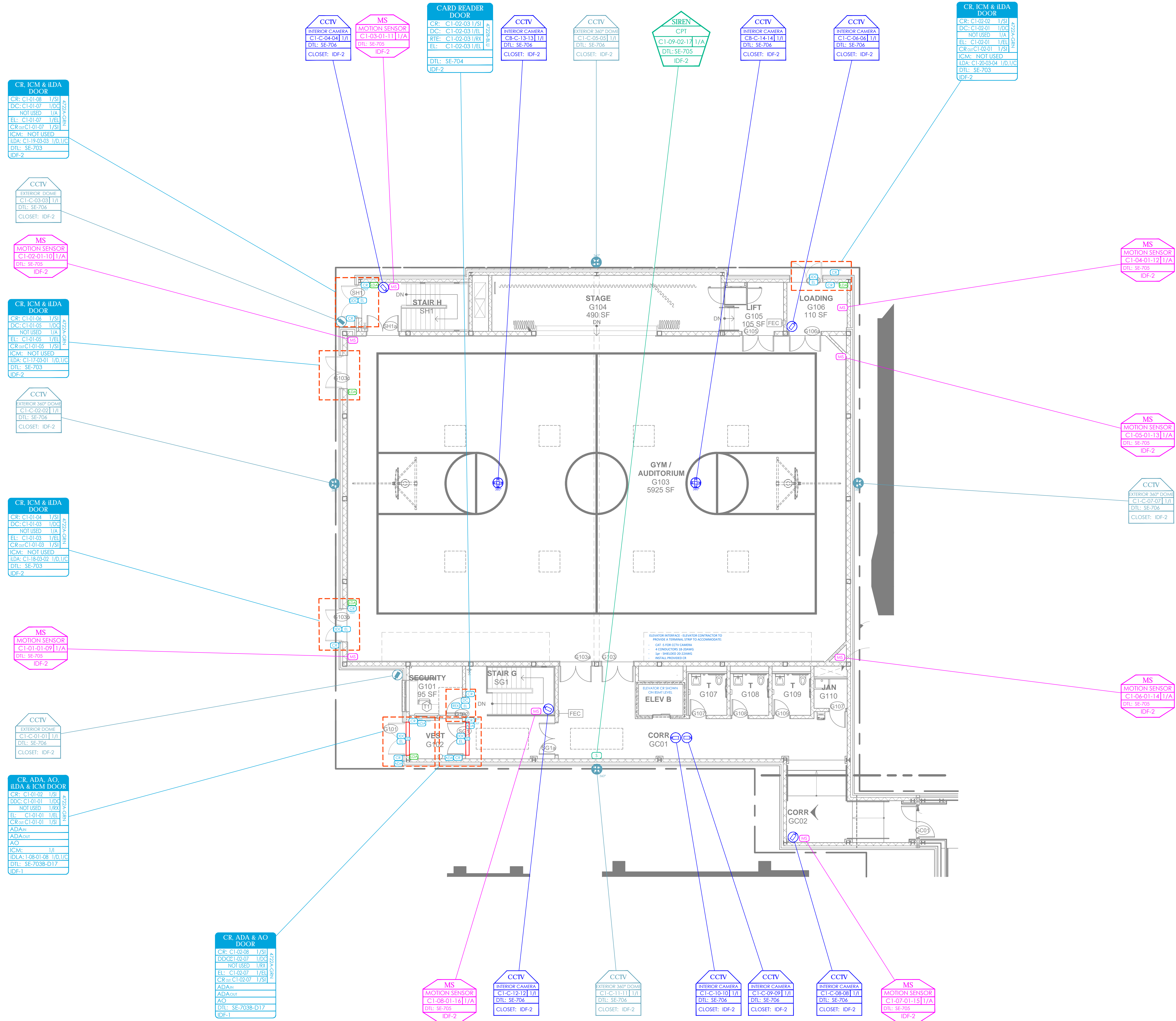
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|-----|------------|---------------------------|
| No. | Date | Issue |
| 5 | 11/11/2021 | BID ADDENDUM #1 |
| 3 | 07/14/2021 | CONSTRUCTION DOCS - NYSED |
| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |

Sheet Title
SECURITY UPDATE PROJECT BASEMENT

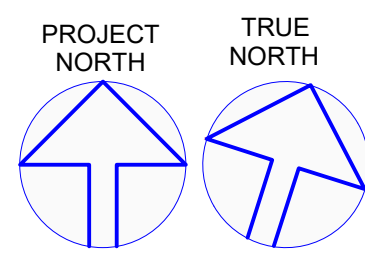
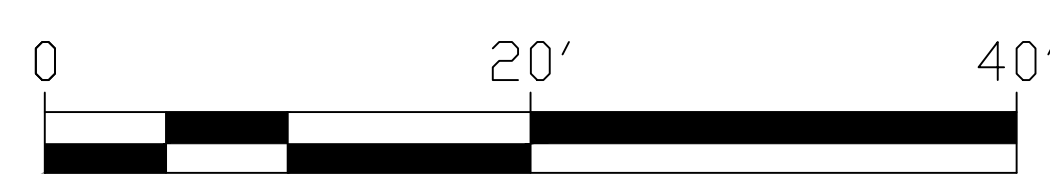
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| Job No. | 2019-1026 | Date | 08/31/2020 |
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| Sheet Number | SE-101 | | |



NOTE:
 1. RUN ALL CAMERAS CAT-5E TO FLOOR'S DATA CLOSET
 2. RUN ALL MOTION DETECTORS TO BASEMENT DATA CLOSET G802
 3. RUN ALL CARD READER DOORS CABLE TO BASEMENT CLOSET G802



3 COMMUNITY FIRST FLOOR PLAN
 1/8" = 1'-0"

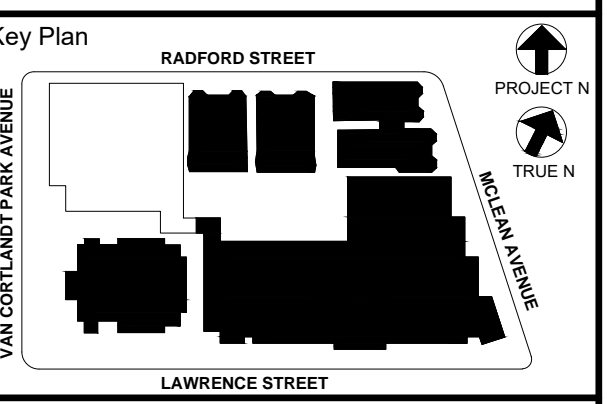


NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE
 YONKERS JOINT SCHOOLS CONSTRUCTION BOARD
 121 McLean Avenue
 Yonkers, NY 10705

KG+D listen imagine build
 KG+D ARCHITECTS, PC
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ITG Larson, Inc.
 155 Lafayette Ave
 White Plains, NY 10603
 SECURITY SYSTEMS

NY SED PROJECT CONTROL NO.
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Sheet Title
SECURITY UPDATE PROJECT COMMUNITY FIRST FLOOR

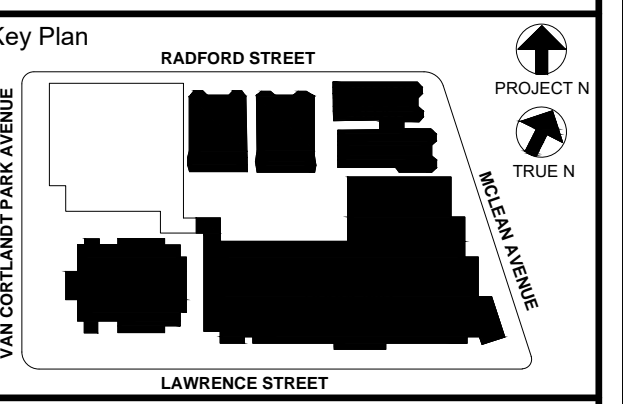
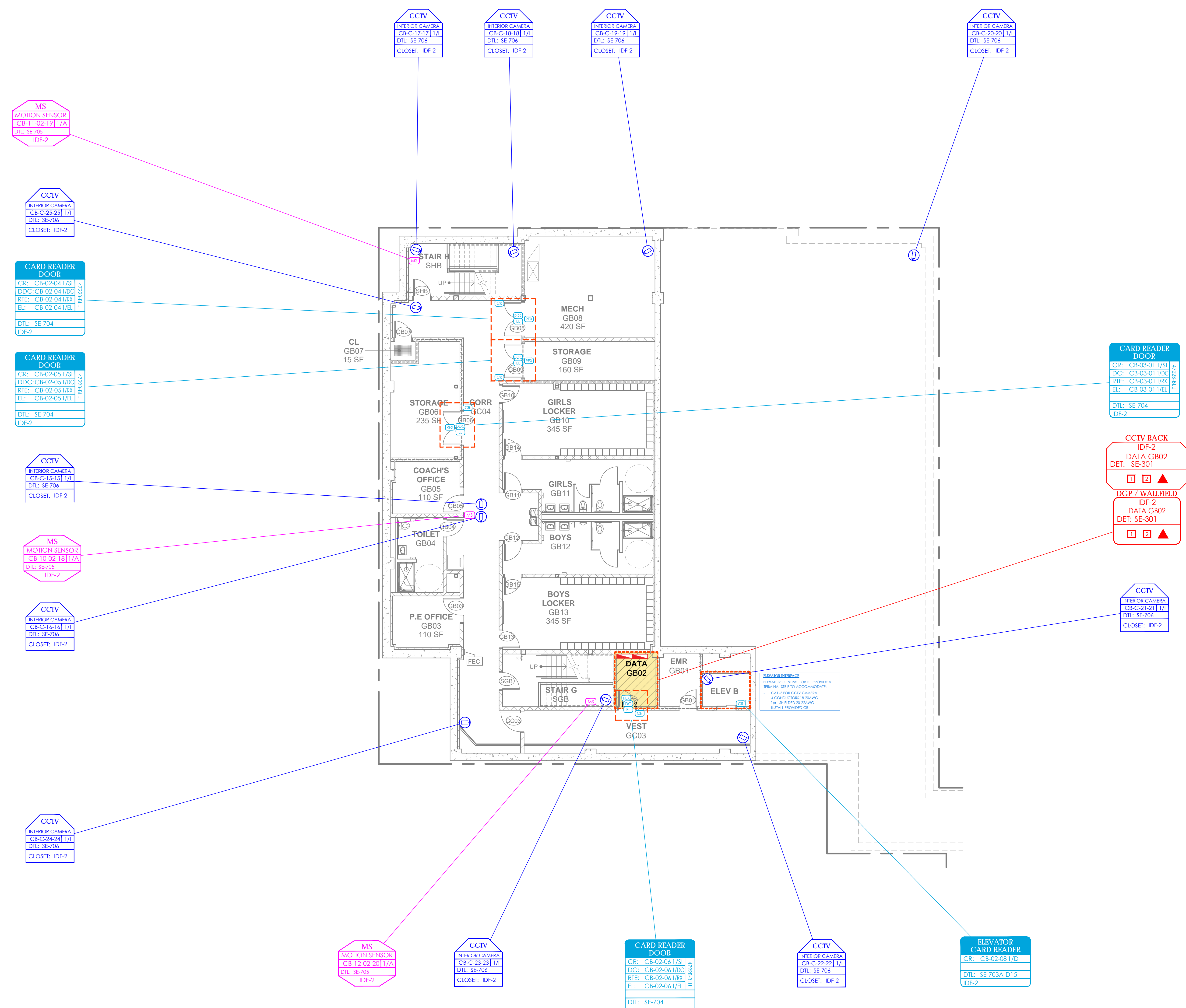
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NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

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CONSTRUCTION BOARD
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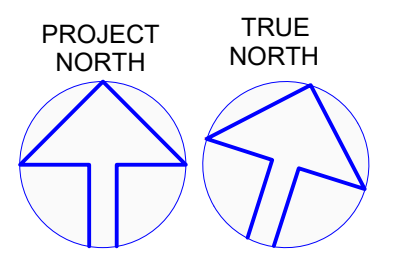
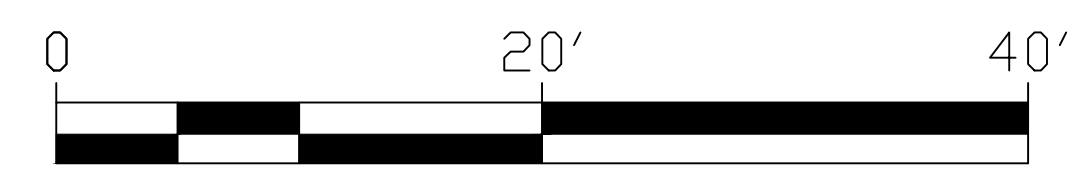
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| 3 | 07/14/2021 | CONSTRUCTION DOCS - NYS&D |
| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |

Sheet Title
SECURITY UPDATE PROJECT COMMUNITY BASEMENT

Job No. 2019-1026 Date 08/31/2020
Scale: AS NOTED Drawn / Checked

Sheet Number
SE-103

4 COMMUNITY BASEMENT FLOOR PLAN
1/8" = 1'-0"



NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

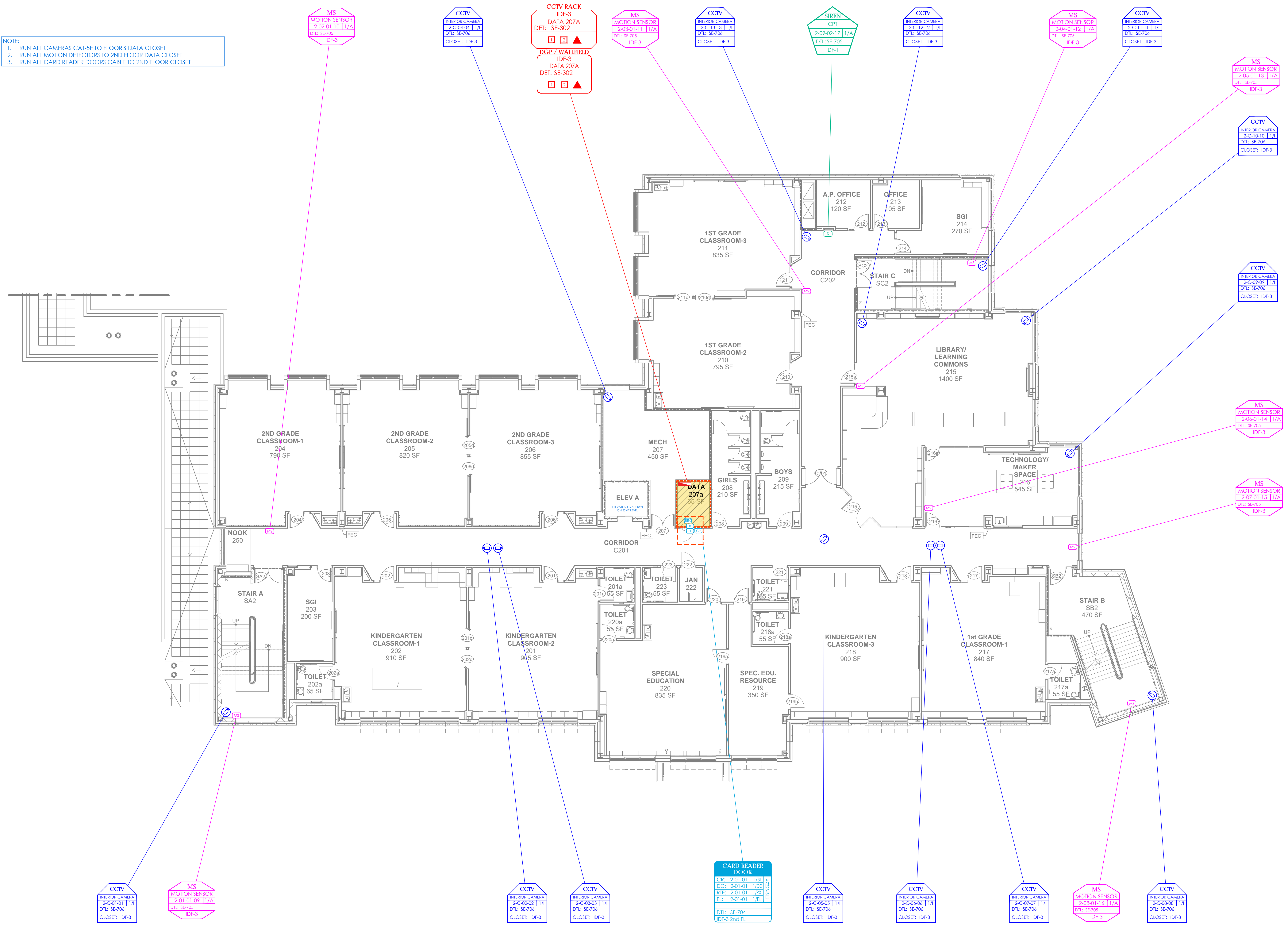
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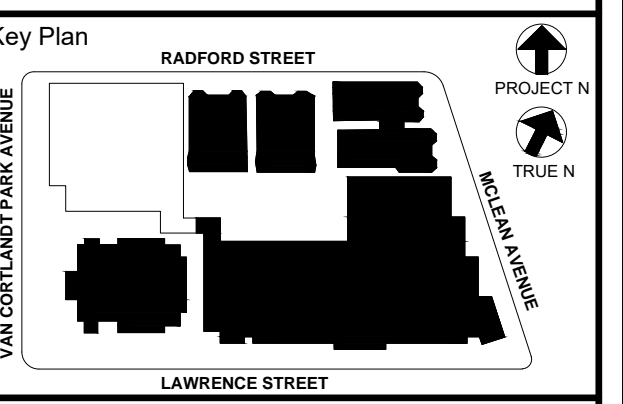
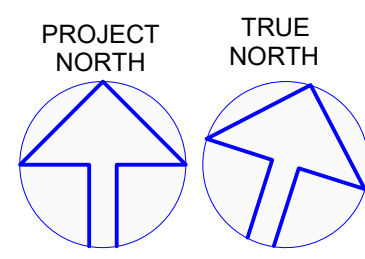
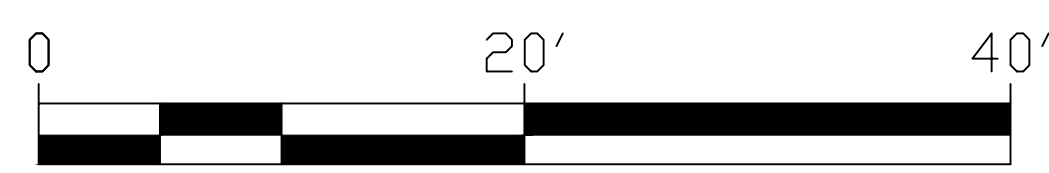
ITG Larson, Inc.
 155 Lafayette Ave
 White Plains, NY 10603
 SECURITY SYSTEMS

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

- NOTE:**
1. RUN ALL CAMERAS CAT-5E TO FLOOR'S DATA CLOSET
 2. RUN ALL MOTION DETECTORS TO 2ND FLOOR DATA CLOSET
 3. RUN ALL CARD READER DOORS CABLE TO 2ND FLOOR CLOSET



5 SECOND FLOOR PLAN
 1/8" = 1'-0"



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| No. | Date | Issue |

SECURITY UPDATE PROJECT SECOND FLOOR

| | | | |
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NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

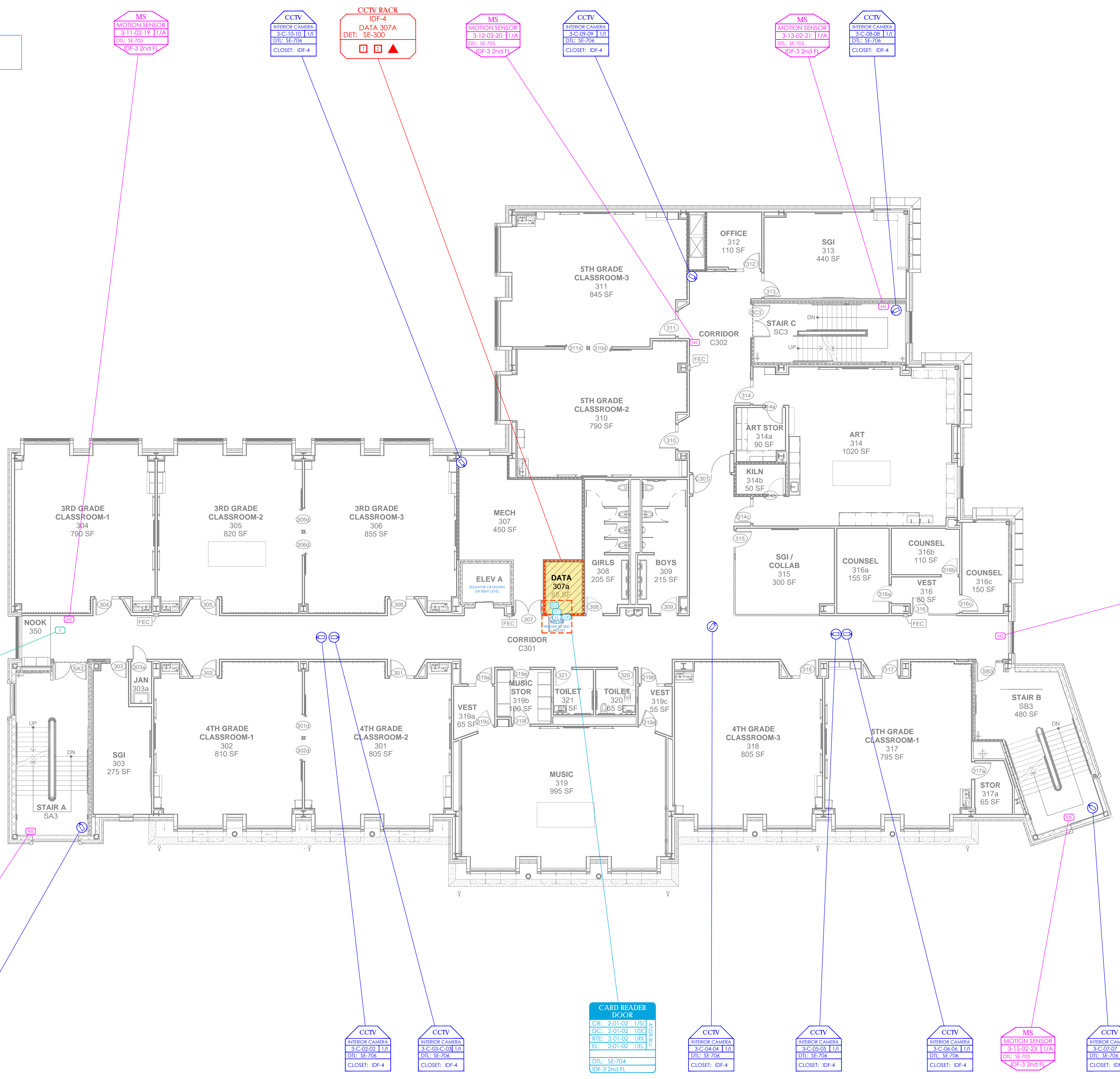
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

- NOTE:
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 2. RUN ALL MOTION DETECTORS TO 2ND FLOOR DATA CLOSET
 3. RUN ALL CARD READER DOORS CABLE TO 2ND FLOOR CLOSET



SIREN
 CPT
 3-16-02-24 1/1A
 DTL: SE-705
 IDF-1

MS
 MOTION SENSOR
 3-10-02-18 1/1A
 DTL: SE-705
 IDF-3 2nd Fl.

CCTV
 INTERIOR CAMERA
 3-C-02-01 1/1A
 DTL: SE-706
 CLOSET: IDF-4

CCTV
 INTERIOR CAMERA
 3-C-02-02 1/1A
 DTL: SE-706
 CLOSET: IDF-4

CCTV
 INTERIOR CAMERA
 3-C-03-03 1/1A
 DTL: SE-706
 CLOSET: IDF-4

CARD READER DOOR
 CR: 2-01-02 1/5/1
 DC: 2-01-02 1/6C
 RT: 2-01-02 1/8/1
 EL: 2-01-02 1/7L
 DTL: SE-704
 IDF-3 2nd Fl.

CCTV
 INTERIOR CAMERA
 3-C-04-04 1/1A
 DTL: SE-706
 CLOSET: IDF-4

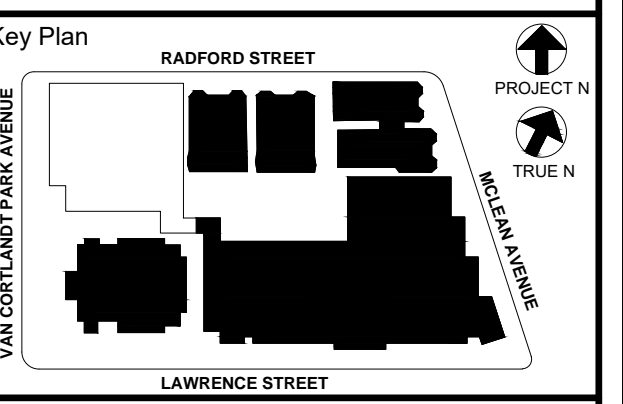
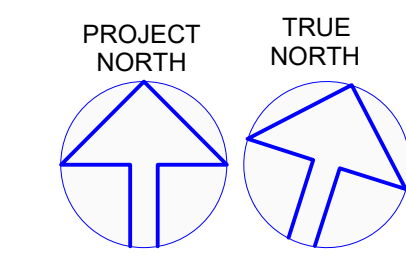
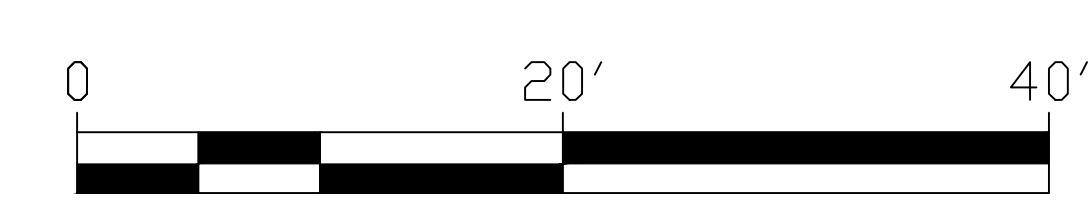
CCTV
 INTERIOR CAMERA
 3-C-05-05 1/1A
 DTL: SE-706
 CLOSET: IDF-4

CCTV
 INTERIOR CAMERA
 3-C-06-06 1/1A
 DTL: SE-706
 CLOSET: IDF-4

MS
 MOTION SENSOR
 3-15-02-23 1/1A
 DTL: SE-705
 IDF-3 2nd Fl.

CCTV
 INTERIOR CAMERA
 3-C-07-07 1/1A
 DTL: SE-706
 CLOSET: IDF-4

6 THIRD FLOOR PLAN
 1/8" = 1'-0"



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Sheet Title
**SECURITY UPDATE PROJECT
 THIRD FLOOR**

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| Job No. | 2019-1026 | Date | 08/31/2020 |
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| Sheet Number | SE-105 | | |

NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

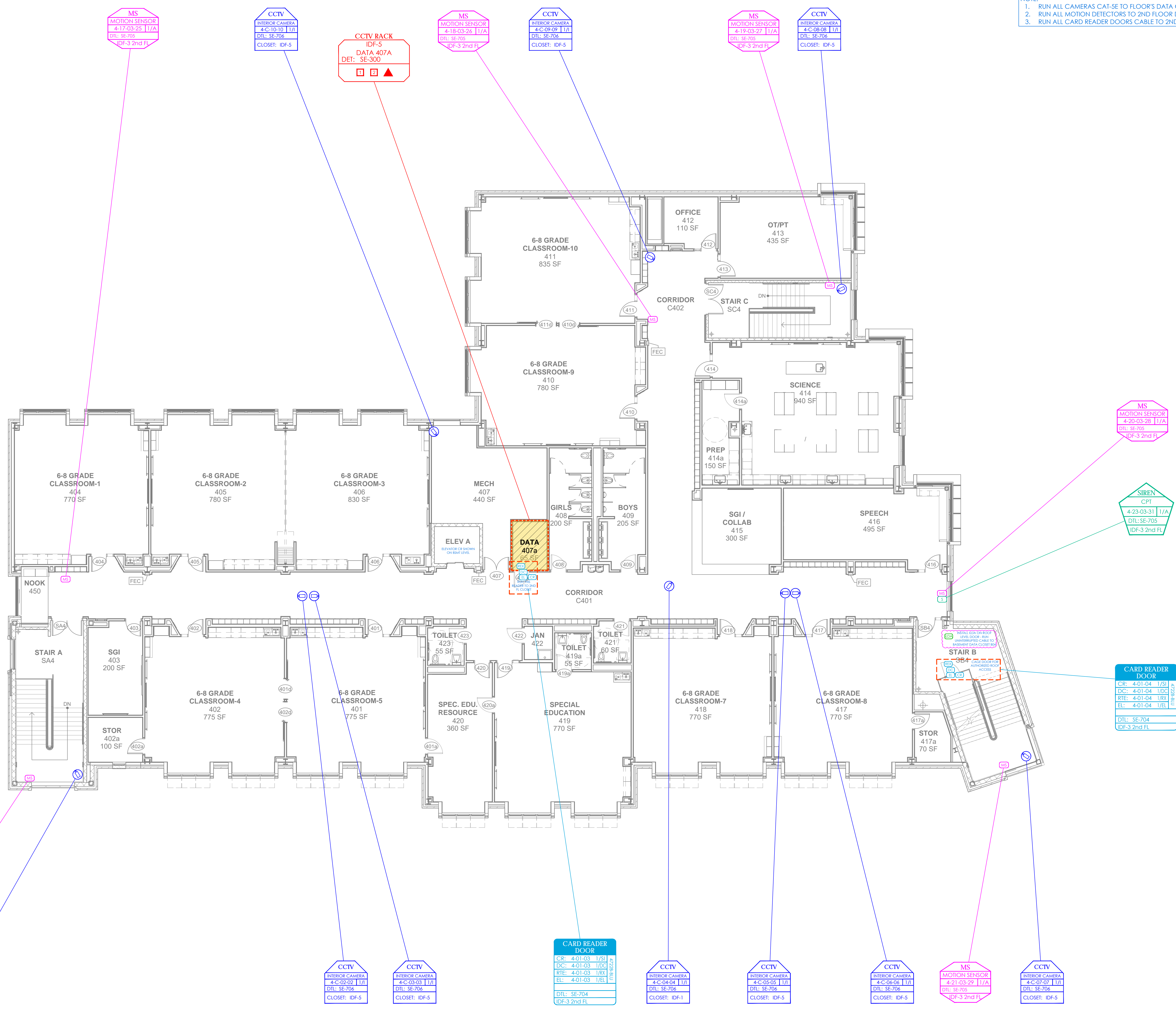
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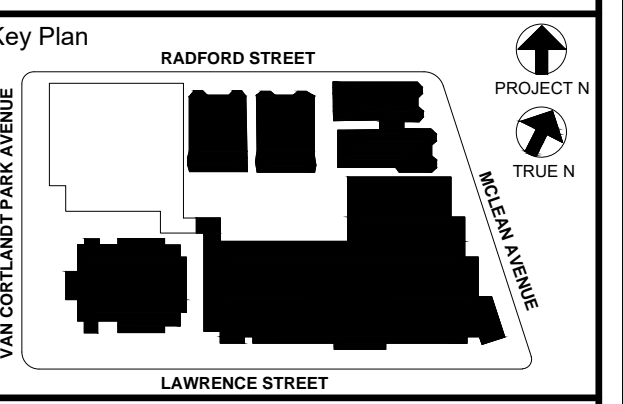
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

- NOTE:
1. RUN ALL CAMERAS CAT-5E TO FLOOR'S DATA CLOSET
 2. RUN ALL MOTION DETECTORS TO 2ND FLOOR DATA CLOSET
 3. RUN ALL CARD READER DOORS CABLE TO 2ND FLOOR CLOSET



7 FOURTH FLOOR PLAN
 1/8" = 1'-0"



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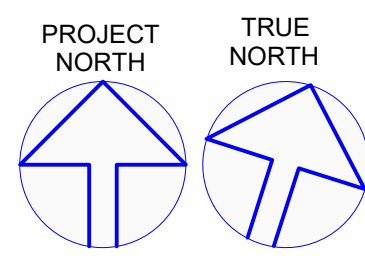
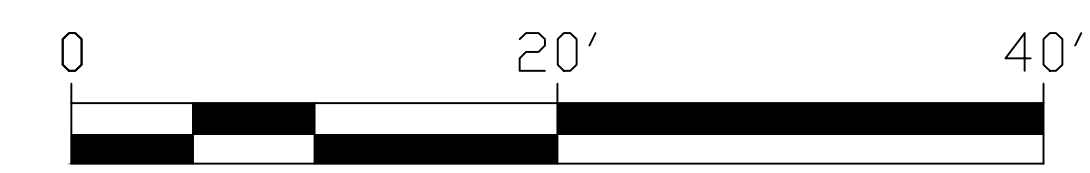
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| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
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Sheet Title
SECURITY UPDATE PROJECT FOURTH FLOOR

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|-------------------|-----------------|
| Job No. 2019-1026 | Date 08/31/2020 |
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| Sheet Number | |

SE-106



NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

121 McLean Avenue
Yonkers, NY 10705

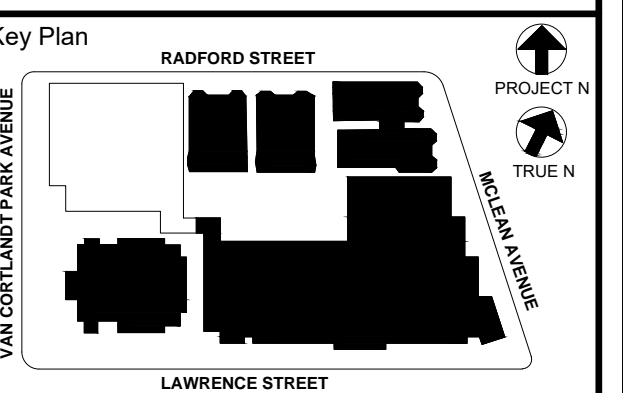


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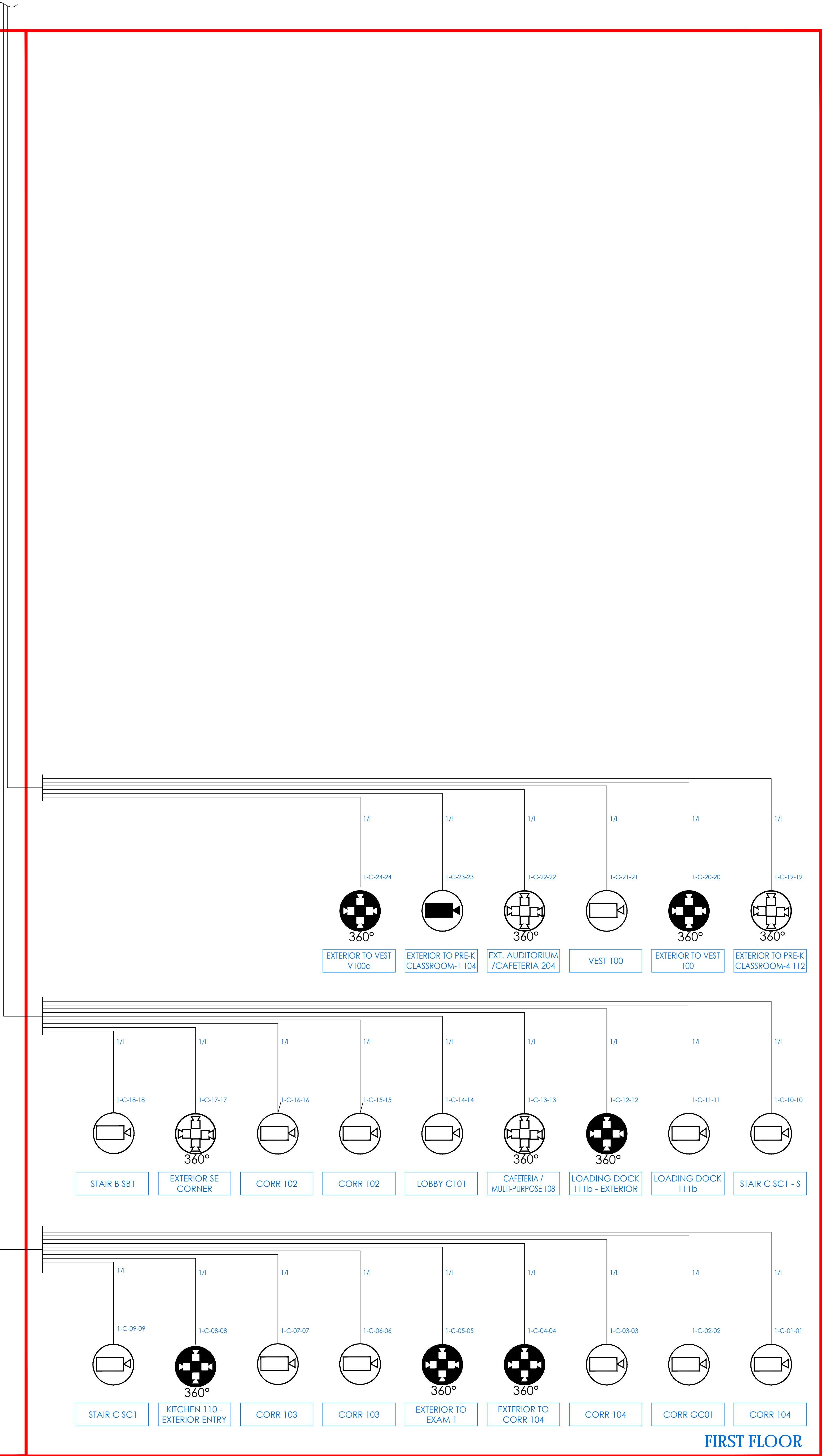
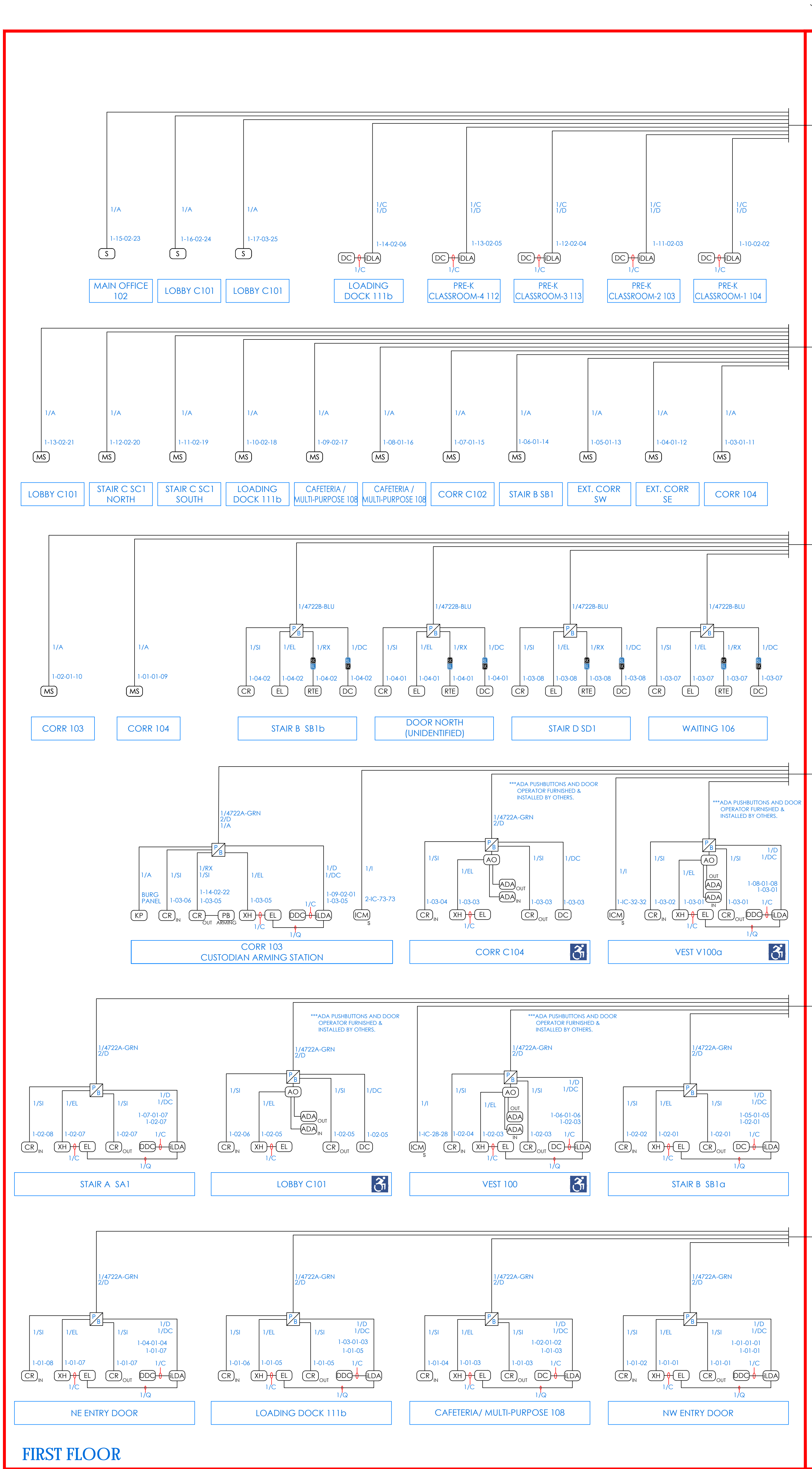
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| No. | Date | Issue |

SECURITY RISER DIAGRAM FIRST FLOOR

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| Job No. | 2019-1026 | Date | 08/31/2020 |
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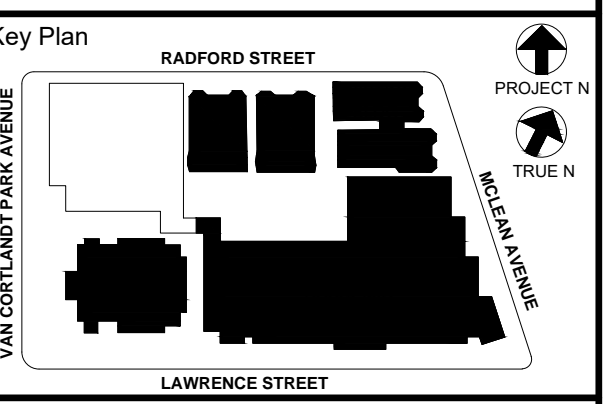


NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

YONKERS JOINT SCHOOLS
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001



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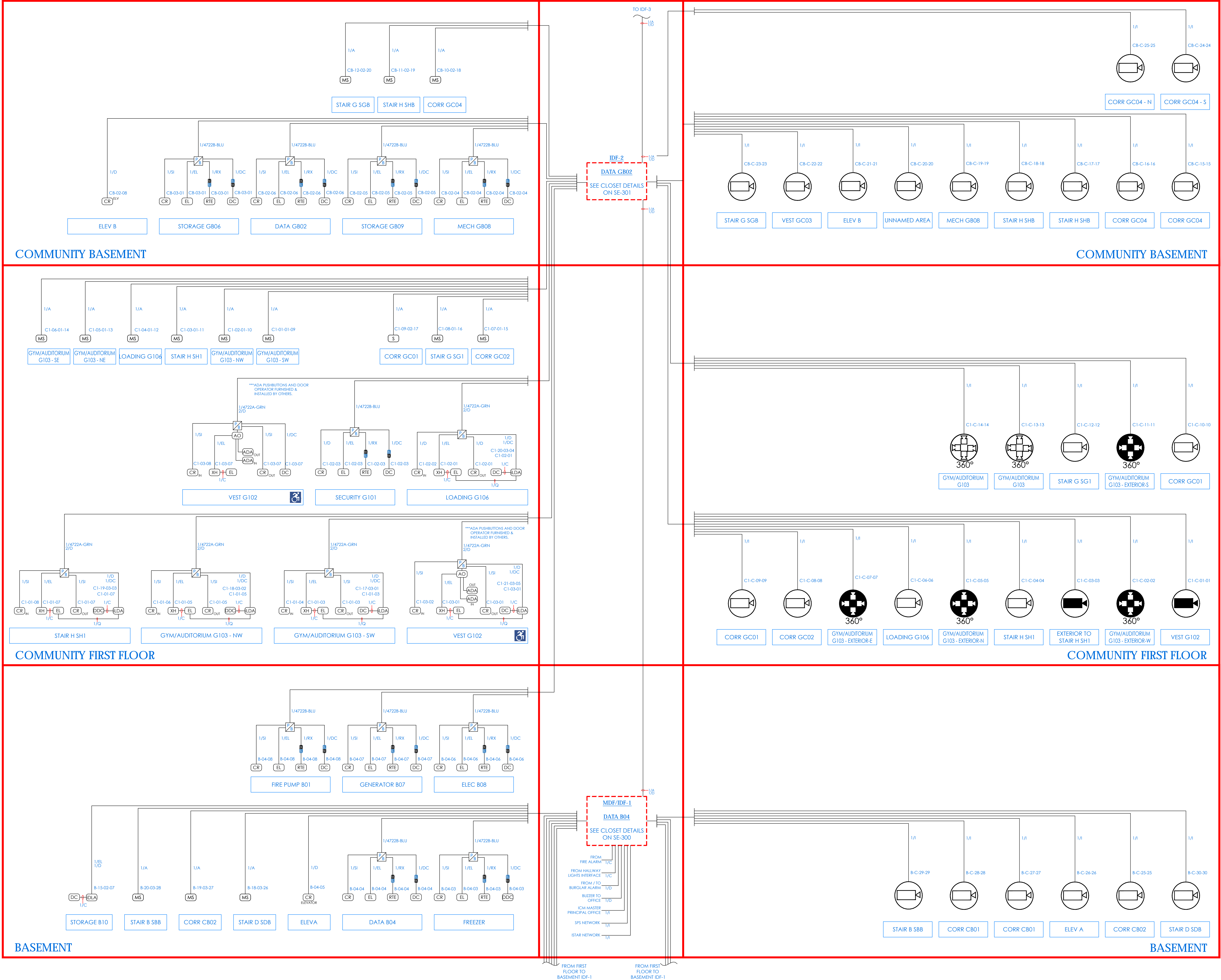
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SE-201



COMMUNITY BASEMENT

COMMUNITY BASEMENT

COMMUNITY FIRST FLOOR

COMMUNITY FIRST FLOOR

BASEMENT

BASEMENT

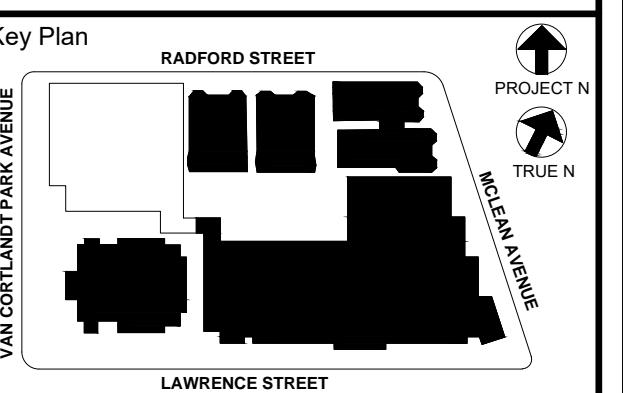
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| 3 | 07/14/2021 | CONSTRUCTION DOCS - NYSED |
| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |
| No. | Date | Issue |

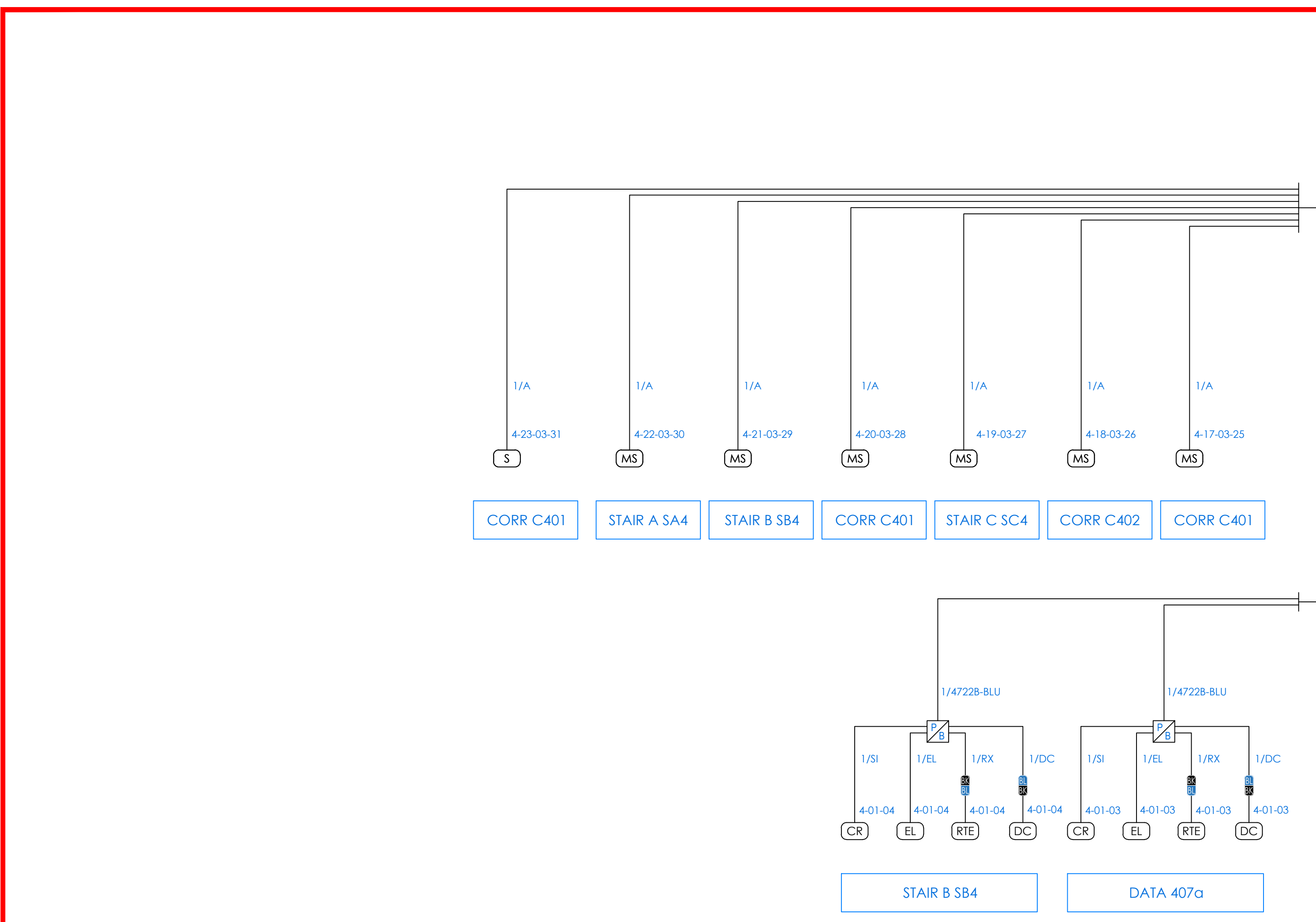
Sheet Title
**SECURITY RISER DIAGRAM
SECOND FLOOR,
THIRD FLOOR & FOURTH FLOOR**

Job No. 2019-1026 Date 08/31/2020

Scale: AS NOTED Drawn / Checked

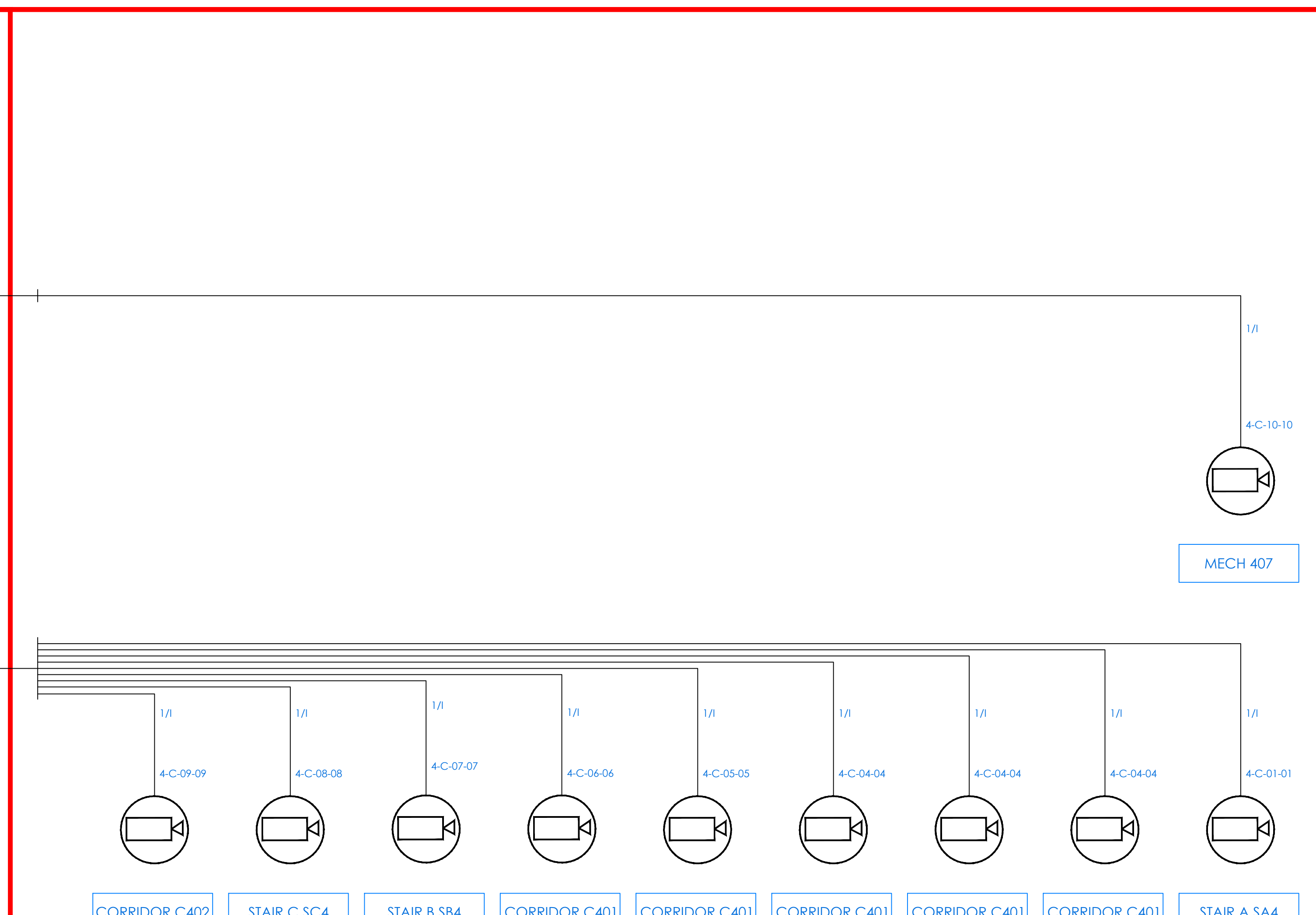
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SE-202

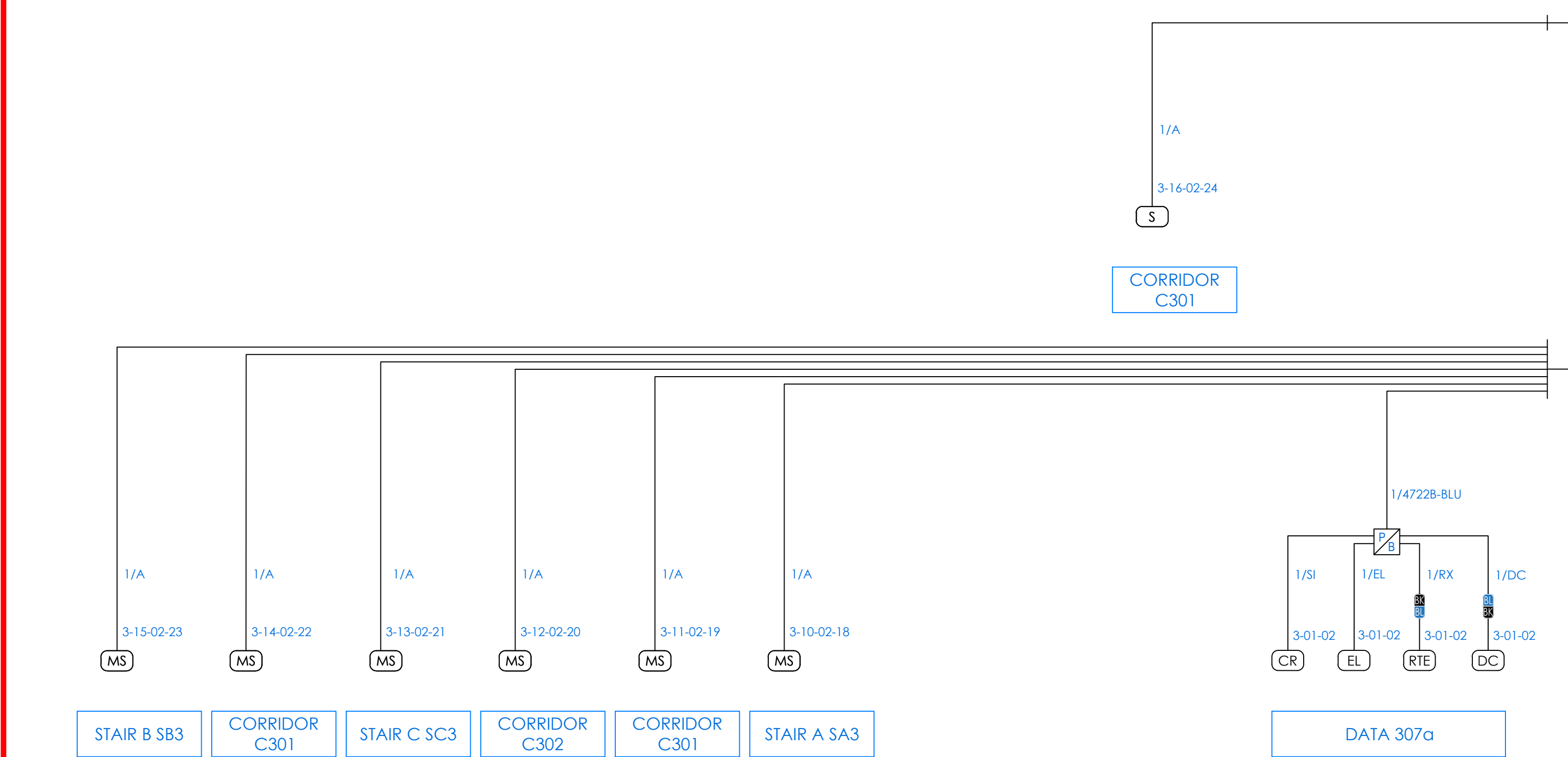


FOURTH FLOOR

IDF-5
DATA 407A
SEE CLOSET DETAILS ON SE-302

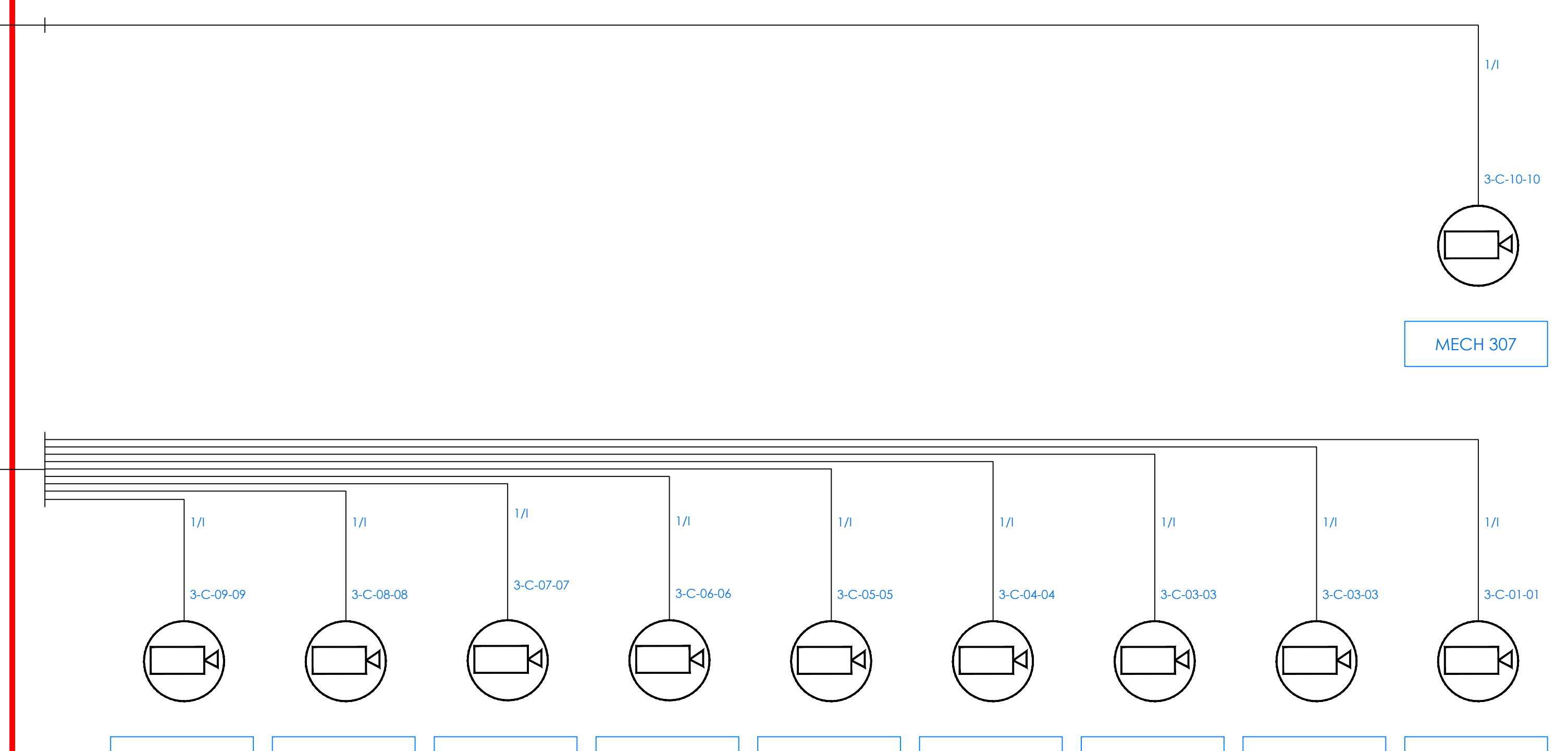


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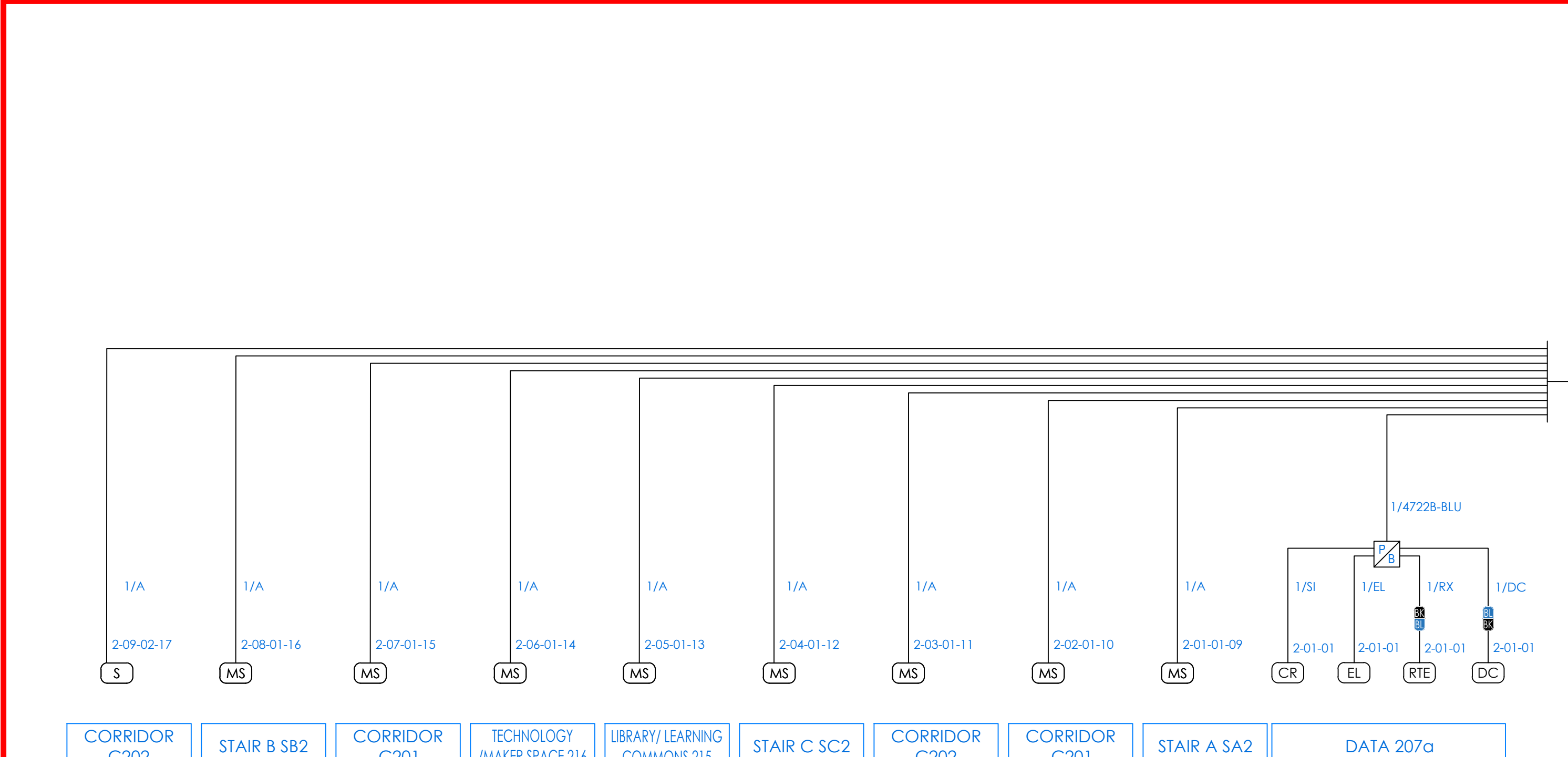


THIRD FLOOR

IDF-4
DATA 307A
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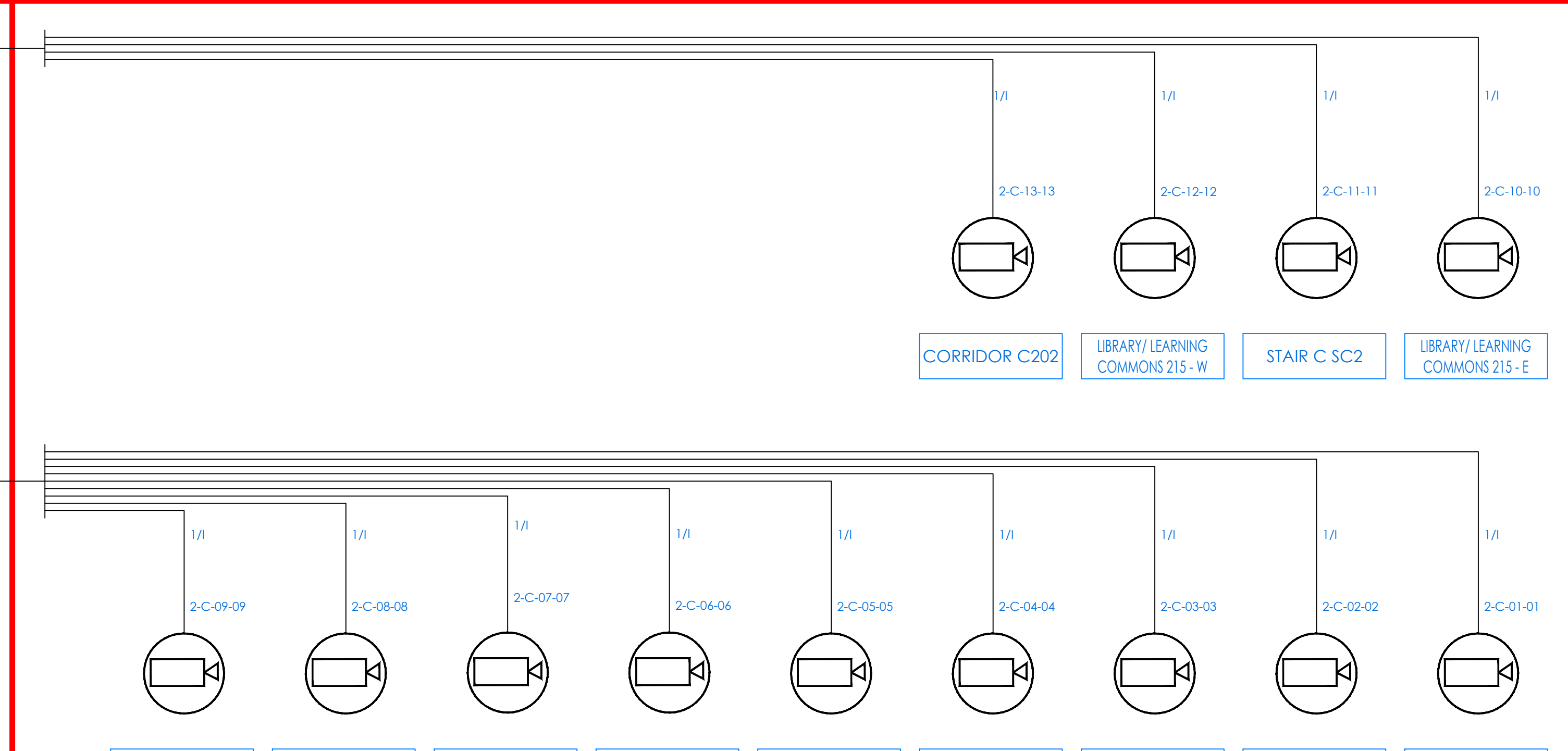


THIRD FLOOR



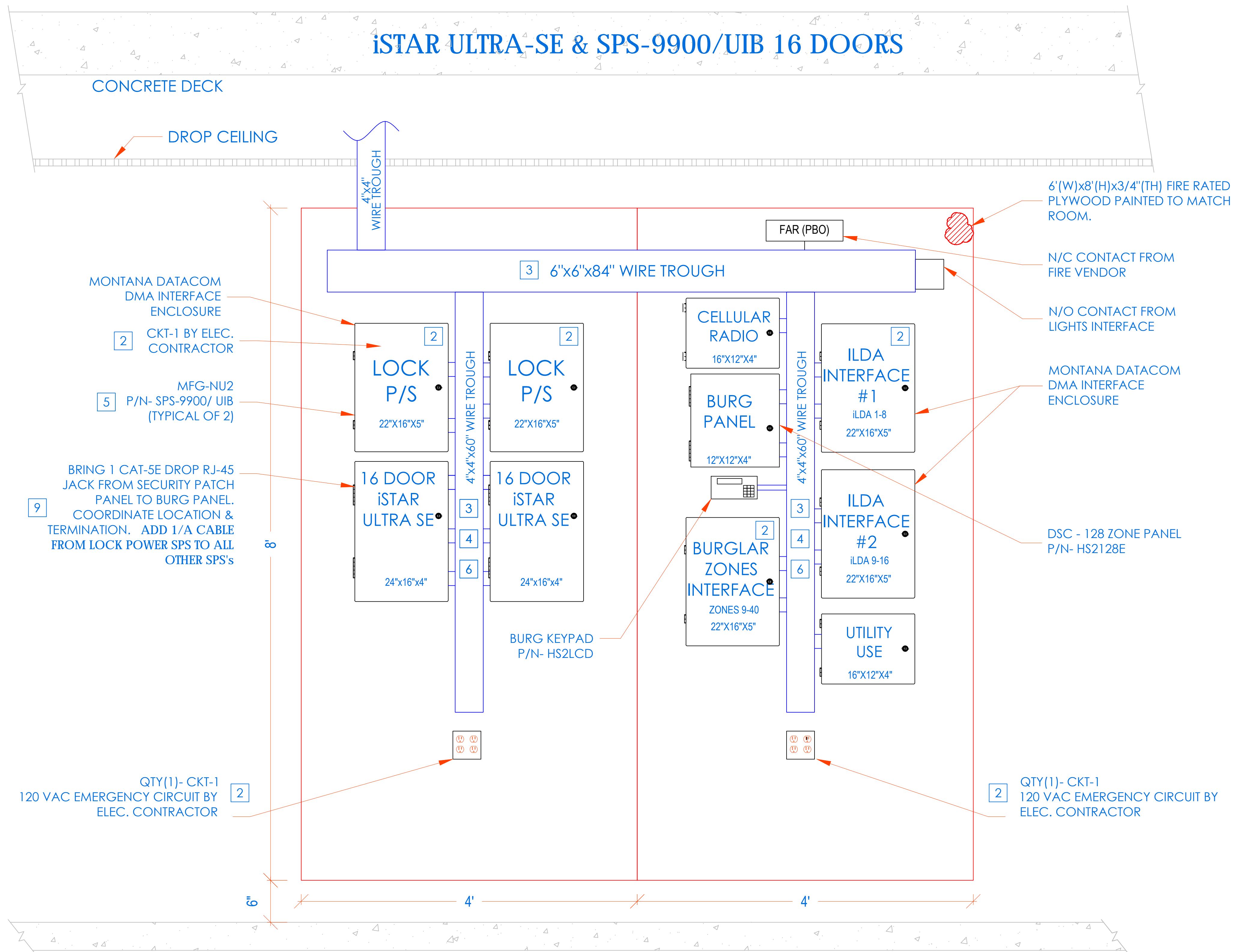
SECOND FLOOR

IDF-3
DATA 207A
SEE CLOSET DETAILS ON SE-302



SECOND FLOOR

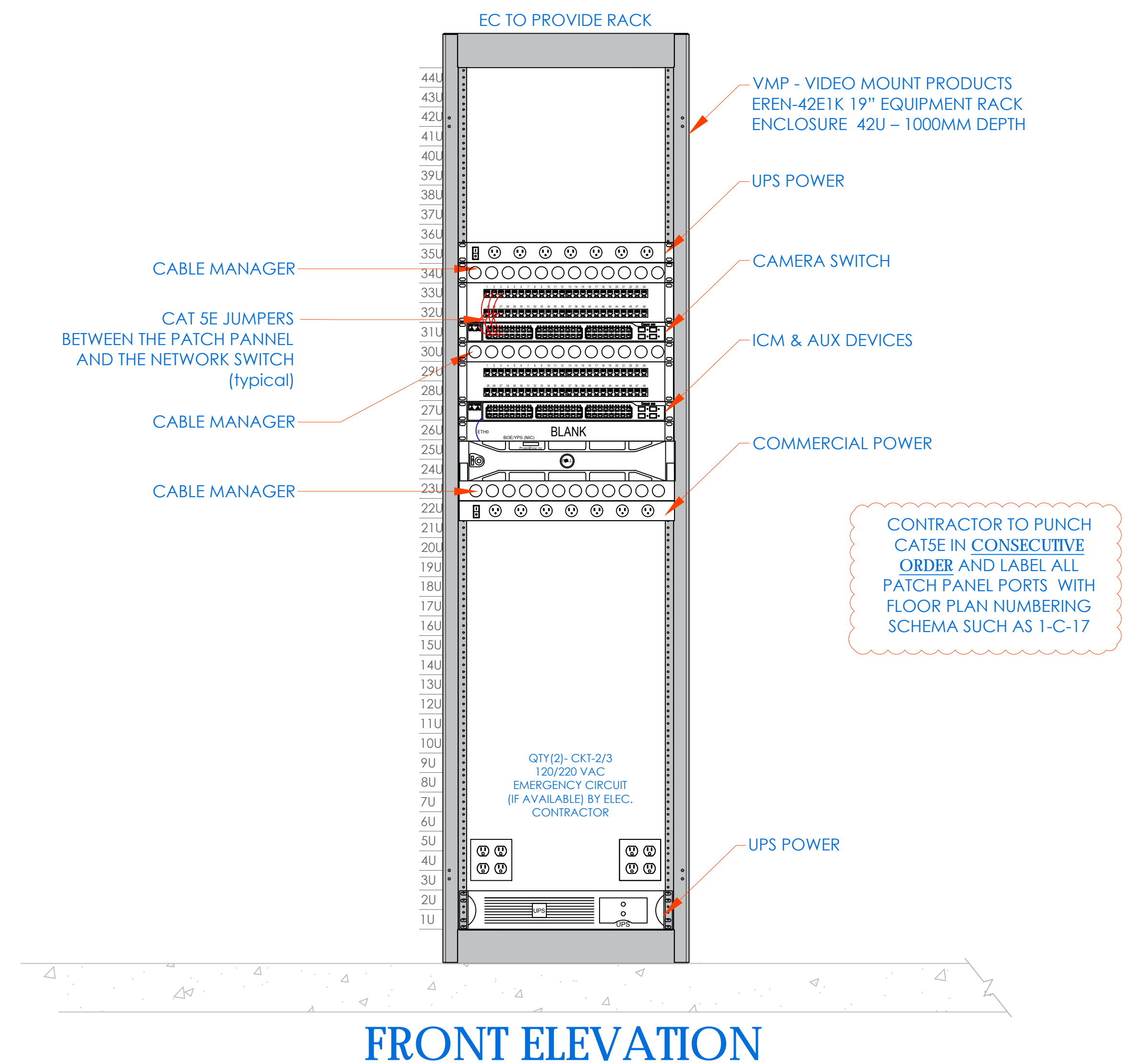
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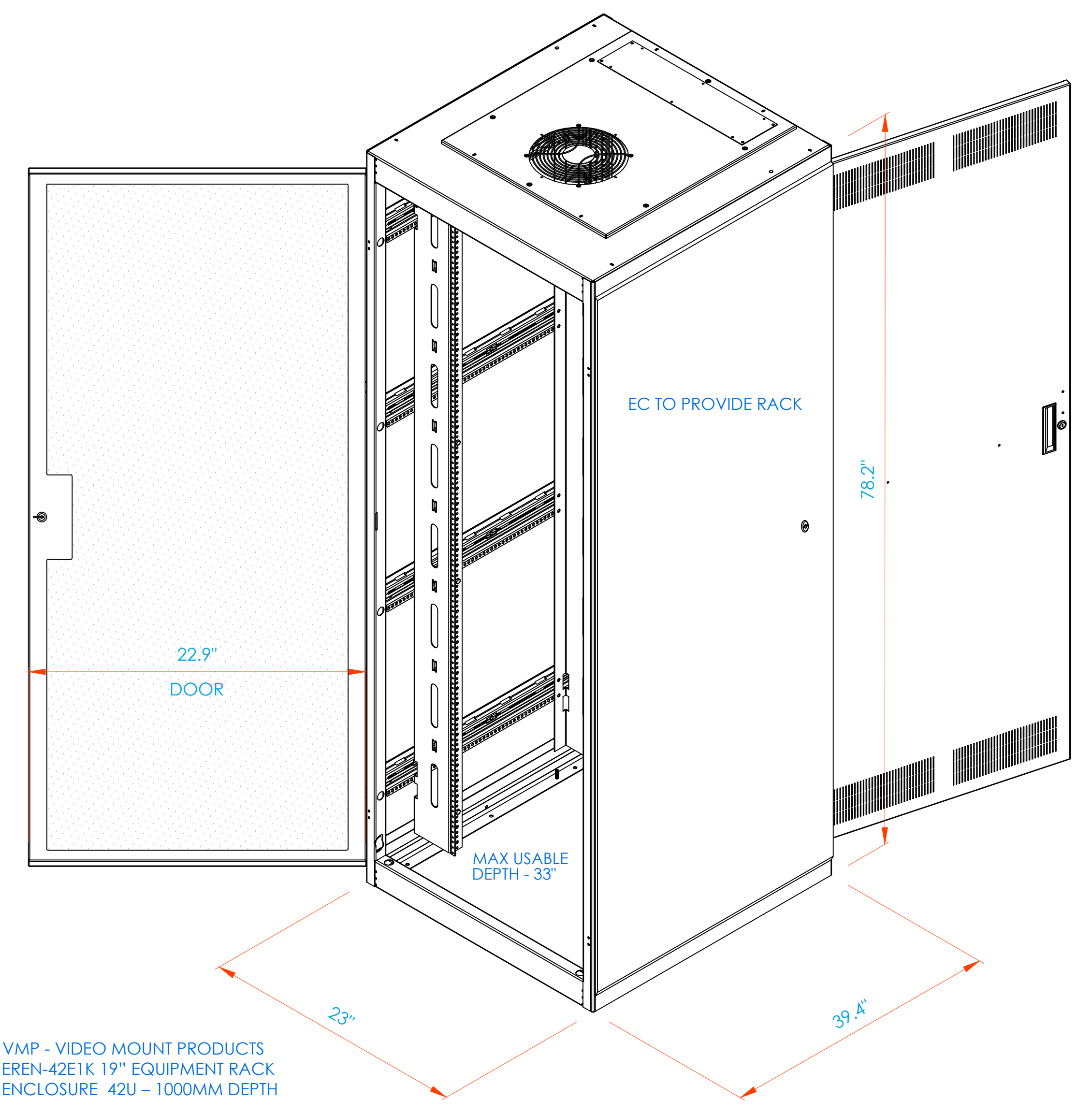
INSTALLATION PROCEDURE
iSTAR ULTRA SE WITH SPS-9900/ UIB ACCESS CONTROL HEADEND

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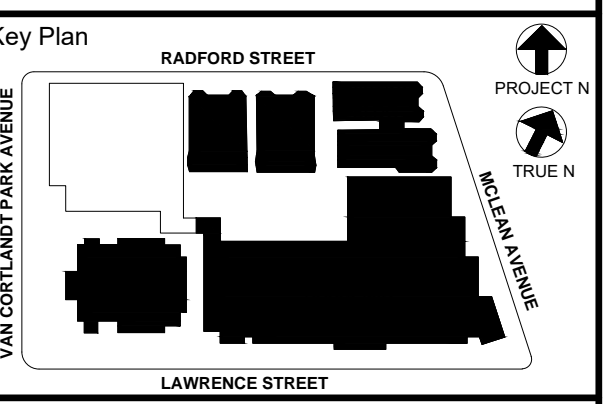
CCTV NETWORK RACK



FRONT ELEVATION



RACK - 3D VIEW



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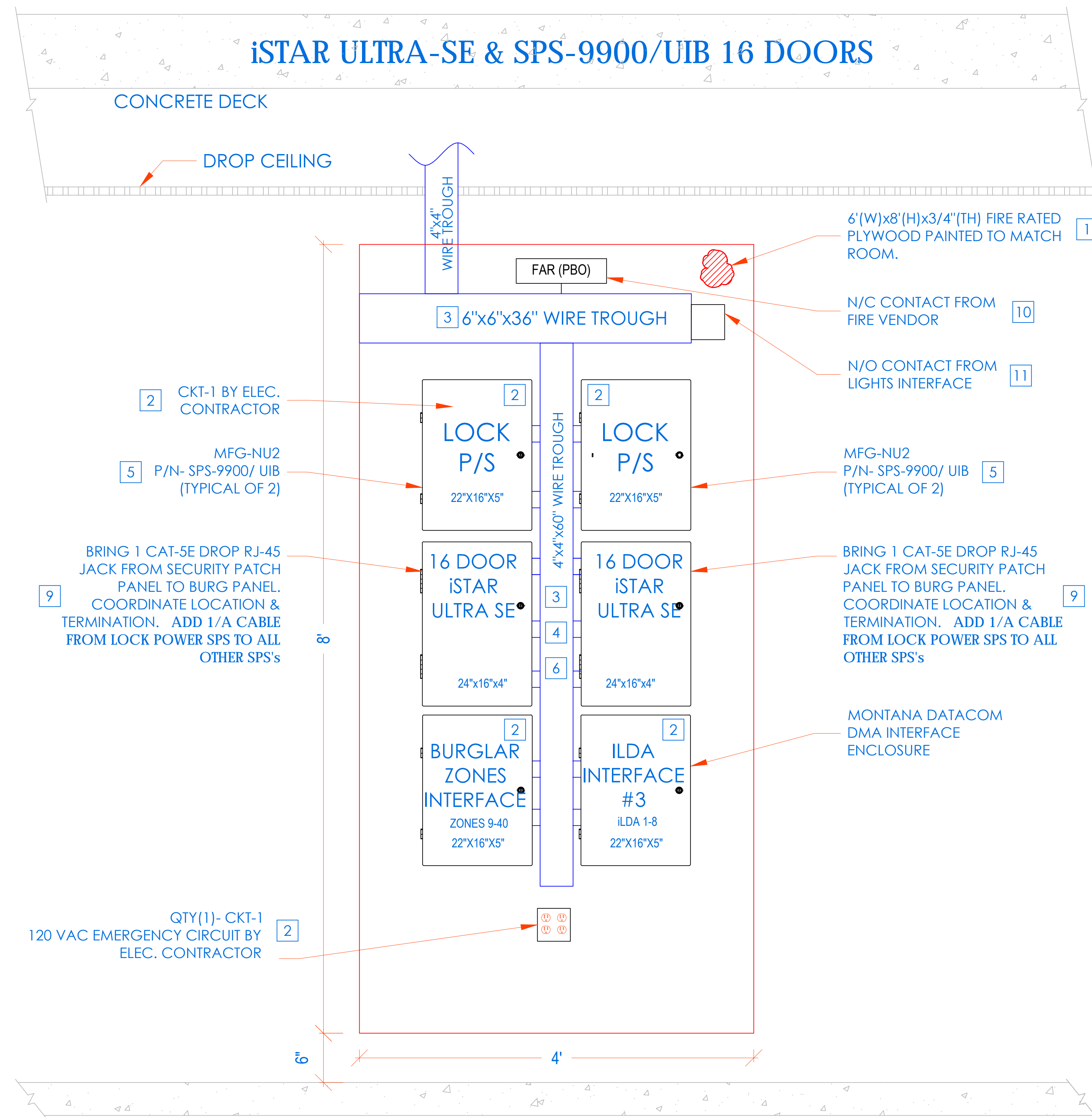
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| 1 | 08/31/2020 | SCHEMATIC DESIGN |

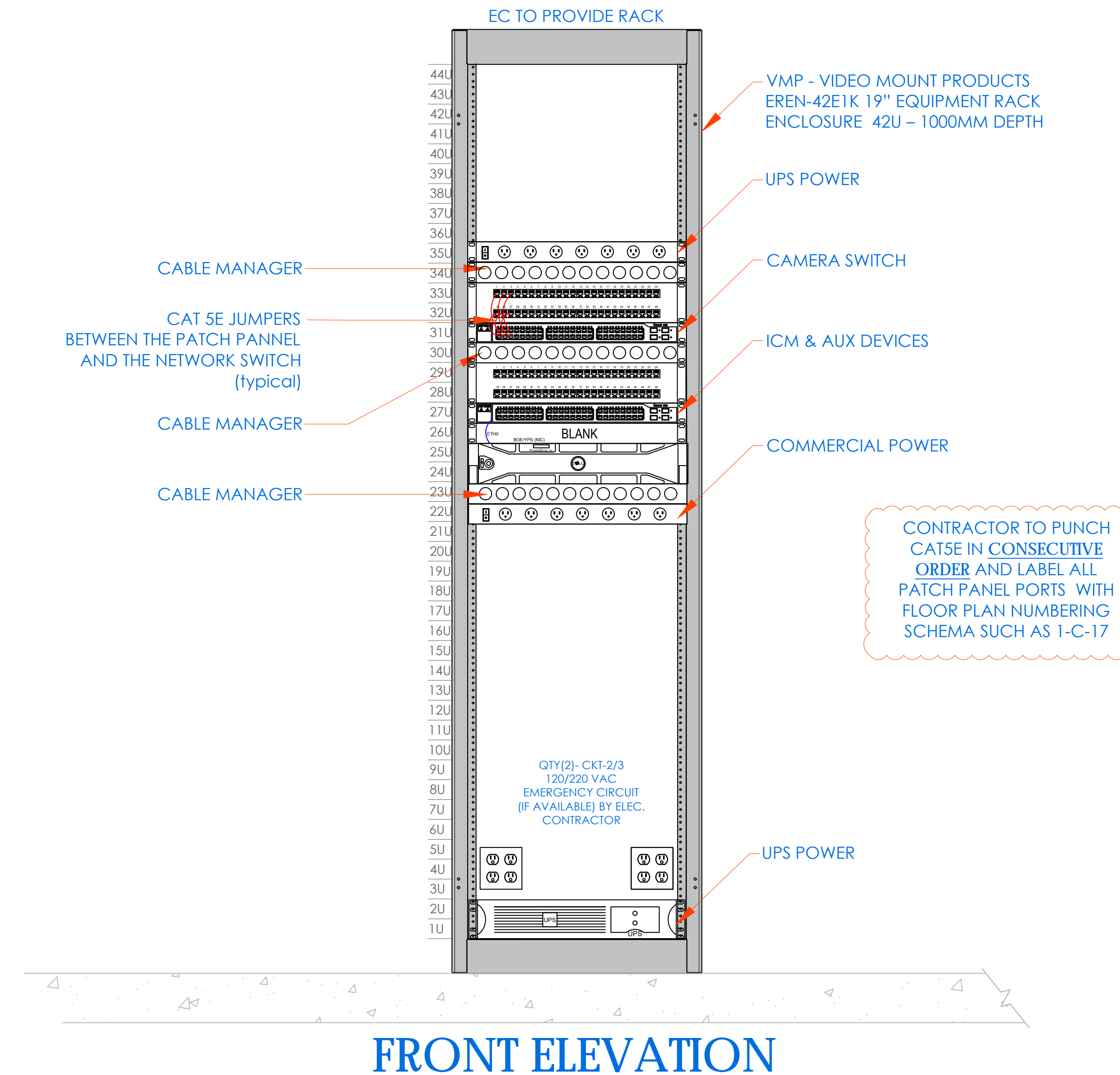
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| Job No. | Date |
| 2019-1026 | 08/31/2020 |
| Scale: | Drawn / Checked |
| AS NOTED | |
| Sheet Number | SE-300 |



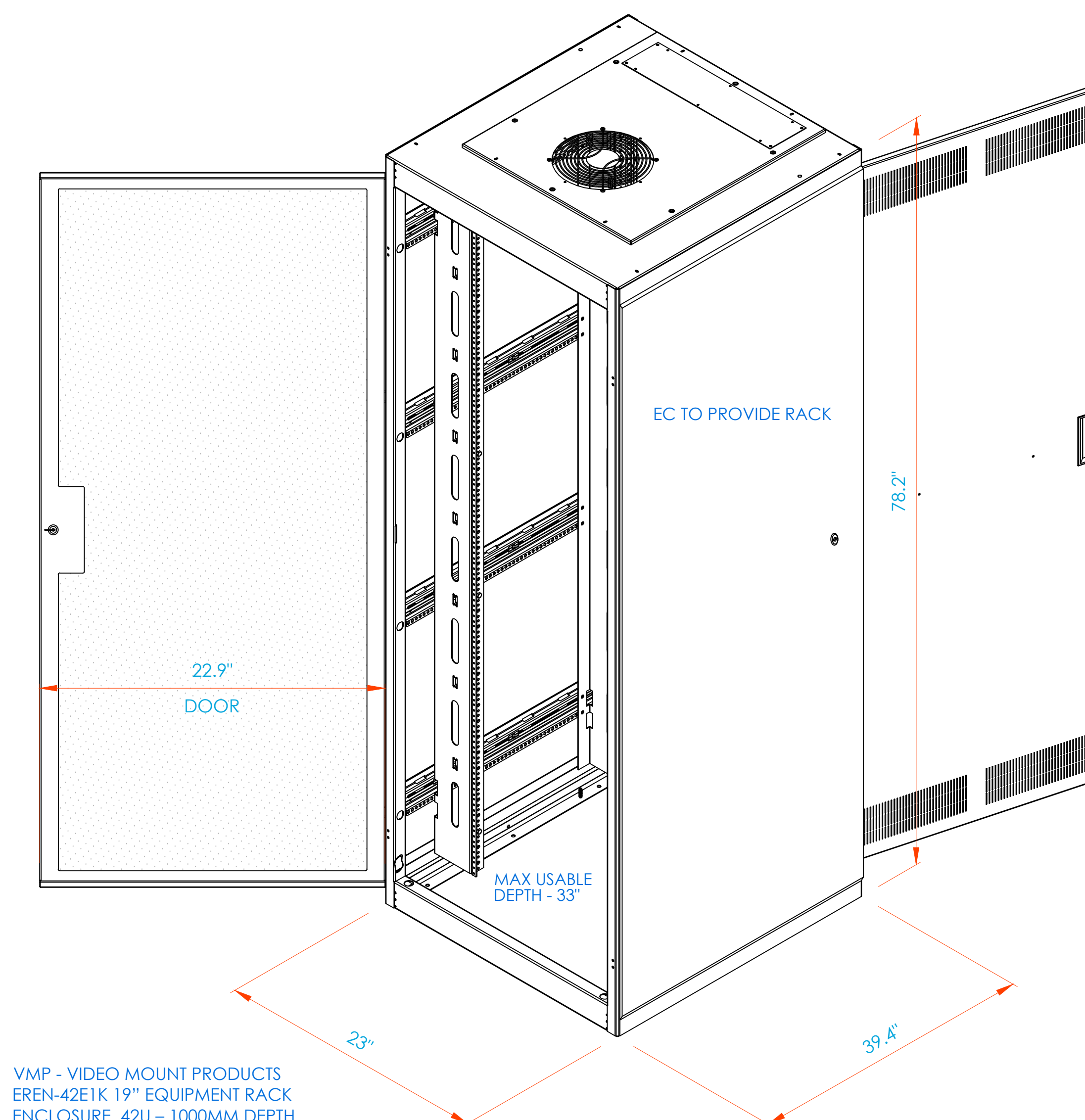
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CCTV NETWORK RACK



FRONT ELEVATION



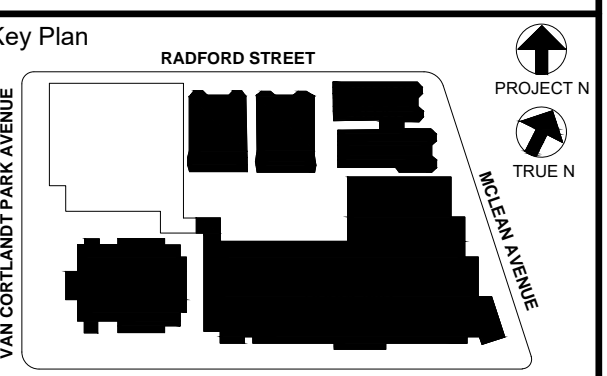
RACK - 3D VIEW

**NEW COMMUNITY
SCHOOL 35 AT ST
DENIS SITE**
YONKERS JOINT SCHOOLS
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

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imagine
build
ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P-914.688.5000 KGDARCHITECTS.COM

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603
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66-23-00-01-0-346-001



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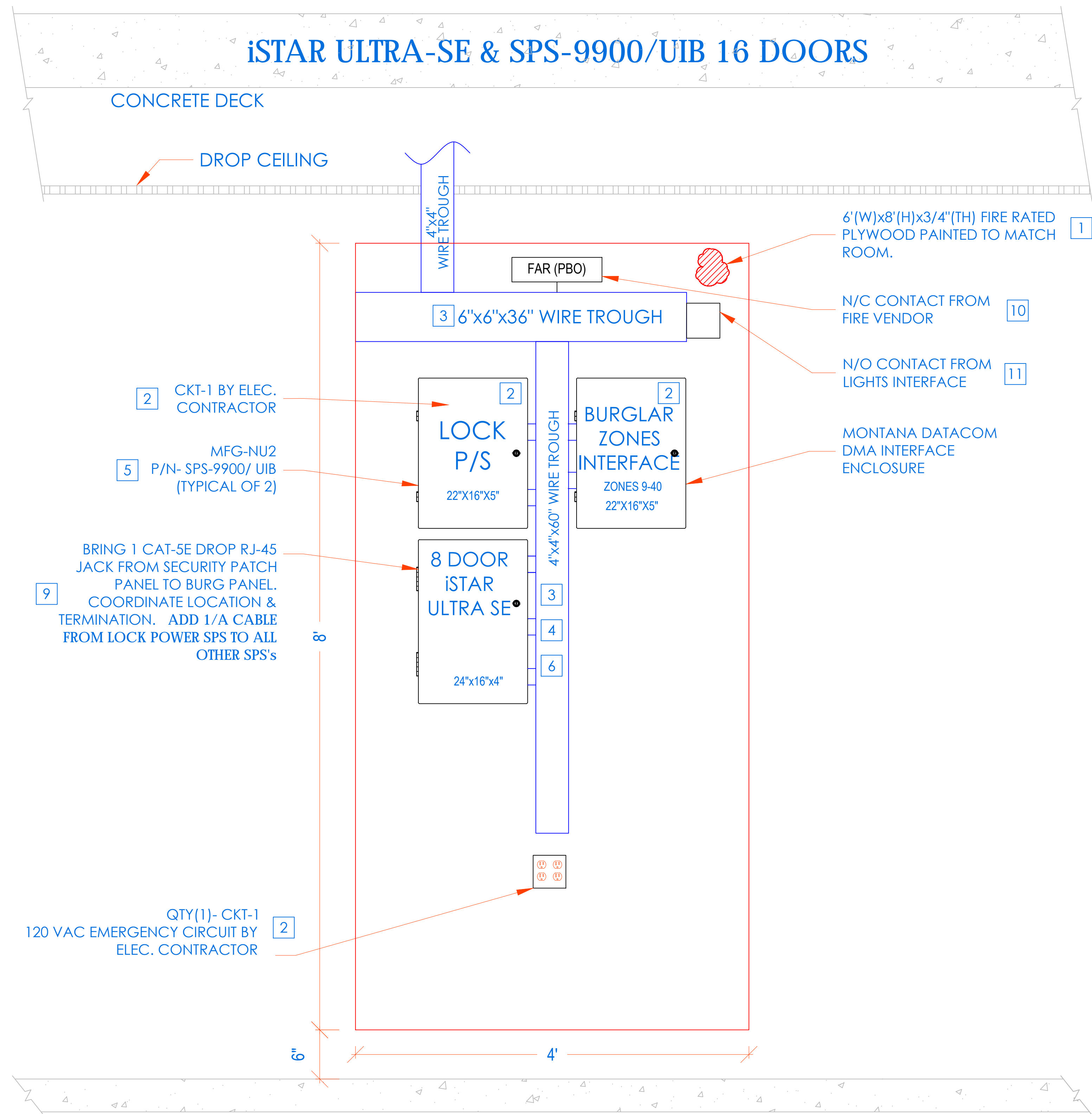
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| 1 | 08/31/2020 | SCHEMATIC DESIGN |

Sheet Title
**CLOSET ELEVATIONS
COMMUNITY BASEMENT
IDF-2**

Job No. 2019-1026 Date 08/31/2020
Scale: AS NOTED Drawn / Checked

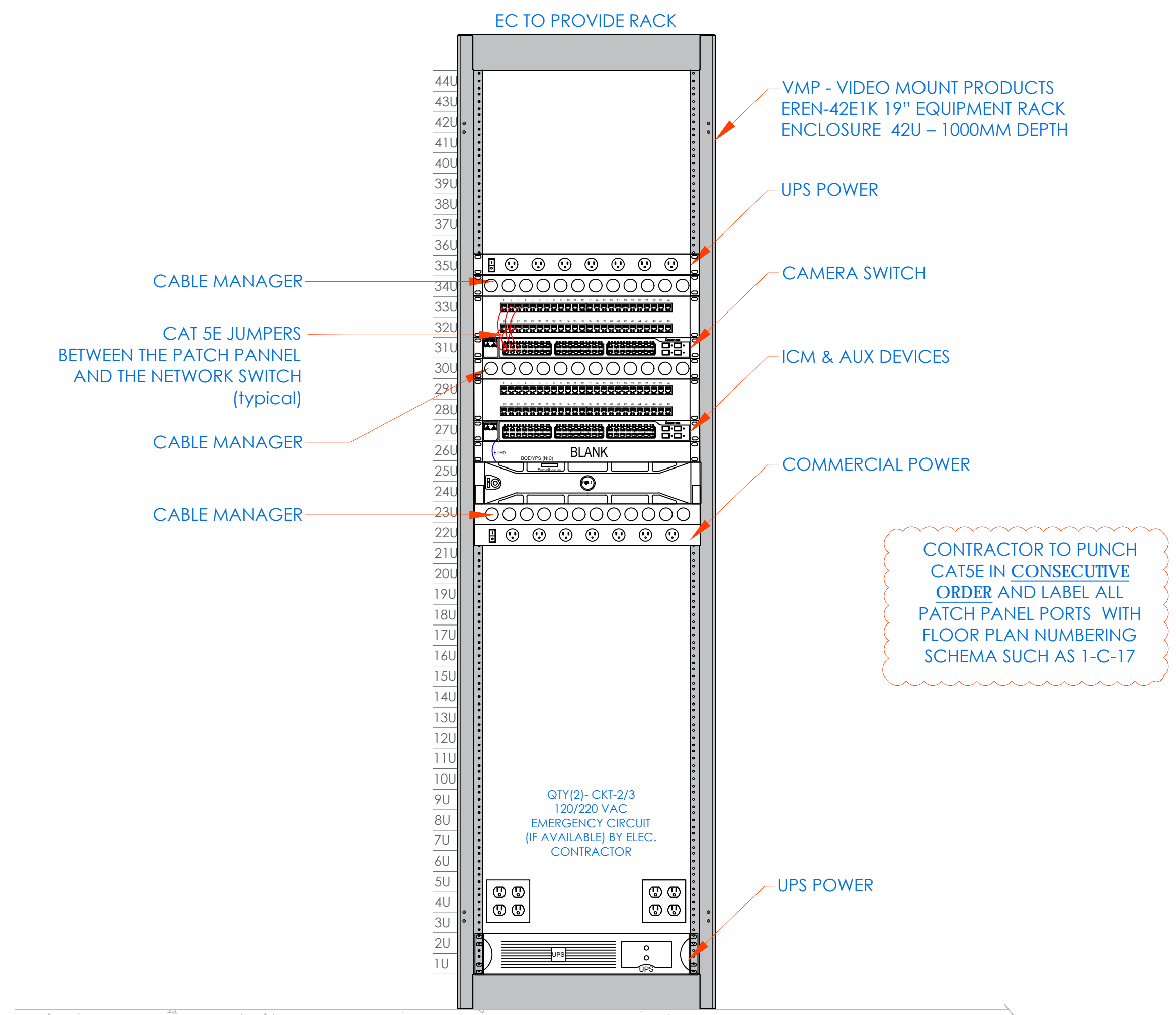
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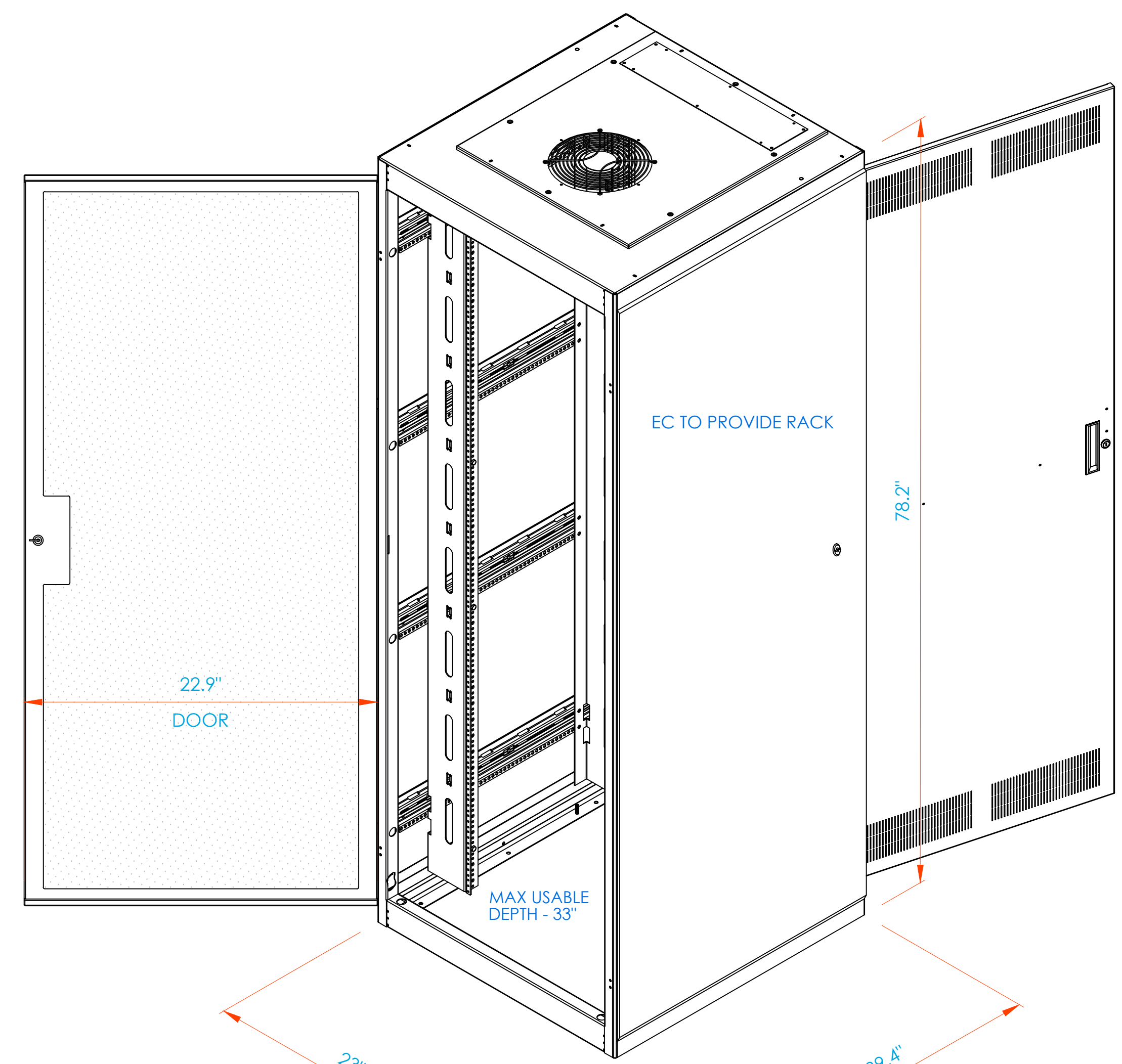
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CCTV NETWORK RACK



FRONT ELEVATION



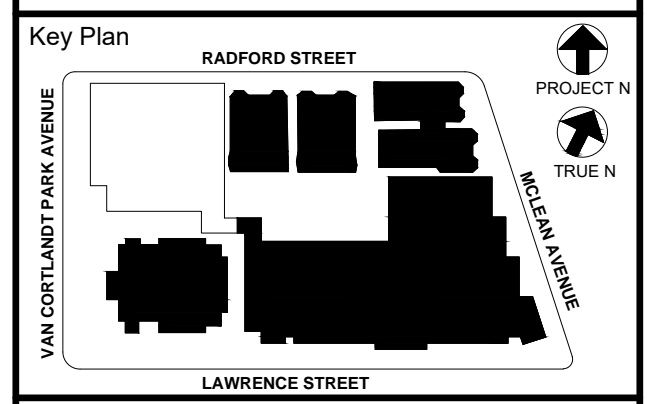
RACK - 3D VIEW

NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE
YONKERS JOINT SCHOOLS CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

KG+D listen imagine build
ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P:914.668.5900 KGDARCHITECTS.COM

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603
SECURITY SYSTEMS

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66-23-00-01-0-346-001



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| No. | Date | Issue |

Sheet Title
**CLOSET ELEVATIONS
SECOND FLOOR
IDF-3**

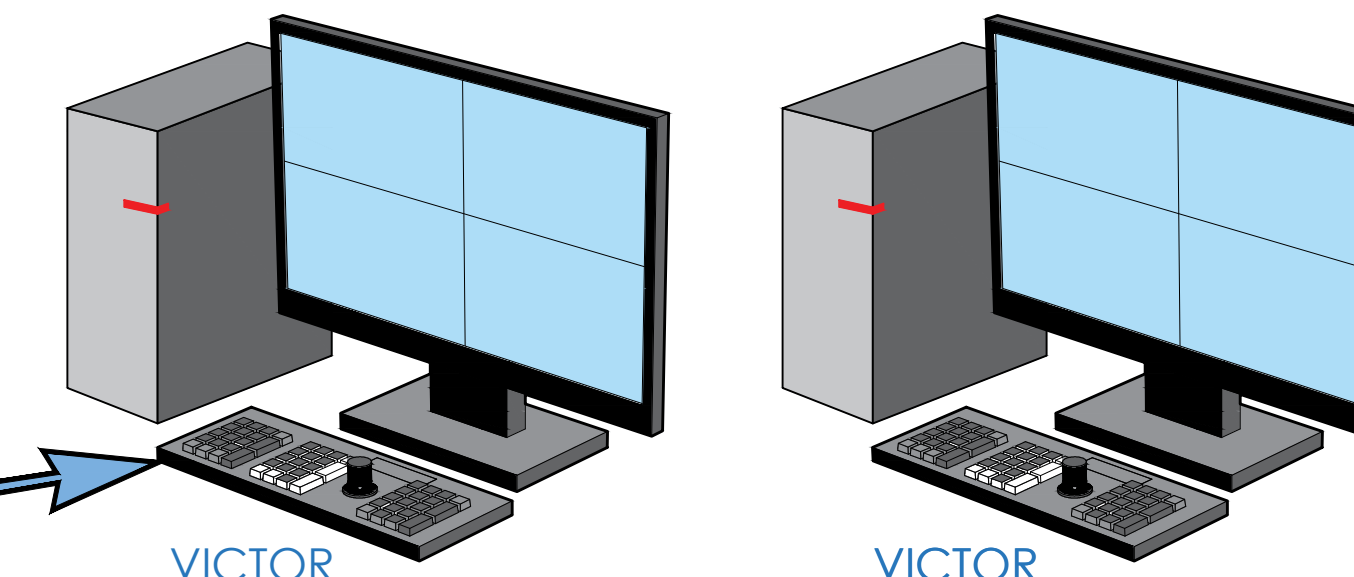
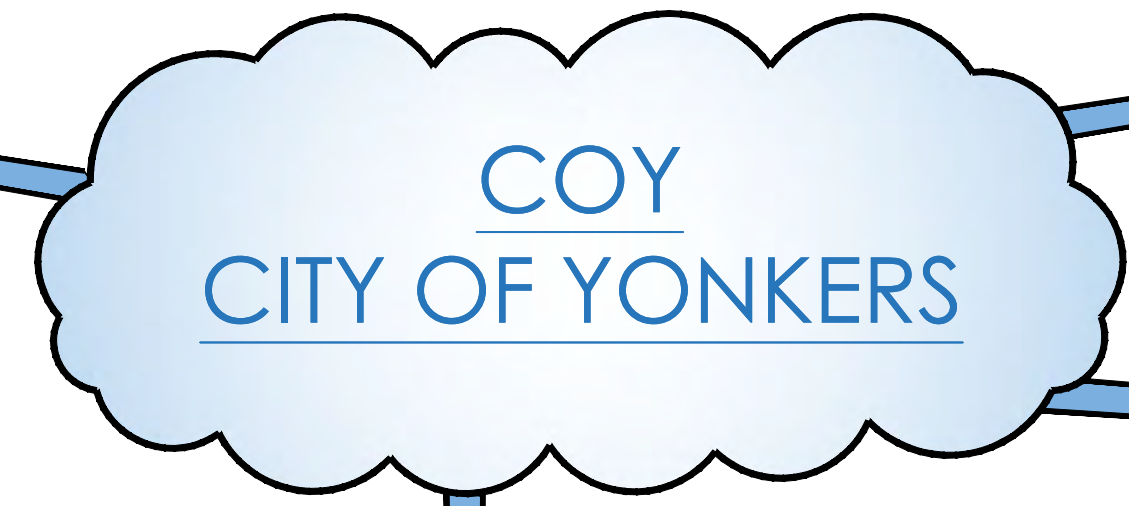
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| Job No. | 2019-1026 | Date | 08/31/2020 |
| Scale: | AS NOTED | Drawn / | Checked |
| Sheet Number | SE-302 | | |

COY-BOE SECURITY DEVICE NETWORK TOPOLOGY

CCURE / VICTOR DB

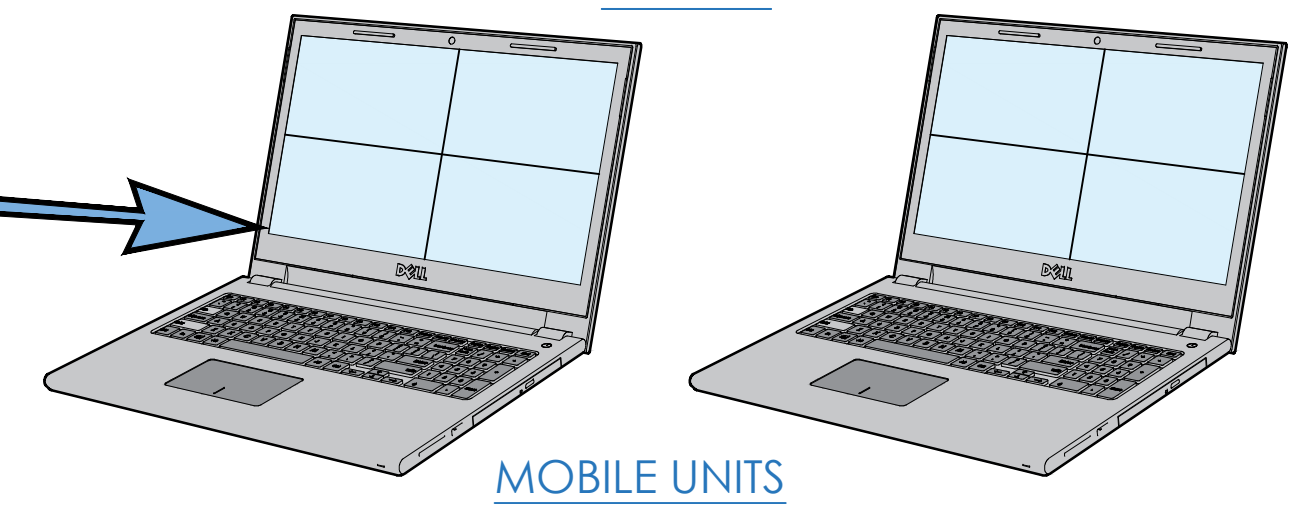


COY CITY OF YONKERS



VICTOR CLIENT

VICTOR CLIENT

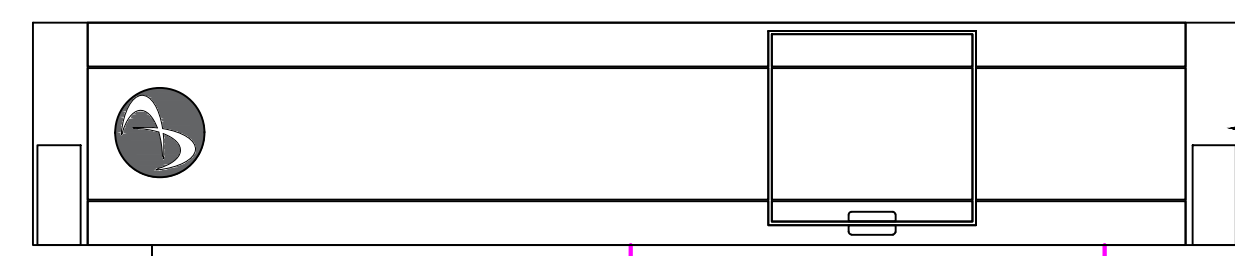


MOBILE UNITS

911

* TO UTILIZE VICTOR FOR MAX FUNCTIONALITY USERS WILL CONNECT TO COY UNIFIED SERVER

AMERICAN DYNAMICS NVR

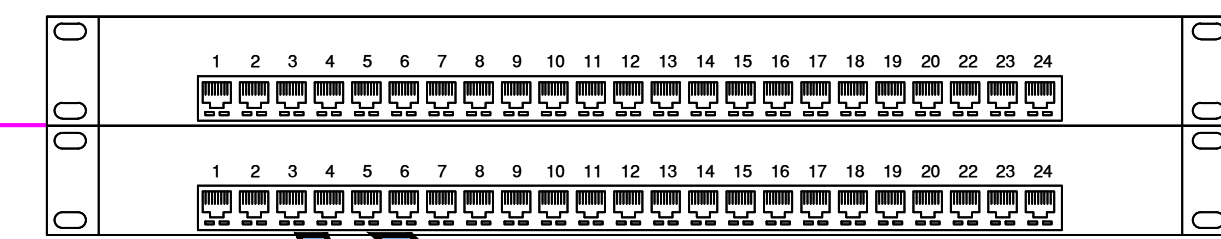


ETH0 COY NETWORK

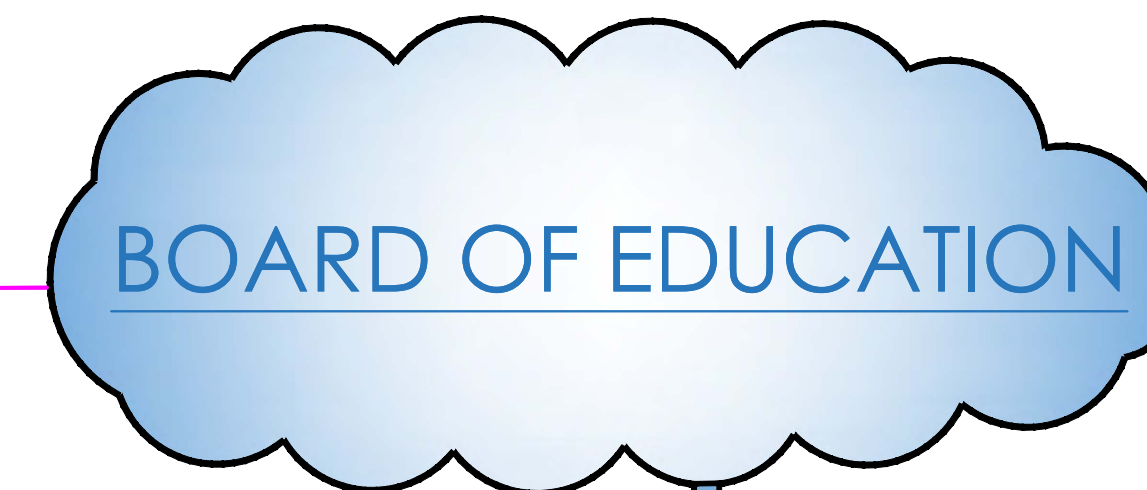
ETH1 BOE NETWORK

ETH2 CAMERA NETWORK

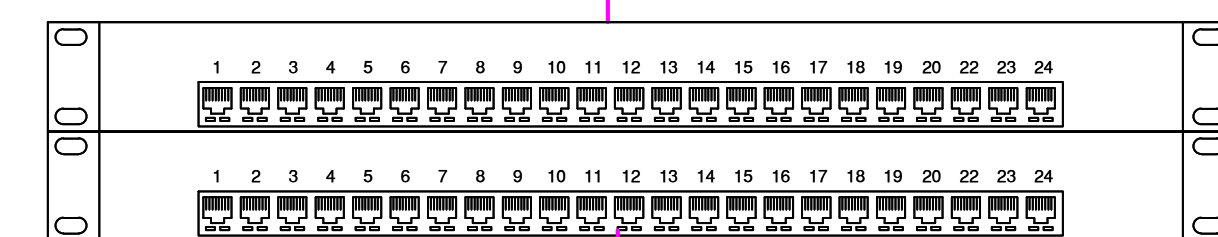
SCHOOL SWITCH



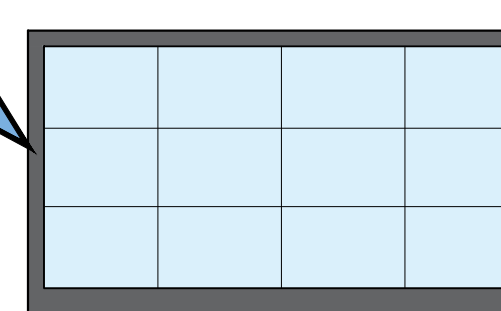
BOARD OF EDUCATION



CAMERA SWITCH 1



47" WALL MOUNTED PRINCIPAL'S OFFICE

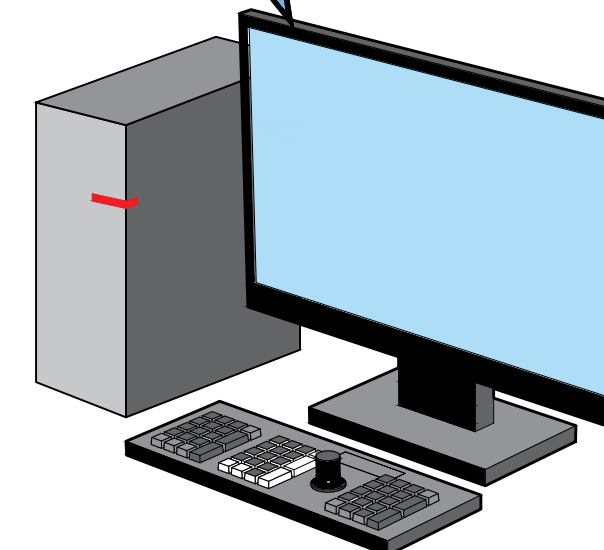


KBD & MOUSE

ATLONA X2

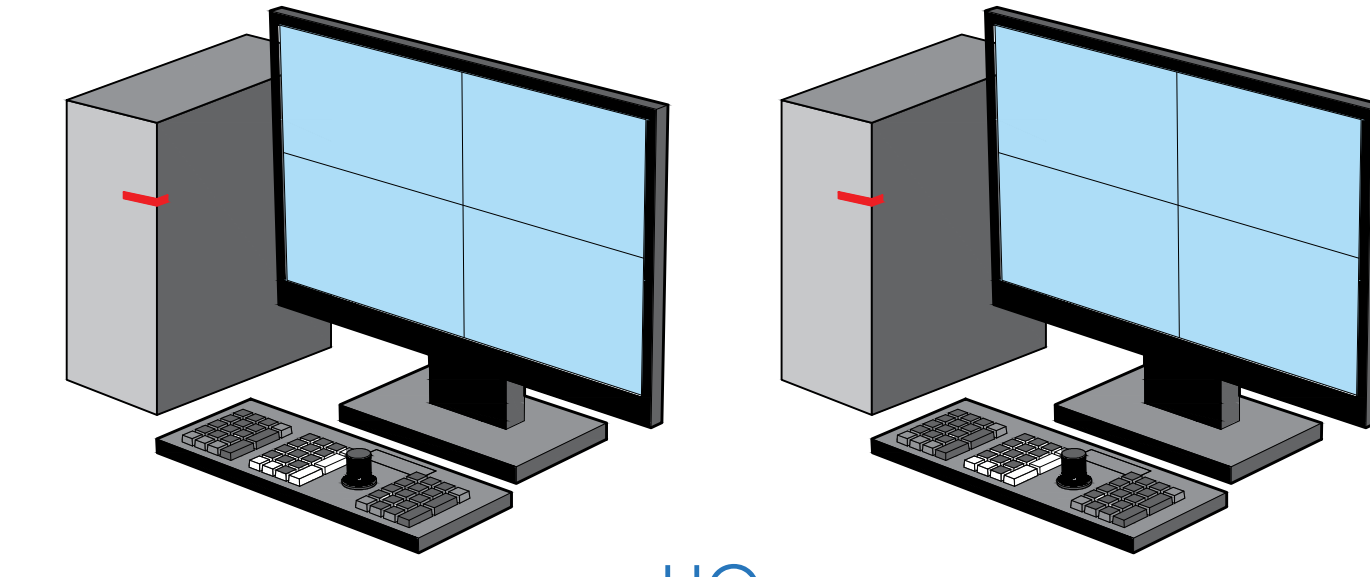
VICTOR CLIENT

VICTOR MONITORING CLIENT

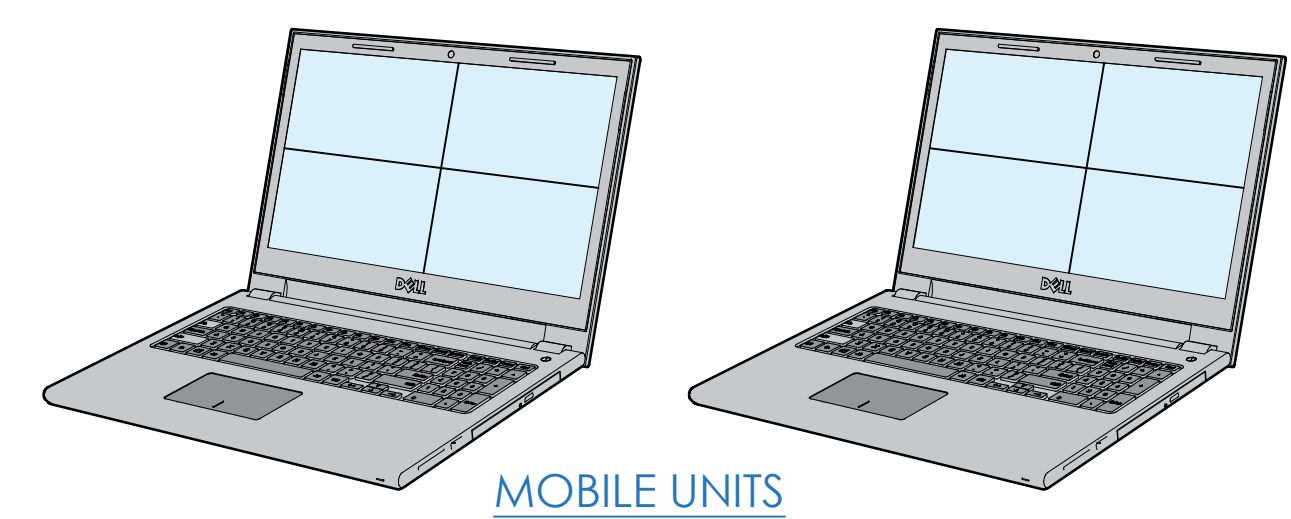


PRINCIPAL'S DESK WEB CLIENT

VIDEO EDGE WEB CLIENT



HQ 1 LARKIN PLAZA



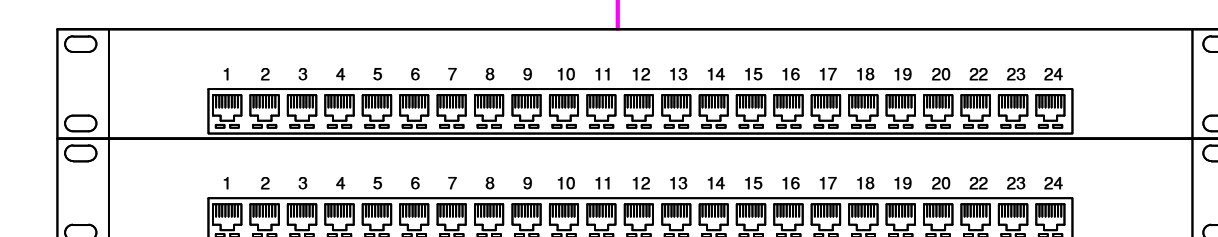
MOBILE UNITS

- TYPICAL
- C1 CAT-5 ; 10.100.xx.xxx
 - C2 CAT-5 ; 10.100.1.135
 - C3 CAT-5 ; 10.100.1.1XX
 - C4 CAT-5 ; 10.100.1.137

- TYPICAL
- C1 CAT-5 ; 10.100.1.134
 - C2 CAT-5 ; 10.100.1.135
 - C3 CAT-5 ; 10.100.1.1XX
 - C4 CAT-5 ; 10.100.1.137

FIBER CONNECTION OR DEDICATED CAT 6e

CAMERA SWITCH 2

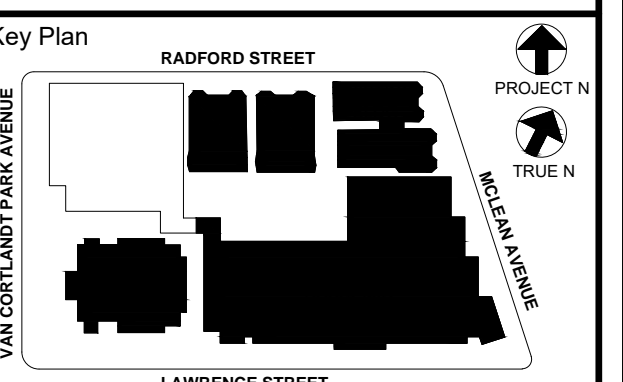


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Yonkers, NY 10705

KG+D listen imagine build
KG+D ARCHITECTS, PC
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001



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| 5 | 11/11/2021 | BID ADDENDUM #1 |
| 3 | 07/14/2021 | CONSTRUCTION DOCS - NYS&D |
| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |

Sheet Title
CCTV ONE LINE DIAGRAM

Job No. 2019-1026 Date 08/31/2020

Scale: AS NOTED Drawn / Checked

Sheet Number
SE-303

P-FORCE 1 - WIRING OF SPS/UIB

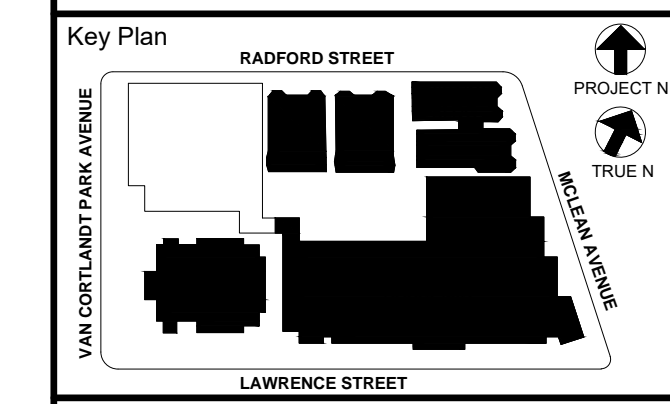
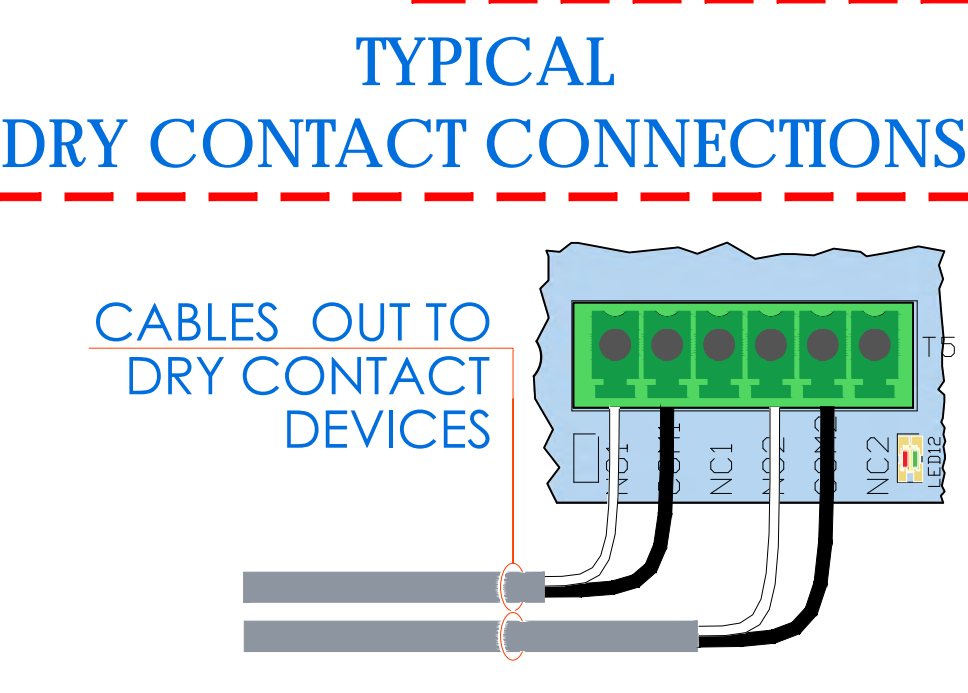
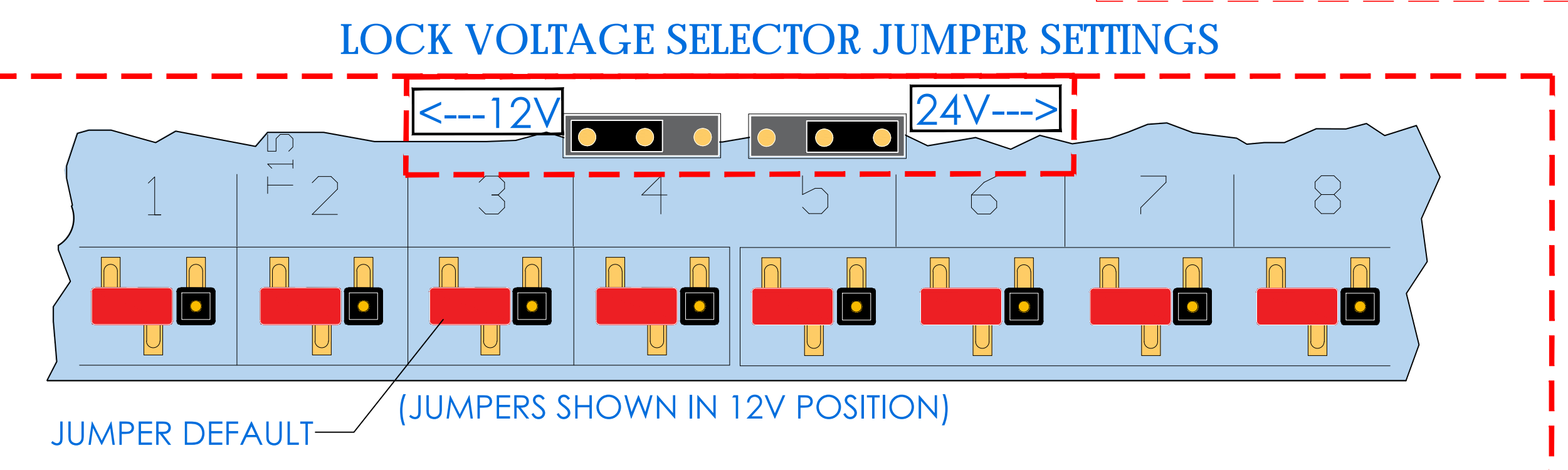
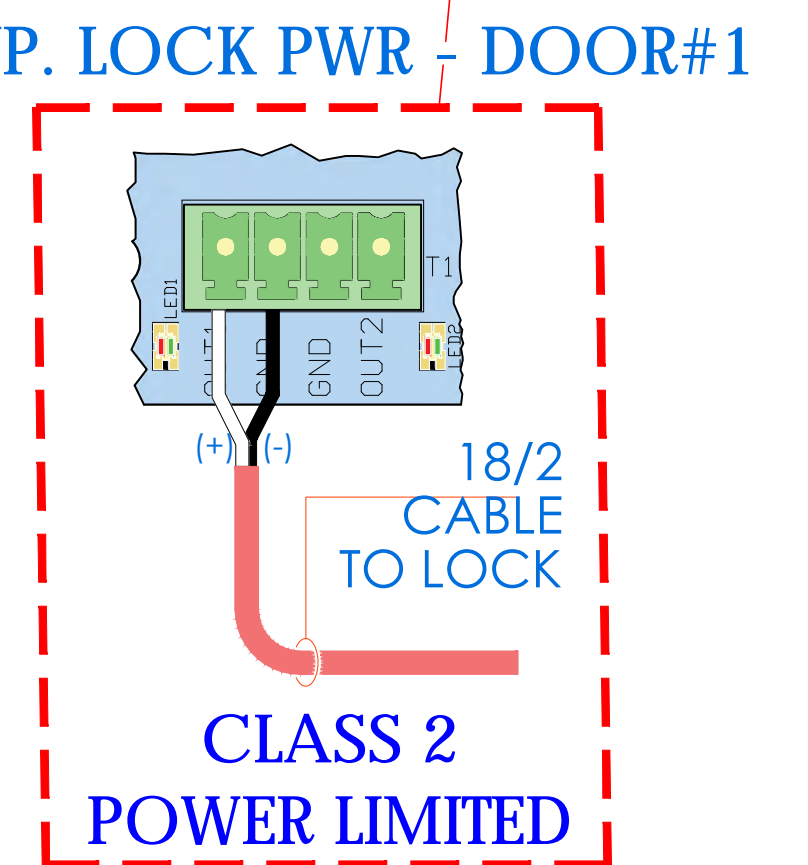
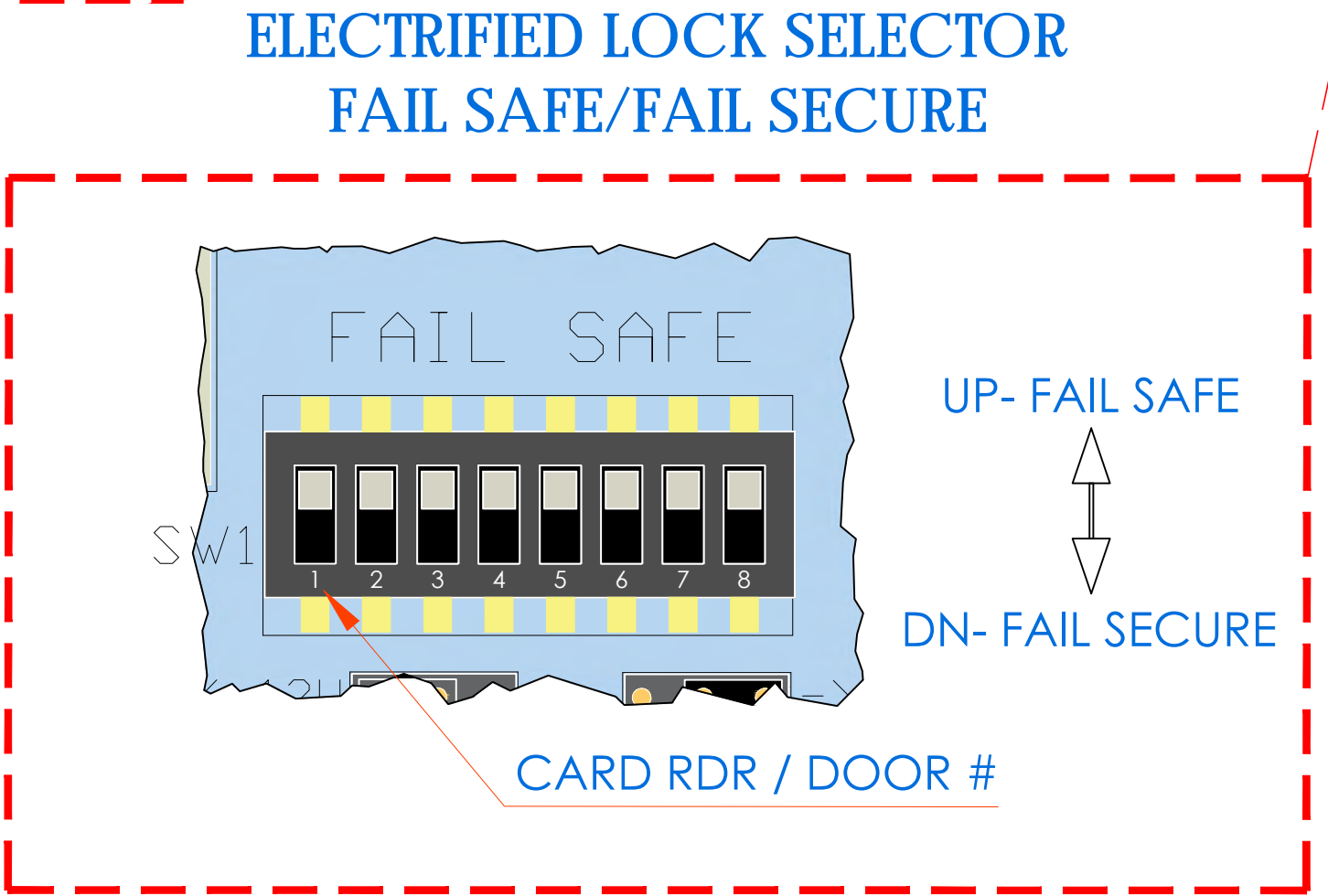
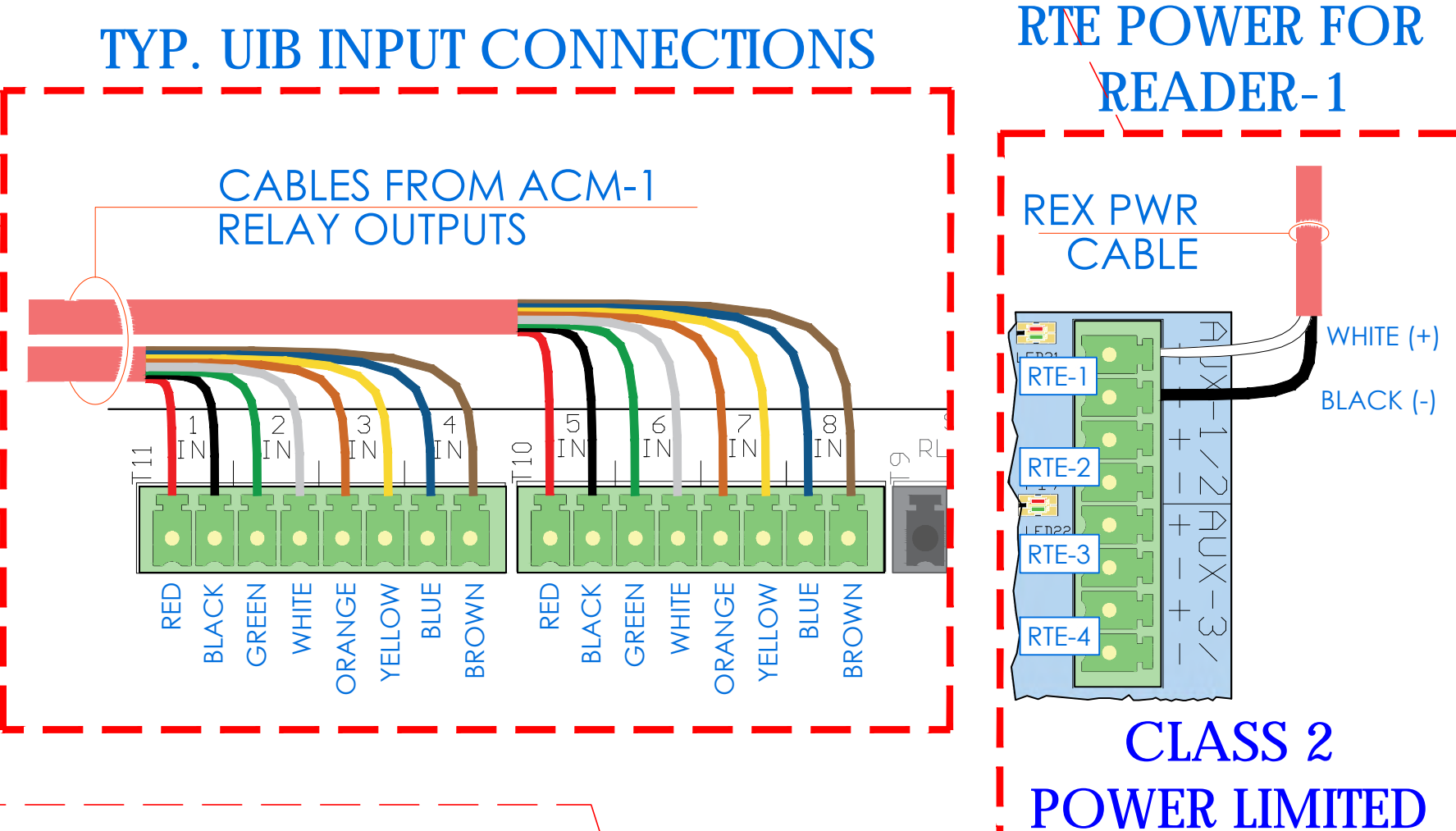
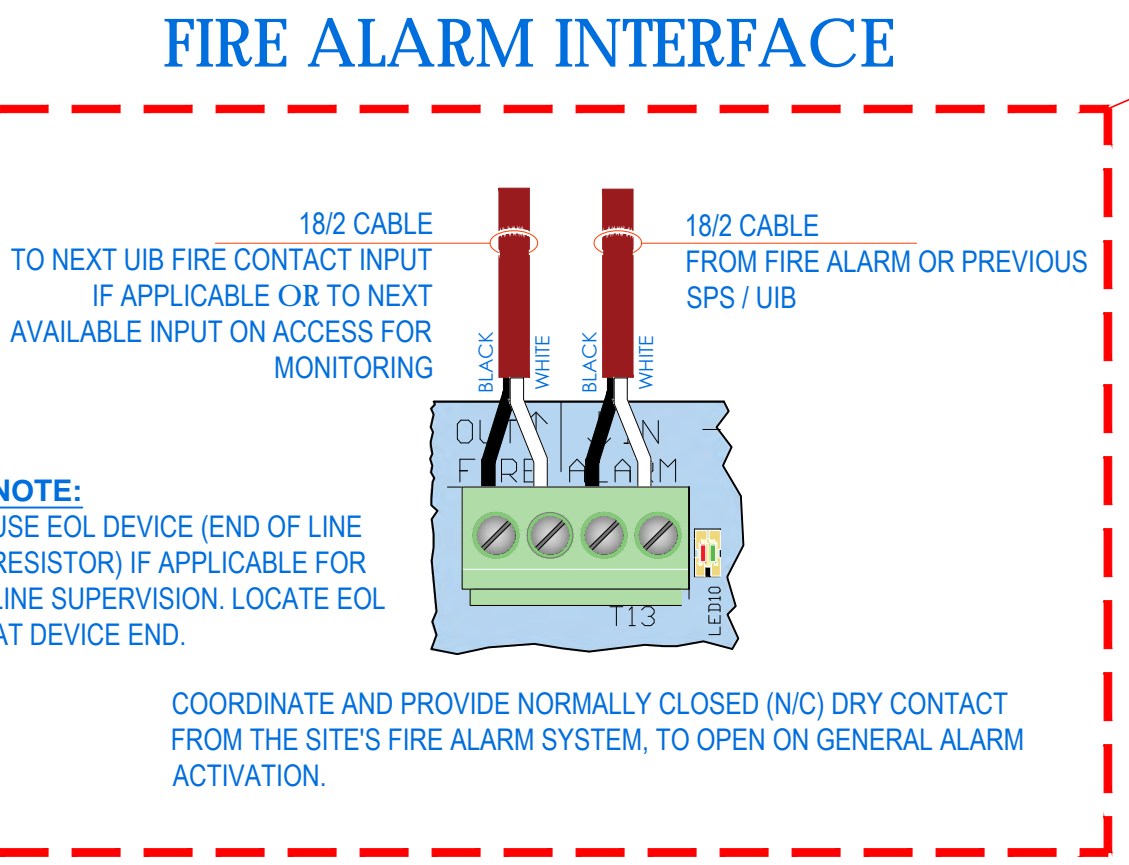
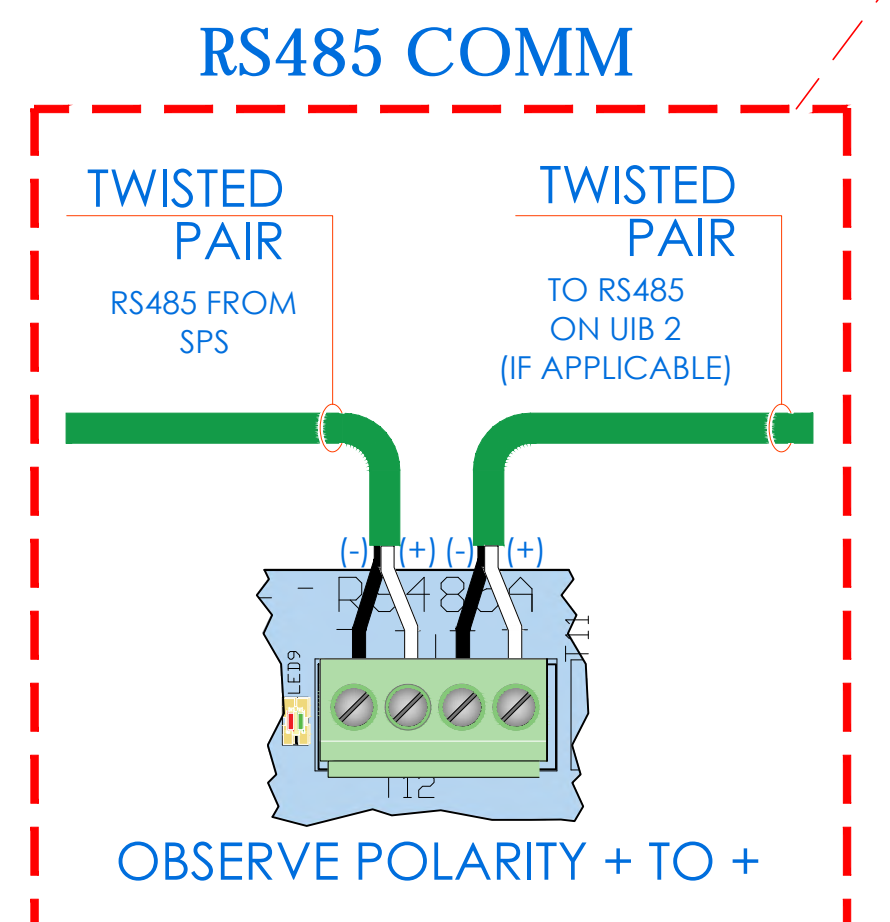
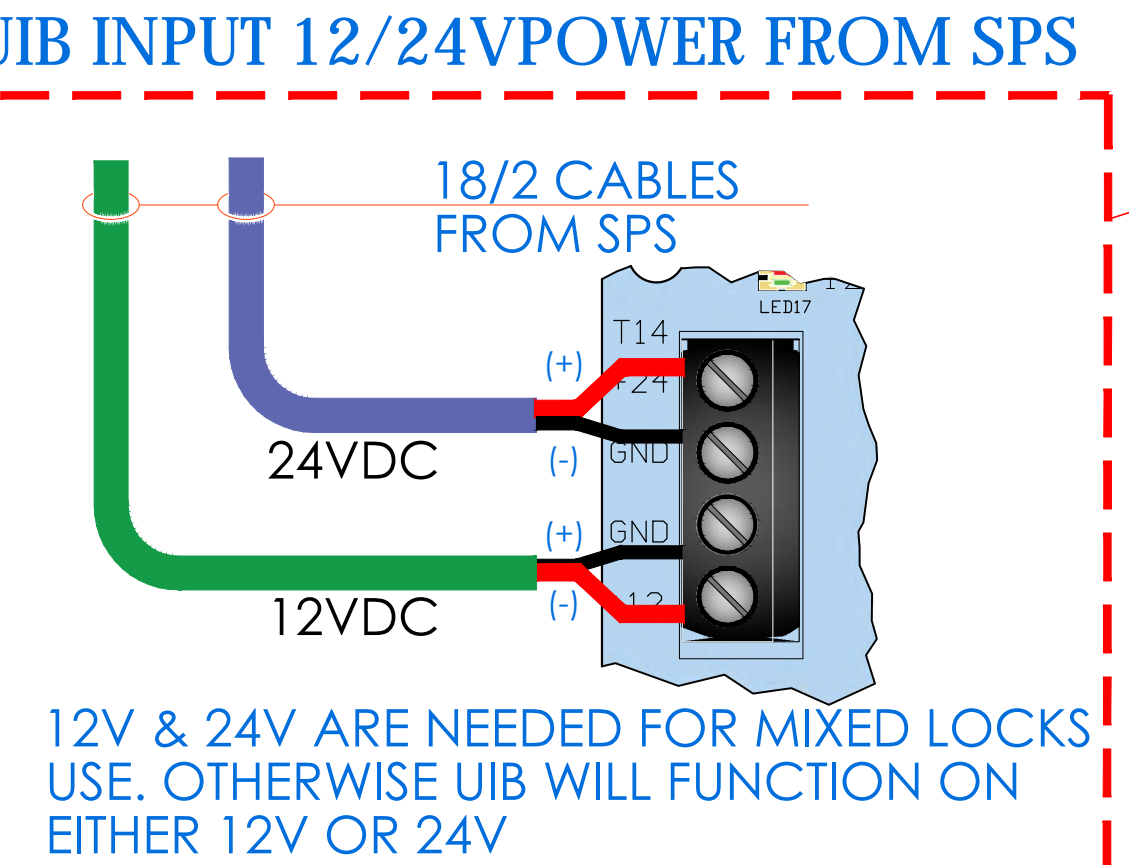
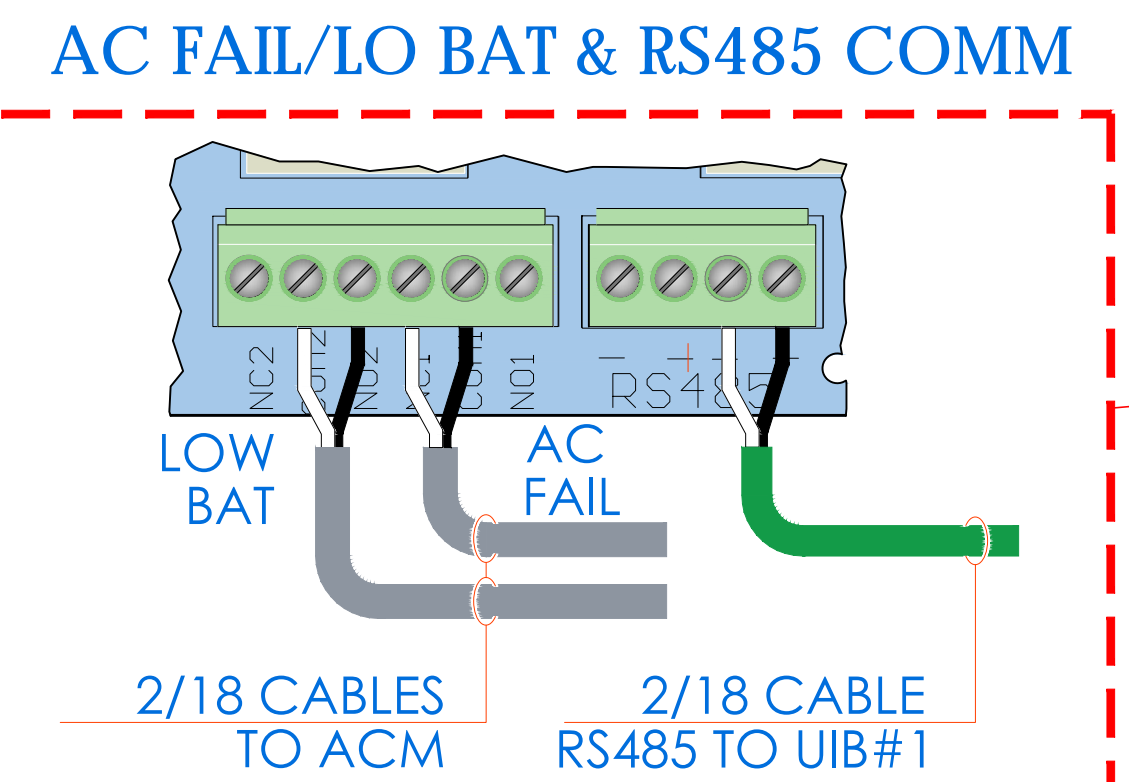
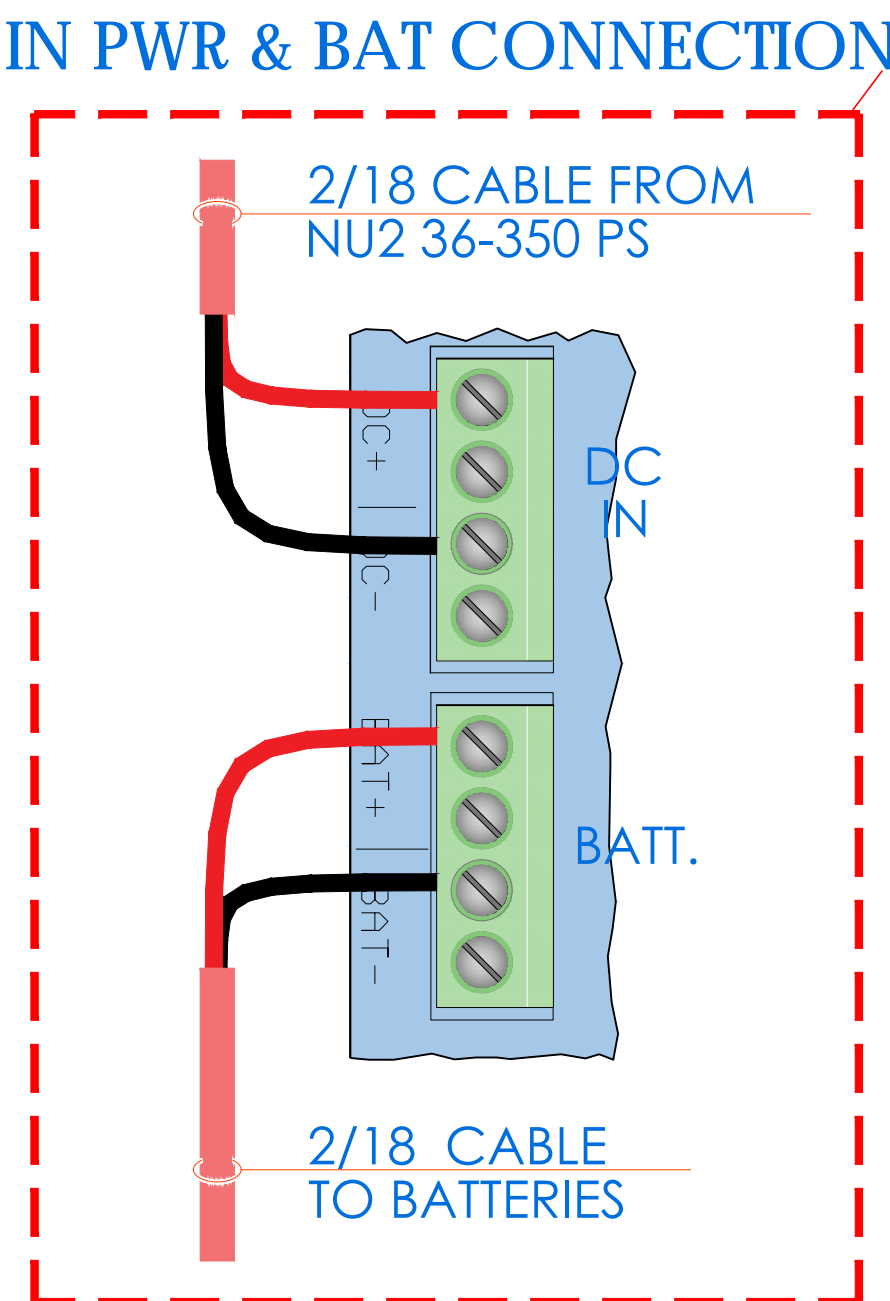
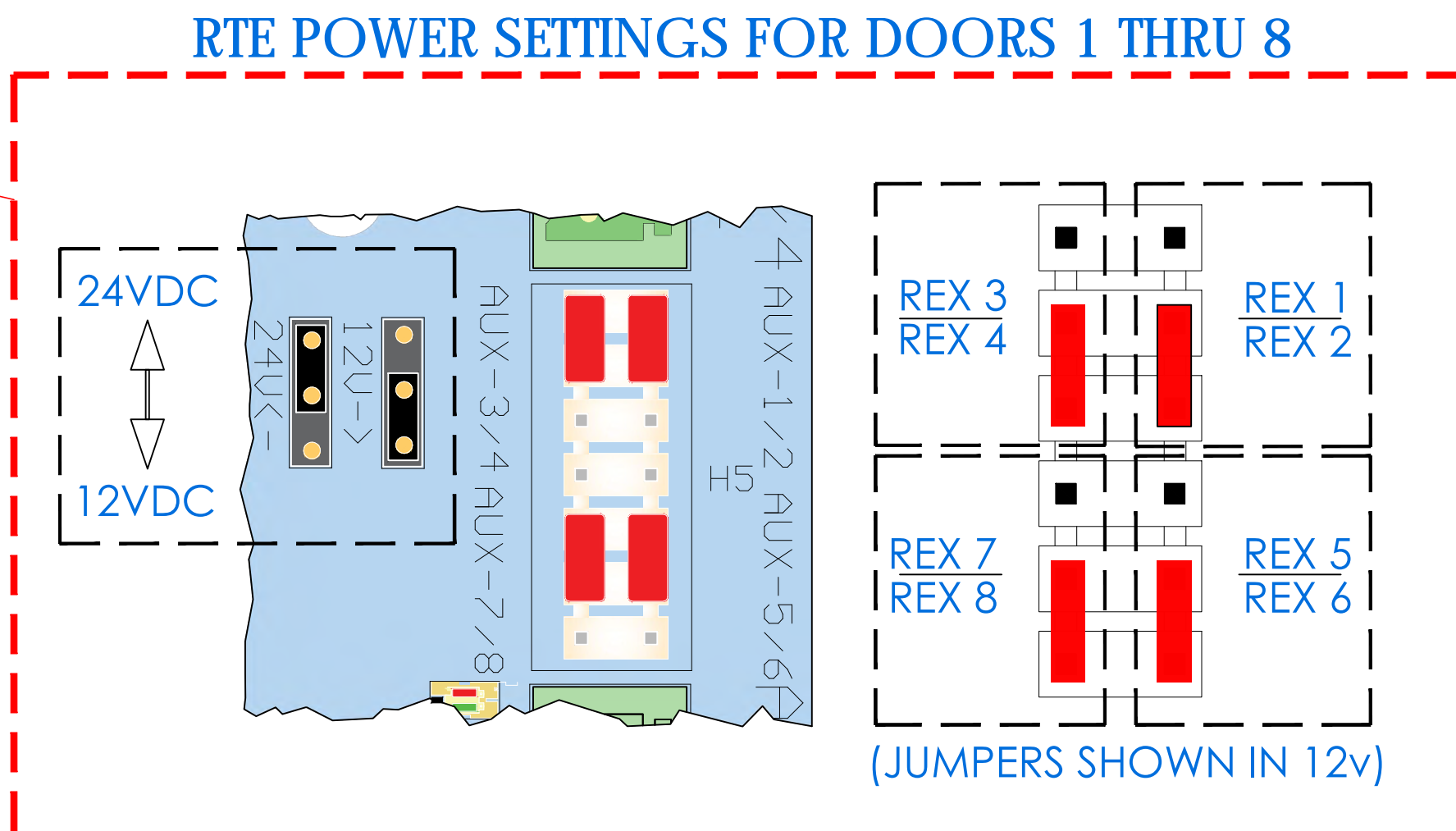
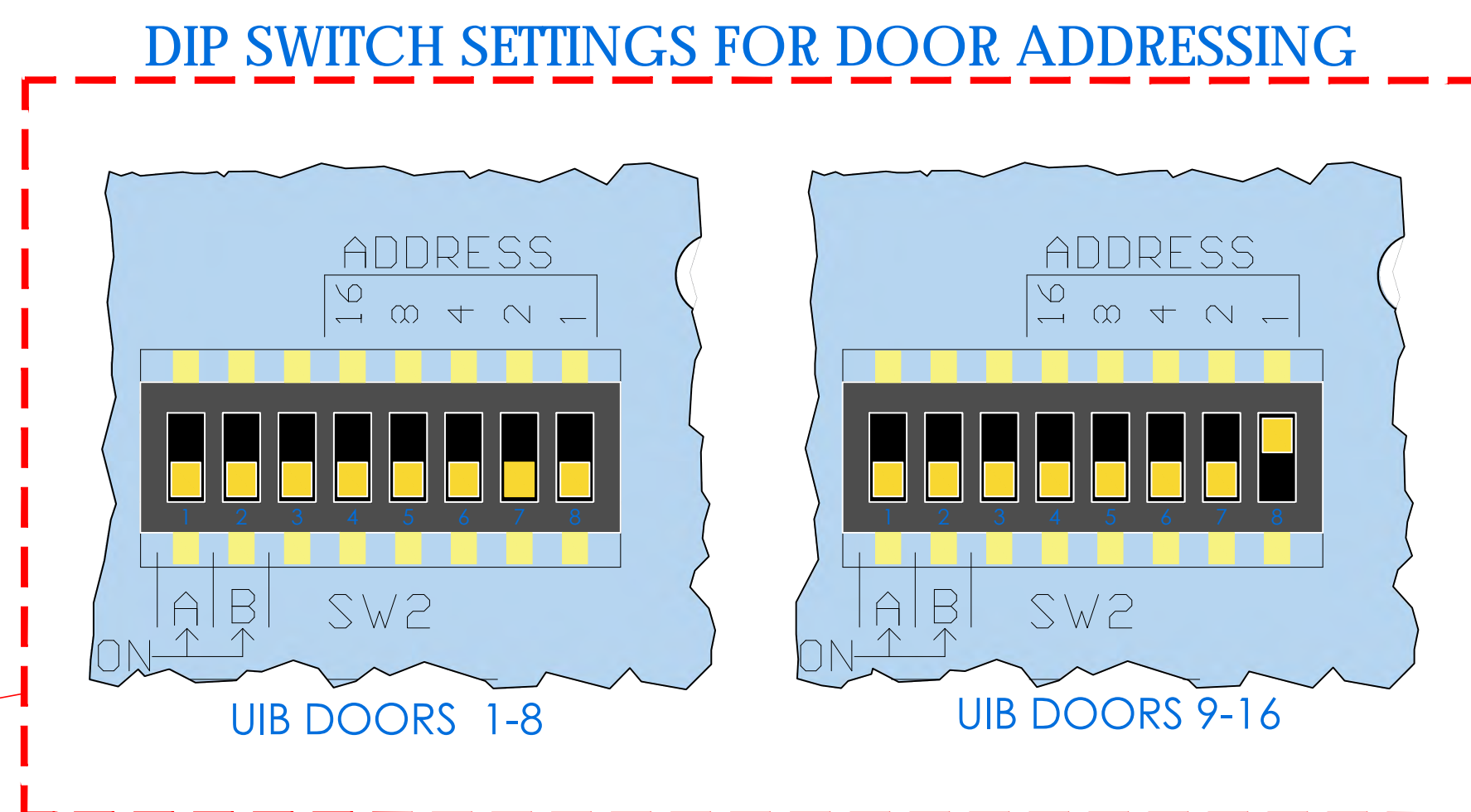
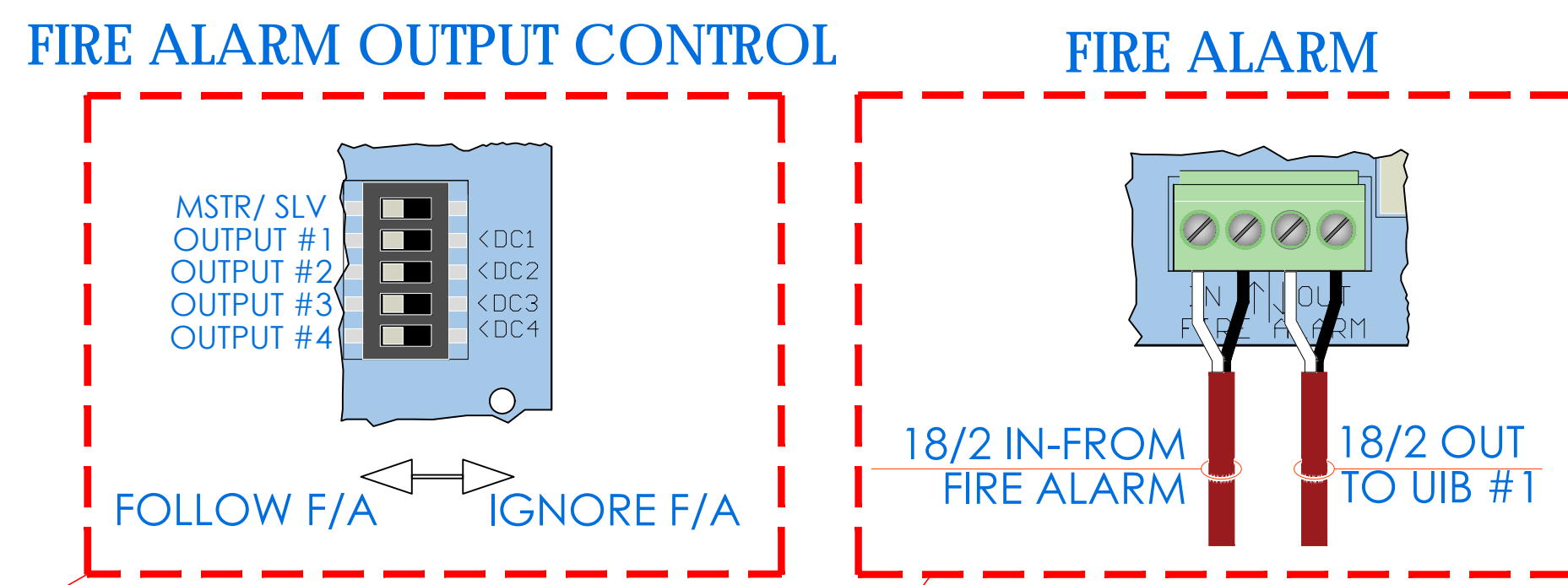
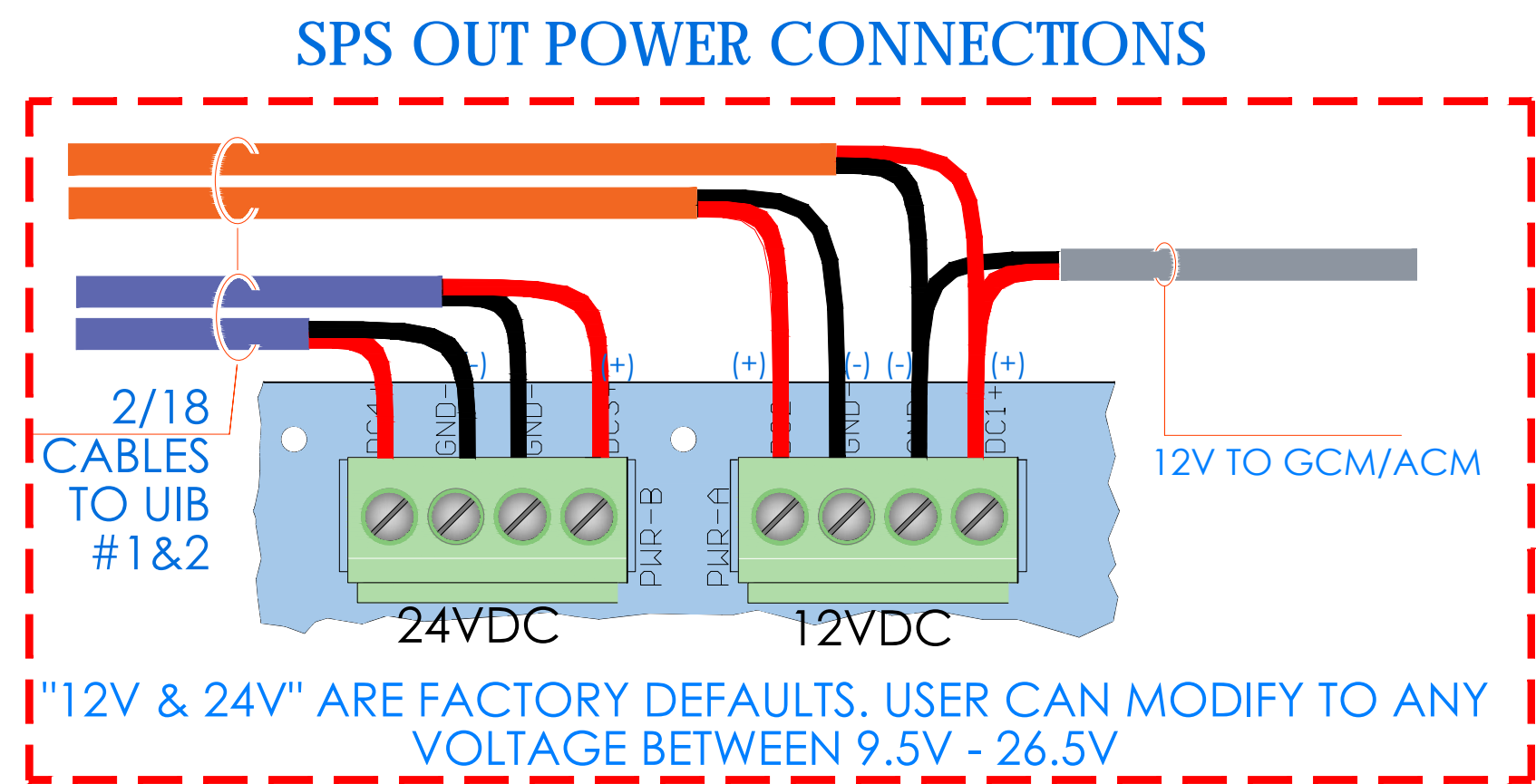
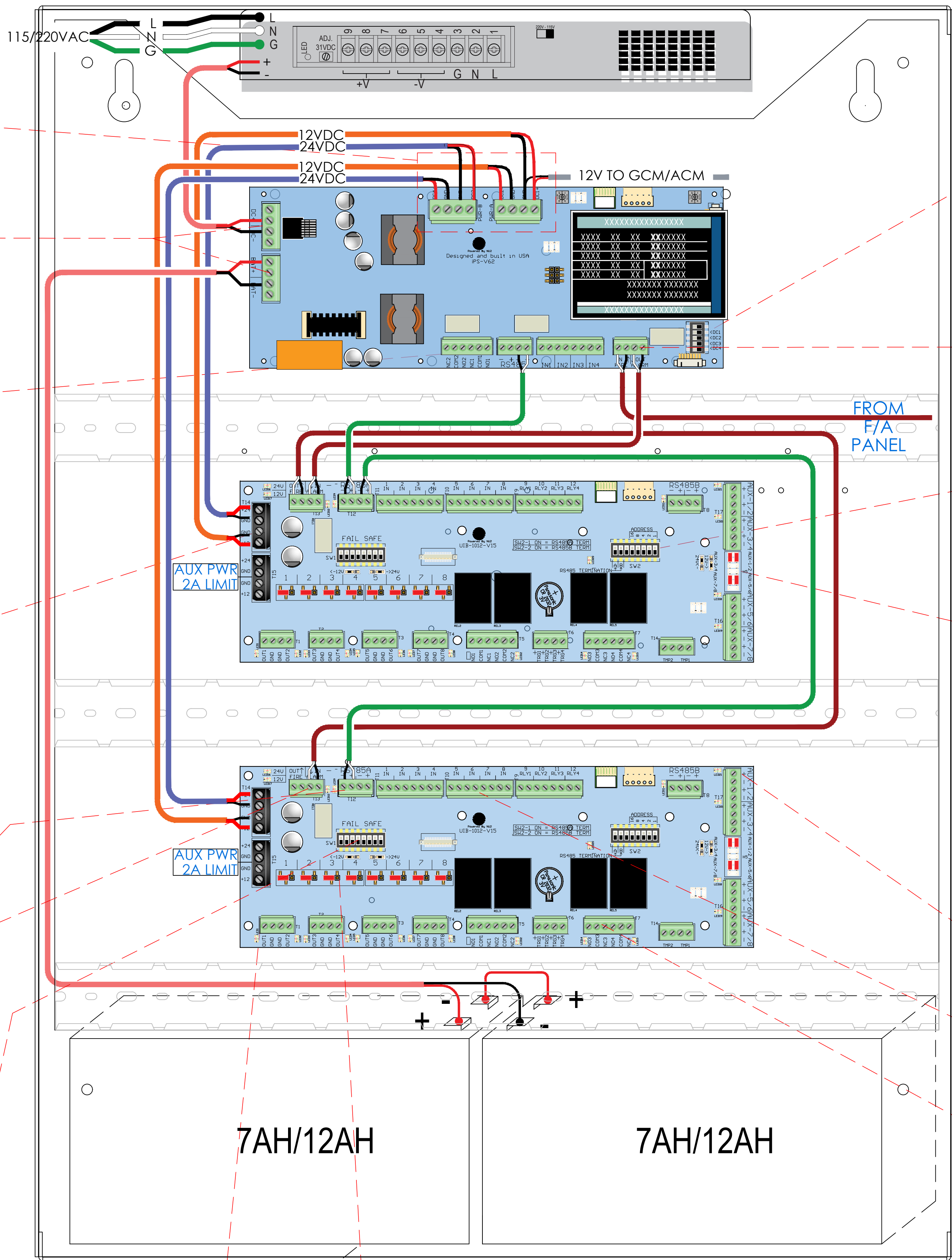
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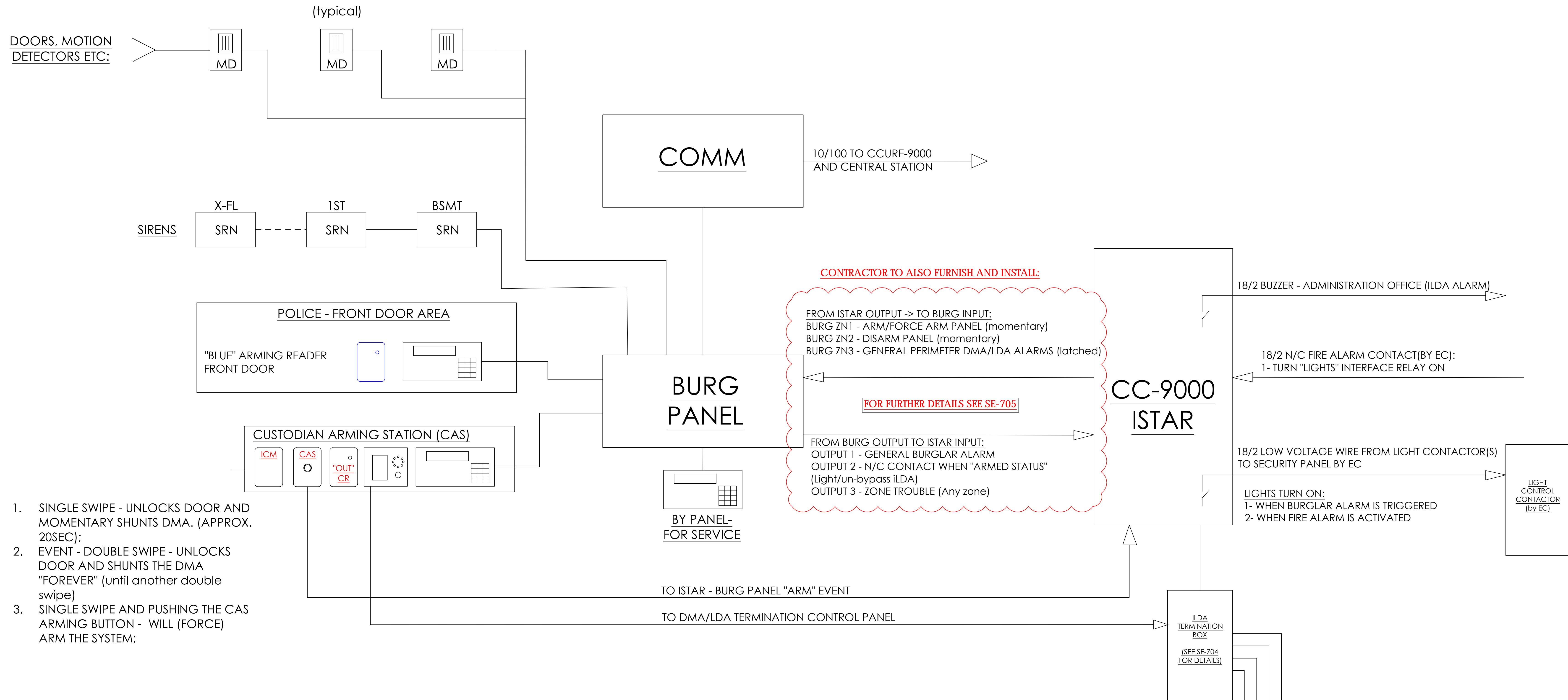
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| 1 | 08/31/2020 | SCHEMATIC DESIGN |
| No. | Date | Issue |

| | |
|------------------------------|-----------------|
| Sheet Title | |
| ISTAR DRAWING WIRING DIAGRAM | |
| Job No. | Date |
| 2019-1026 | 08/31/2020 |
| Scale: | Drawn / Checked |
| AS NOTED | |
| Sheet Number | |
| SE-700 | |

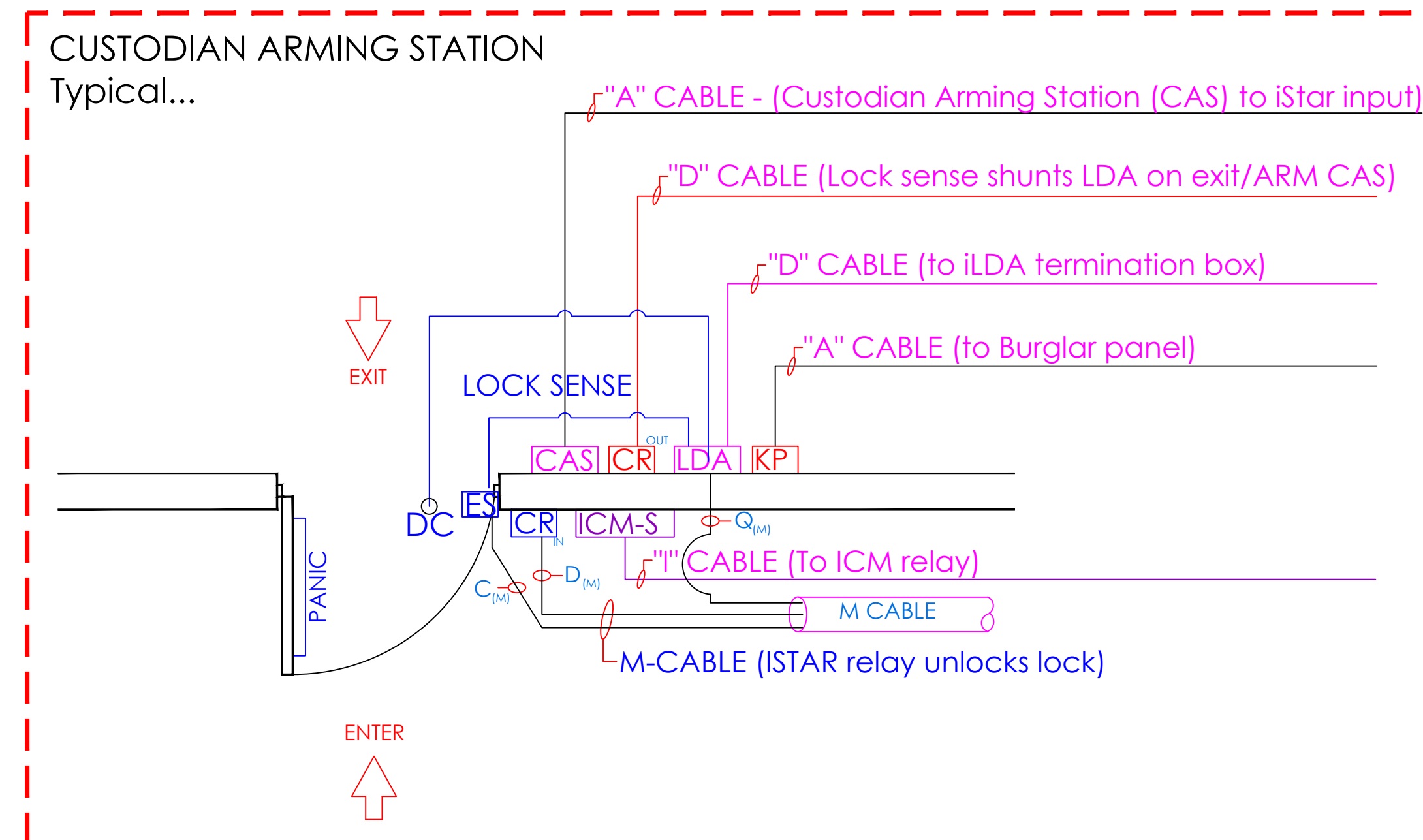
BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACES - ONE LINE



1. SINGLE SWIPE - UNLOCKS DOOR AND MOMENTARY SHUNTS DMA. (APPROX. 20SEC);
2. EVENT - DOUBLE SWIPE - UNLOCKS DOOR AND SHUNTS THE DMA "FOREVER" (until another double swipe)
3. SINGLE SWIPE AND PUSHING THE CAS ARMING BUTTON - WILL (FORCE) ARM THE SYSTEM;

EVENTS PROGRAMMING:

1. ENTERING FROM OUTSIDE:
 - 1.1. UNLOCK CUSTODIAN DOOR USING THE "M" CABLE PORT /RELAY FOR THE "IN READER" (MUST BE ADA PERSON IN CCURE SOFTWARE)
 - 1.2. EVENT - DISARM BURGLAR ALARM VIA API AND DRY CONTACTS (ZN2)
 - 1.3. EVENT - TURN BUILDING'S HALLWAY LIGHTS
 - 1.4. EVENT - SHUNTS DOOR'S LDA/DMA USING THE LOCK SENSE FEATURE
2. EXITING FROM INSIDE - PRESENTING A VALID CARD WILL:
 - 2.1 SHUNTS DOOR'S LDA/DMA USING THE LOCK SENSE FEATURE
 - 2.2 EVENT - ARM THE "CAS BURG ARMING BUTTON INPUT" FOR 10 SECONDS. IF CAS ARMING IS PUSHED WITHIN THAT 10 SEC OF PRESENTING A CARD, THE BURG PANEL WILL START ARMING USING ZN1 - FORCED ARM
 - 2.3 WHEN BURGLAR PANEL ARMS - SHUT OFF BUILDING'S LIGHTS



CONTRACTOR TO ALSO FURNISH AND INSTALL:

FROM ISTAR OUTPUT -> TO BURG INPUT:
 BURG ZN1 - ARM/FORCE ARM PANEL (momentary)
 BURG ZN2 - DISARM PANEL (momentary)
 BURG ZN3 - GENERAL PERIMETER DMA/LDA ALARMS (latched)

FOR FURTHER DETAILS SEE SE-705

FROM BURG OUTPUT TO ISTAR INPUT:
 OUTPUT 1 - GENERAL BURGLAR ALARM
 OUTPUT 2 - N/C CONTACT WHEN "ARMED STATUS" (Light/un-bypass iLDA)
 OUTPUT 3 - ZONE TROUBLE (Any zone)

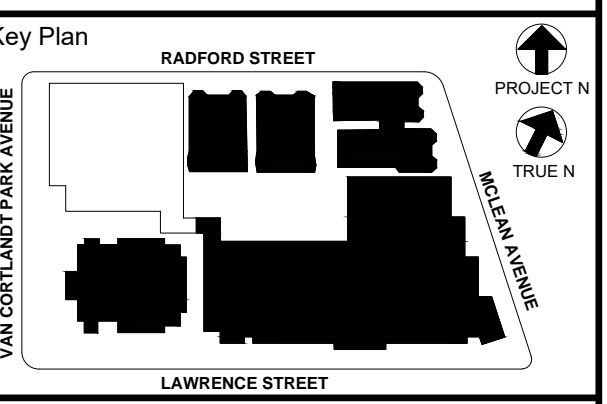
NOTE: PERIMETER "DOOR CONTACT" STATUS IS PROVIDED BY THE LDA/DMA VIA THE CC-9000 AND ISTAR AND IS SENT TO THE BURGLAR PANEL VIA API AND HARD WIRED TO ZONE#3. LDA/DMA ALARMS ARE ANNOUNCED AT ADMIN OFFICE VIA LOCAL BUZZER AND EMAIL NOTIFICATIONS

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Sheet Title
BURGLAR & ACCESS INTERFACE

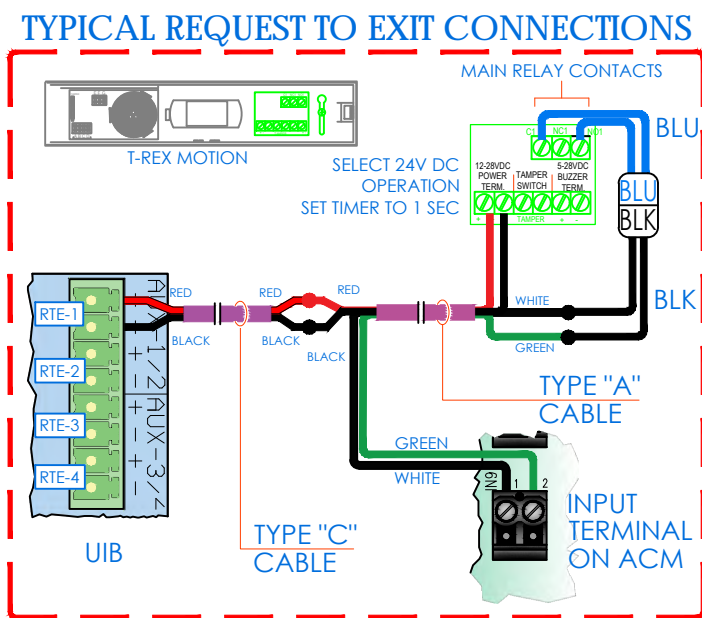
Job No. 2019-1026 Date 08/31/2020
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Sheet Number
SE-701

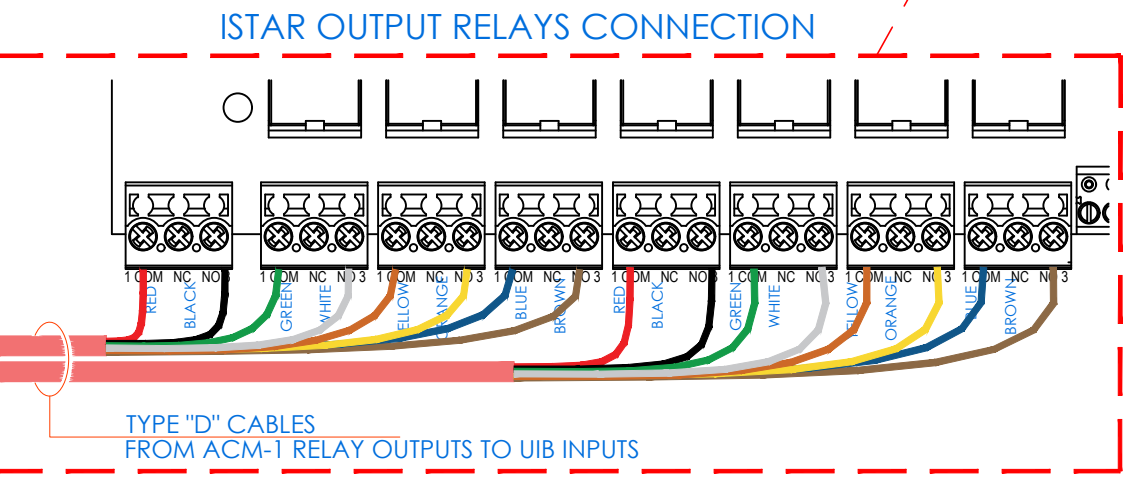
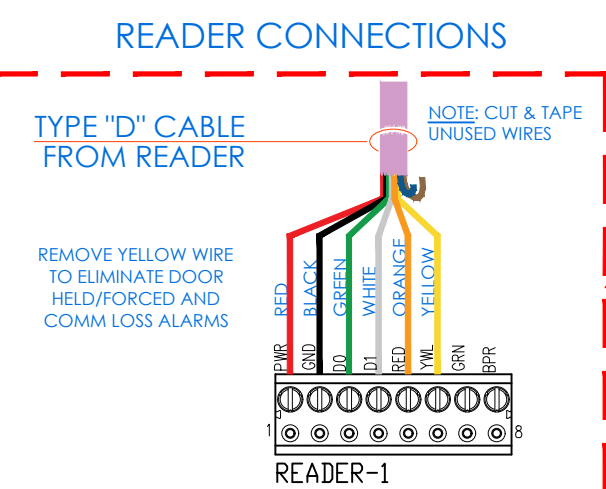
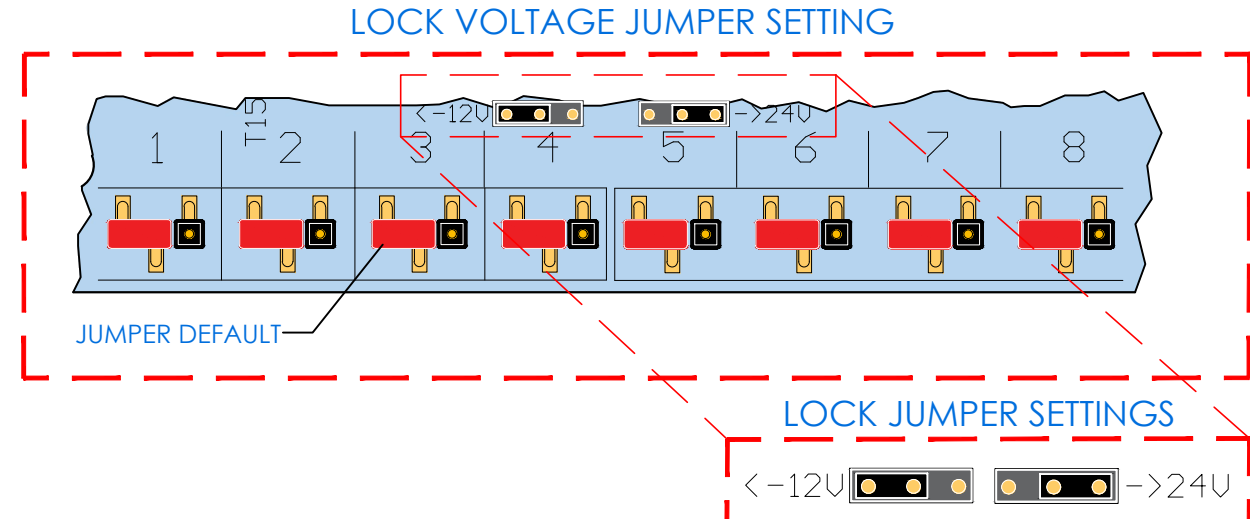
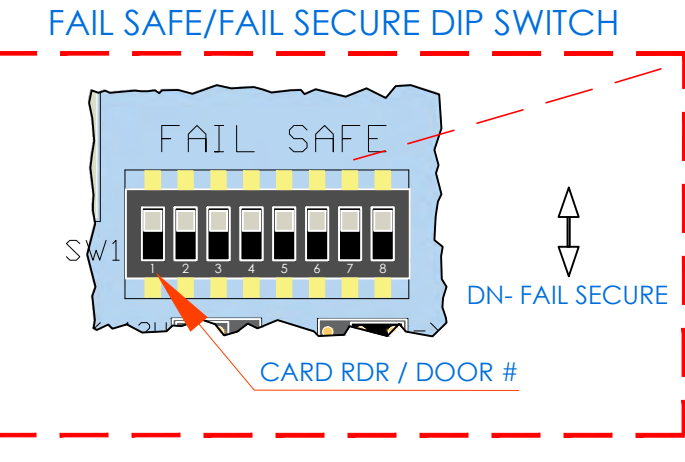
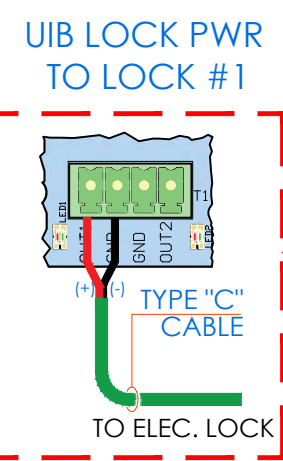
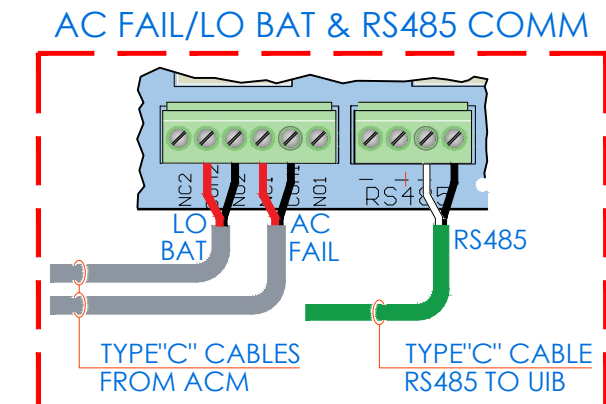
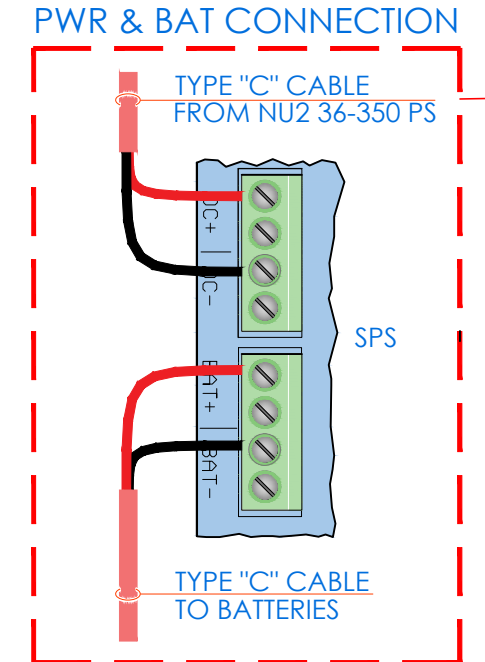
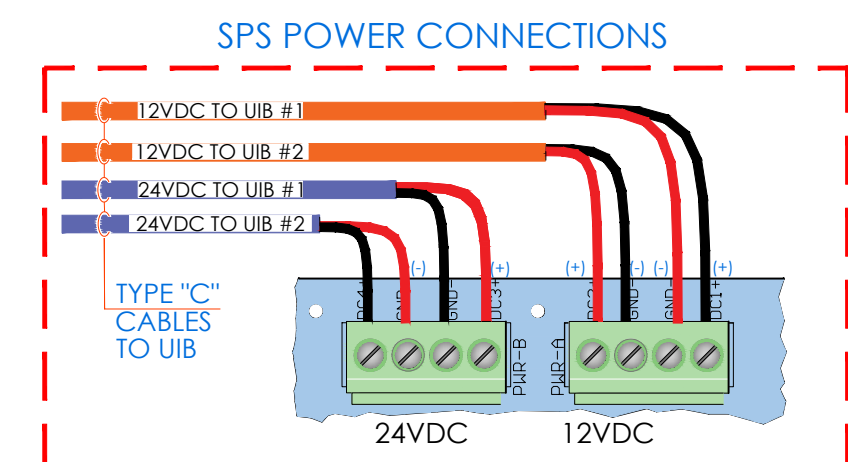
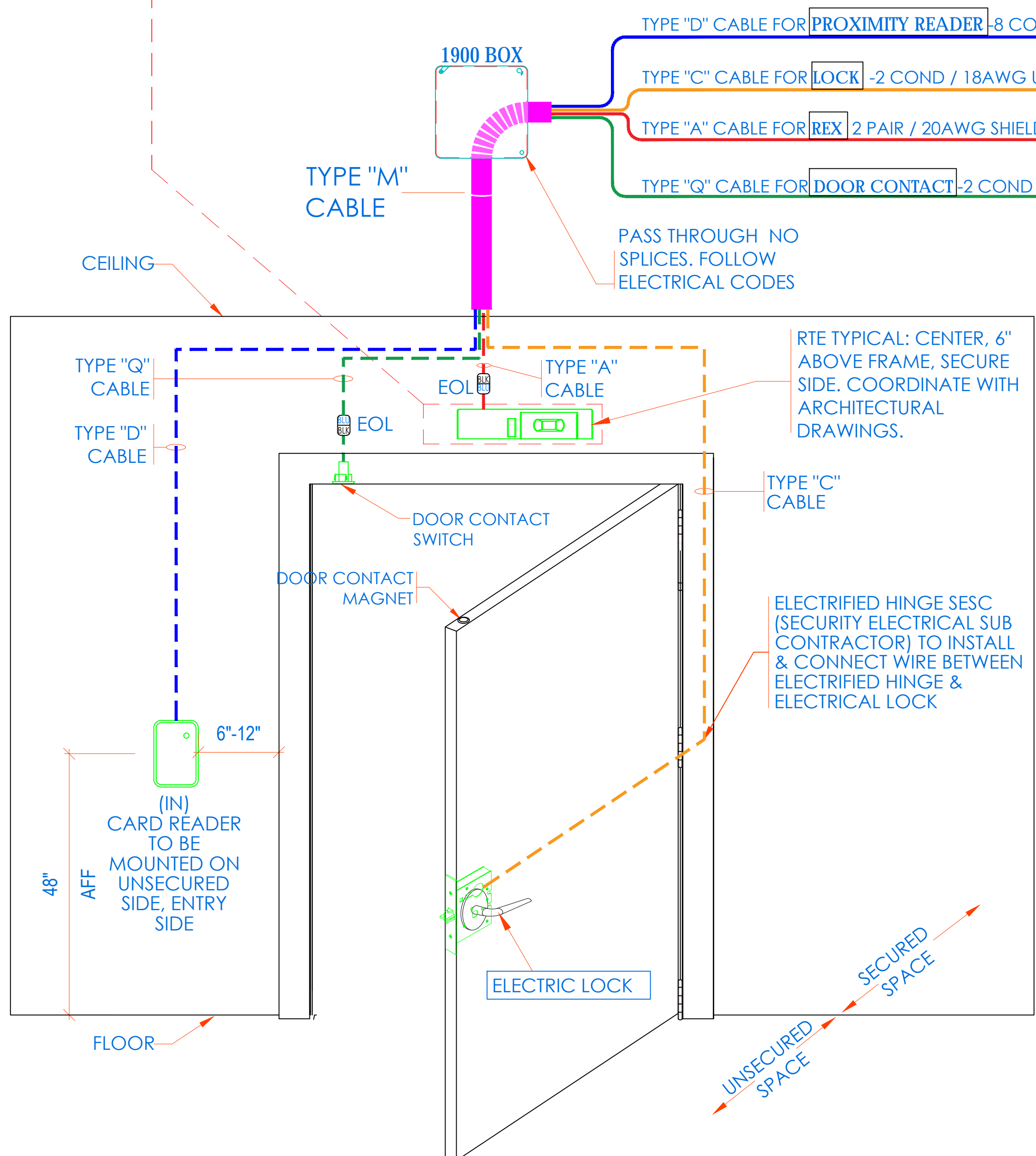
ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX

| READER CONNECTIONS | | DOOR CONTACTS CONNECTIONS | | | MOTION DETECTOR CONNECTIONS | | |
|--------------------|-------|---------------------------|-------|-----|-----------------------------|-------|-----|
| DOOR | iSTAR | DOOR | INPUT | ACM | DOOR | INPUT | ACM |
| DOOR 1 | RDR 1 | DOOR 1 | IN 1 | 1 | DOOR 1 | IN 9 | 1 |
| DOOR 2 | RDR 2 | DOOR 2 | IN 2 | 1 | DOOR 2 | IN 10 | 1 |
| DOOR 3 | RDR 3 | DOOR 3 | IN 3 | 1 | DOOR 3 | IN 11 | 1 |
| DOOR 4 | RDR 4 | DOOR 4 | IN 4 | 1 | DOOR 4 | IN 12 | 1 |
| DOOR 5 | RDR 5 | DOOR 5 | IN 5 | 1 | DOOR 5 | IN 13 | 1 |
| DOOR 6 | RDR 6 | DOOR 6 | IN 6 | 1 | DOOR 6 | IN 14 | 1 |
| DOOR 7 | RDR 7 | DOOR 7 | IN 7 | 1 | DOOR 7 | IN 15 | 1 |
| DOOR 8 | RDR 8 | DOOR 8 | IN 8 | 1 | DOOR 8 | IN 16 | 1 |
| DOOR 9 | RDR 1 | DOOR 9 | IN 1 | 2 | DOOR 9 | IN 9 | 2 |
| DOOR 10 | RDR 2 | DOOR 10 | IN 2 | 2 | DOOR 10 | IN 10 | 2 |
| DOOR 11 | RDR 3 | DOOR 11 | IN 3 | 2 | DOOR 11 | IN 11 | 2 |
| DOOR 12 | RDR 4 | DOOR 12 | IN 4 | 2 | DOOR 12 | IN 12 | 2 |
| DOOR 13 | RDR 5 | DOOR 13 | IN 5 | 2 | DOOR 13 | IN 13 | 2 |
| DOOR 14 | RDR 6 | DOOR 14 | IN 6 | 2 | DOOR 14 | IN 14 | 2 |
| DOOR 15 | RDR 7 | DOOR 15 | IN 7 | 2 | DOOR 15 | IN 15 | 2 |
| DOOR 16 | RDR 8 | DOOR 16 | IN 8 | 2 | DOOR 16 | IN 16 | 2 |

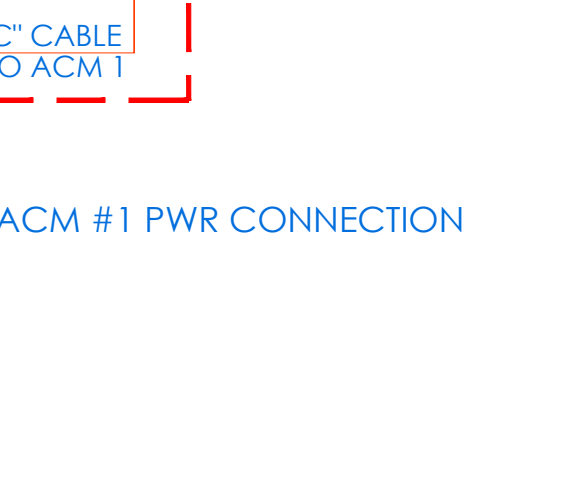
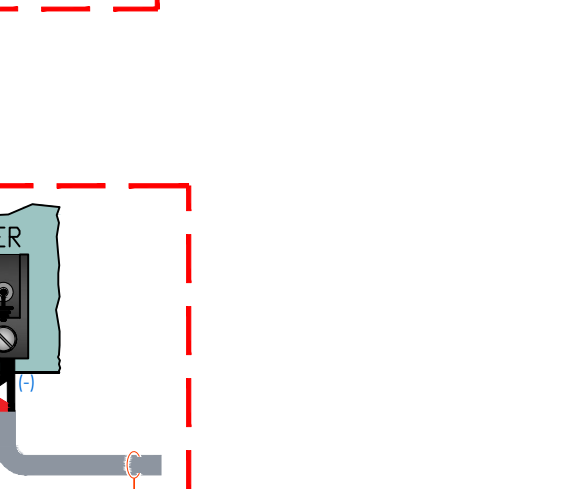
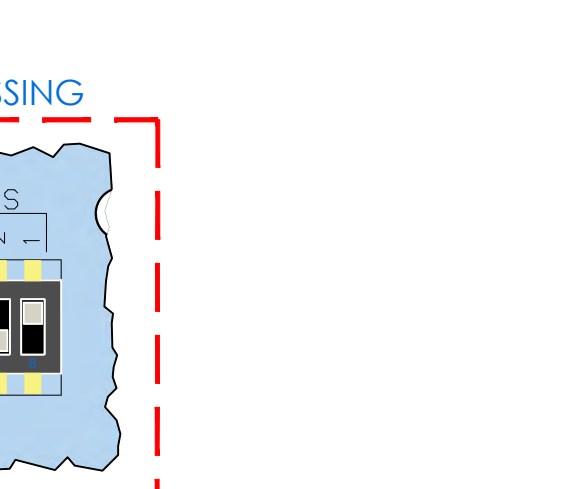
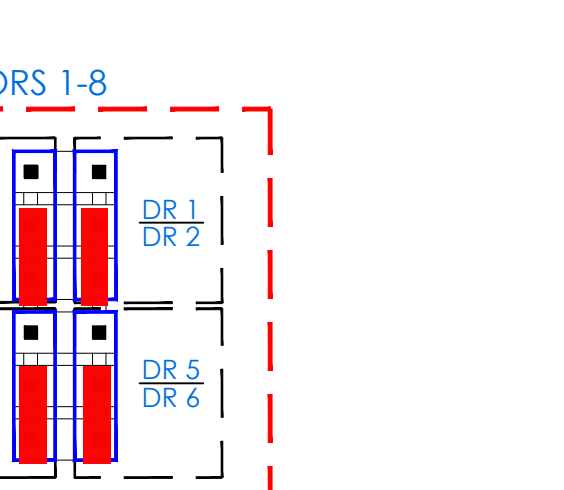
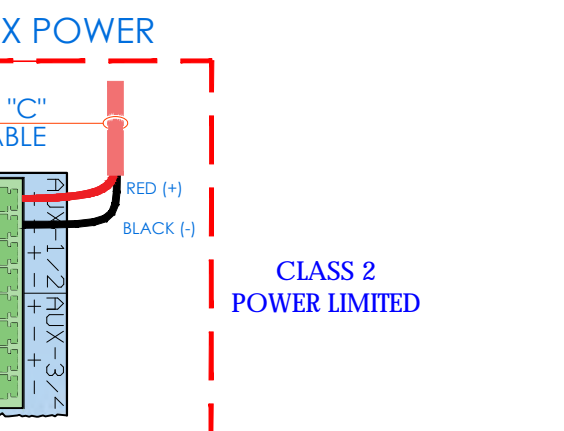
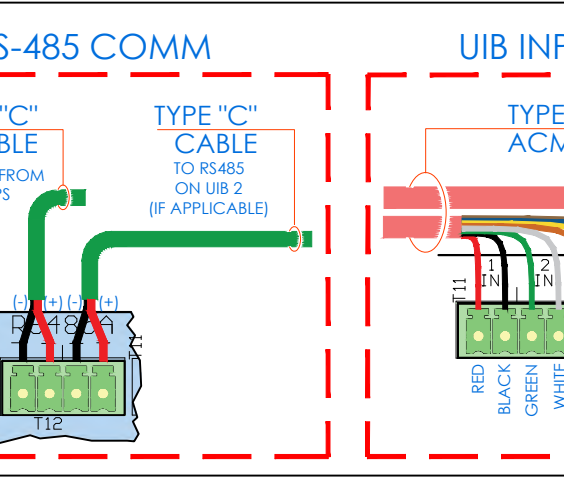
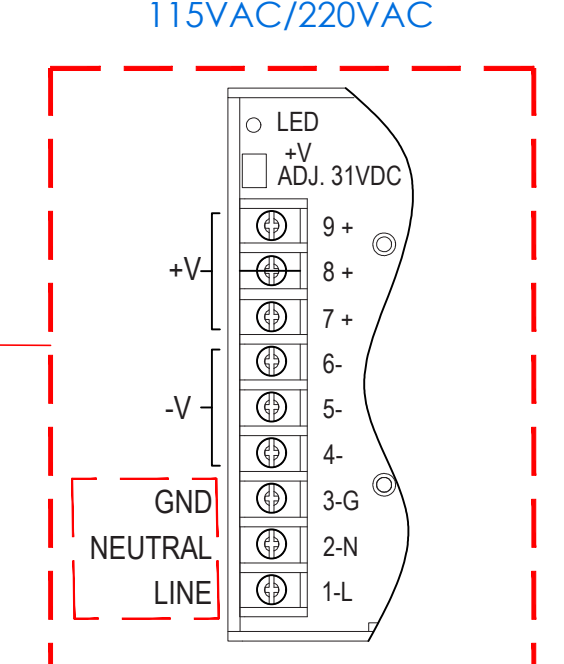
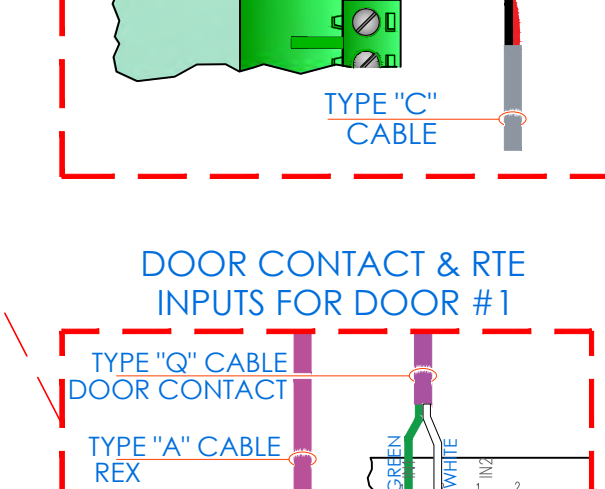
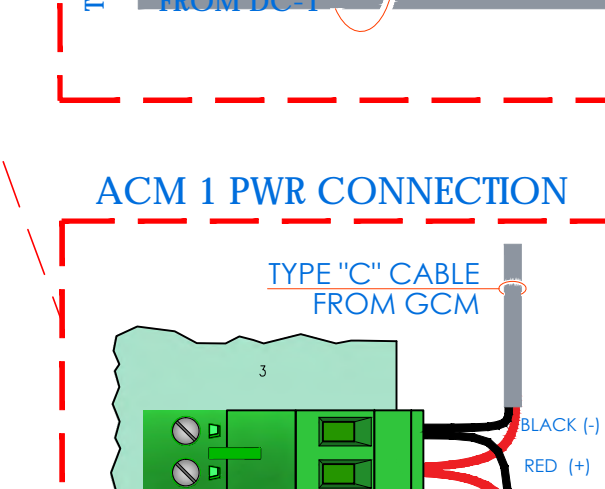
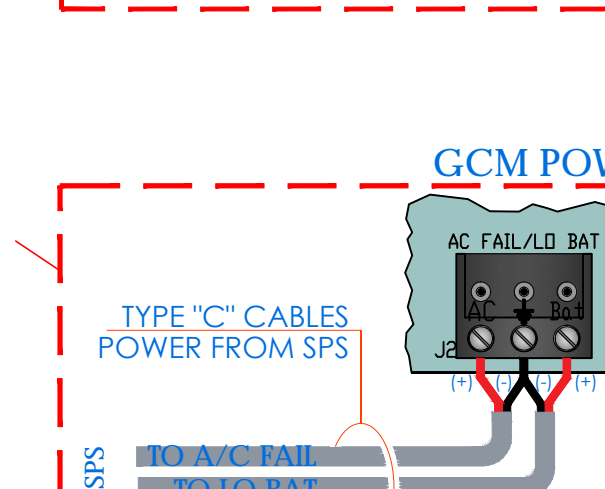
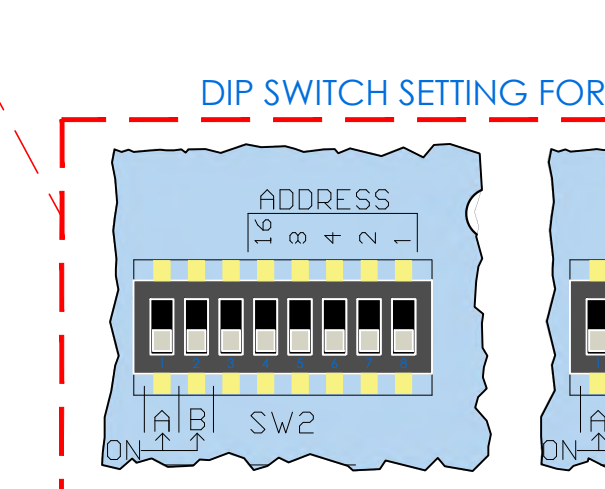
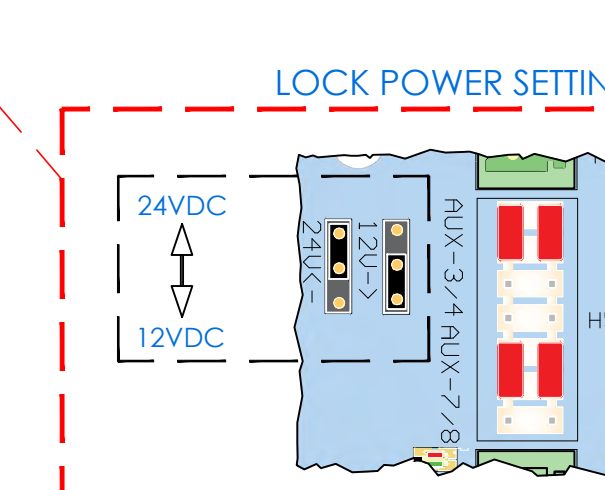
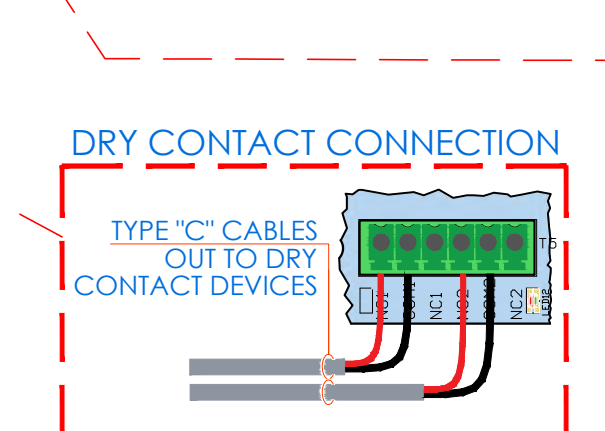
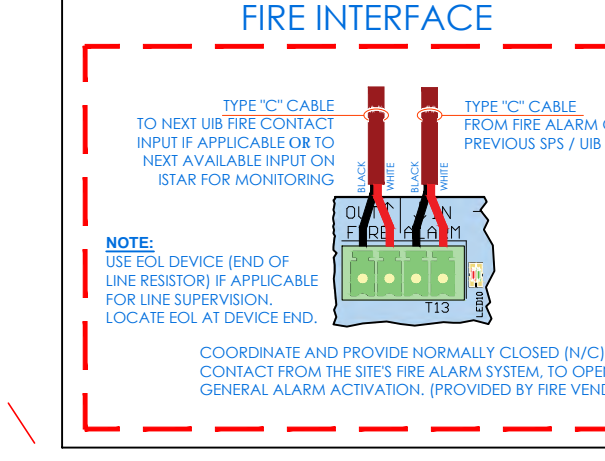
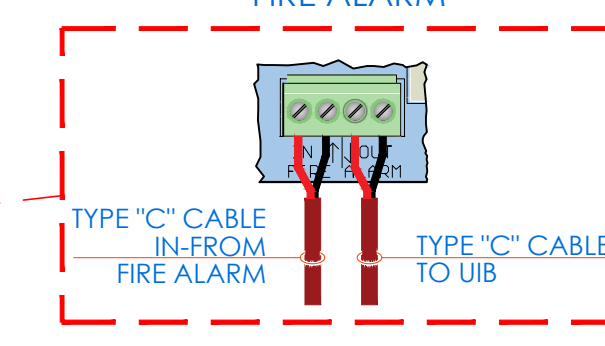
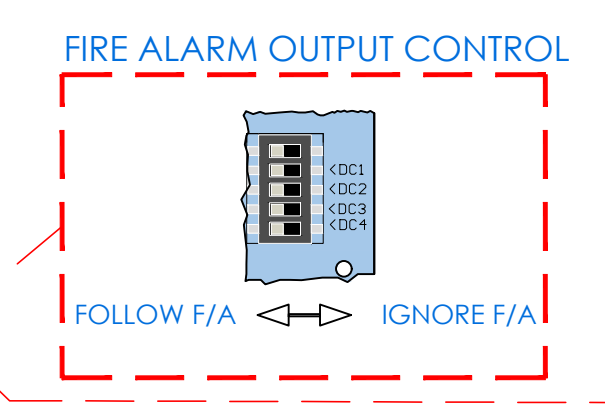
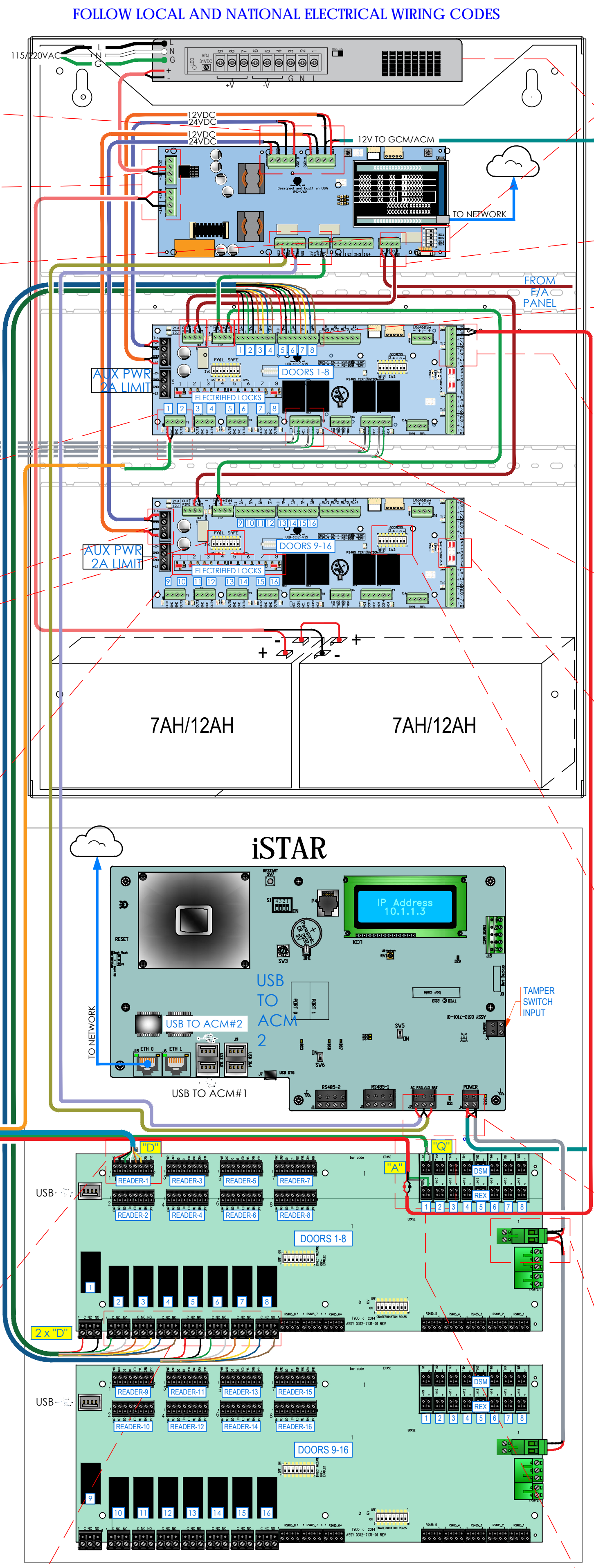
DOOR ELEVATION DIAGRAMMATICALLY SHOWN WITH ELECTRIC MORTISE LOCK AND REQUEST TO EXIT MOTION SENSOR



MOTION REX



NOTE:
 • THIS IS A DEVICE CONNECTION DRAWING SHOWING A TYPICAL DOOR SETUP. THIS MAY OR MAY NOT REPRESENT THE ELECTRIFIED HARDWARE BEING USED ON THIS PROJECT. SEE DOOR TYPICAL FOR MORE INFORMATION AND CONFIRM HARDWARE TYPE FOR EACH SPECIFIC LOCATION PRIOR TO ANY INSTALLATION.
 • FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

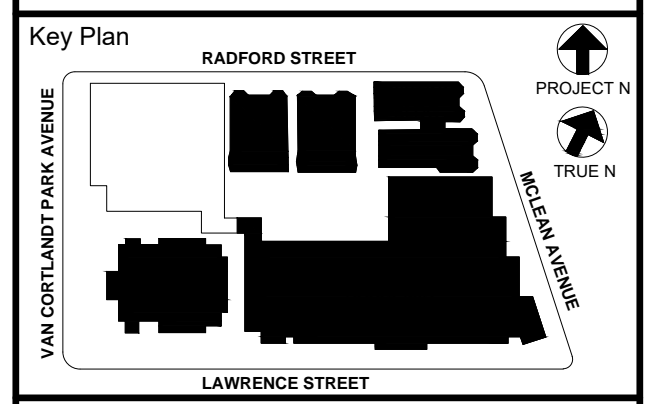


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| No. | Date | Issue |

Sheet Title
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ MOTION REX

Job No. 2019-1026 Date 08/31/2020
 Scale: AS NOTED Drawn / Checked

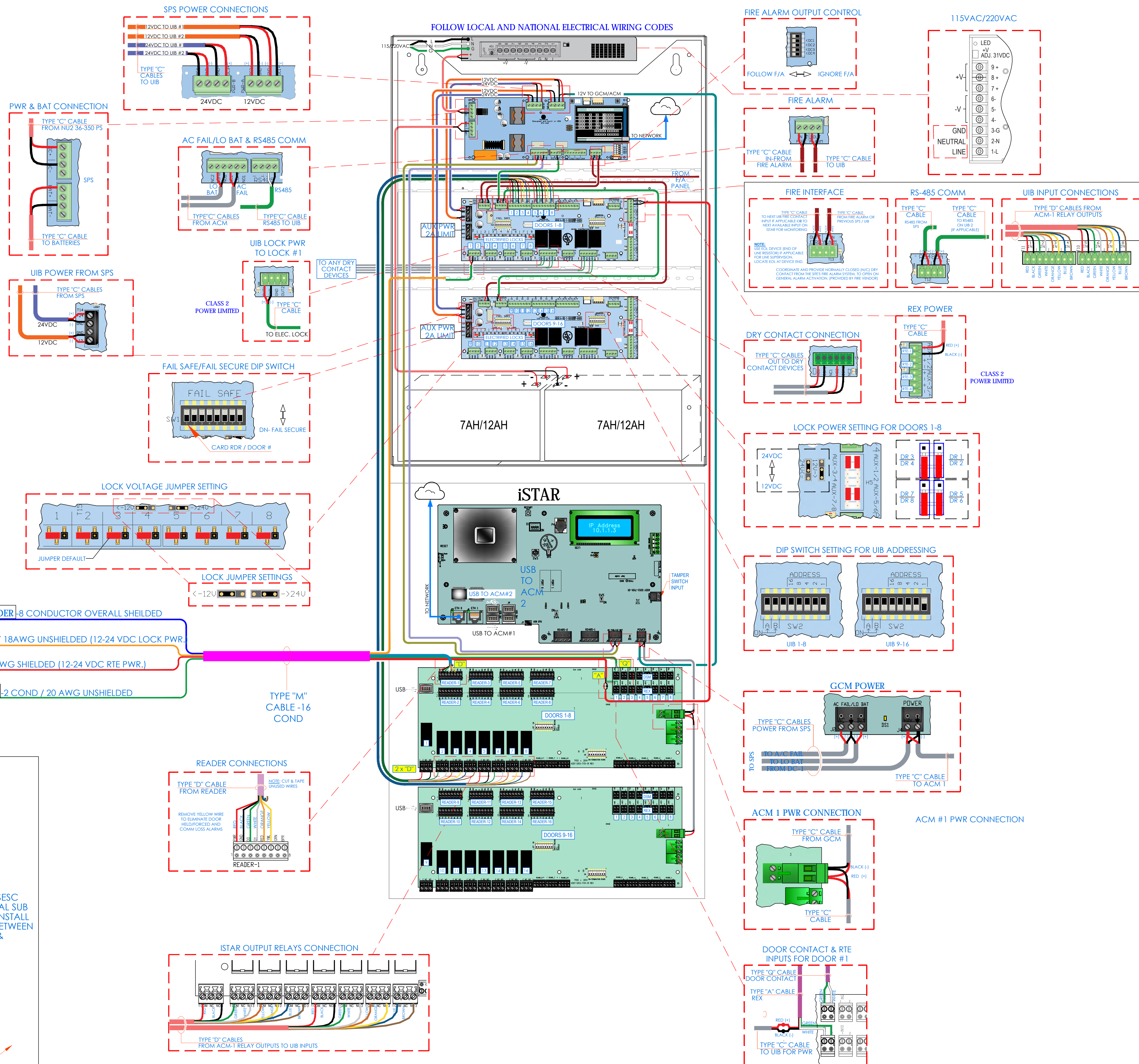
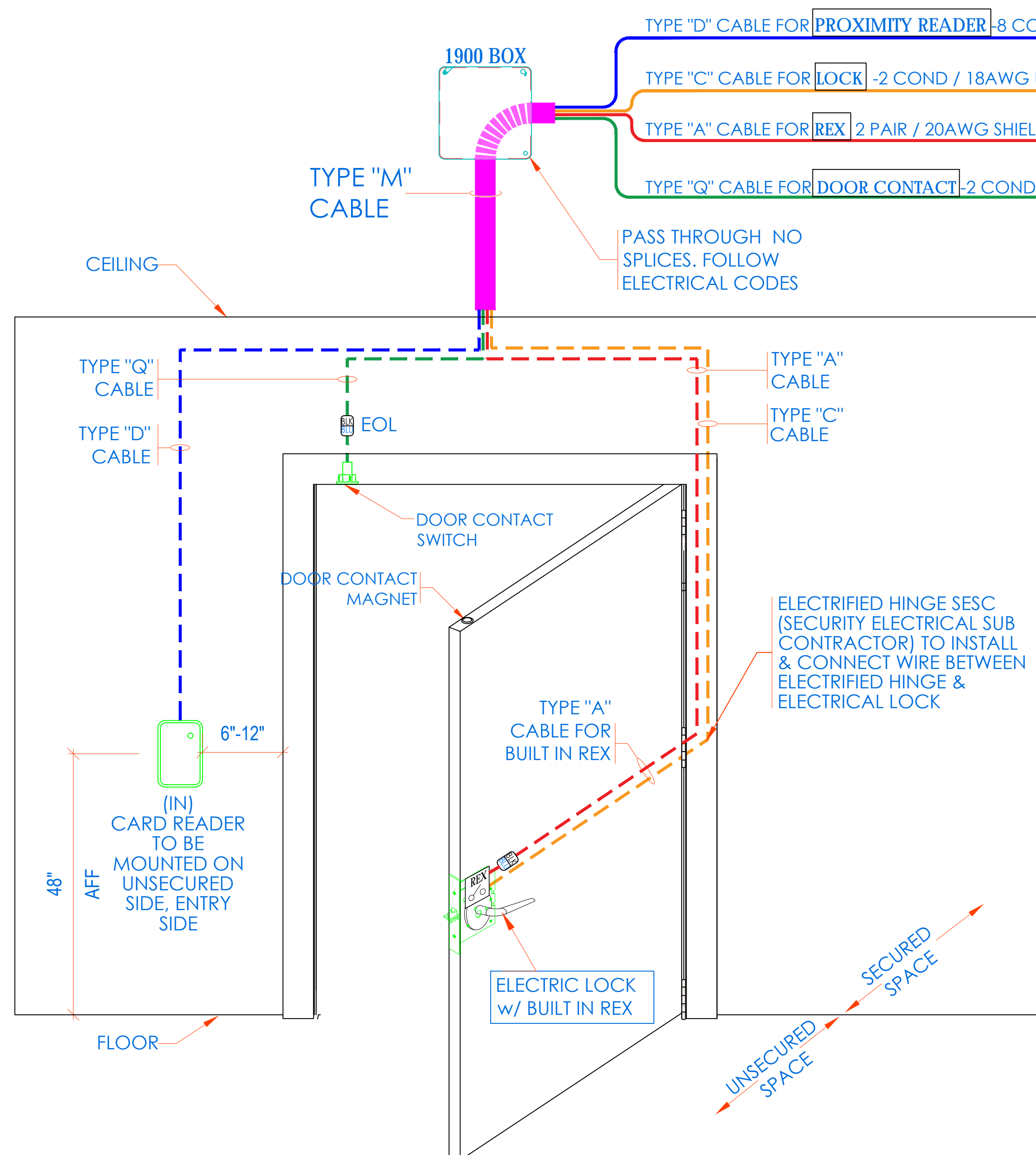
Sheet Number **SE-702-A**

ULTRA SE TYPICAL WIRING DIAGRAM - REX LOCK

| READER CONNECTIONS | | DOOR CONTACTS CONNECTIONS | | | MOTION DETECTOR CONNECTIONS | | |
|--------------------|-------|---------------------------|-------|-----|-----------------------------|-------|-----|
| DOOR | iSTAR | DOOR | INPUT | ACM | DOOR | INPUT | ACM |
| DOOR 1 | RDR 1 | DOOR 1 | IN 1 | 1 | DOOR 1 | IN 9 | 1 |
| DOOR 2 | RDR 2 | DOOR 2 | IN 2 | 1 | DOOR 2 | IN 10 | 1 |
| DOOR 3 | RDR 3 | DOOR 3 | IN 3 | 1 | DOOR 3 | IN 11 | 1 |
| DOOR 4 | RDR 4 | DOOR 4 | IN 4 | 1 | DOOR 4 | IN 12 | 1 |
| DOOR 5 | RDR 5 | DOOR 5 | IN 5 | 1 | DOOR 5 | IN 13 | 1 |
| DOOR 6 | RDR 6 | DOOR 6 | IN 6 | 1 | DOOR 6 | IN 14 | 1 |
| DOOR 7 | RDR 7 | DOOR 7 | IN 7 | 1 | DOOR 7 | IN 15 | 1 |
| DOOR 8 | RDR 8 | DOOR 8 | IN 8 | 1 | DOOR 8 | IN 16 | 1 |
| DOOR 9 | RDR 1 | DOOR 9 | IN 1 | 2 | DOOR 9 | IN 9 | 2 |
| DOOR 10 | RDR 2 | DOOR 10 | IN 2 | 2 | DOOR 10 | IN 10 | 2 |
| DOOR 11 | RDR 3 | DOOR 11 | IN 3 | 2 | DOOR 11 | IN 11 | 2 |
| DOOR 12 | RDR 4 | DOOR 12 | IN 4 | 2 | DOOR 12 | IN 12 | 2 |
| DOOR 13 | RDR 5 | DOOR 13 | IN 5 | 2 | DOOR 13 | IN 13 | 2 |
| DOOR 14 | RDR 6 | DOOR 14 | IN 6 | 2 | DOOR 14 | IN 14 | 2 |
| DOOR 15 | RDR 7 | DOOR 15 | IN 7 | 2 | DOOR 15 | IN 15 | 2 |
| DOOR 16 | RDR 8 | DOOR 16 | IN 8 | 2 | DOOR 16 | IN 16 | 2 |

DOOR ELEVATION
DIAGRAMMATICALLY SHOWN WITH
ELECTRIC MORTISE LOCK AND
REQUEST TO EXIT MOTION SENSOR

REX IN LOCK



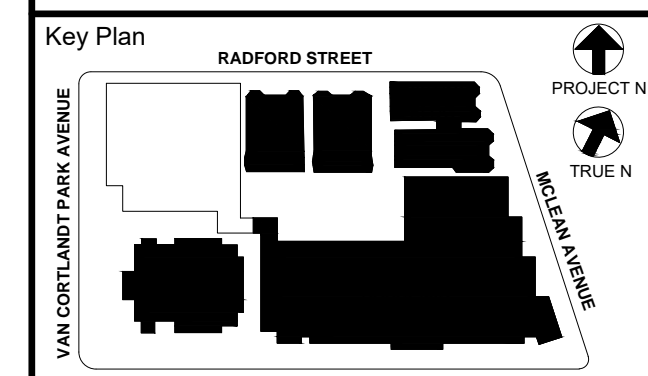
NOTE:
 • THIS IS A DEVICE CONNECTION DRAWING SHOWING A TYPICAL DOOR SETUP. THIS MAY OR MAY NOT REPRESENT THE ELECTRIFIED HARDWARE BEING USED ON THIS PROJECT. SEE DOOR TYPICAL FOR MORE INFORMATION AND CONFIRM HARDWARE TYPE FOR EACH SPECIFIC LOCATION PRIOR TO ANY INSTALLATION.
 • FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

NEW COMMUNITY
SCHOOL 35 AT ST
DENIS SITE
YONKERS JOINT SCHOOLS
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

KG+D listen
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KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P:914.688.5800 KGDARCHITECTS.COM

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603
SECURITY SYSTEMS

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001



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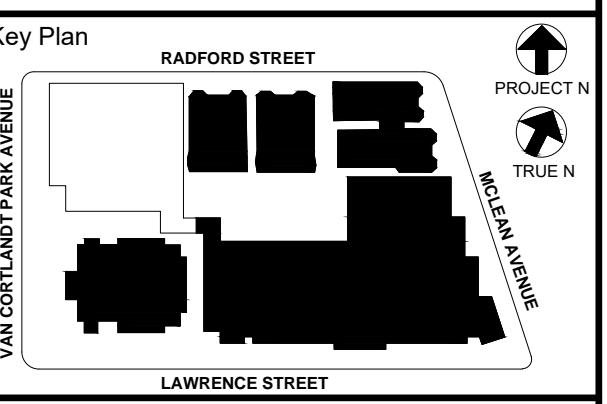
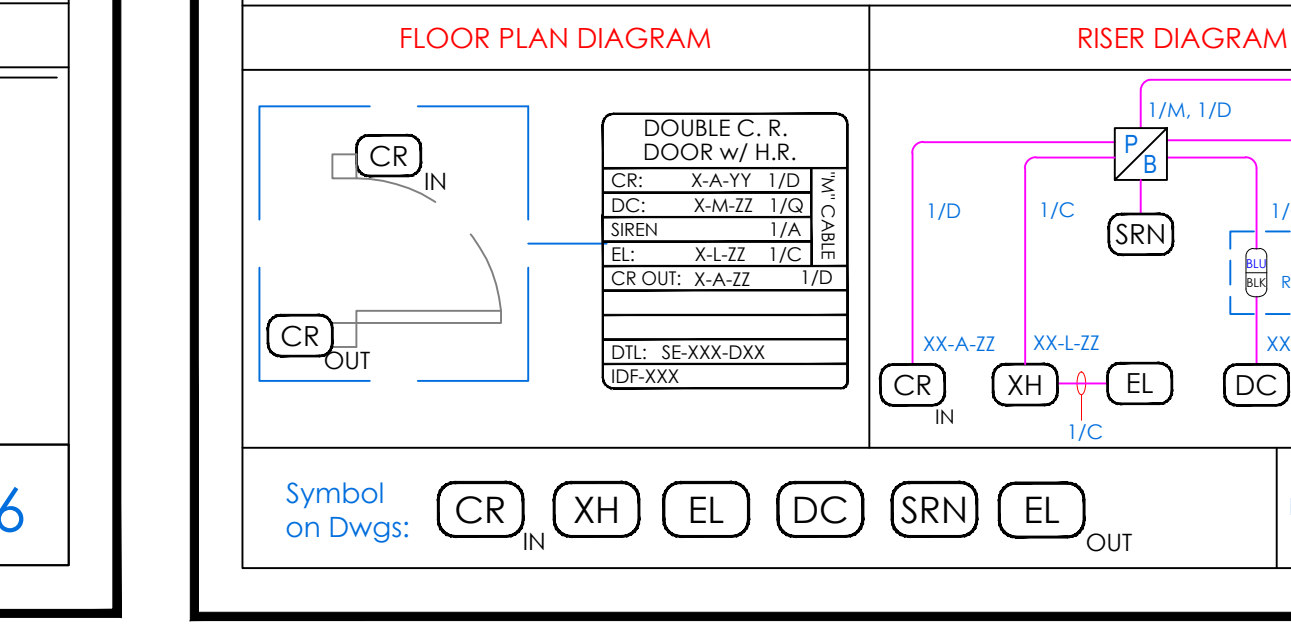
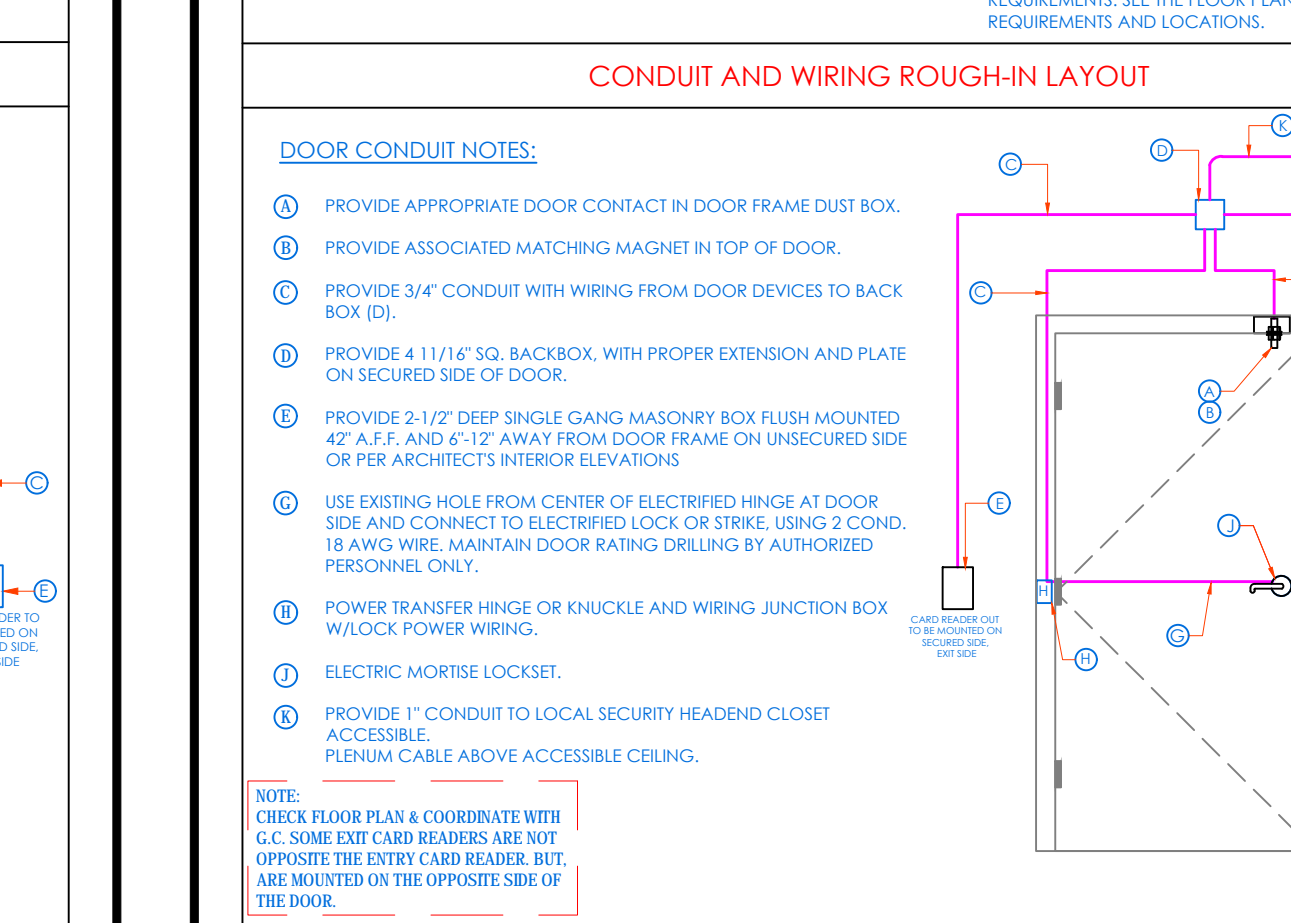
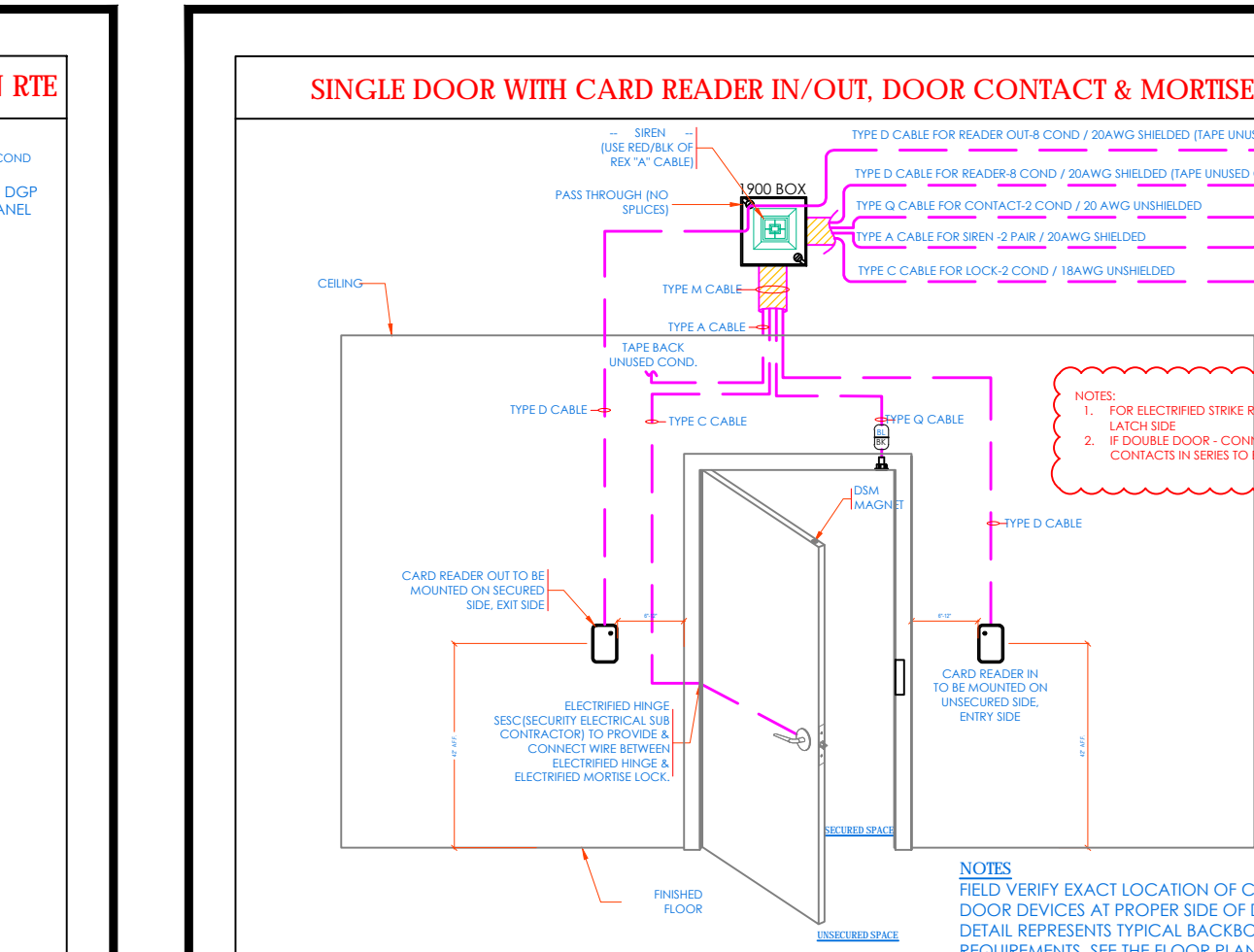
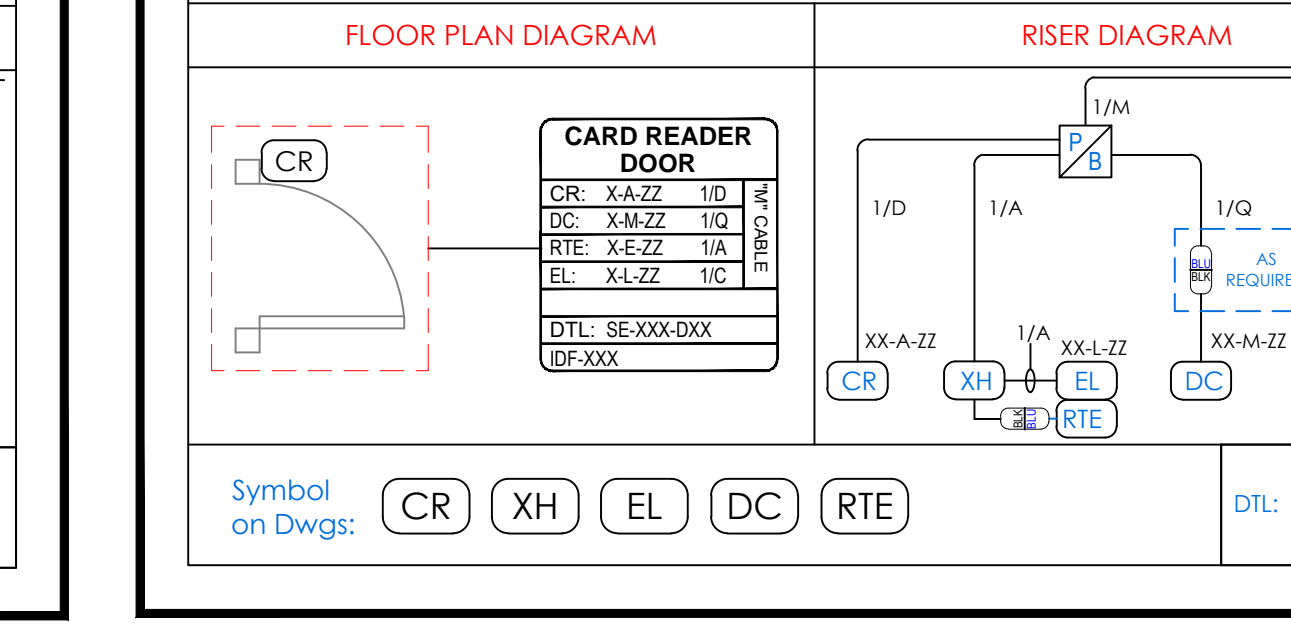
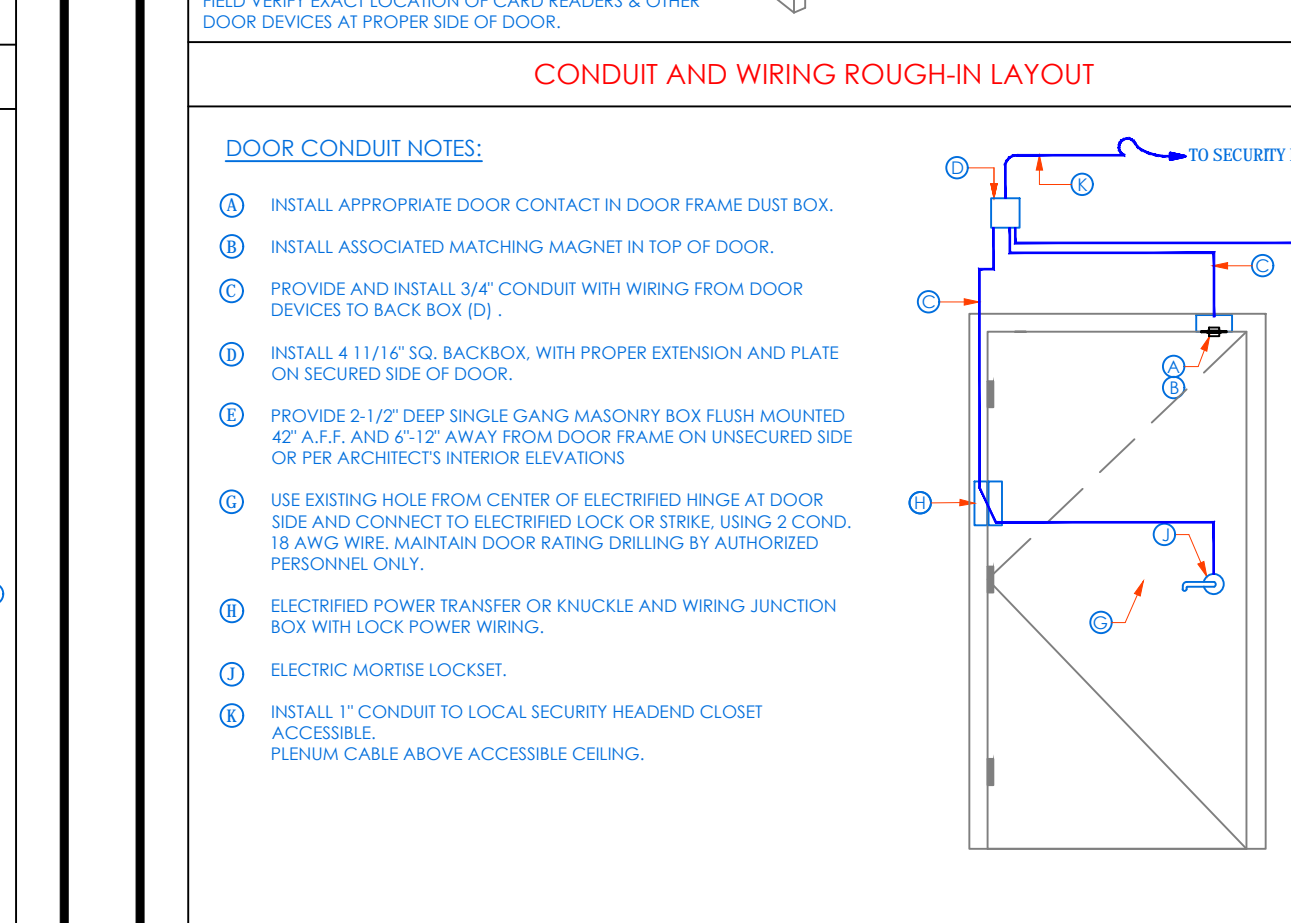
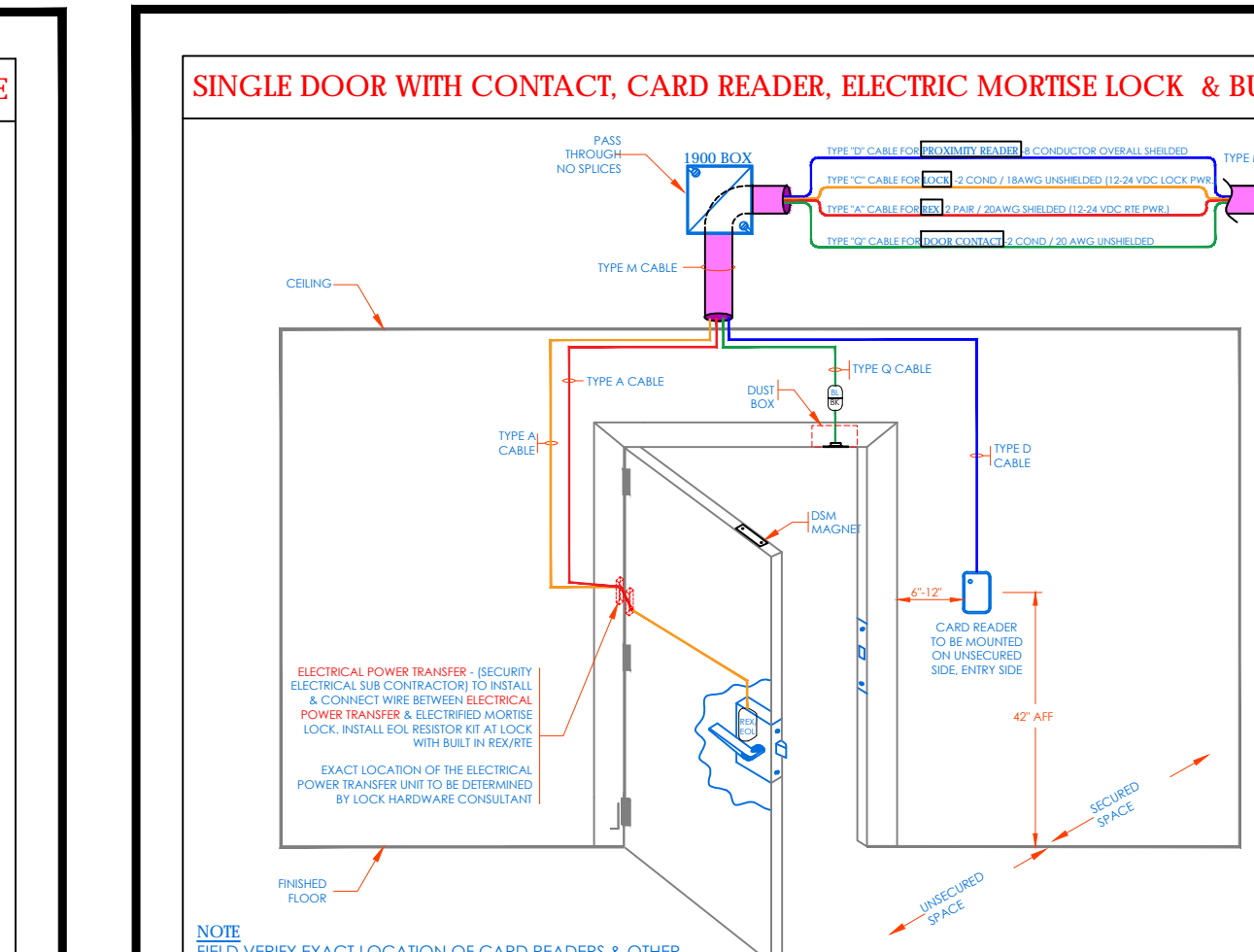
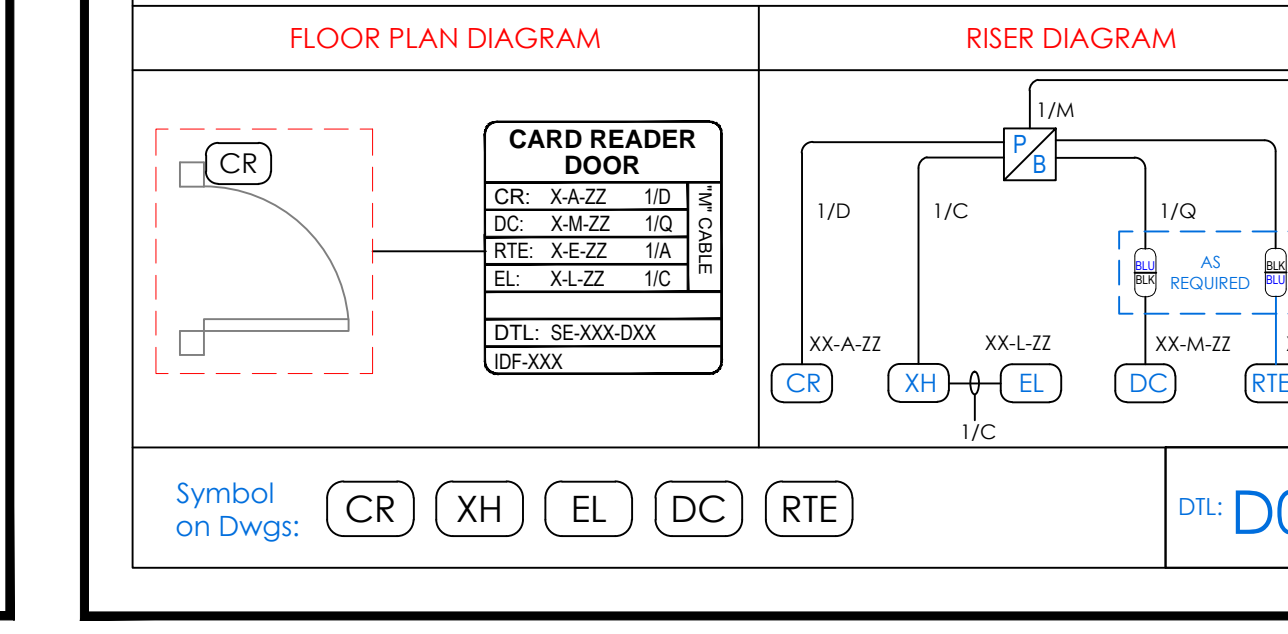
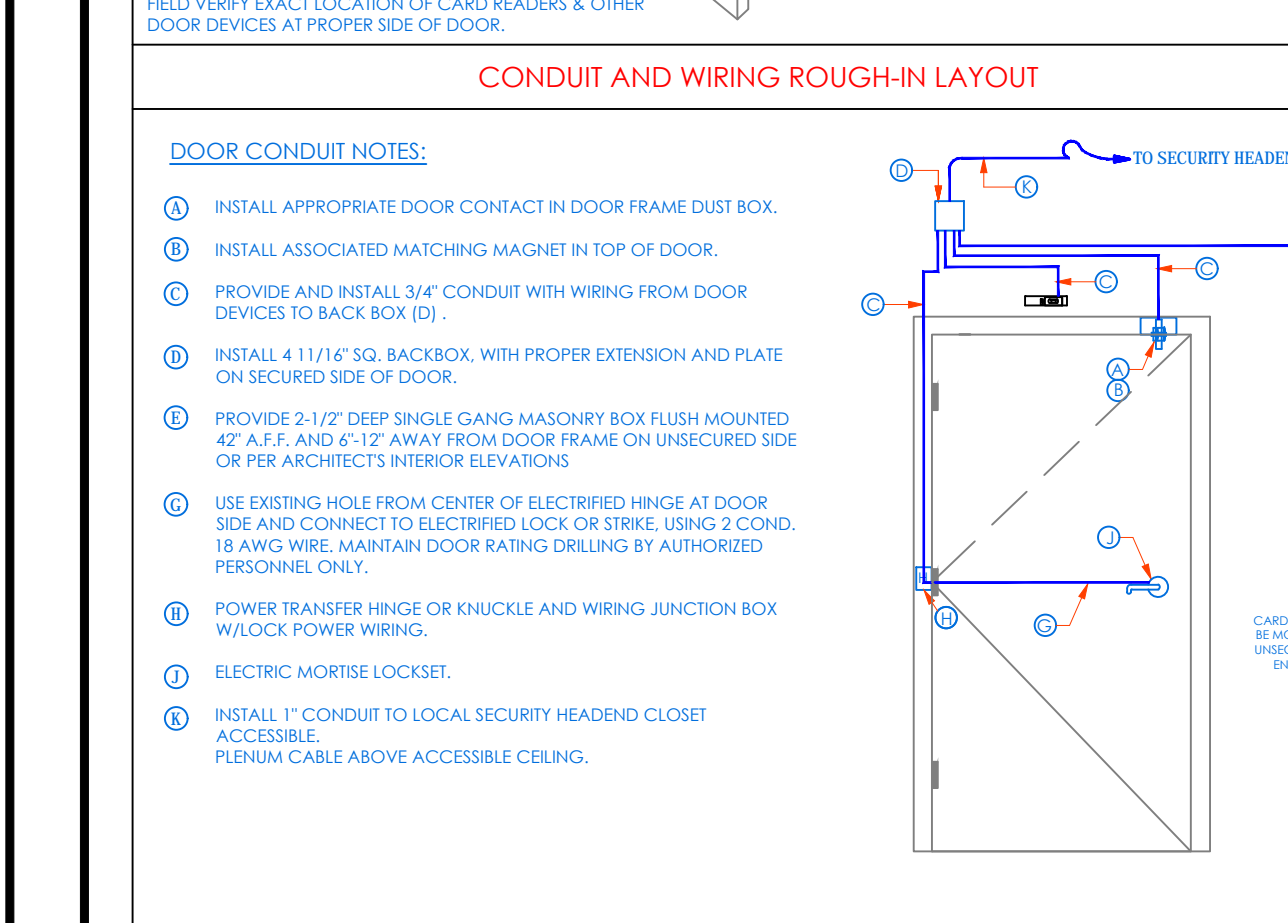
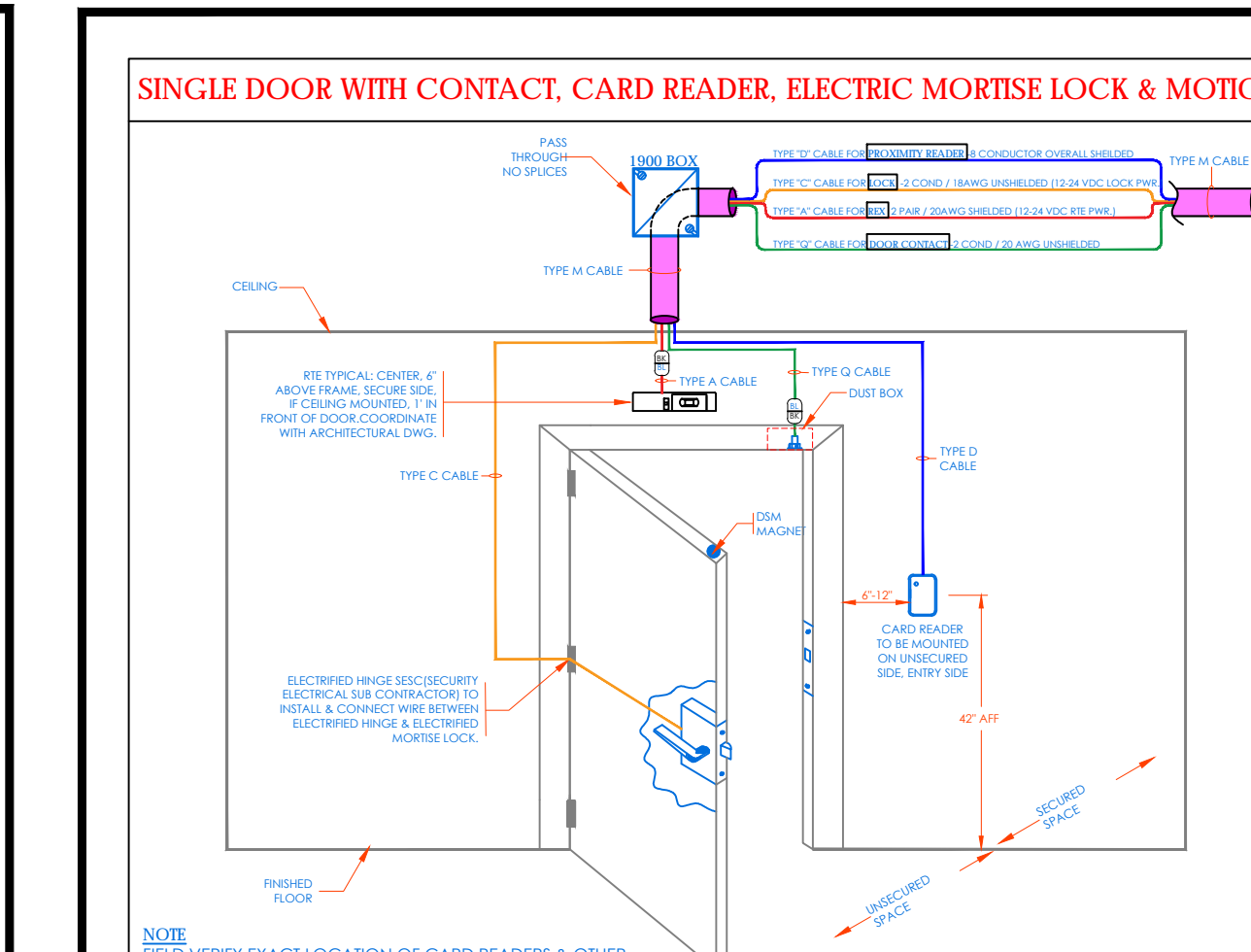
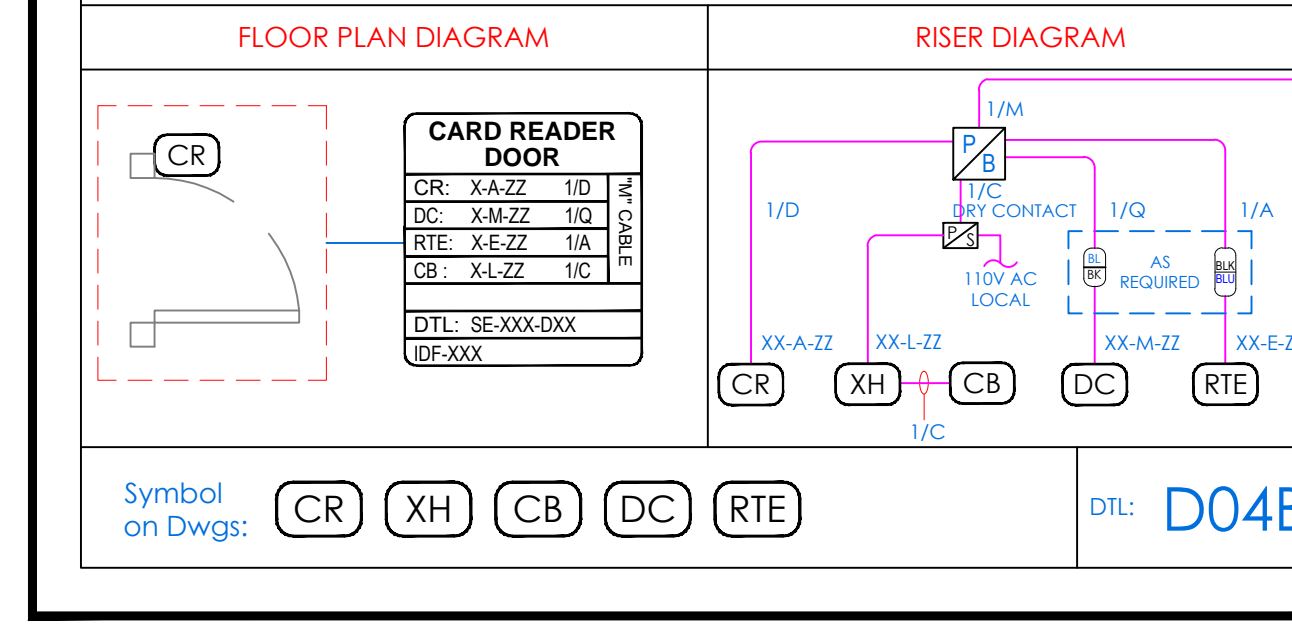
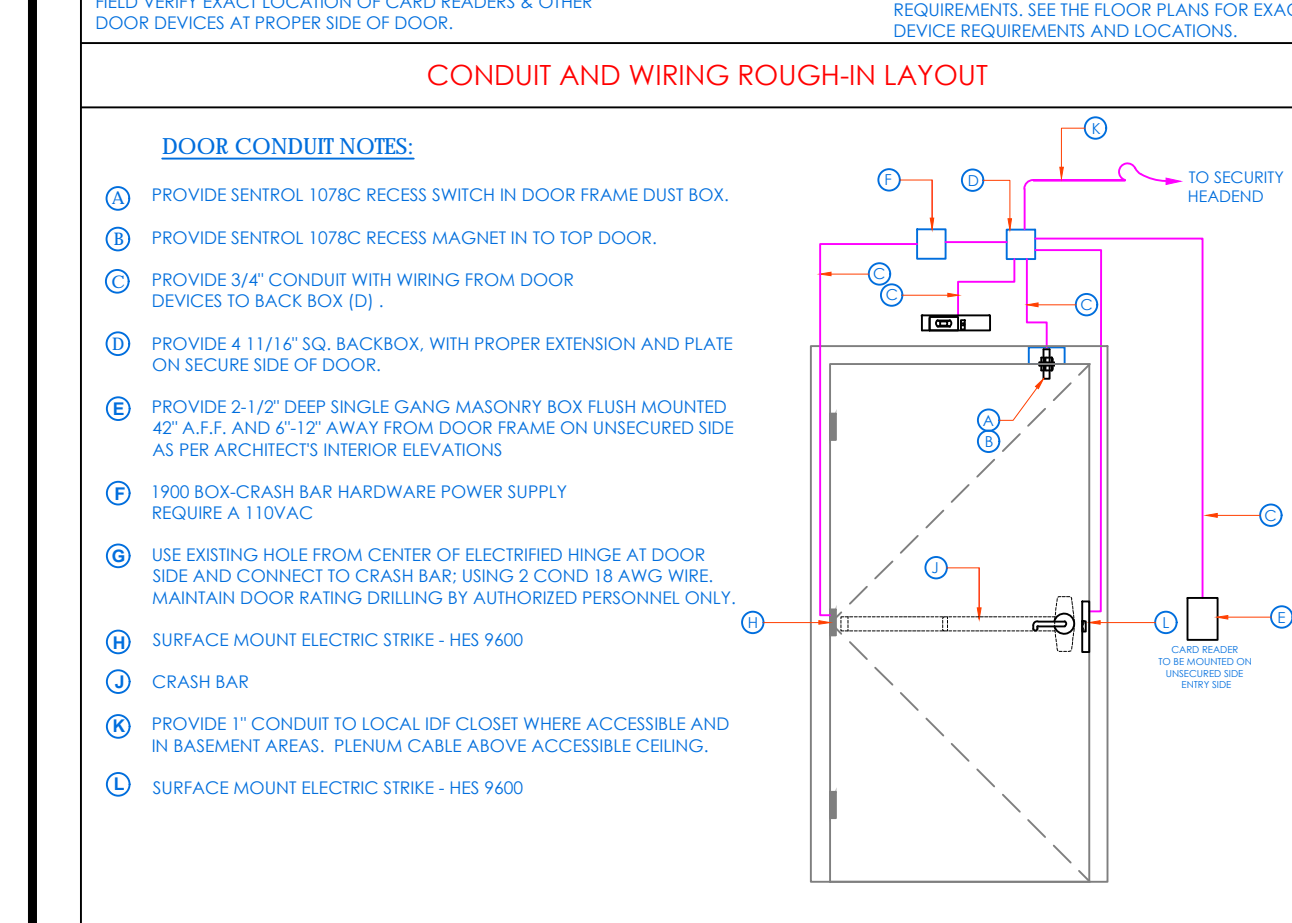
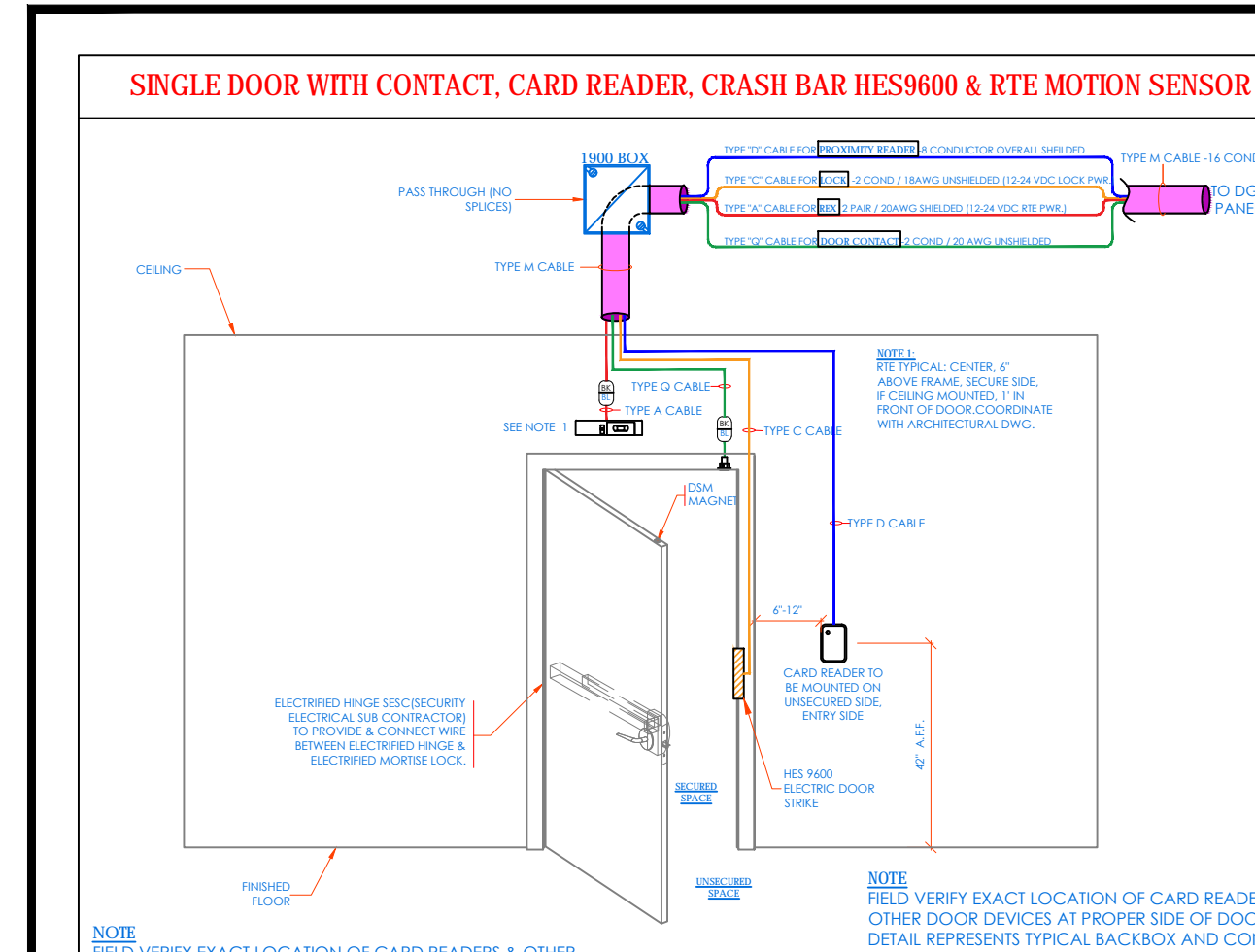
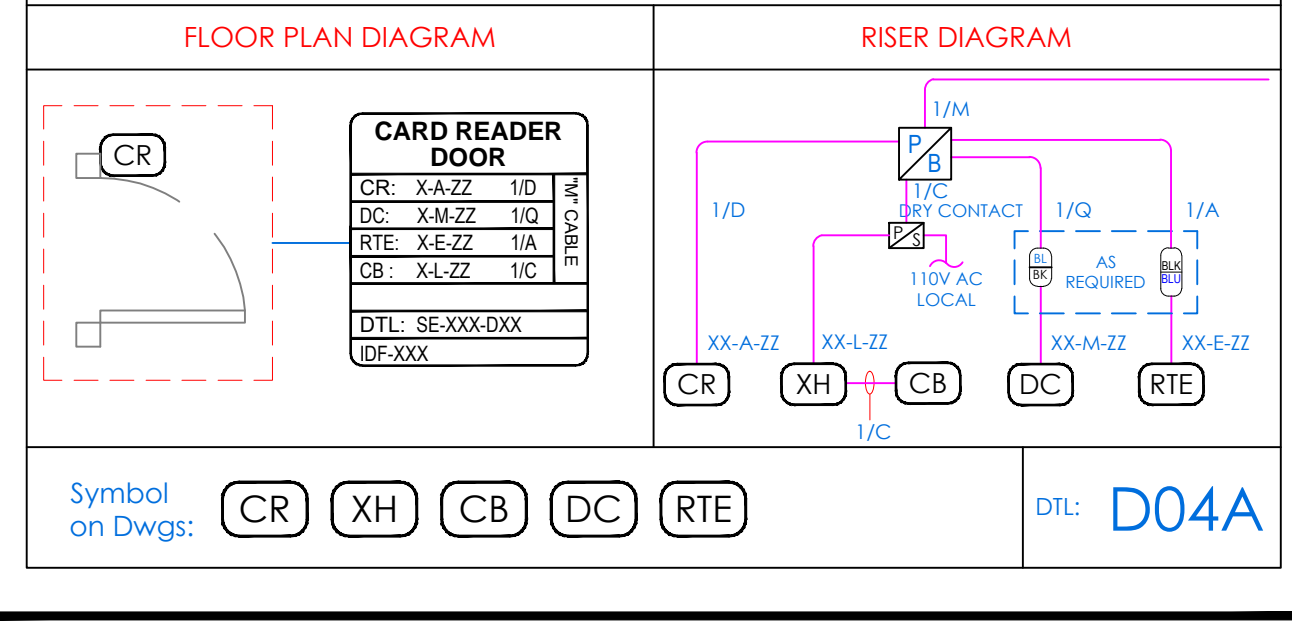
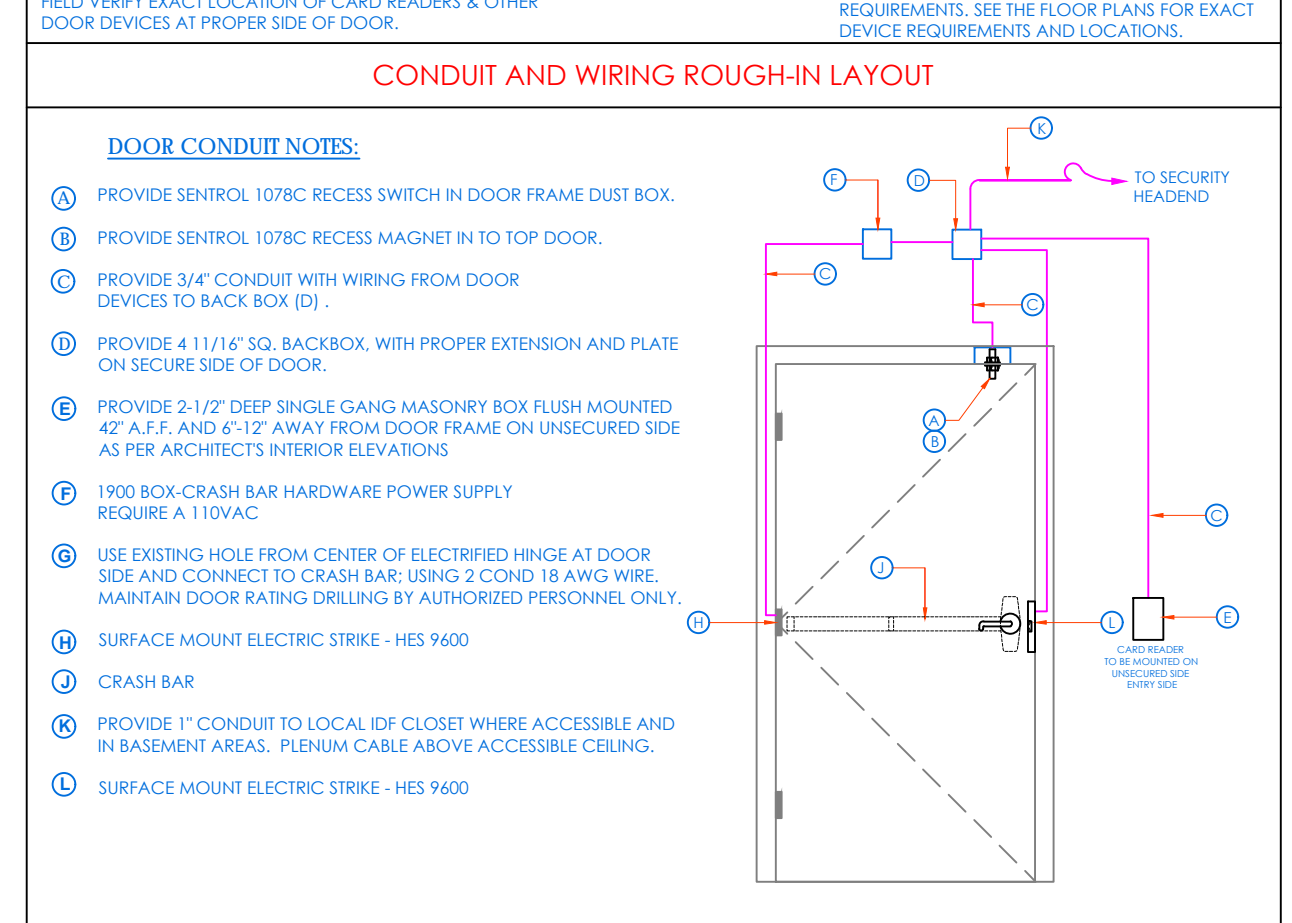
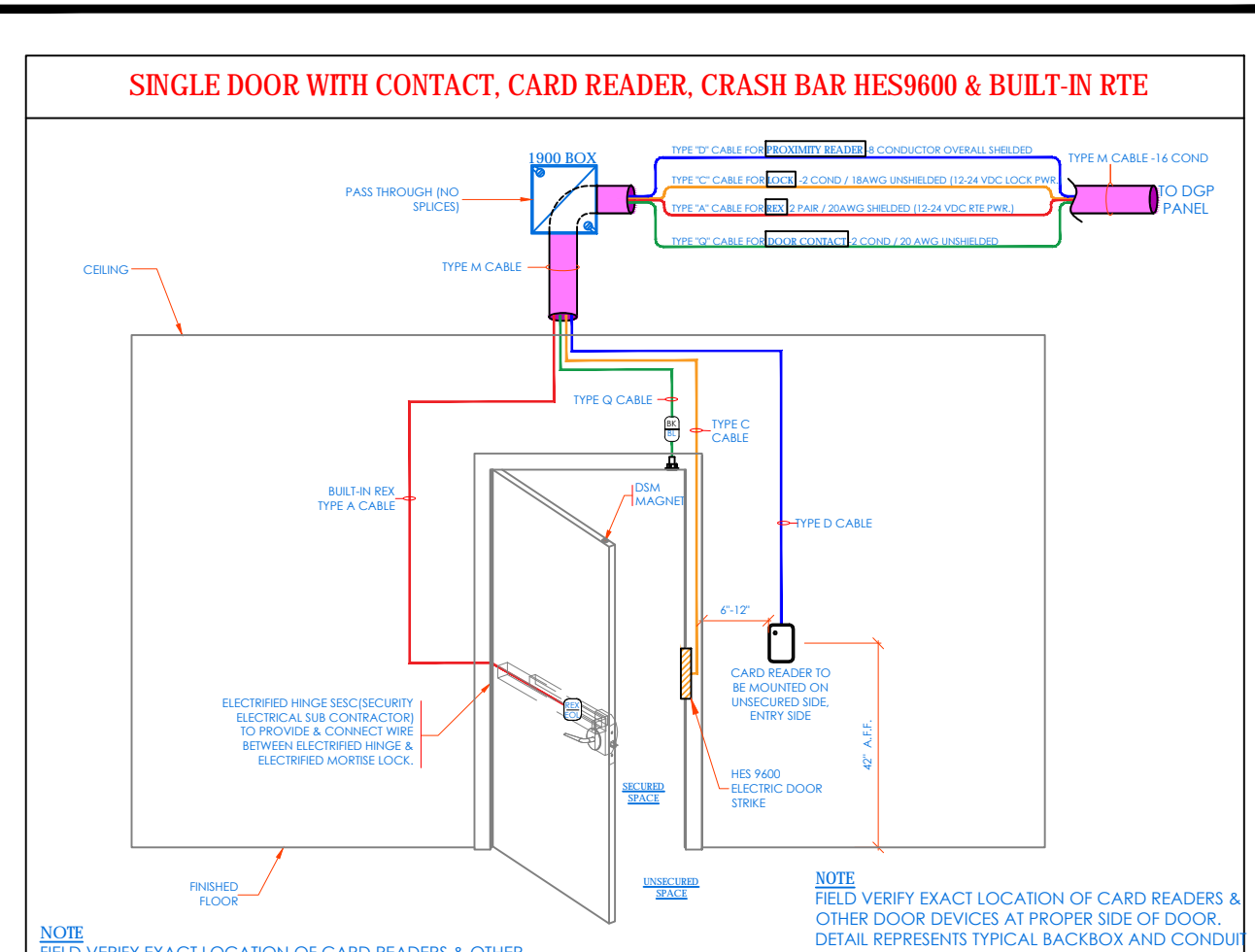
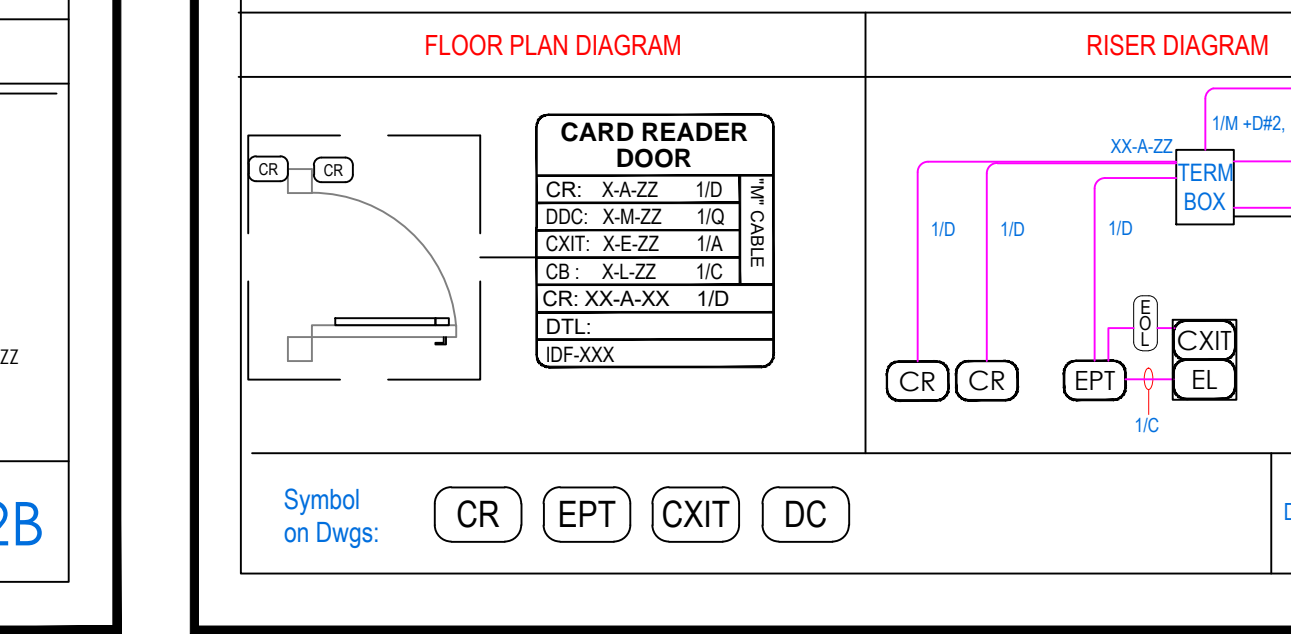
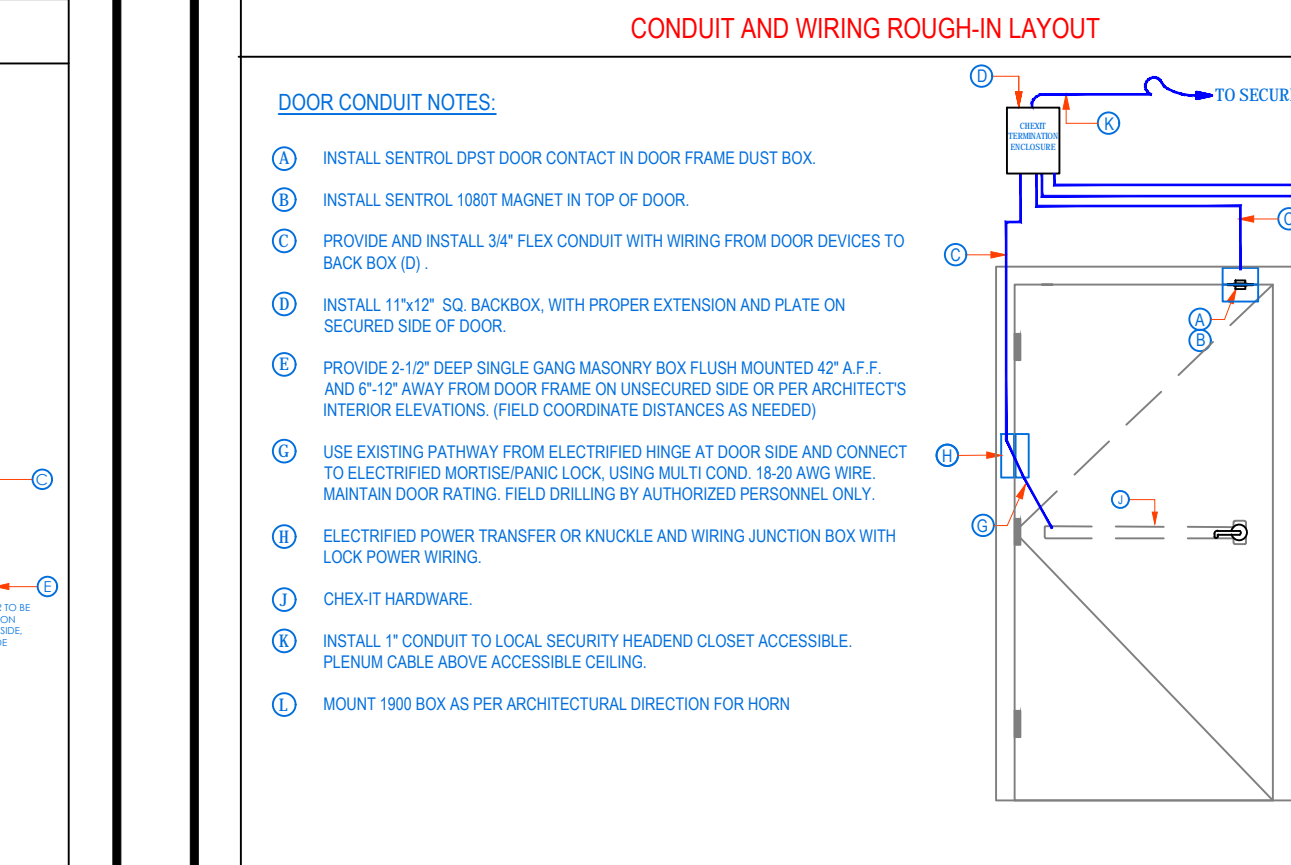
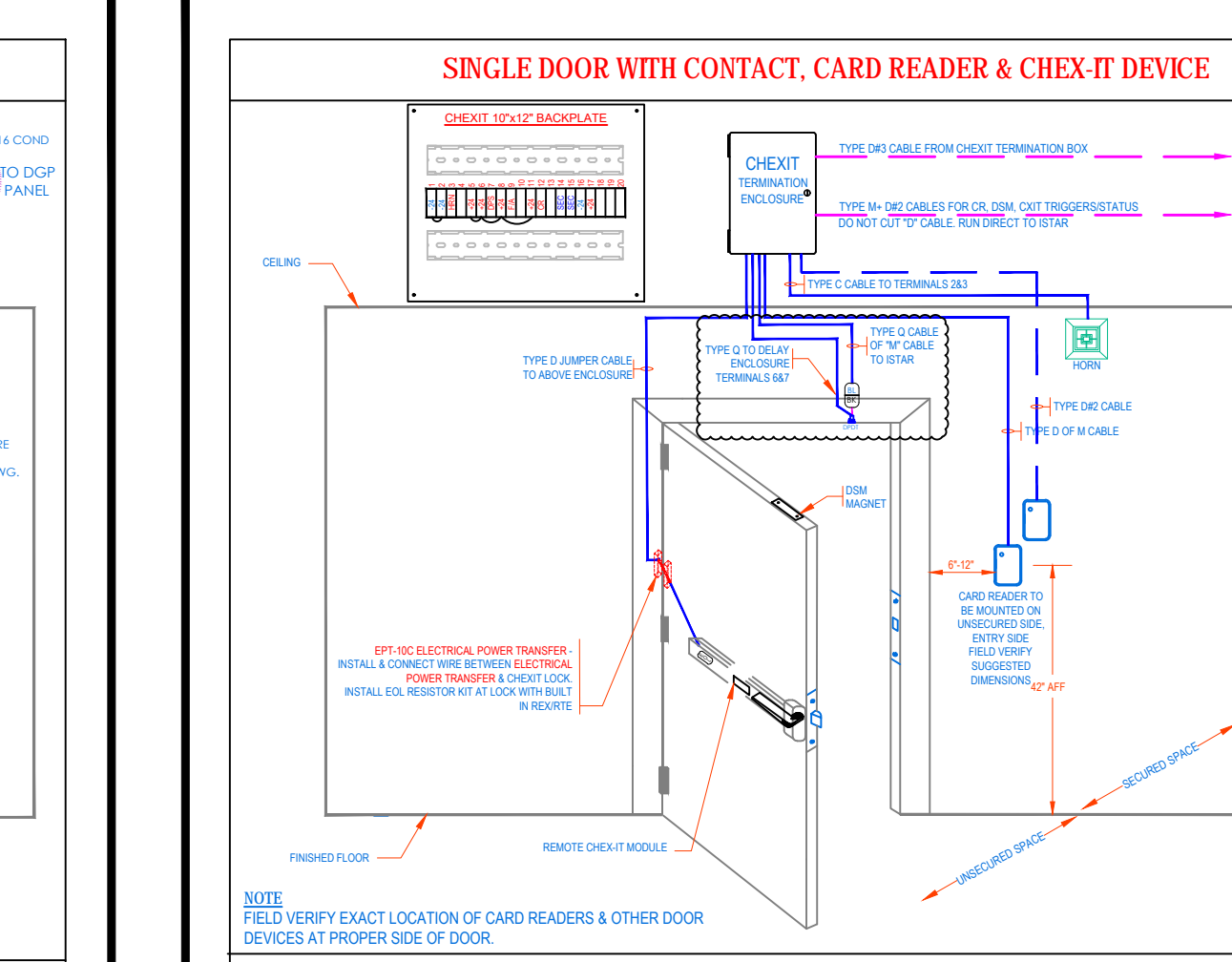
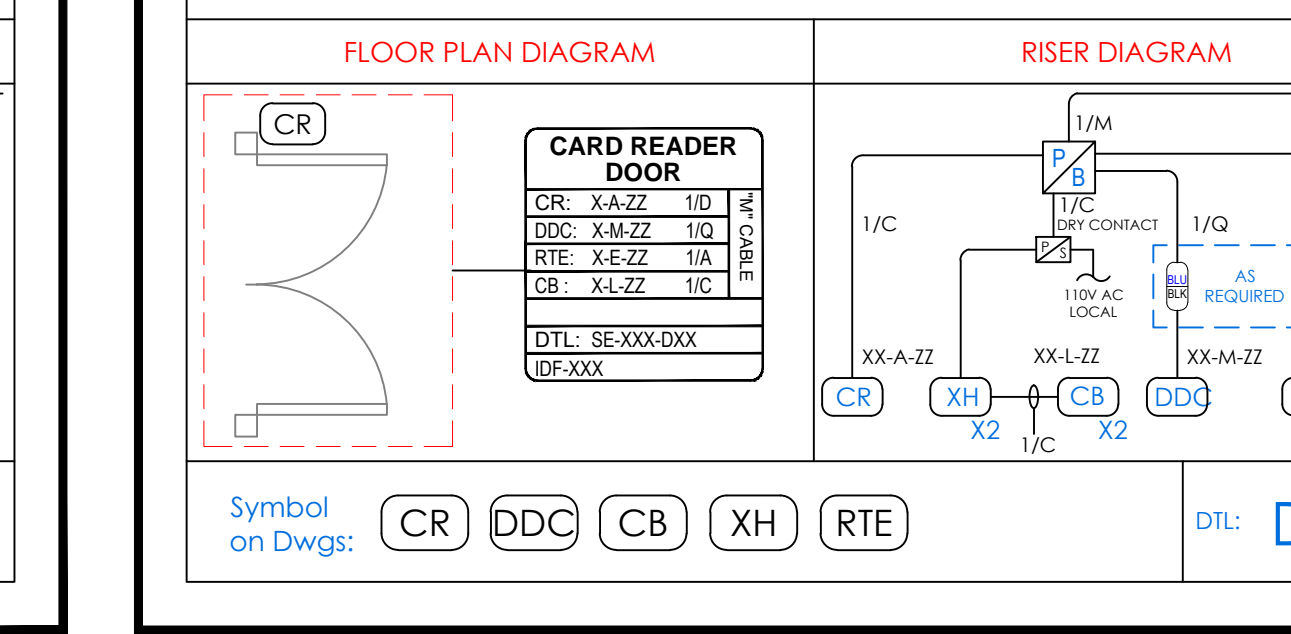
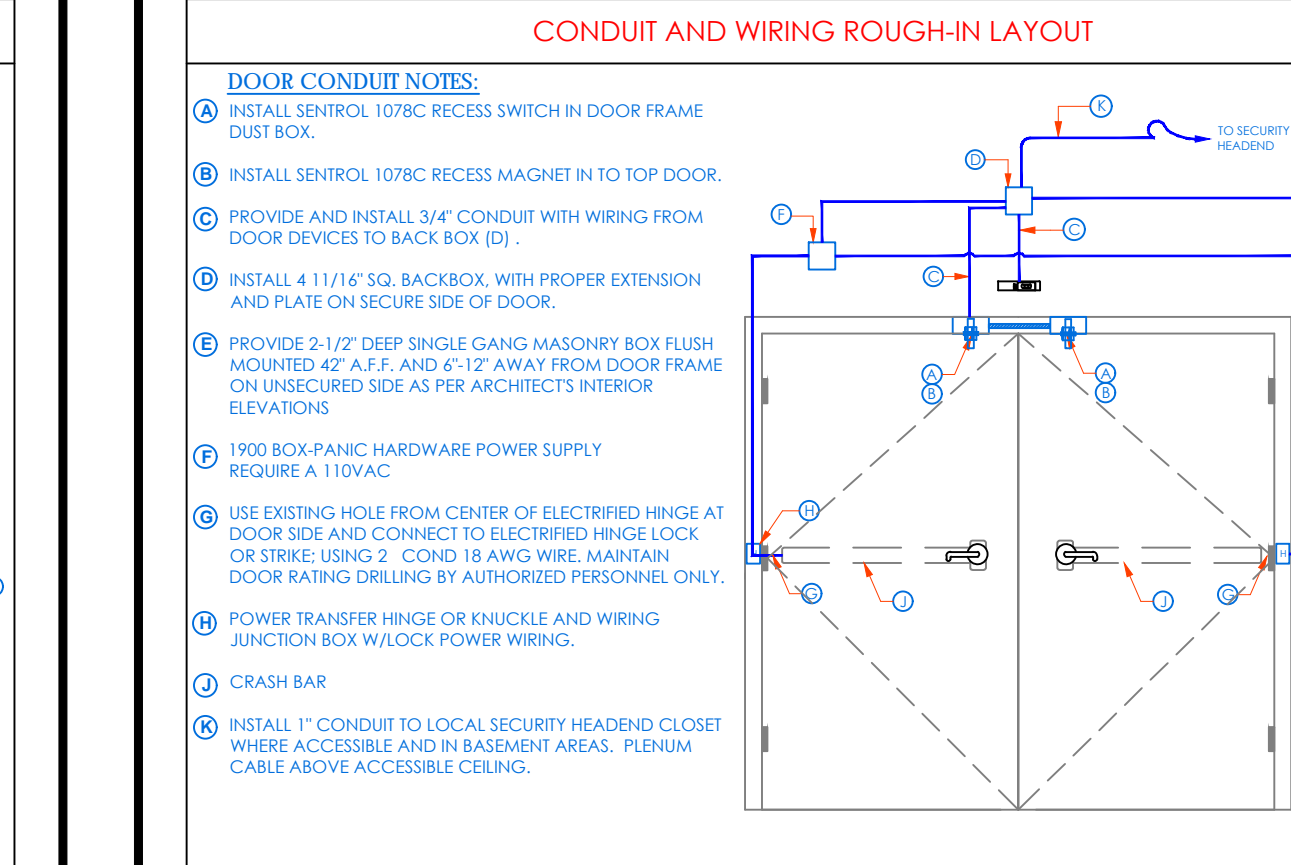
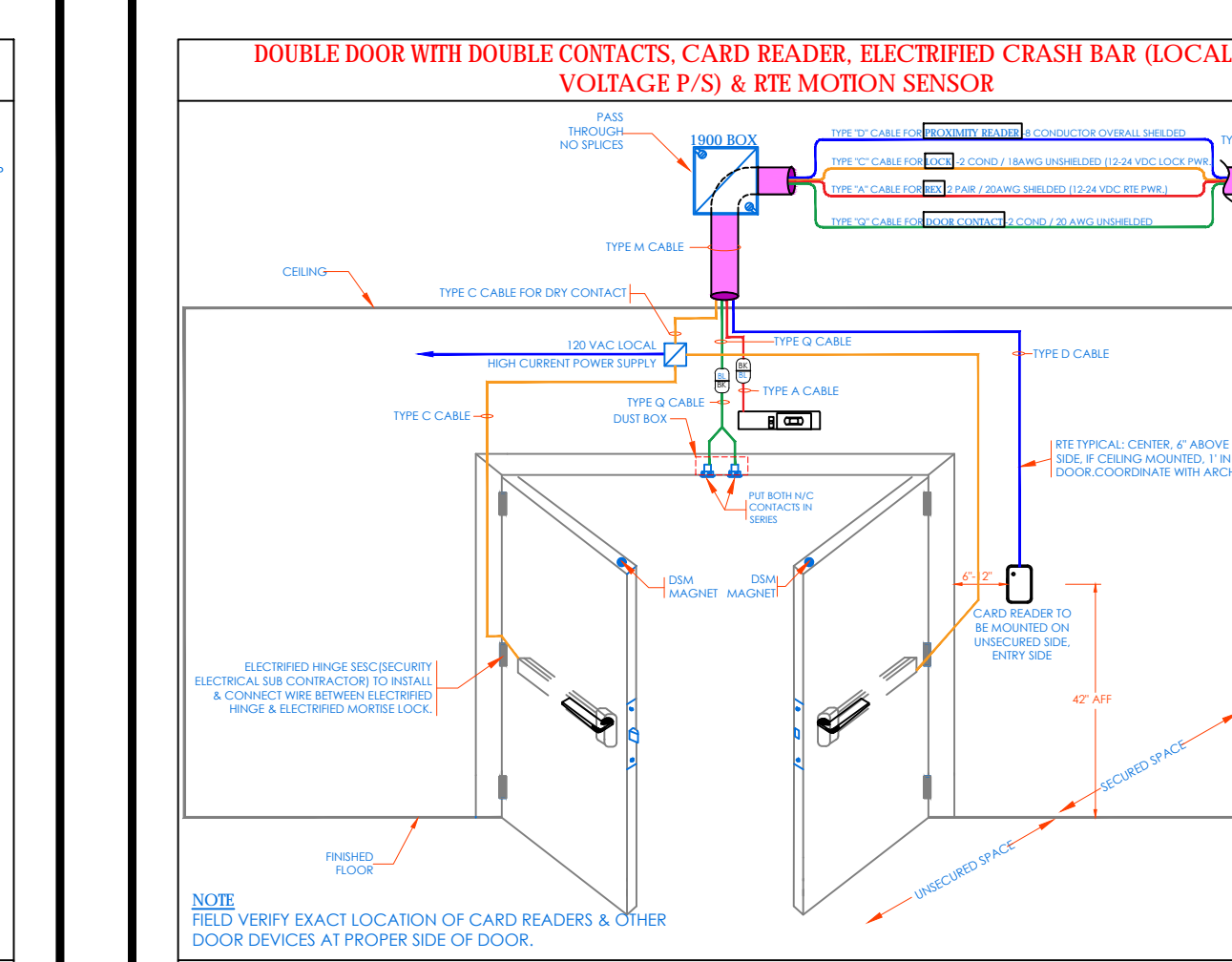
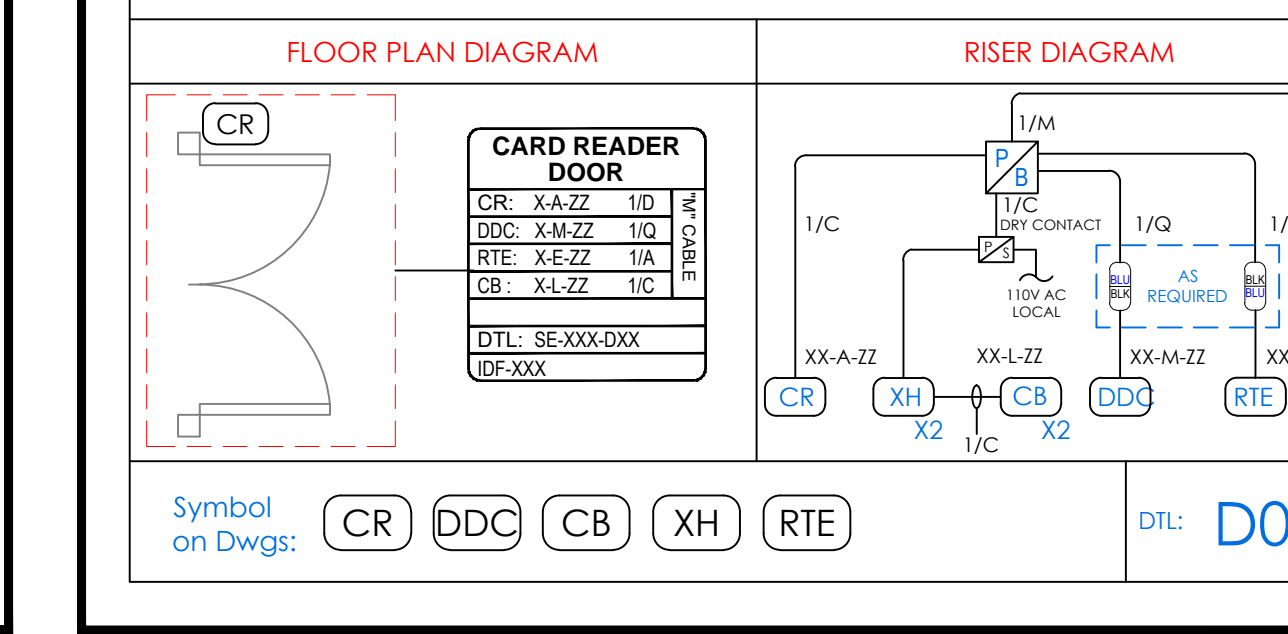
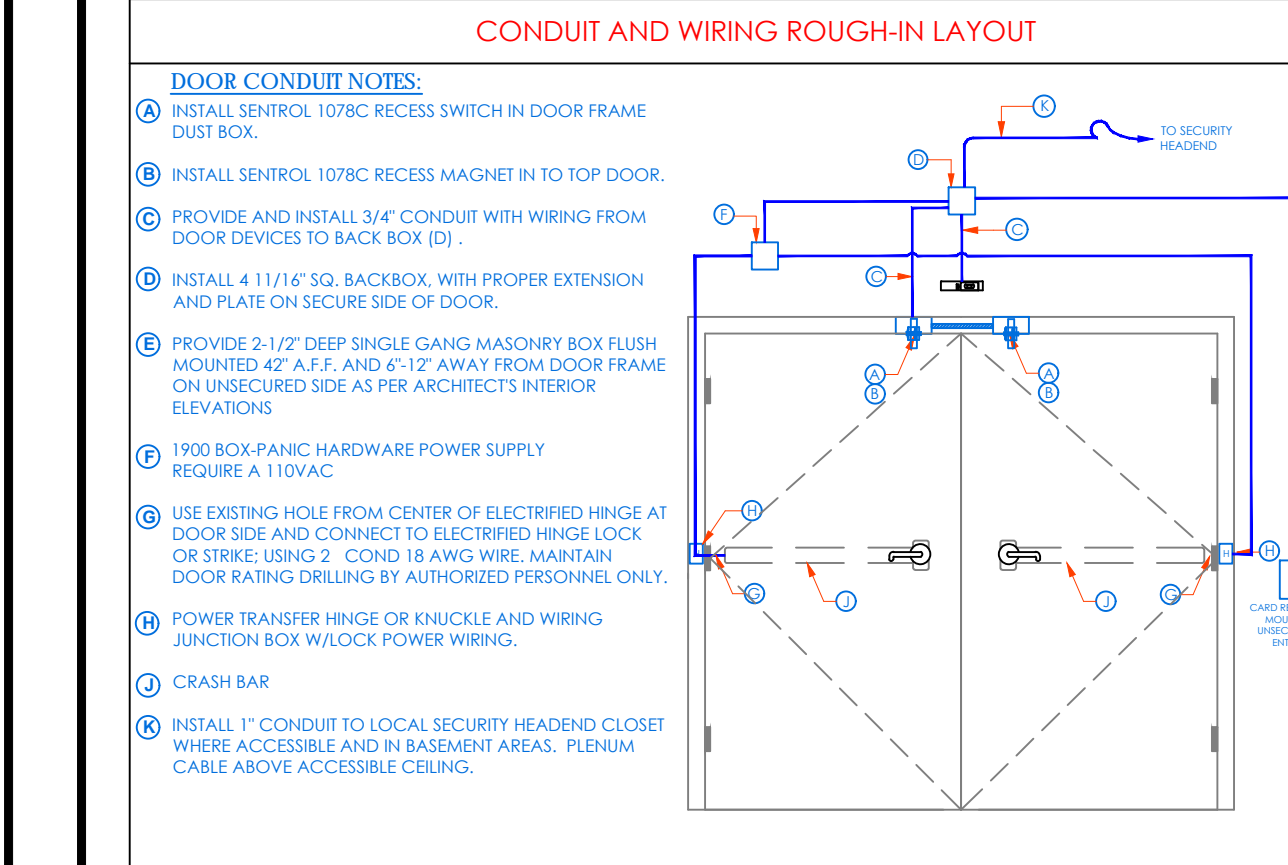
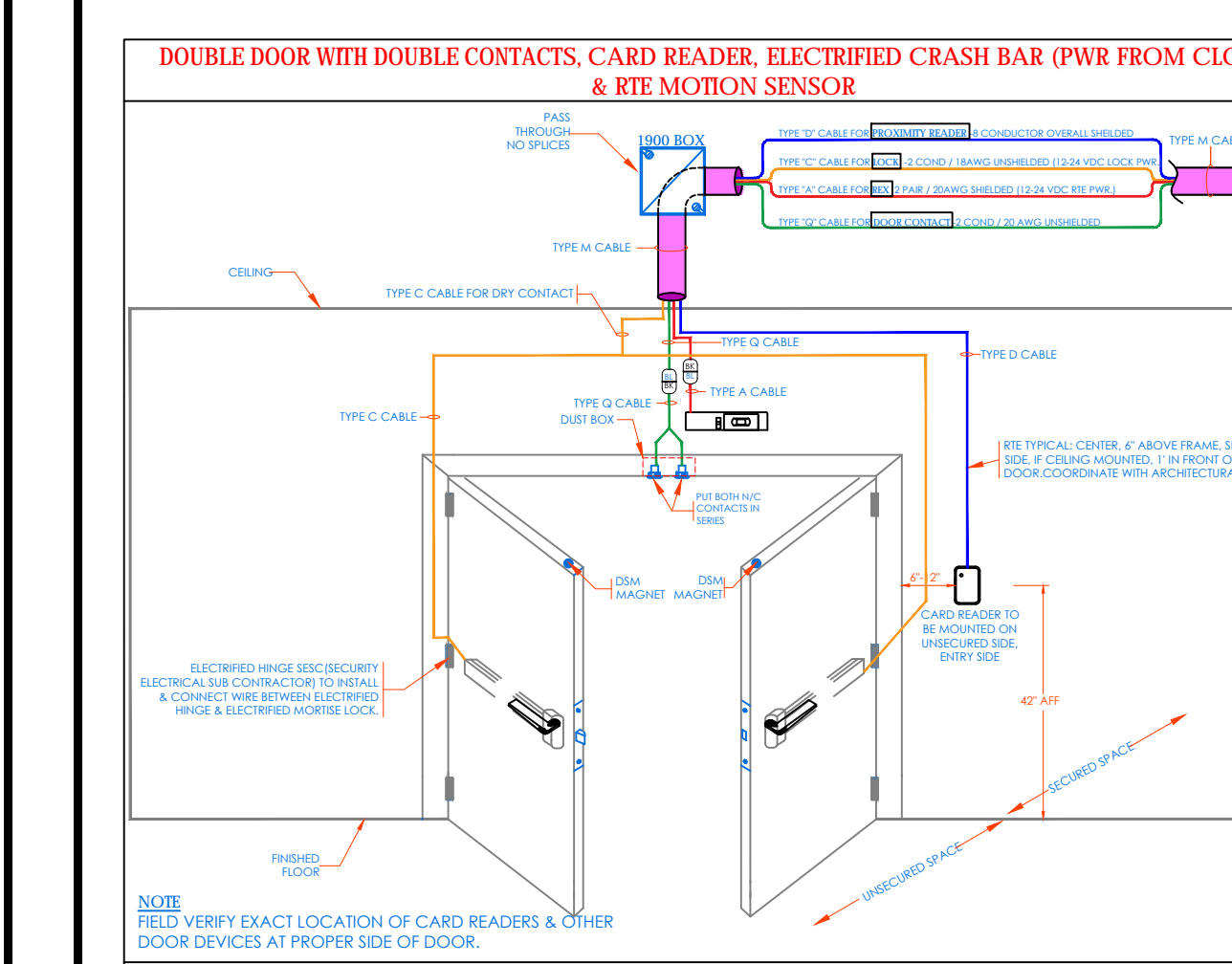
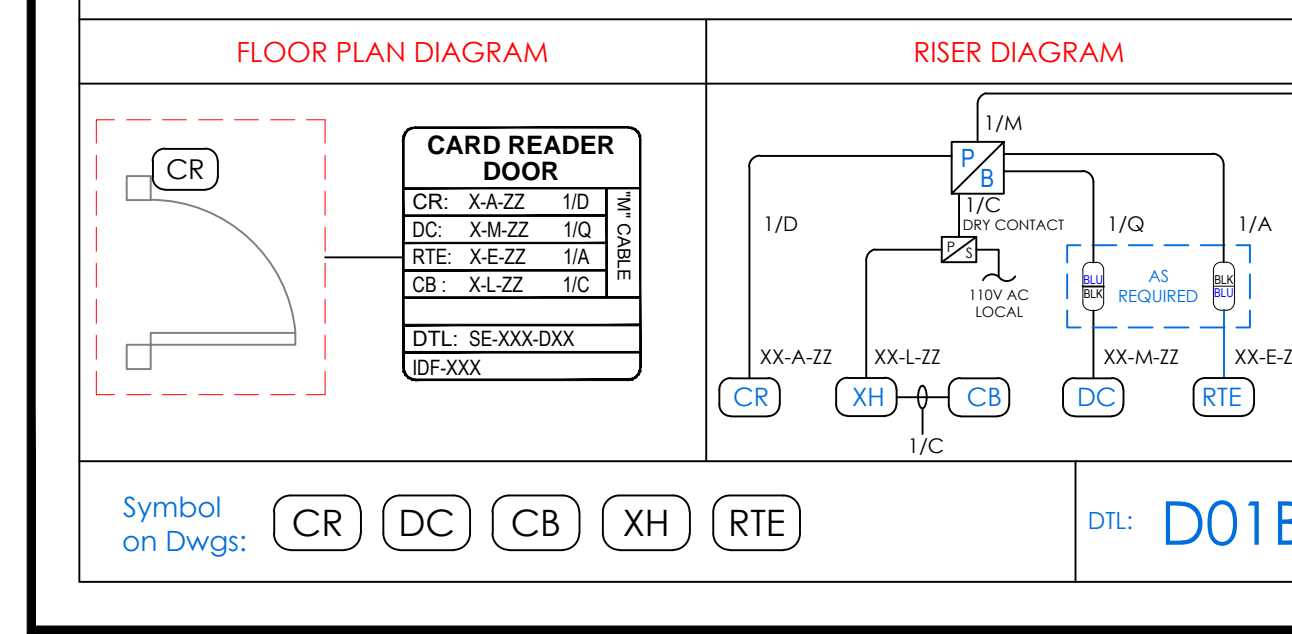
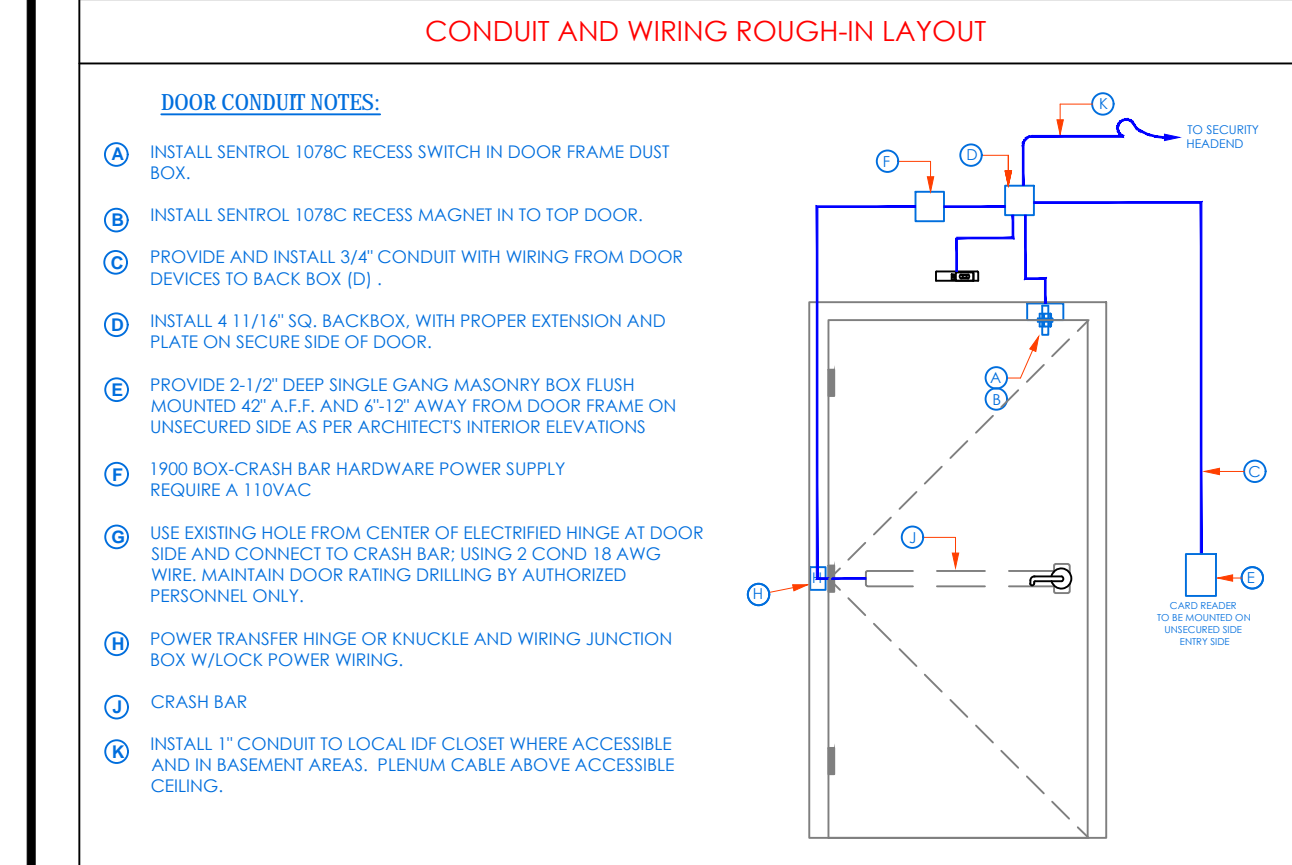
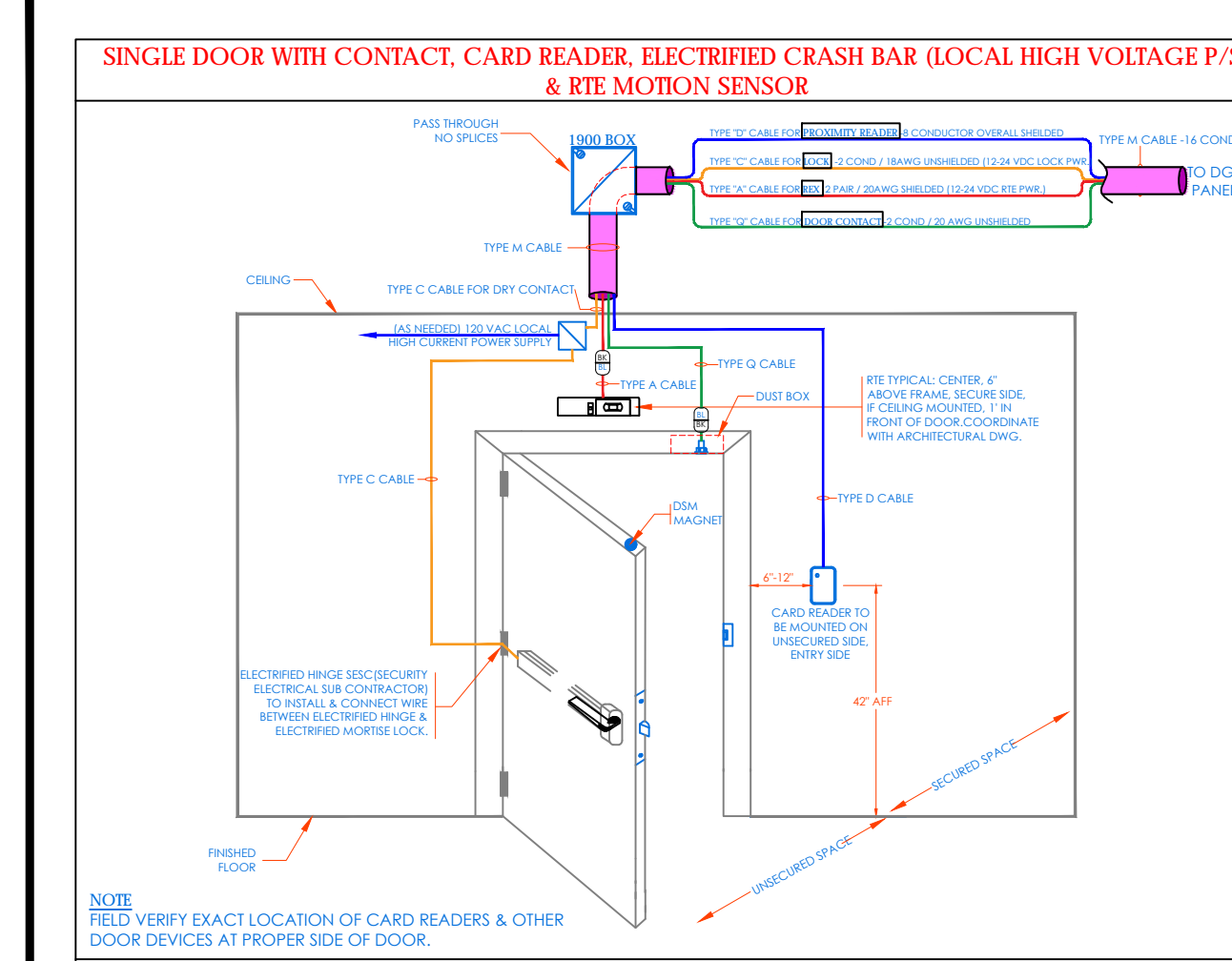
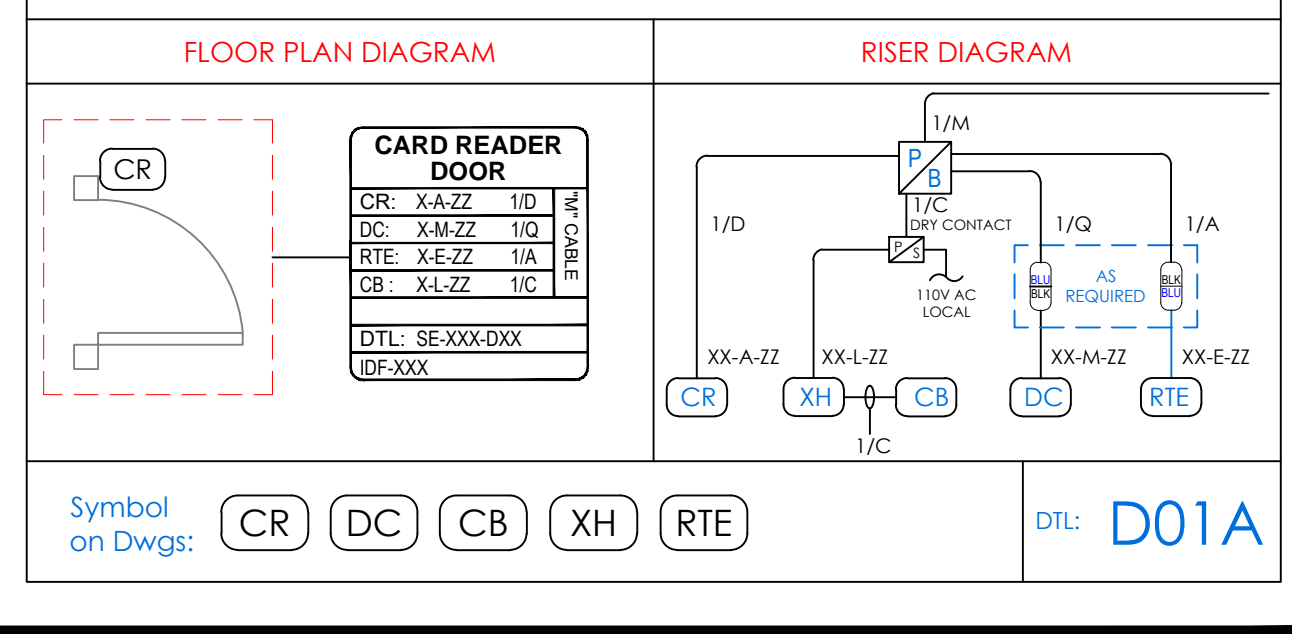
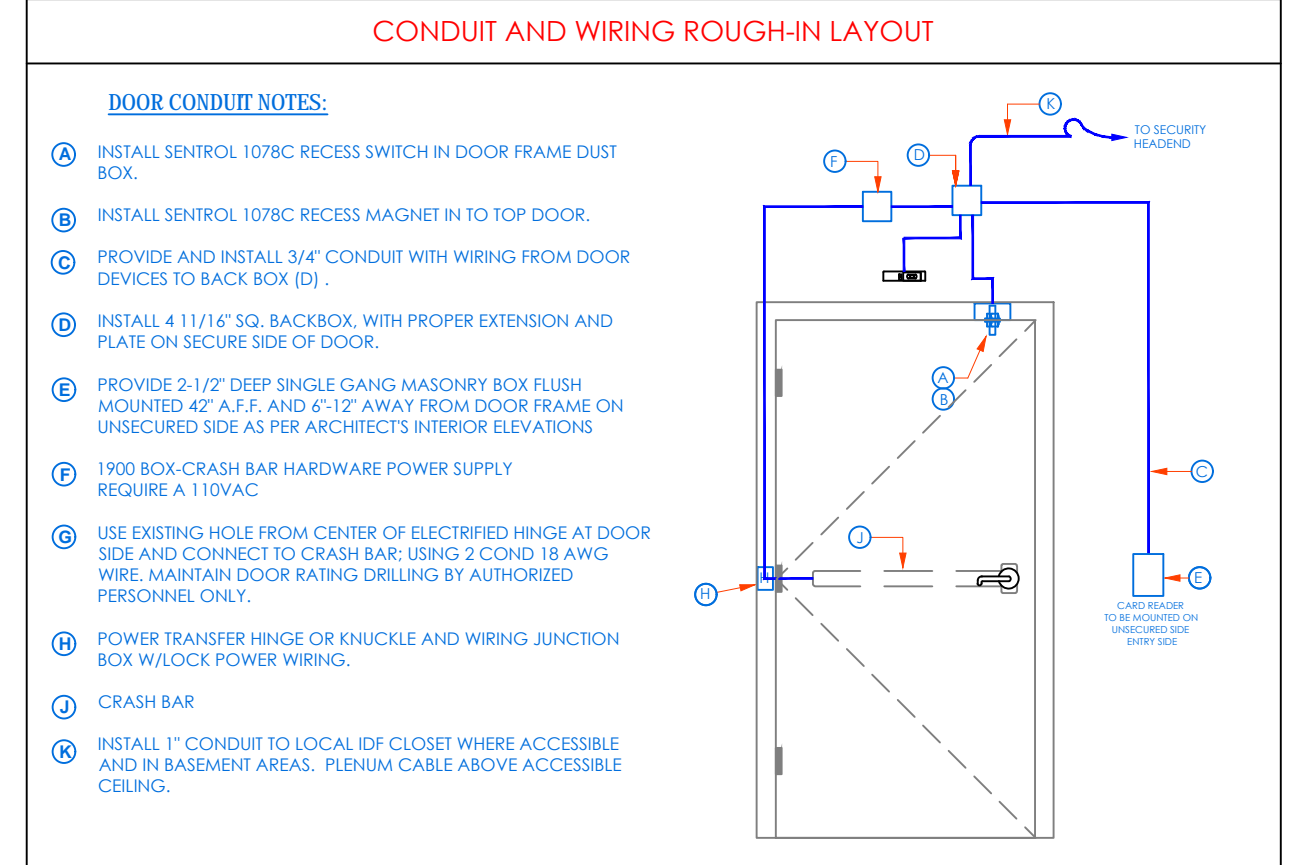
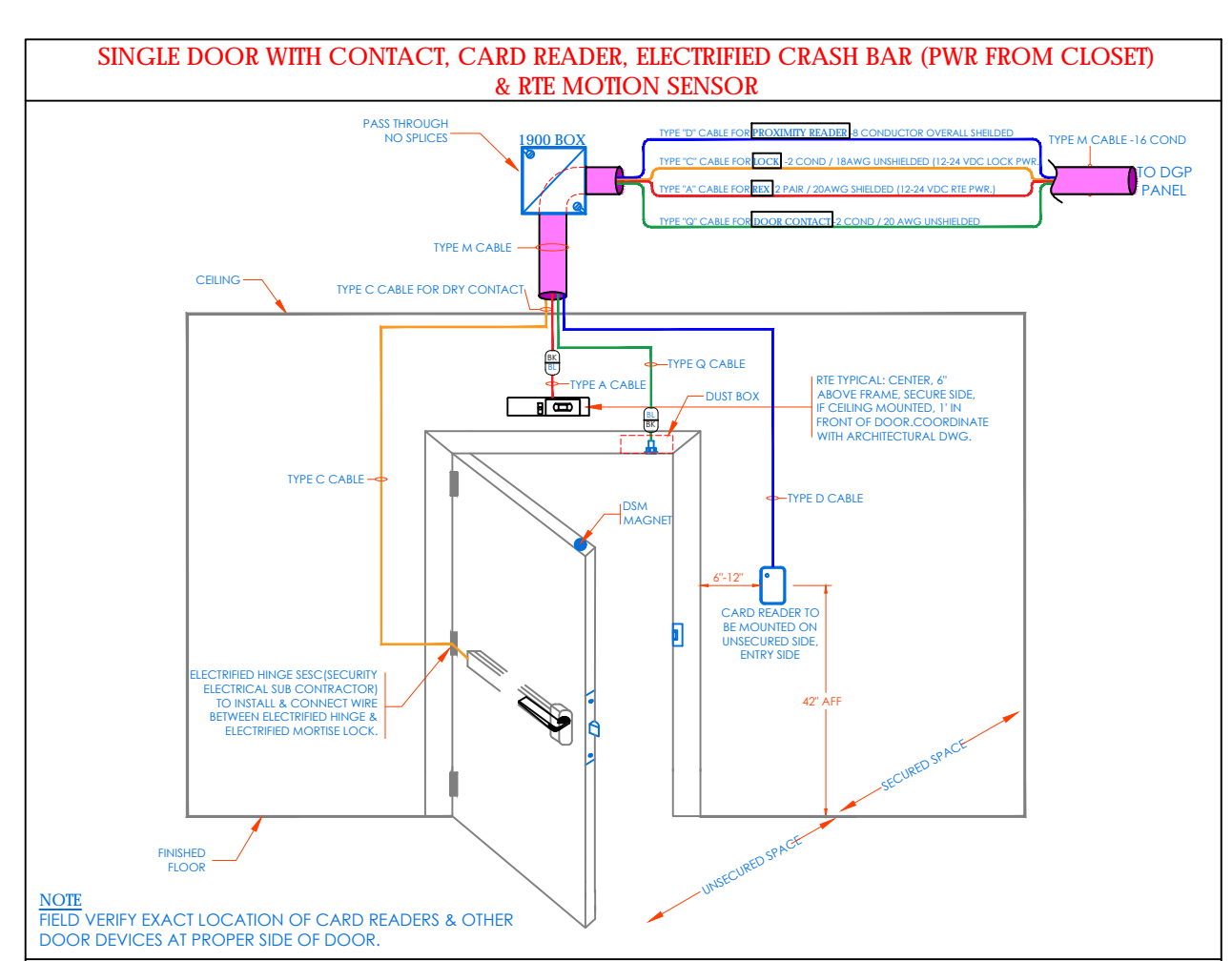
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| No. | Date | Issue |

Sheet Title
ULTRA SE TYPICAL WIRING
DIAGRAM FOR 16 CR DOORS
w/ BUILT-IN REX

Job No. 2019-1026 Date 08/31/2020
Scale: AS NOTED Drawn / Checked
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SE-702-B



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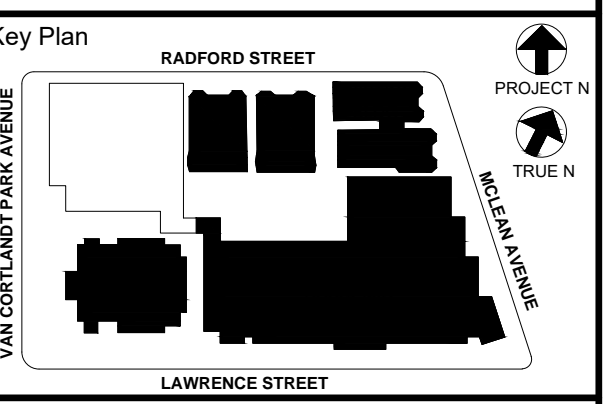
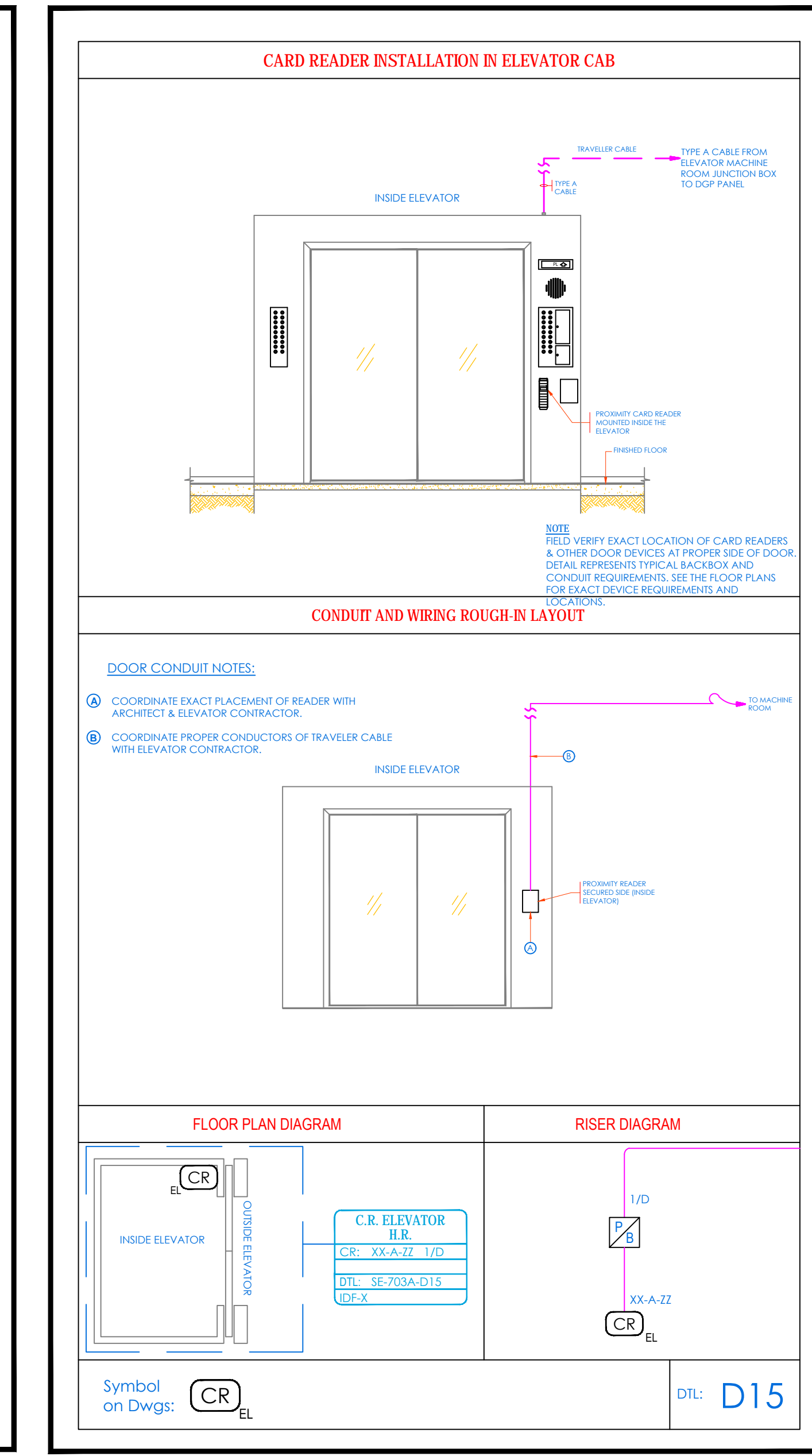
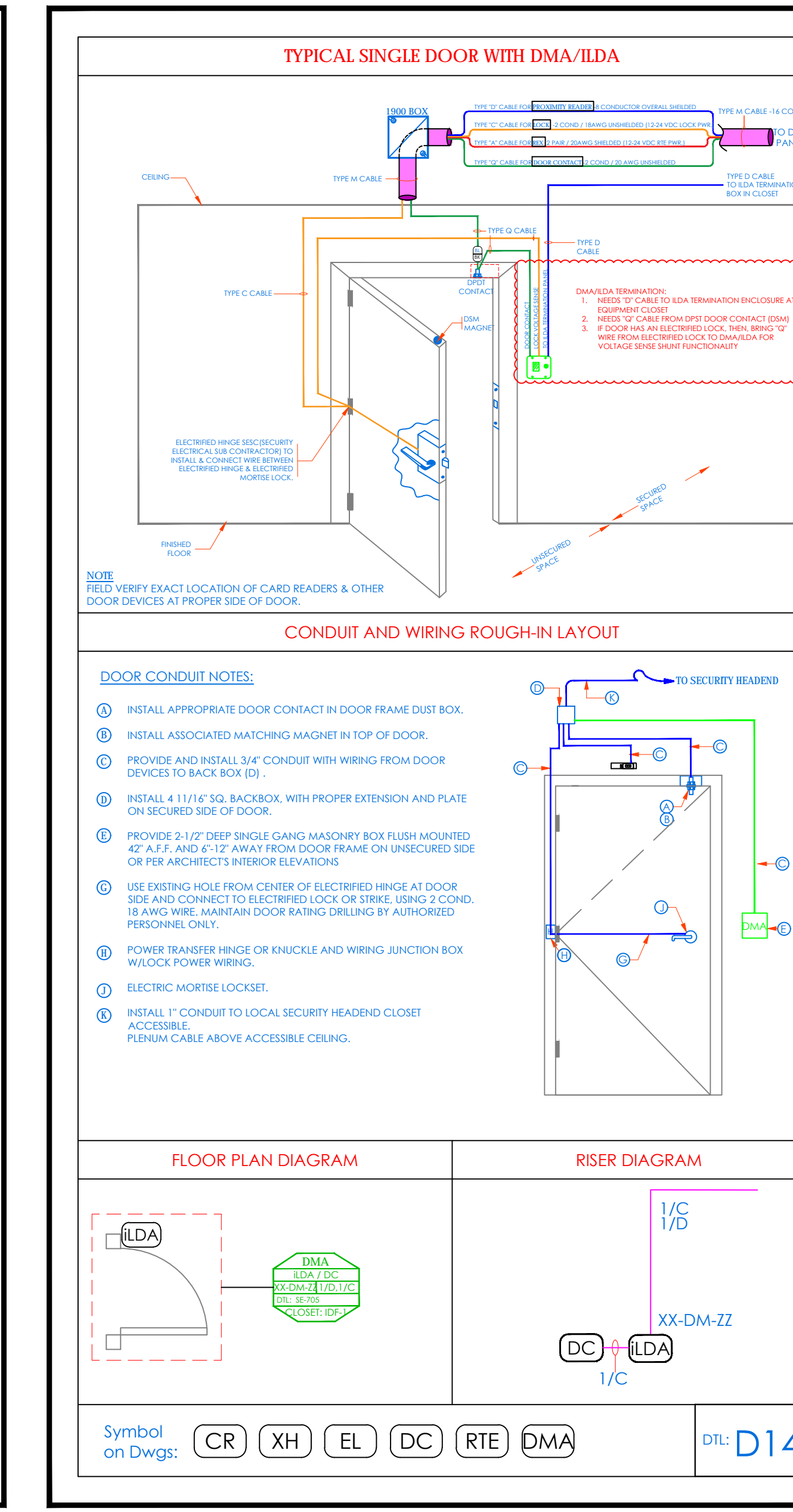
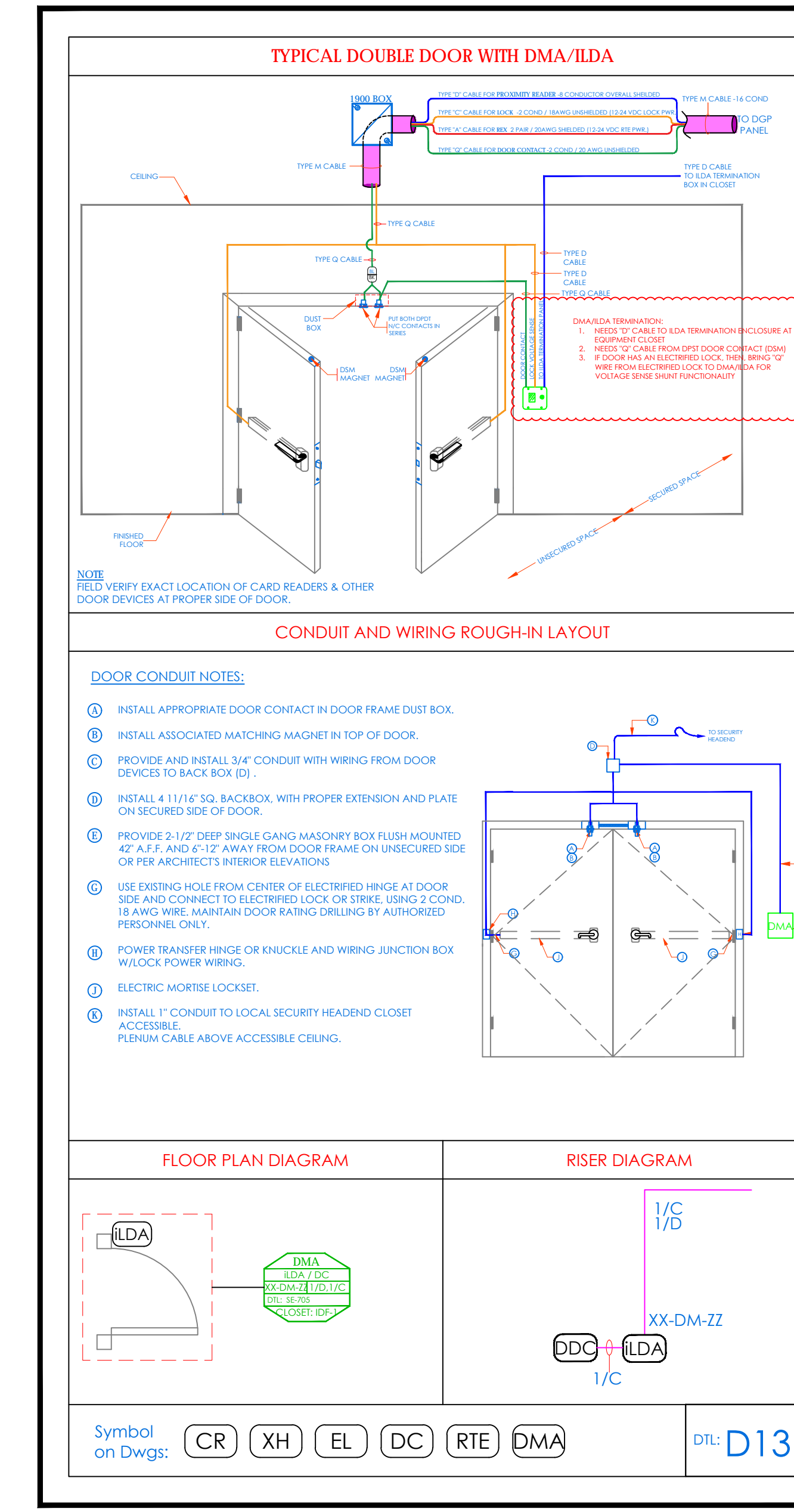
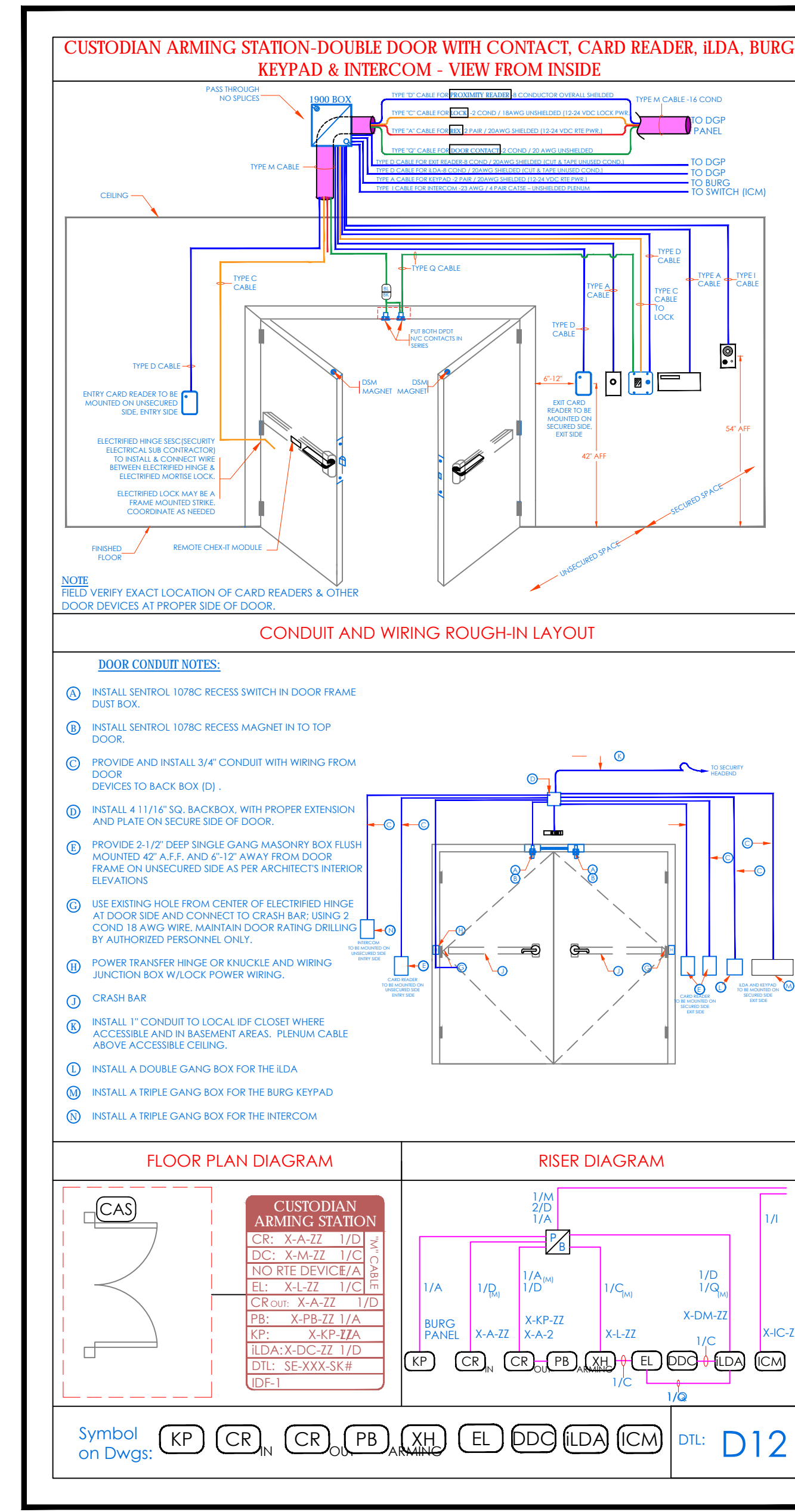
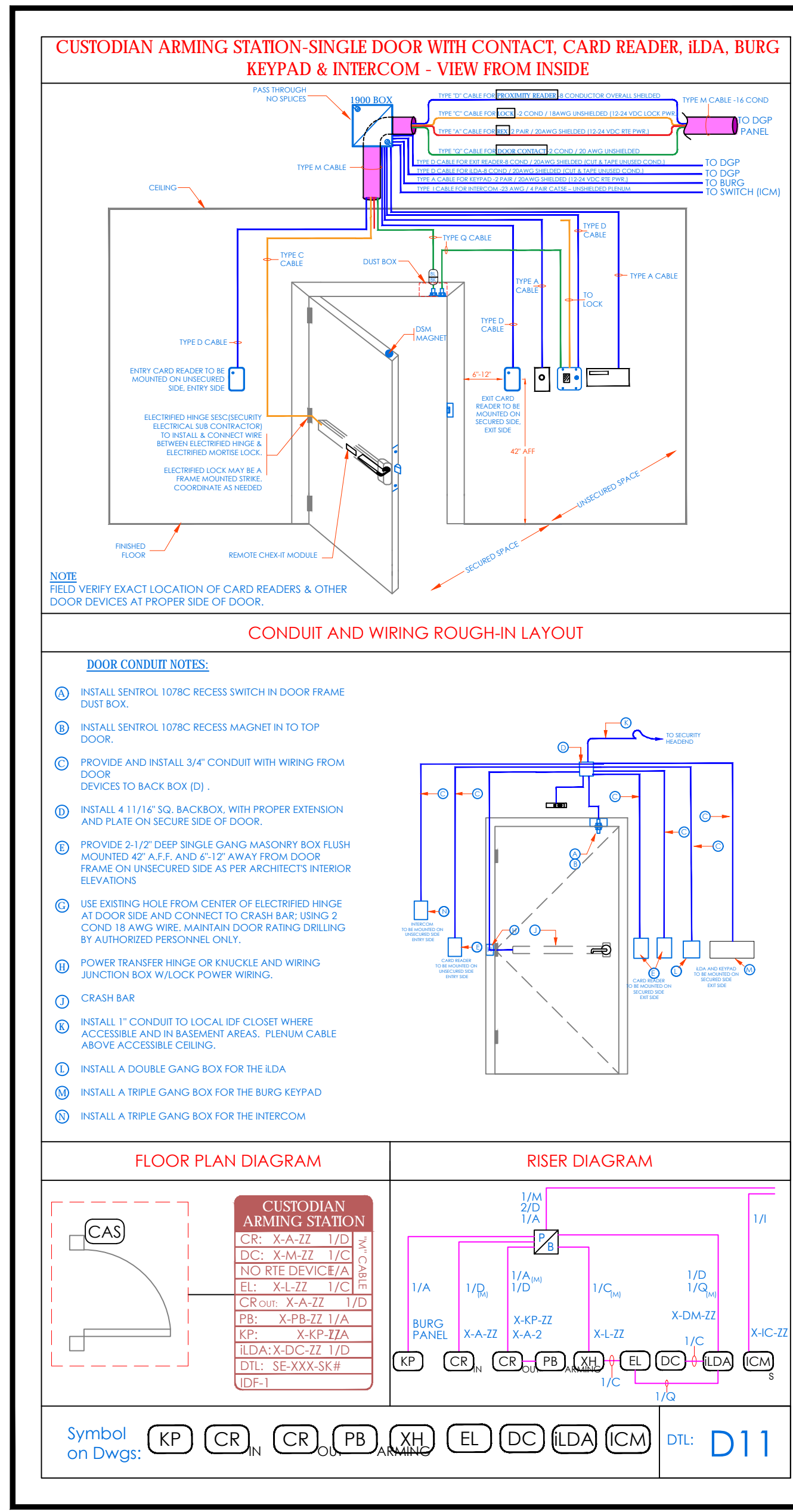
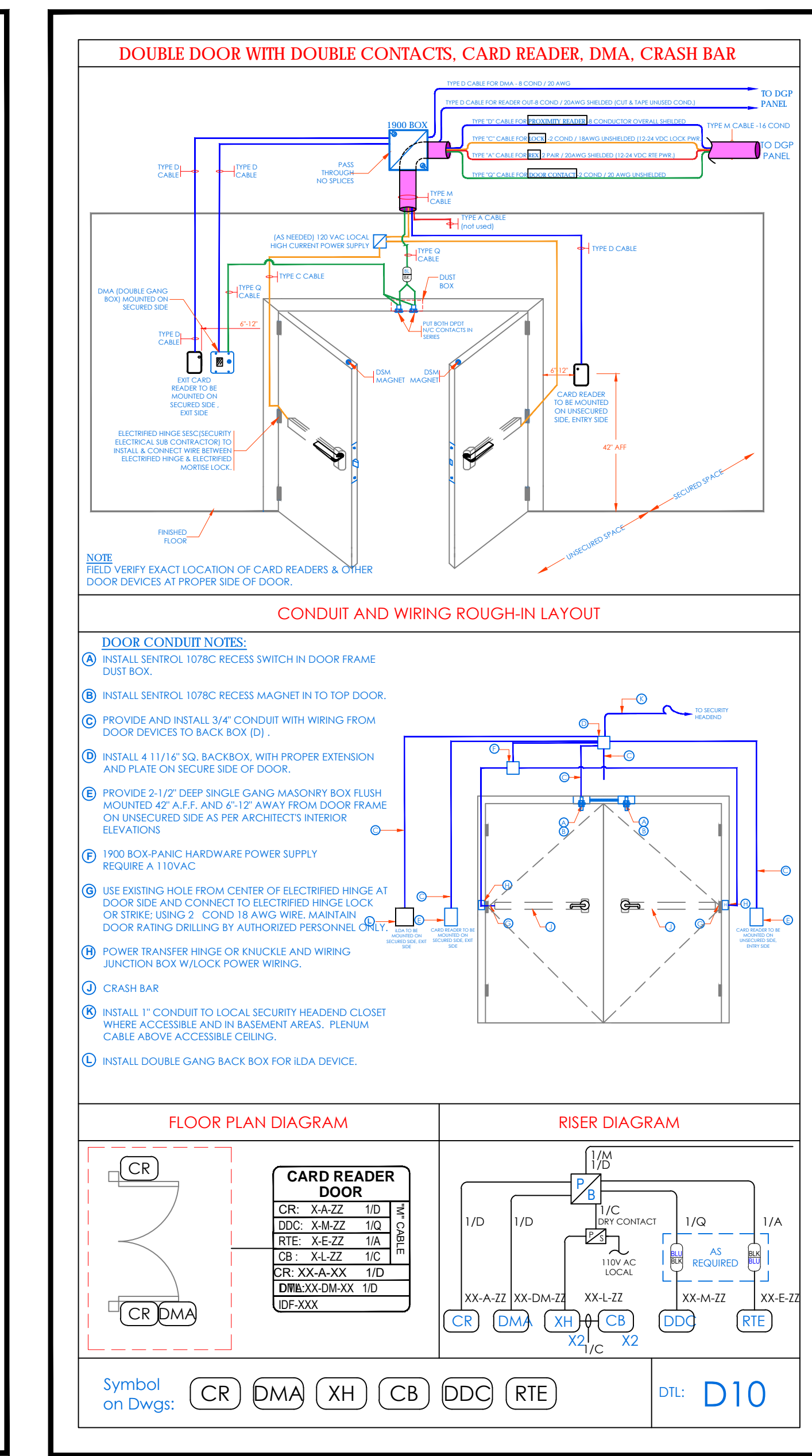
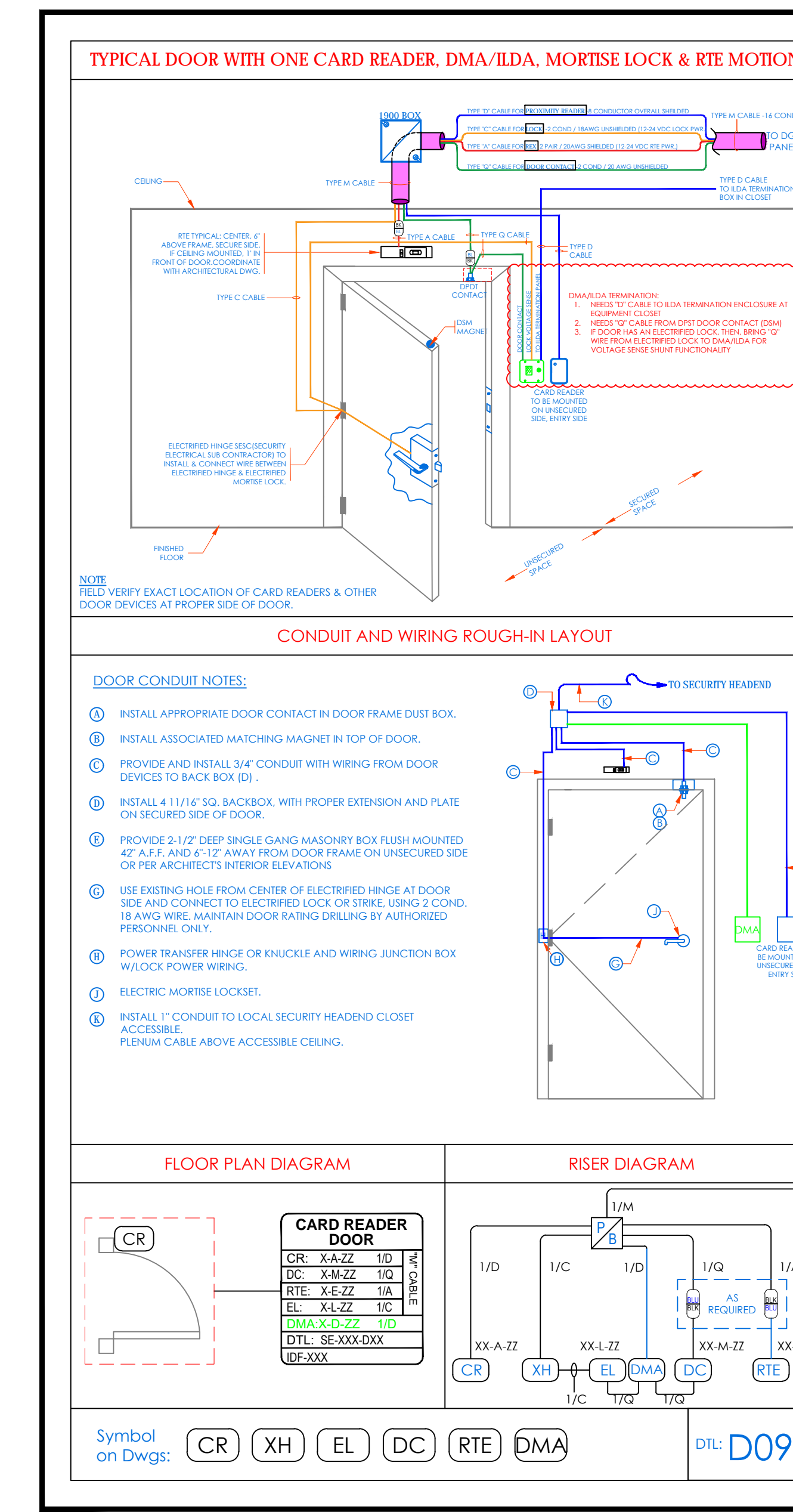
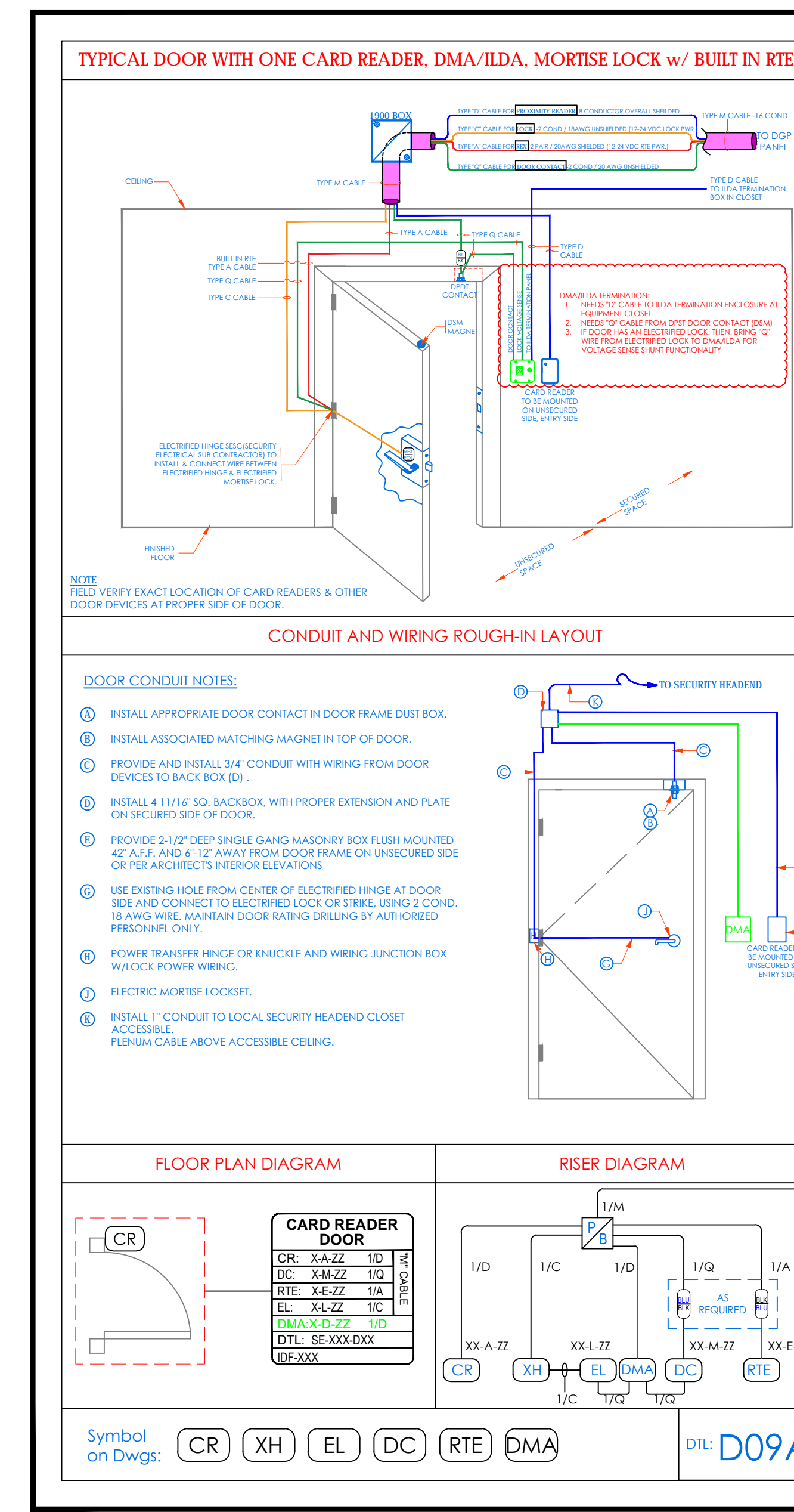
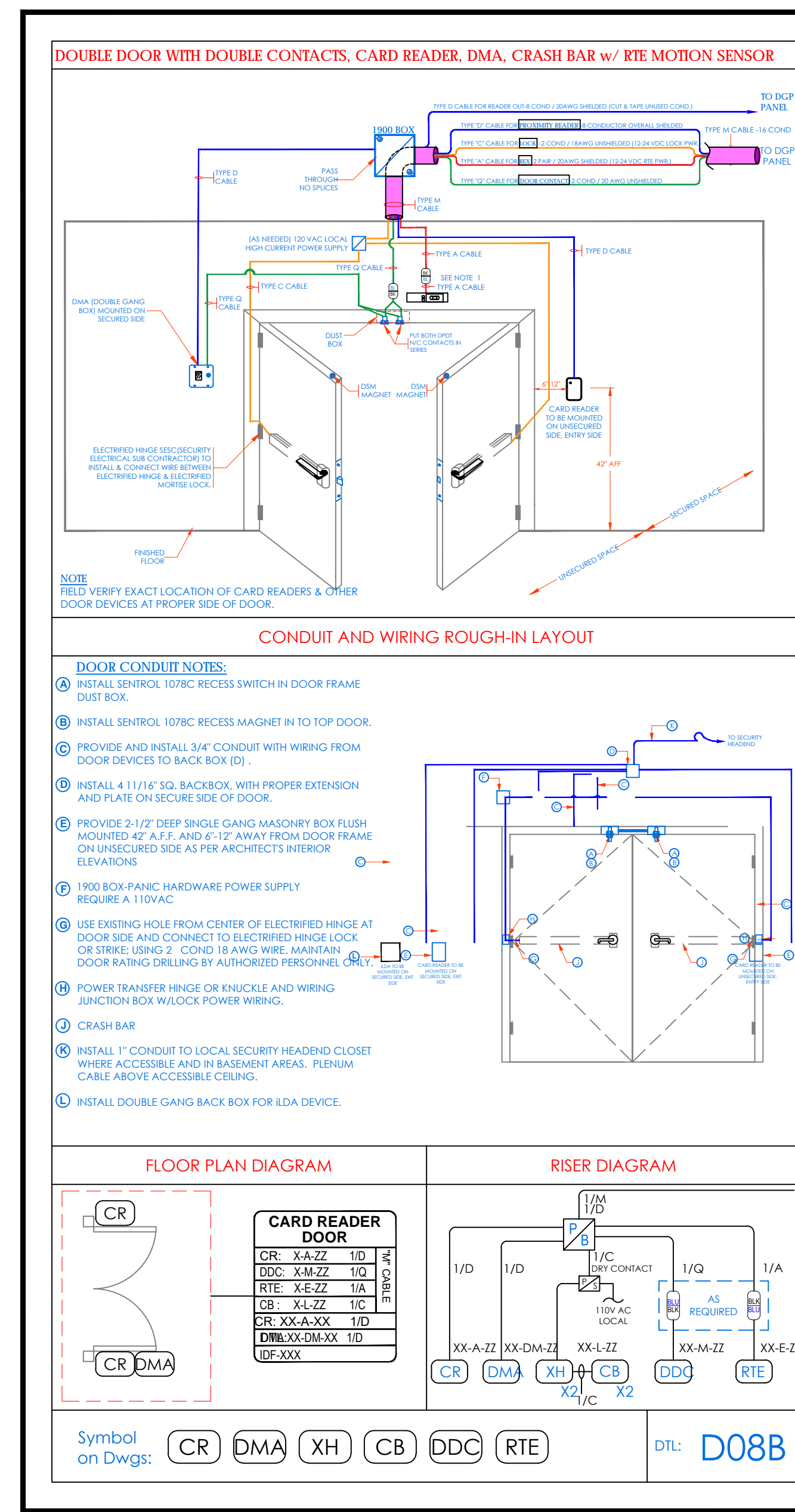
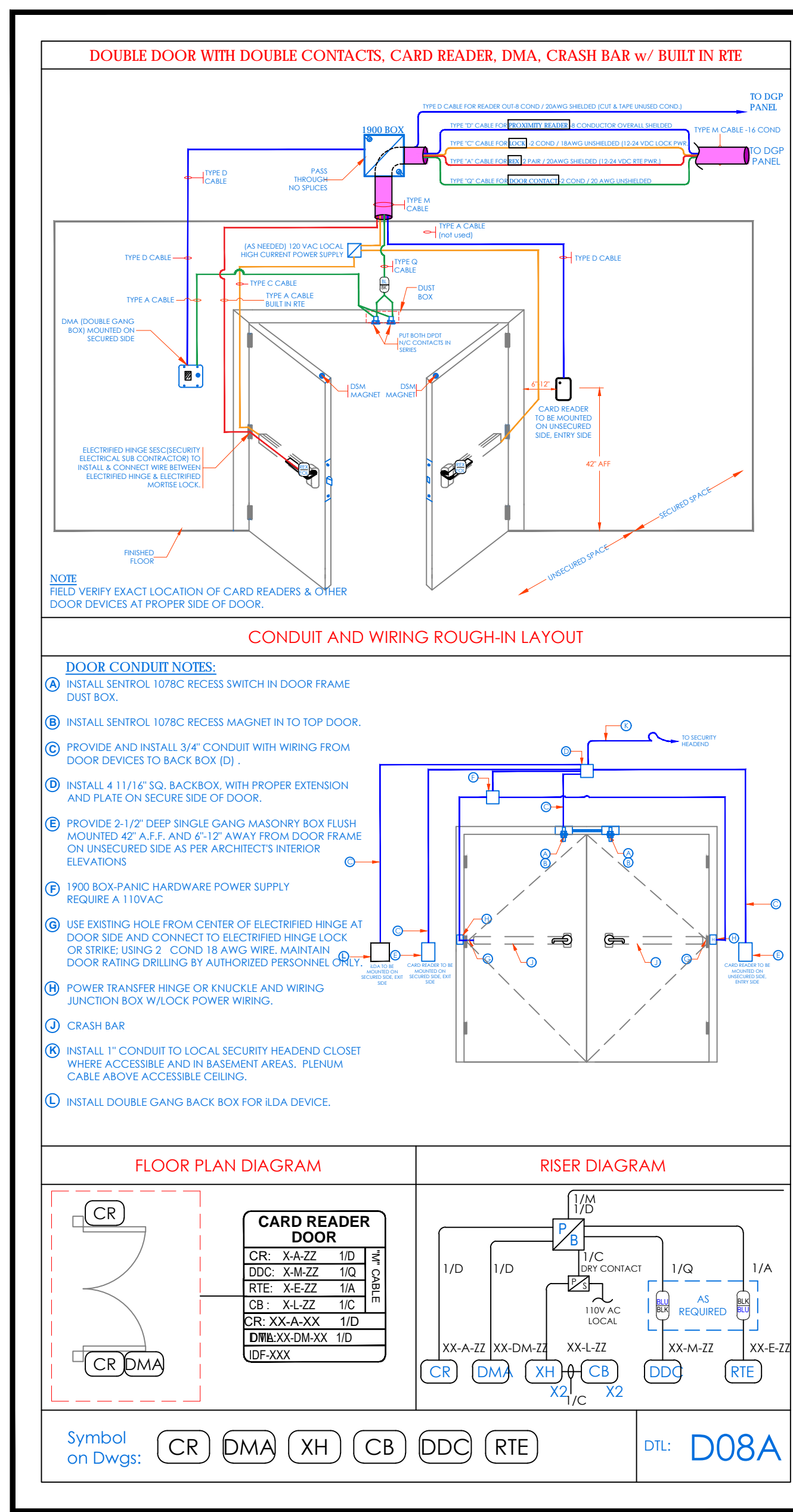
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| 1 | 08/31/2020 | SCHEMATIC DESIGN |

No. _____ Date _____ Issue _____

**SECURITY EQUIPMENT
DETAIL 1
DOOR TYPICALS**

Job No. 2019-1026 Date 08/31/2020
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Sheet Number



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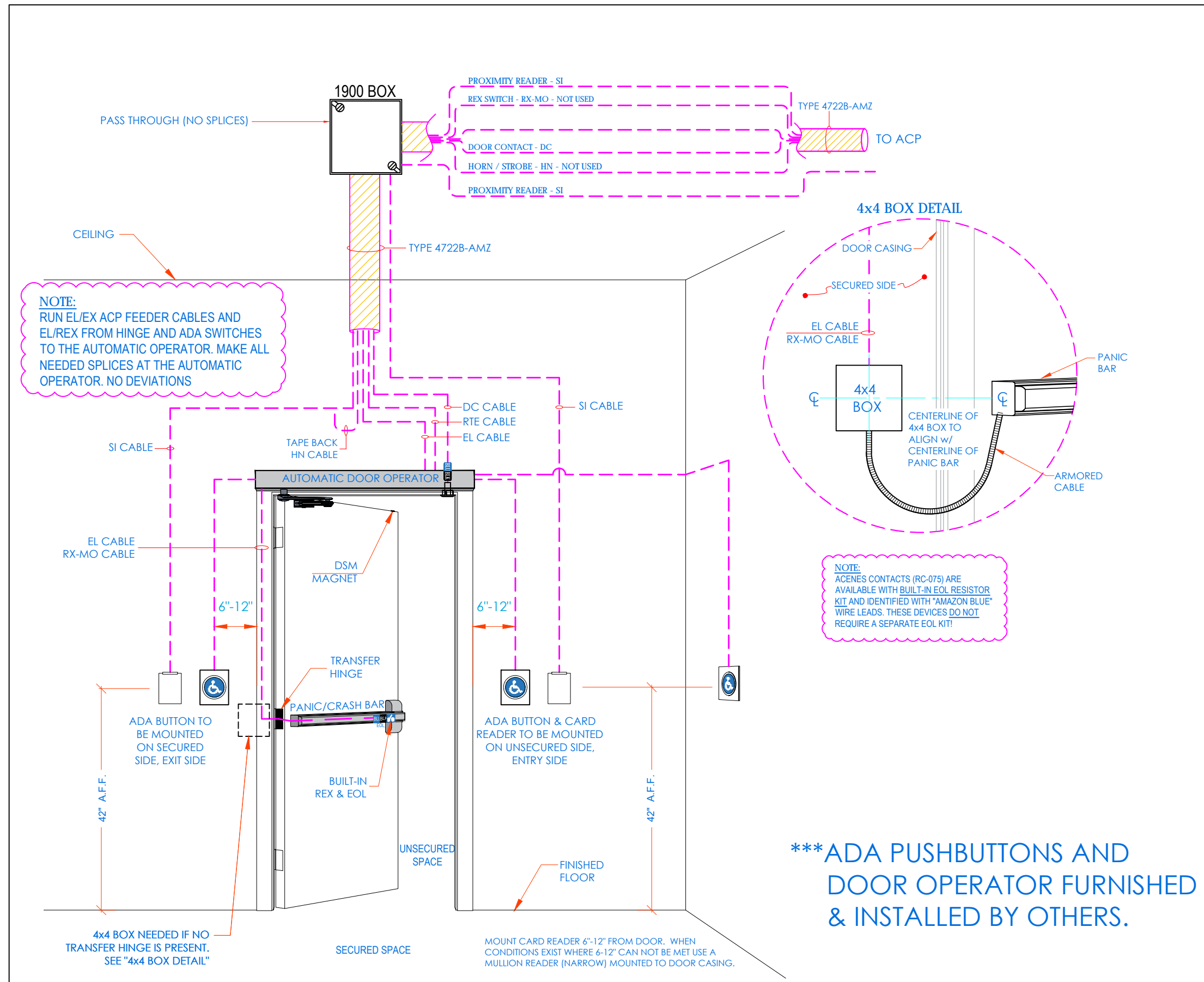
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| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |
| No. | Date | Issue |

Sheet Title
SECURITY EQUIPMENT DETAIL 1A DOOR TYPICALS

Job No. 2019-1026 Date 08/31/2020
 Scale: AS NOTED Drawn / Checked
 Sheet Number
SE-703A

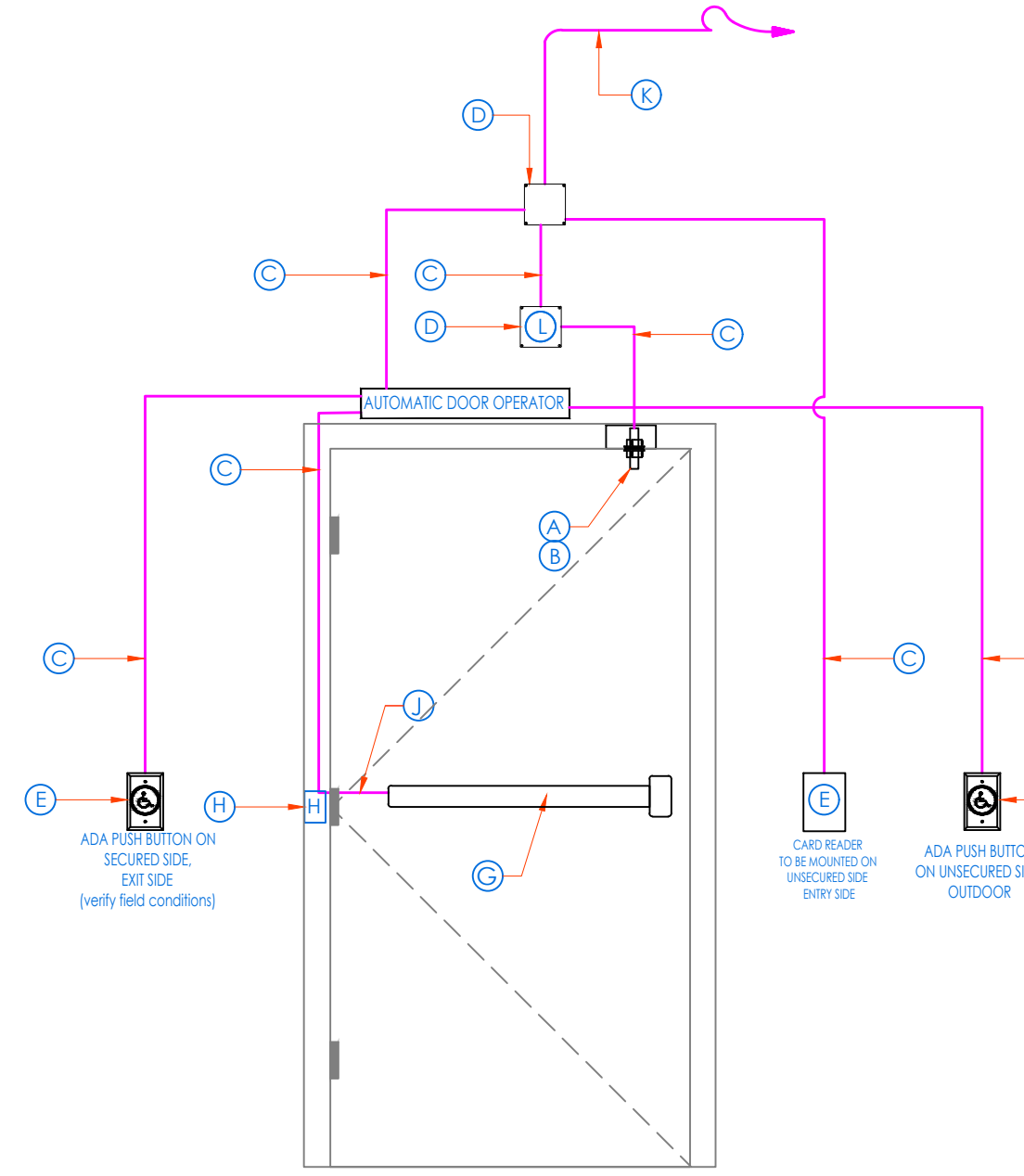
SINGLE DOOR - CONTACTS, ELECTRIC LATCH RETRACTION / PANIC BAR, IN/OUT CARD READERS & ADA BUTTONS -IN/OUT w/ AUTOMATIC DOOR OPENER



CONDUIT AND WIRING ROUGH-IN LAYOUT

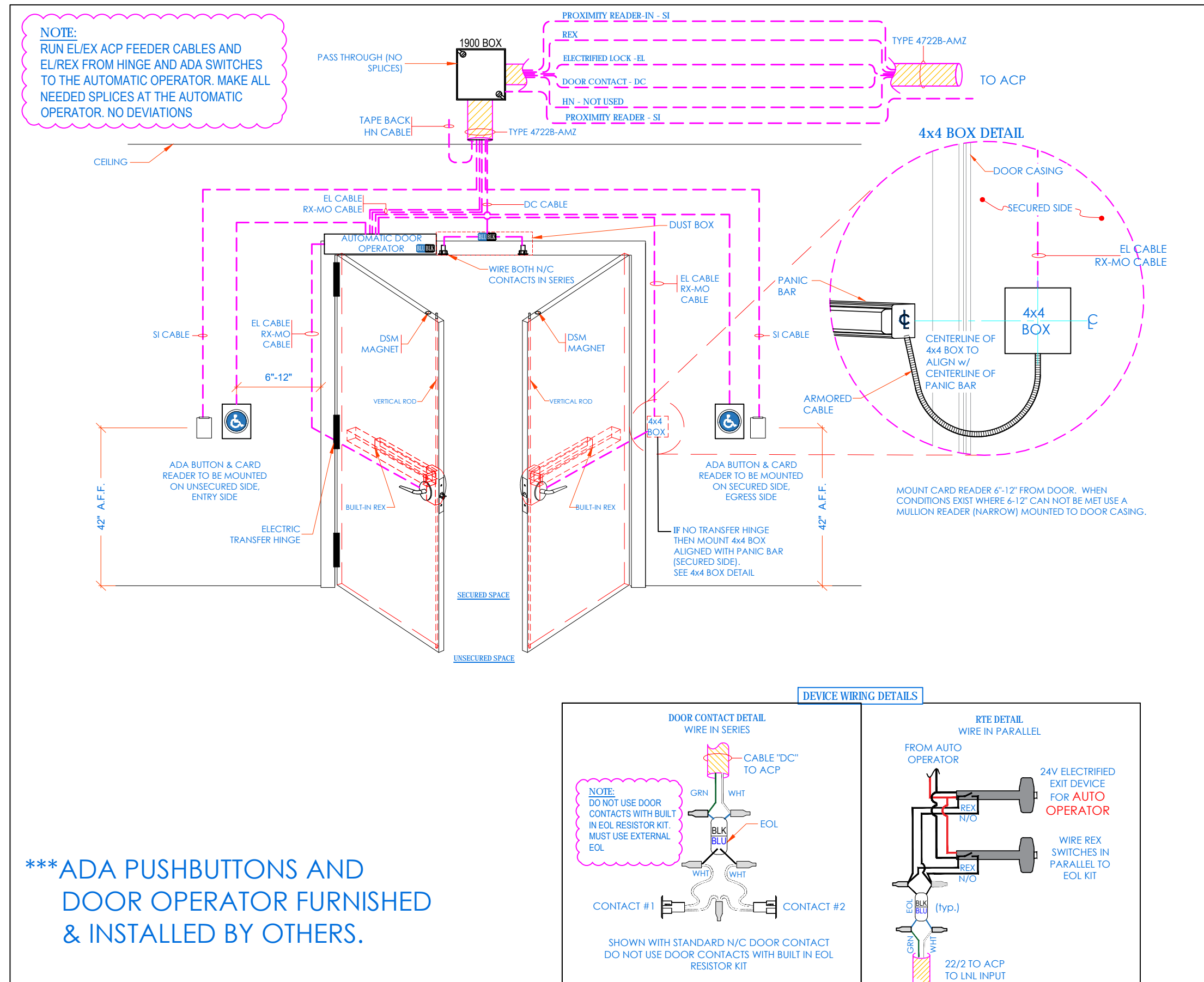
DOOR CONDUIT NOTES:

- A PROVIDE APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- B PROVIDE ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- C PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
- D PROVIDE 4 1 1/4" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- E PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6-1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS.
- F USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- G POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- H ELECTRIC MORTISE LOCKSET WITH BUILT IN SWITCH.
- I 1" [25] EMT CONDUIT TO STRUCTURE OR TO ACCESSIBLE CEILING SPACE. HOME RUN CABLE TO AREA SERVING ACP. PROVIDE OPEN CABLE PATHWAY SUPPORTS AS REQUIRED.
- J SIREN



Symbol on Dwgs: CR_N CR_{OUT} DC EL ADA_N ADA_{OUT} AO DTL: D16

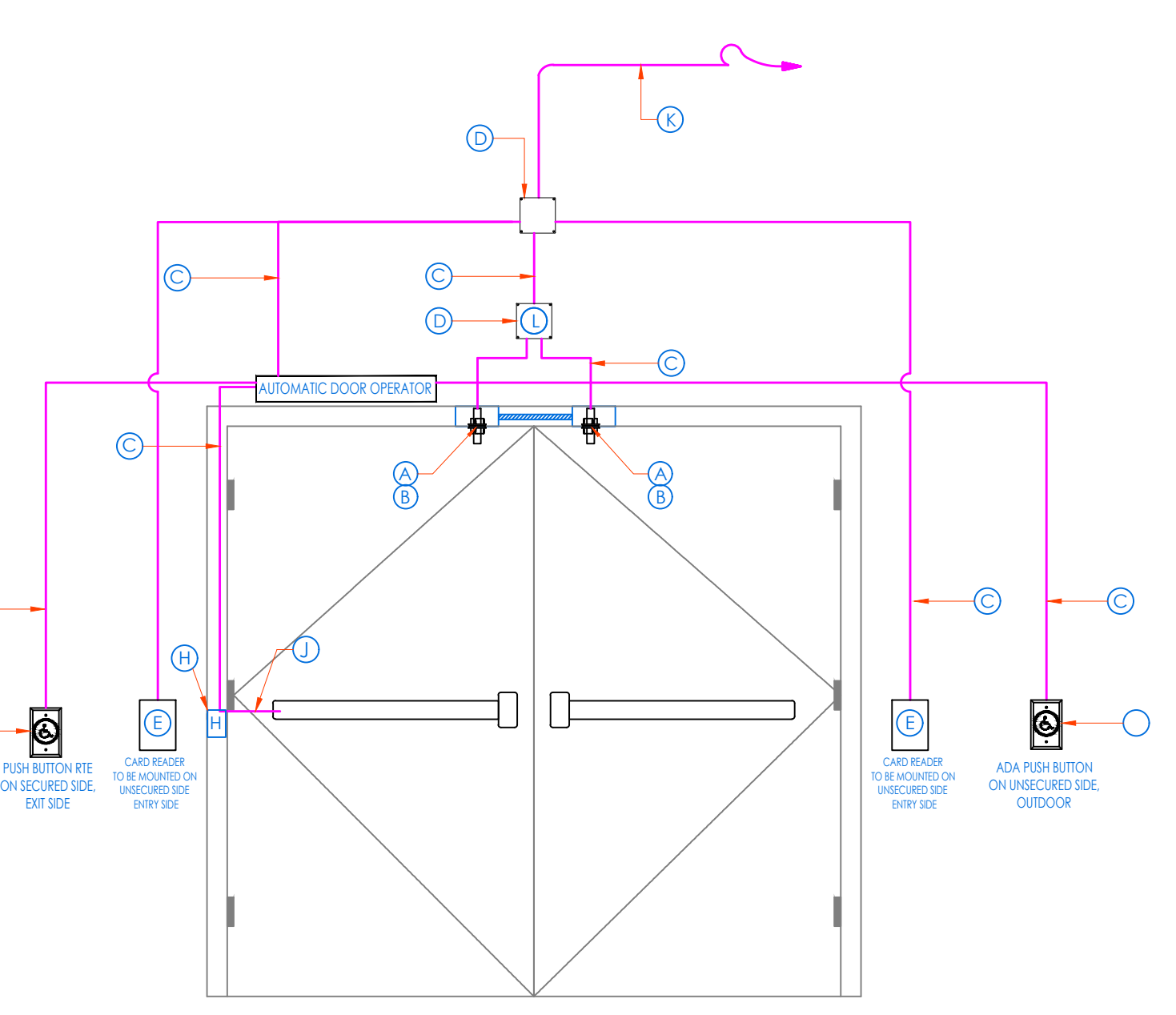
DOUBLE DOORS - CONTACTS, ELECTRIC LATCH RETRACTION / PANIC BAR, IN/OUT CARD READERS & ADA BUTTONS -IN/OUT w/ AUTOMATIC DOOR OPENER



CONDUIT AND WIRING ROUGH-IN LAYOUT

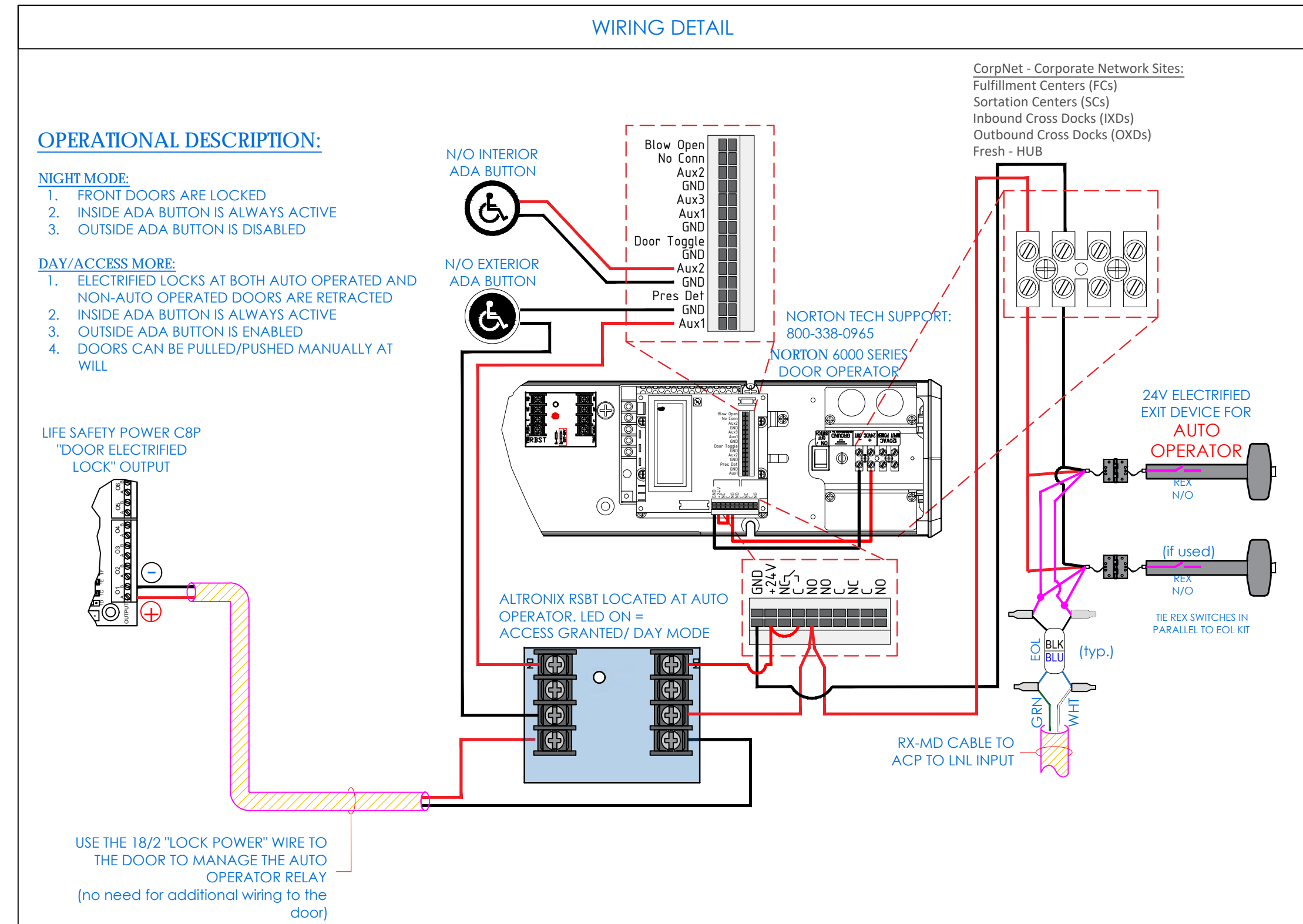
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- I 1" [25] EMT CONDUIT TO STRUCTURE OR TO ACCESSIBLE CEILING SPACE. HOME RUN CABLE TO AREA SERVING ACP. PROVIDE OPEN CABLE PATHWAY SUPPORTS AS REQUIRED.
- J SIREN

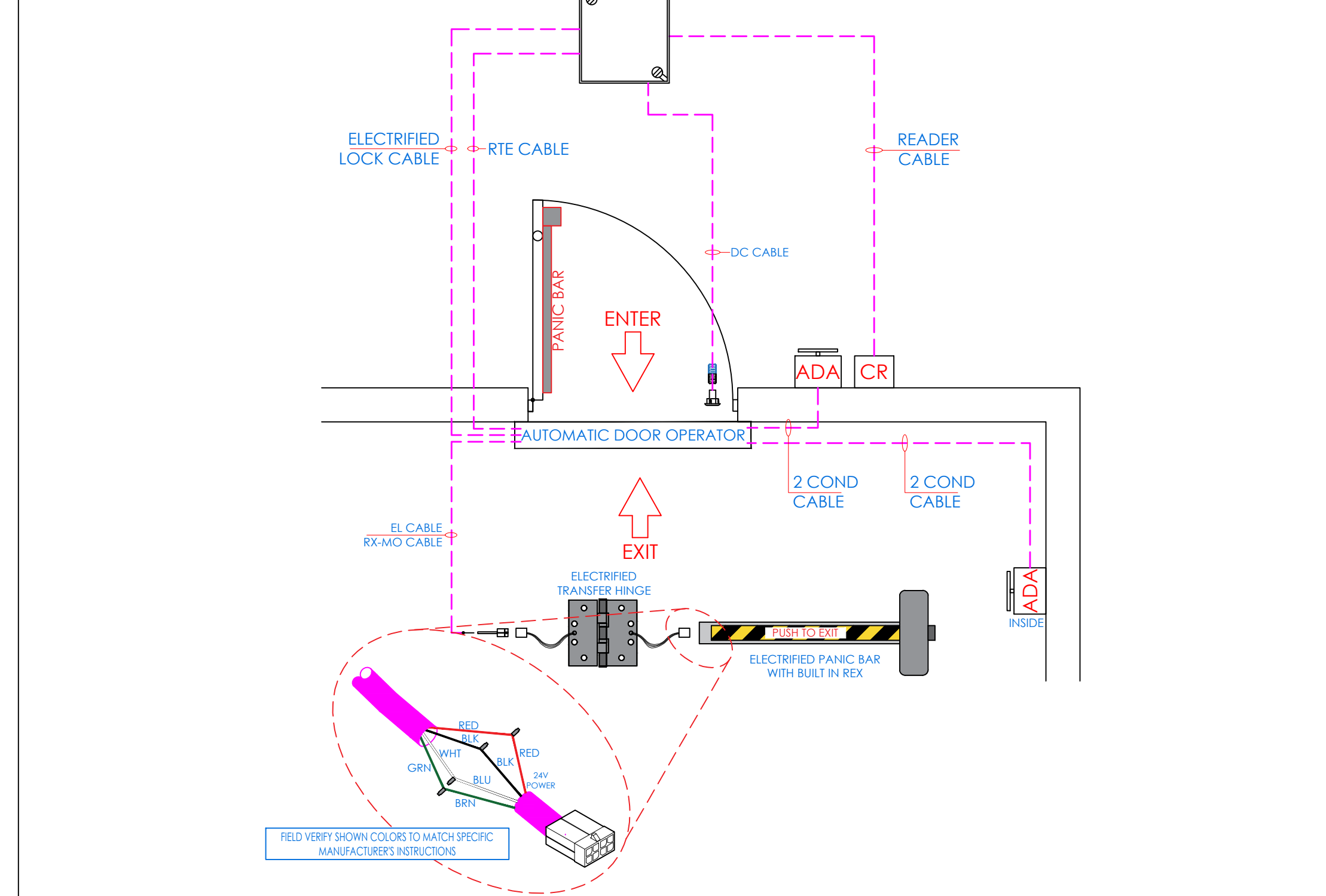


Symbol on Dwgs: CR_N CR_{OUT} DC EL ADA_N ADA_{OUT} AO DTL: D17

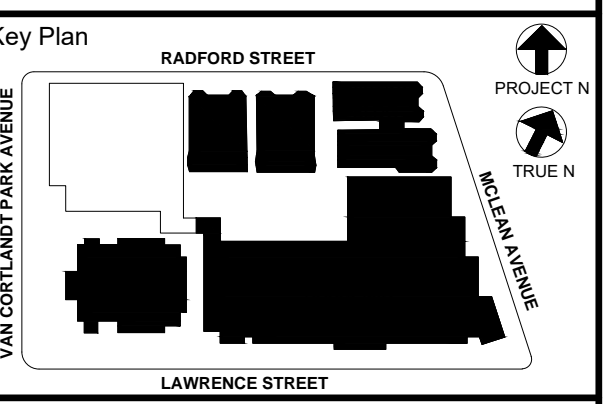
FRONT DOORS EMERGENCY LOCK FOR NON-CORPNET SITES - NORTON 6011/6051 SERIES POWER OPERATOR



MAKE SURE TO FOLLOW THESE WIRING DETAILS. ALL SPLICES TO BE MADE AT THE AUTOMATIC OPERATOR



Symbol on Dwgs: AO DTL: D18



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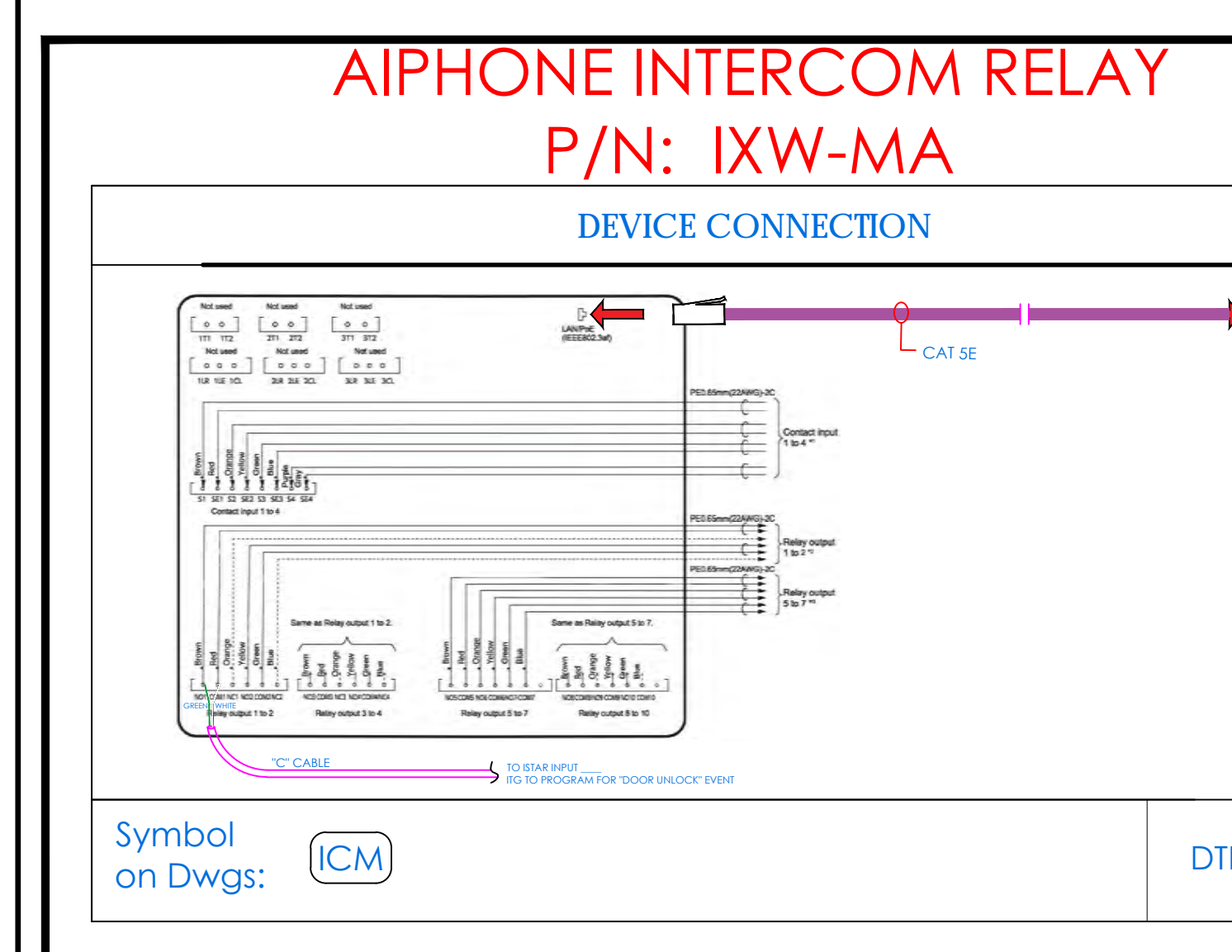
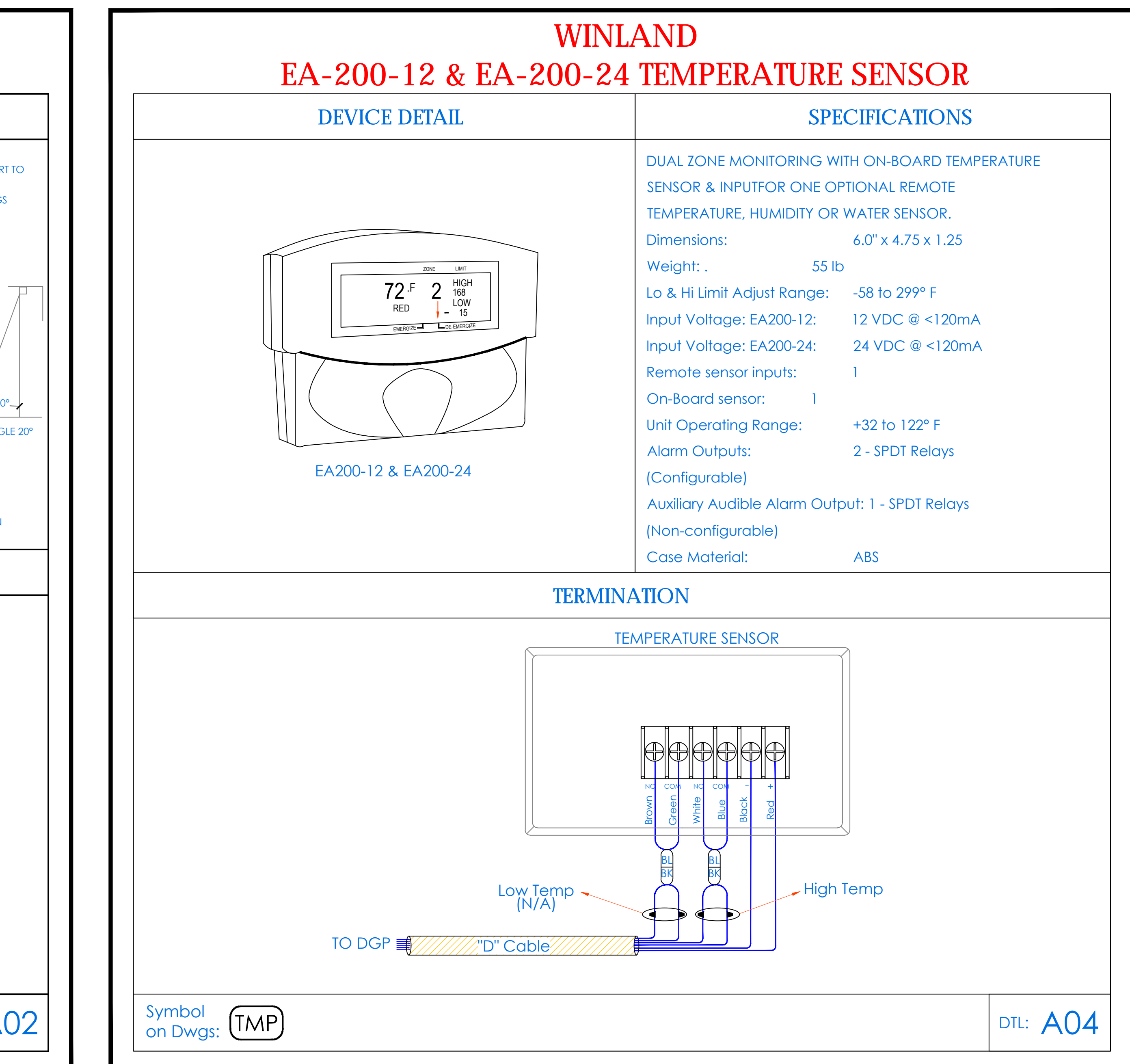
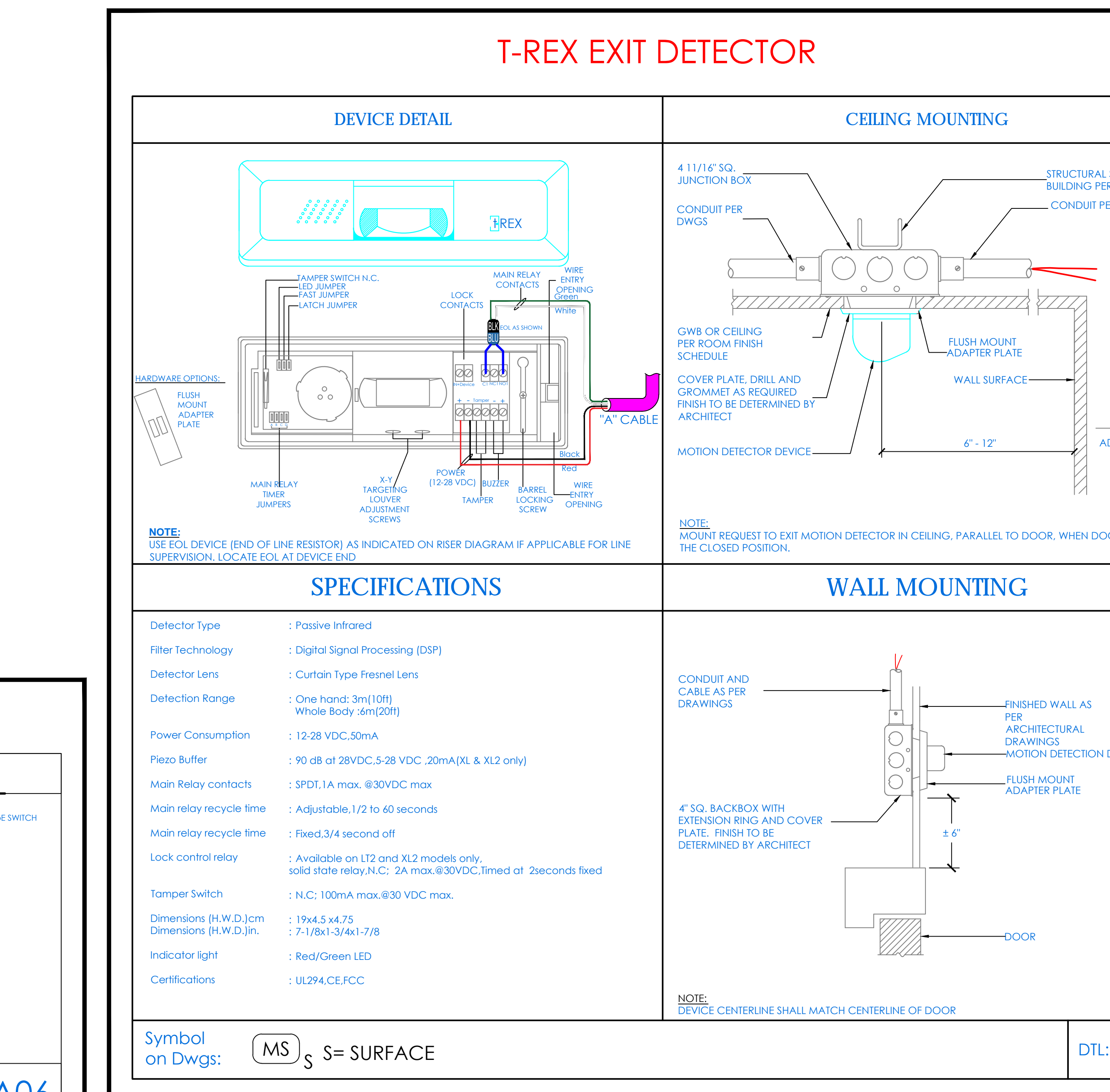
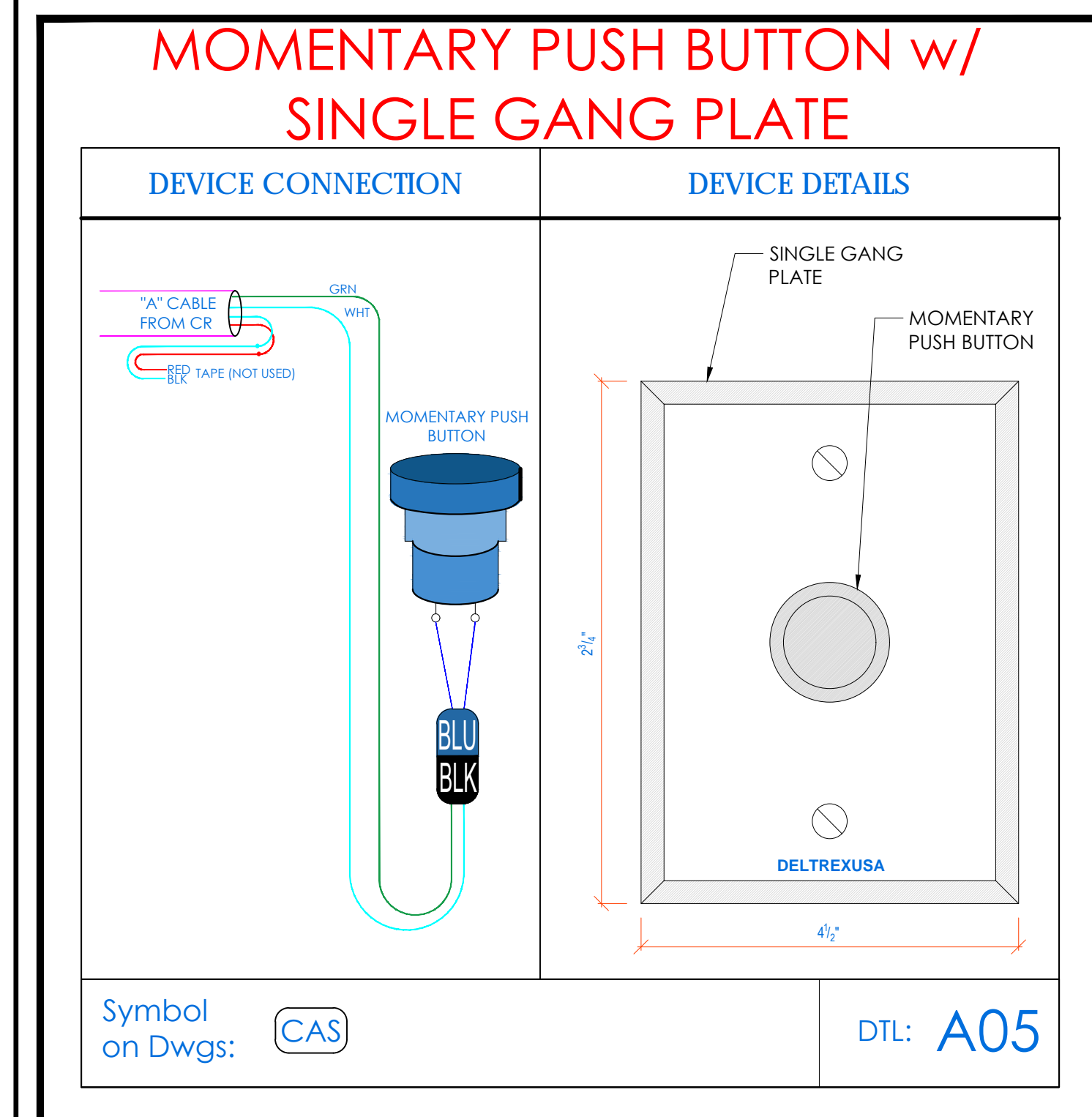
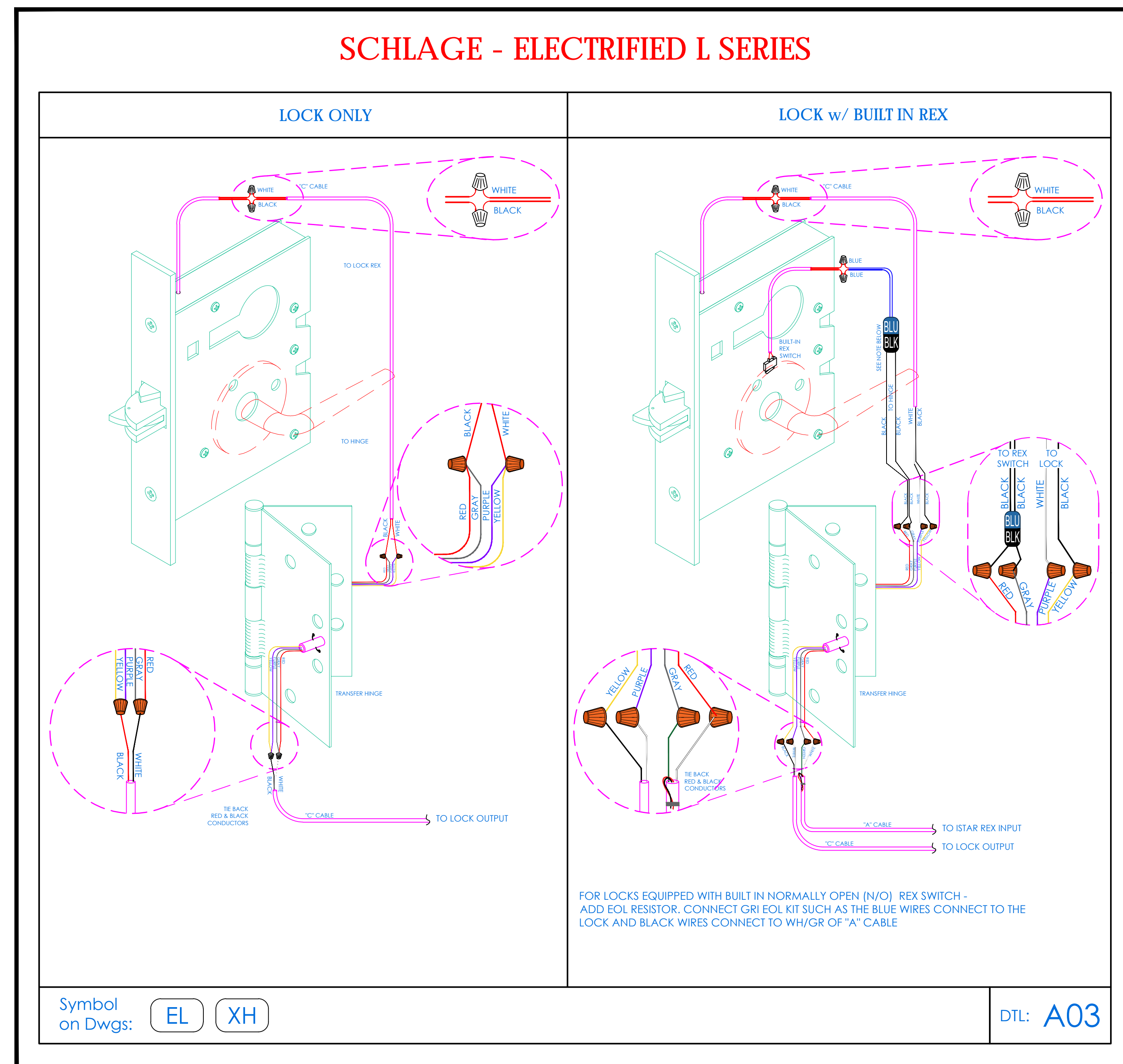
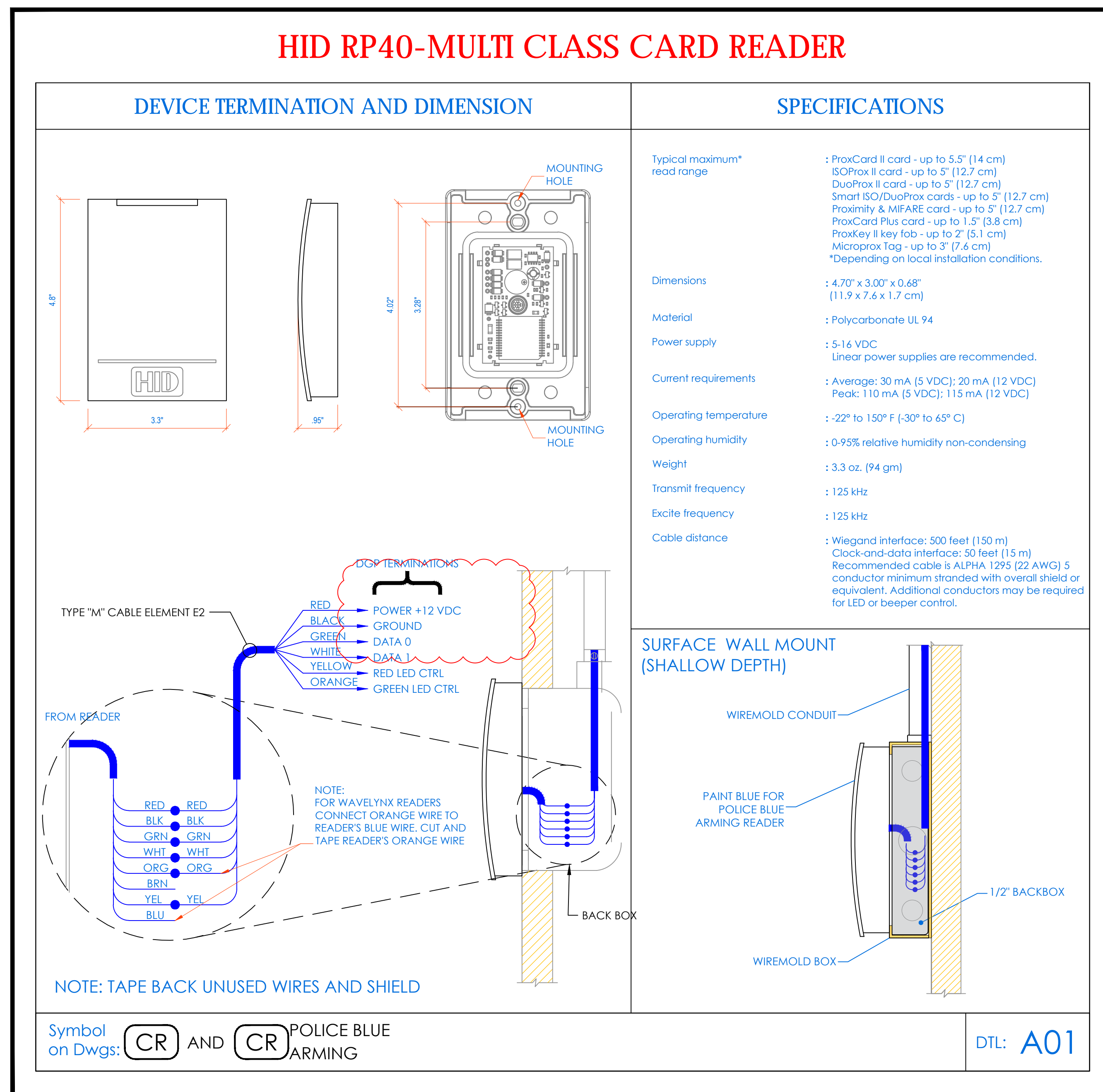
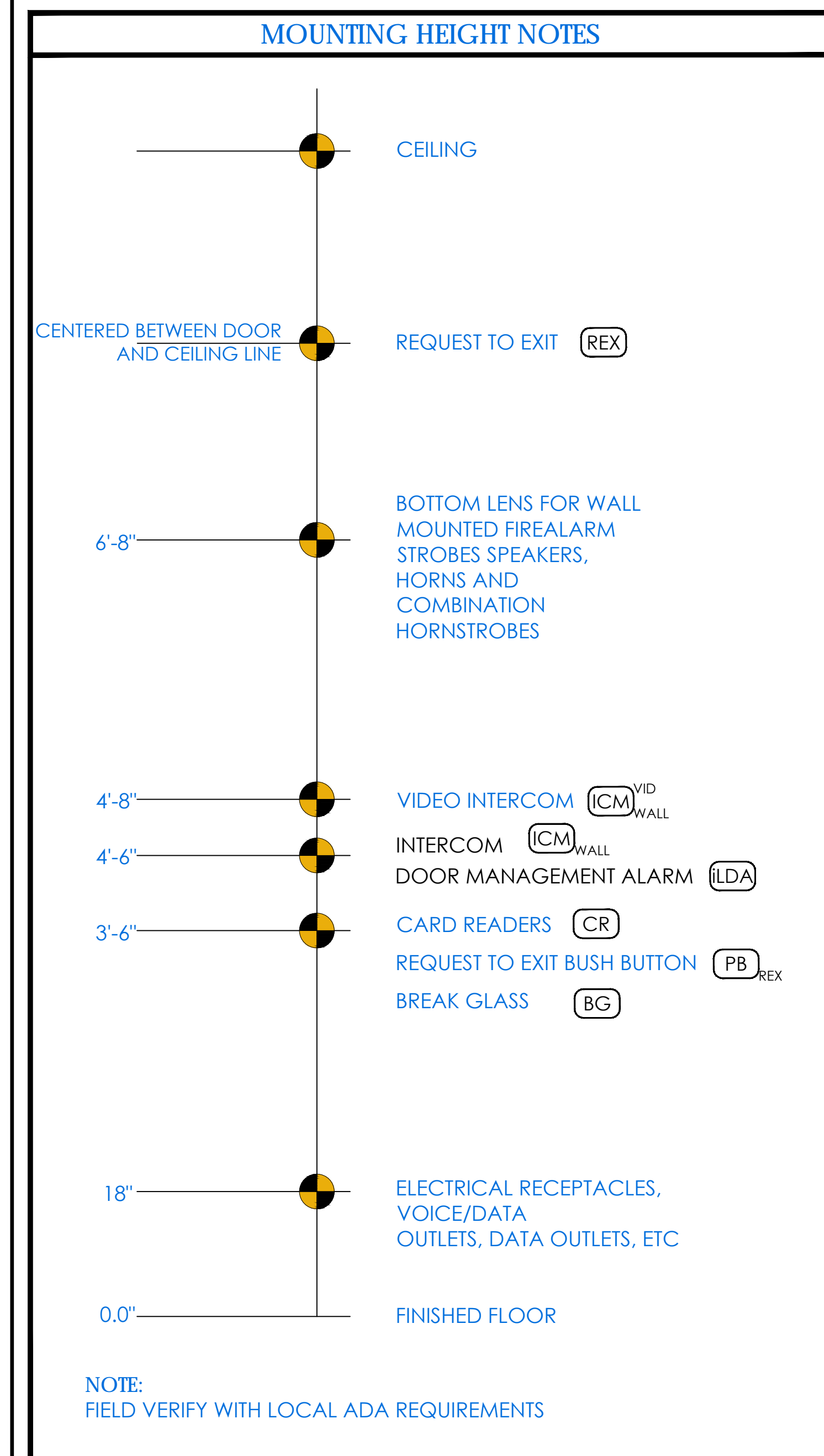
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| 3 | 07/14/2021 | CONSTRUCTION DOCS - NYS&D |
| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |

Sheet Title
SECURITY EQUIPMENT DETAIL 1B DOOR TYPICALS

Job No. 2019-1026 Date 08/31/2020
 Scale: AS NOTED Drawn / Checked
 Sheet Number



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YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

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Yonkers, NY 10705

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ITG Larson, Inc.

155 Lafayette Ave
White Plains, NY 10603

SECURITY SYSTEMS

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

Key Plan

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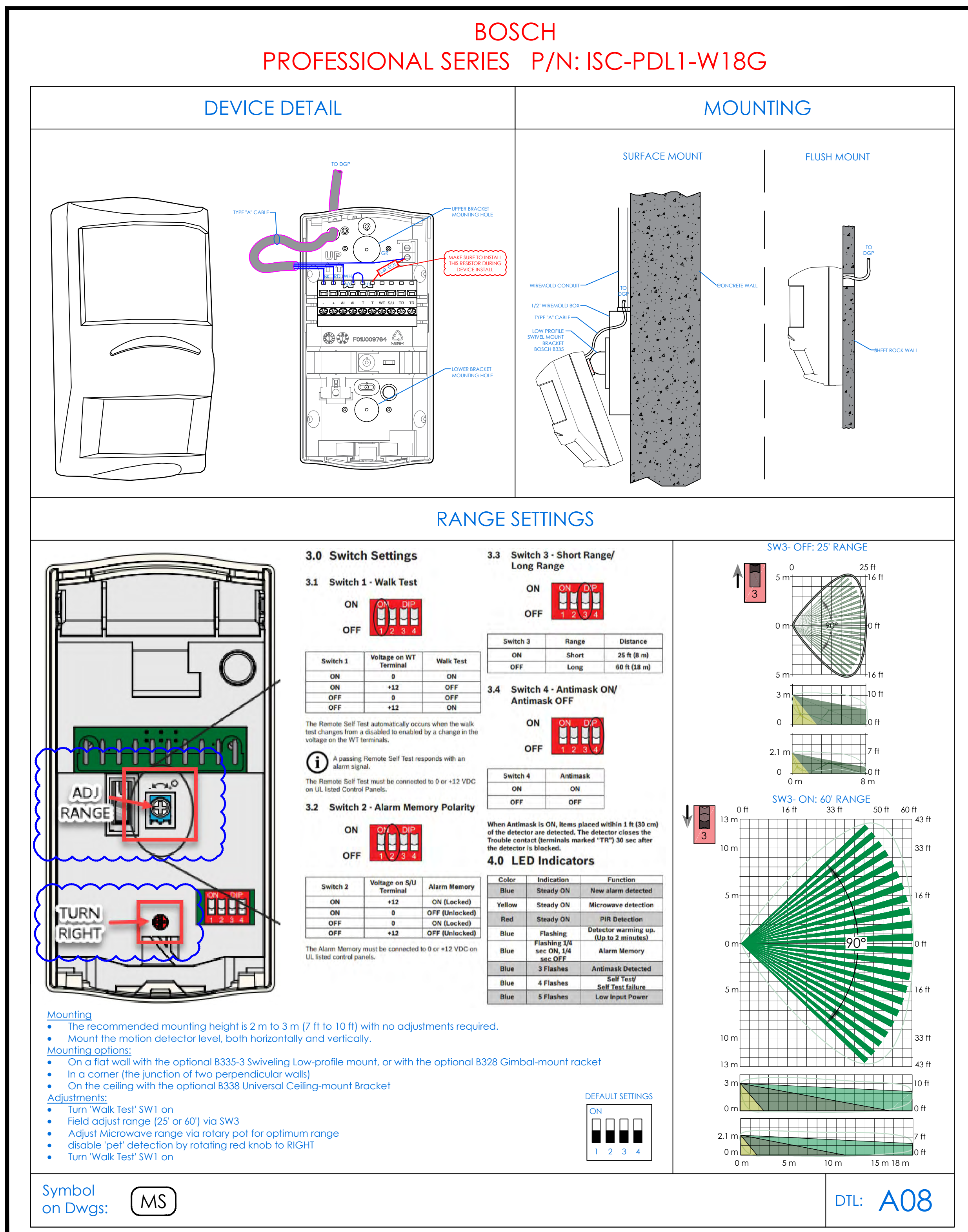
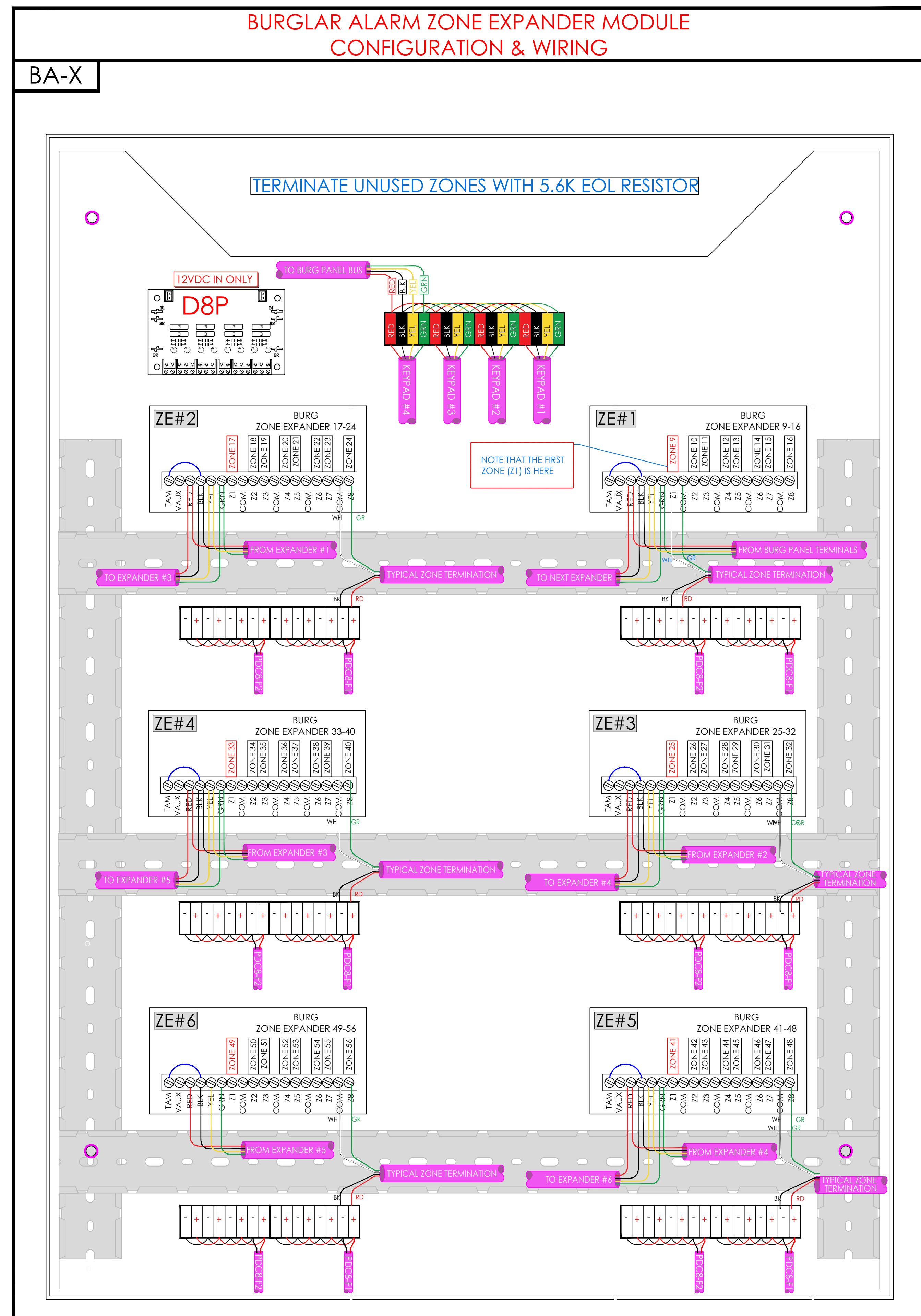
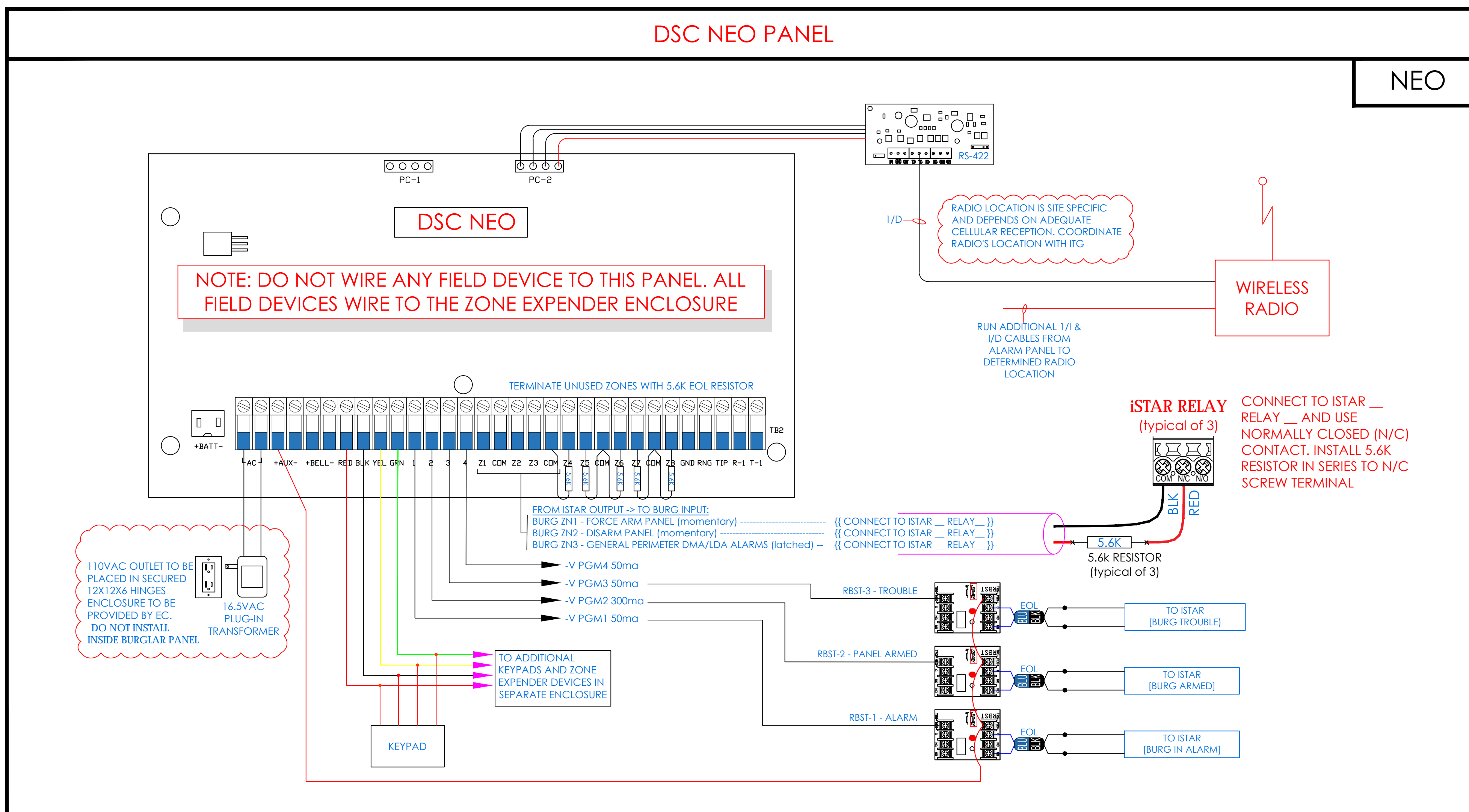
No. _____ Date _____ Issue _____

Sheet Title: **SECURITY EQUIPMENT DETAIL 2 ACCESS DEVICE TYPICALS**

Job No: 2019-1026 Date: 08/31/2020

Scale: AS NOTED Drawn / Checked

Sheet Number: **SE-704**



BURGLAR ALARM ZONE DETAIL (TO BE FILLED BY INSTALLING CONTRACTOR)

BA-Z

SEE ZONE TERMINATION ENCLOSURE (BA-X) THIS PAGE

| | | BURGLAR ALARM ZONE TERMINATION MATRIX | | | | | |
|--------------|-----------|---------------------------------------|------|-------------|---|-------------|-------------------------------|
| CLOSET | ENCLOSURE | PORT | ZONE | DEVICE TAG | LOCATION | | |
| PANEL | | 1 | | | Force-Arm panel. Momentary contact from Istar | | |
| | | 2 | | | Disarm panel. Momentary contact from Istar | | |
| | | 3 | | | ILDA Door Alarm - Dry Contact from Istar | | |
| | | 4 | | | | | |
| | | 5 | | | | | |
| | | 6 | | | | | |
| | | 7 | | | | | |
| MDF / IDF-#1 | | REL1 | | | Burg "ALARM" notification to Istar | | |
| | | REL2 | | | "ARMED" Status to Istar (to Shut off lights) | | |
| | | REL3 | | | Burg "TROUBLE" notification to Istar | | |
| | | IDF-#2 | | 21 | 9 | 1-01-01-09 | CORR 104 |
| | | | | 22 | 10 | 1-02-01-10 | CORR 103 |
| | | | | 23 | 11 | 1-03-01-11 | CORR 104 |
| | | | | 24 | 12 | 1-04-01-12 | EXT. CORR - SE |
| | | | | 25 | 13 | 1-05-01-13 | EXT. CORR - SW |
| | | | | 26 | 14 | 1-06-01-14 | STAIR B SB1 |
| | | | | 27 | 15 | 1-07-01-15 | CORR C102 |
| | | | | 28 | 16 | 1-08-01-16 | CAFETERIA / MULTI-PURPOSE 10B |
| | | | | 21 | 17 | 1-09-02-17 | CAFETERIA / MULTI-PURPOSE 10B |
| | | | | 22 | 18 | 1-10-02-18 | CAFETERIA / MULTI-PURPOSE 10B |
| | | IDF-#3 | | 23 | 19 | 1-11-02-19 | STAIR C SCL - SOUTH |
| | | | | 24 | 20 | 1-12-02-20 | STAIR C SCL - NORTH |
| | | | | 25 | 21 | 1-13-02-21 | LOBBY C101 |
| | | | | 26 | 22 | 1-14-02-22 | CORR 103 (CAS) |
| | | | | 27 | 23 | 1-15-02-23 | MAIN OFFICE 102 |
| | | | | 28 | 24 | 1-16-02-24 | LOBBY C101 |
| | | | | 21 | 25 | 1-17-03-25 | LOBBY C101 |
| | | | | 22 | 26 | 1-18-03-26 | STAIR D SDB |
| | | | | 23 | 27 | 1-19-03-27 | CORR C802 |
| | | | | 24 | 28 | 1-20-03-28 | STAIR B SBB |
| | | IDF-#2 | | 25 | 29 | SPARE | |
| | | | | 26 | 30 | SPARE | |
| | | | | 27 | 31 | SPARE | |
| | | | | 28 | 32 | SPARE | |
| | | | | 21 | 33 | C1-01-01-09 | GYM/AUDITORIUM G103 - SW |
| 22 | 34 | | | C1-02-01-10 | GYM/AUDITORIUM G103 - NW | | |
| 23 | 35 | | | C1-03-01-11 | STAIR H SH1 | | |
| 24 | 36 | | | C1-04-01-12 | LOADING G106 | | |
| 25 | 37 | | | C1-05-01-13 | GYM/AUDITORIUM G103 - NE | | |
| 26 | 38 | | | C1-06-01-14 | GYM/AUDITORIUM G103 - SE | | |
| IDF-#3 | | 27 | 39 | C1-07-01-15 | CORR GC02 | | |
| | | 28 | 40 | C1-08-01-16 | STAIR G SG1 | | |
| | | 21 | 41 | C1-09-02-17 | CORR GC01 | | |
| | | 22 | 42 | CB-10-02-18 | CORR GC04 | | |
| | | 23 | 43 | CB-11-02-19 | STAIR H SHB | | |
| | | 24 | 44 | CB-12-02-20 | STAIR G SGB | | |
| | | 25 | 45 | SPARE | | | |
| | | 26 | 46 | SPARE | | | |
| | | 27 | 47 | SPARE | | | |
| | | 28 | 48 | SPARE | | | |
| IDF-#3 | | 21 | 9 | 2-01-01-09 | STAIR A SA2 | | |
| | | 22 | 10 | 2-02-01-10 | CORRIDOR C201 | | |
| | | 23 | 11 | 2-03-01-11 | CORRIDOR C202 | | |
| | | 24 | 12 | 2-04-01-12 | STAIR C SC2 | | |
| | | 25 | 13 | 2-05-01-13 | LIBRARY / LEARNING COMMONS 215 | | |
| | | 26 | 14 | 2-06-01-14 | TECHNOLOGY / MAKER SPACE 216 | | |
| | | 27 | 15 | 2-07-01-15 | CORR C201 | | |
| | | 28 | 16 | 1-08-01-16 | STAIR B SB2 | | |
| | | 21 | 17 | 2-09-01-17 | CORRIDOR C202 | | |
| | | 22 | 18 | 3-10-02-18 | STAIR A SA3 | | |
| IDF-#3 | | 23 | 19 | 3-11-02-19 | CORRIDOR C301 | | |
| | | 24 | 20 | 3-12-02-20 | CORRIDOR C302 | | |
| | | 25 | 21 | 3-13-02-21 | STAIR C SC3 | | |
| | | 26 | 22 | 3-14-02-22 | CORRIDOR C301 | | |
| | | 27 | 23 | 3-15-02-23 | STAIR B SB3 | | |
| | | 28 | 24 | 3-16-02-24 | CORRIDOR C301 | | |
| | | 21 | 25 | 4-17-03-25 | CORR C401 | | |
| | | 22 | 26 | 4-18-03-26 | CORR C402 | | |
| | | 23 | 27 | 4-19-03-27 | STAIR C SC4 | | |
| | | 24 | 28 | 4-20-03-28 | CORR C401 | | |
| IDF-#3 | | 25 | 29 | 4-21-03-29 | STAIR B SB4 | | |
| | | 26 | 30 | 4-22-03-30 | STAIR A SA4 | | |
| | | 27 | 31 | 4-23-03-31 | CORR C401 | | |
| | | 28 | 32 | SPARE | | | |
| | | 28 | 32 | SPARE | | | |

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YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

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155 Lafayette Ave
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SECURITY SYSTEMS

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Key Plan

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| 2 | 12/15/2020 | DESIGN DEVELOPMENT |
| 1 | 08/31/2020 | SCHEMATIC DESIGN |

No. _____ Date _____ Issue _____

Sheet Title
**SECURITY EQUIPMENT
DETAIL 4
BURG DEVICE TYPICALS**

| | | | |
|--------------|----------------|-----------------|------------|
| Job No. | 2019-1026 | Date | 08/31/2020 |
| Scale | AS NOTED | Drawn / Checked | |
| Sheet Number | SE-705A | | |

MFGR.MODEL.TYPE.P-N

DEVICE DETAIL

TERMINATIONS

| | Indoor | Outdoor |
|--------------------------|--|--|
| Operational | | |
| Video Compression | H.264 / H.265 / IntelDP / MJPEG | |
| Max Frame Rate | 8MP @ 15 fps | |
| ONVIF Compliant | Profile 5 | |
| Yes | | |
| Resolution | 3840x2160 (4K) 16:9 3264x1840 16:9 2592x1944 4:3 2688x1520 16:9 2048x1536 (4KGA) 4:3 1920x1080 (1080p) 16:9 | 1280x960 (SXGA-) 4:3 1280x720 (720p) 16:9 800x600 (SVGA) 4:3 640x480 (4:3VGA) 4:3 640x360 (HD) 16:9 |
| Imager | | 1/2.5" |
| Day/Night | | True D/N with ICR |
| TrickleStar | | Yes |
| IR Distance | N/A | 25m |
| Motion Detection | | 3 zones |
| Blur Detection | | Yes |
| Privacy Zones | | 9 zones |
| Alarm Input/Output | | 1 - 1 |
| Audio Input/Output | | 1 - 1 |
| Video Streams | | Triple Streaming with a Maximum of 5 Concurrent Shared Streams |
| True Wide Dynamic Range | | 100dB |
| Minimum Illumination | | 0.03 Lux |
| Color | | 0.0003 Lux |
| SNR | | 51dB |
| Field of View (HxV) | | 104°/56° |
| Wide Angle | | 42°/24° |
| Telephoto | | |
| Lens Type | Motorized Varifocal and Focus, PHS control, IR corrective | |
| Focal length | 3.4-9mm | |
| Aperture | F1.5(W)-F2.9(T) | |
| Supported Languages | Arabic, Czech, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English (US), French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazilian), Russian, Spanish, Turkish | |
| Network | Internet Explorer 8.0 or higher, Firefox, Safari, Chrome | |
| Ethernet Interface Port | IEEE 802.3, 10/100Base-T Ethernet, Female RJ45, Auto-Negotiation | |
| Support Protocols | TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WSAddressing, CIFS, SNMP, UPnP, RTSP, LLDP | |
| Configuration Management | Internet Explorer 8.0 or higher, Firefox, Safari, Chrome | |
| Web browser | TLS - RFC5246 v1.2, HTTPS (HTTP over TLS) - RFC2818, WS-Security, Certificate Management, Multi-Level Password Protection, IP Address, Filtering, HTTPS Encryption, One-Click Security Hardening, User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE 802.1x including: PEAP, EAP-TLS, EAPoL | |
| Security | | |
| Onboard Storage | Micro SD & SDXC slot up to 128GB; Class 10 or higher; Card not included | |
| Card Support | | |
| Electrical | | |
| Power input | 24VAC, PoE IEEE 802.3af class 2 | 24VAC, PoE IEEE 802.3af class 3 |
| Power draw | 6W | 12W |
| Physical | | |
| Dimensions | Ø4.8 x 4.2 in (Ø123 x 107 mm) | |
| Weight | 2.05lbs (0.93kg) | 2.14lbs (0.97kg) |
| Housing Color | White | |
| Operating temperature | -4°F to 122°F (-20°C to 50°C) No Heater | -58°F to 122°F (-50°C to 50°C) Extended Temperature: 140°F (60°C) for 5 hours a day with IR illuminators OFF* |
| Vandal Resistant | IK10 | |
| Environmental Rating | IP66/IP67 | |
| Regulatory | | |
| Emissions | FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A | |
| Immunity | EN55024; EN50130-4 | |
| Safety | EN60950-1; UL60950-1; CAN/CSA-C22.2 No. 60950-1 | |
| Environment | RoHS/WEEE | |

SPECIFICATIONS

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

SPECIFICATIONS2

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

FEATURES

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

FEATURES2

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

DETAILED WIRING

NOTE: RJ45 PLUG CLIP IS POINTED AWAY

TERMINAL BLOCK ON CAMERA HOUSING HEATER

Symbol on Dwgs:

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nVent CADDY

SPEED LINK SLK WITH ANGLE BRACKET

FIX TO DECK WITH FASTENERS APPROPRIATE TO SITE CONDITIONS

EXISTING HARD DECK

3/4" CONDUIT

4" SQ. BACKBOX W/ SINGLE GANGE COVER, PUNCHED W/ CONNECTORS FOR VIDEO & POWER CABLES

3/4" METALLIC FLEXIBLE CONDUIT (LENGTH SHALL NOT EXCEED 48")

PULL WIRE UP TO REDUCE SLACK

SLK LOCKING DEVICE # SLK1SLA8 - 3" # SLK1SL2A8 - 6" # SLK1SL3A8 - 9" # SLK1SL5A8 - 16" (see below)

THREAD THROUGH BOTH HOLES!

AMERICAN DYNAMICS MINI-DOME RECESSED MOUNT # IFDRCMNT

EXISTING ACOUSTIC CEILING PANEL

AMERICAN DYNAMICS ILLUSTRATED INDOOR MINI-DOME

CUT HOLE IN EXISTING ACOUSTIC CEILING PANEL AS PER CAMERA MANUFACTURERS SPECIFIED DIAMETER - SEE MANUAL.

CEILING VANITY PLATE p/n: IFDRCMNT w/ SPRING CLIP FASTENERS - INSTALL PER MANUFACTURERS SPEC.

PRE-ASSEMBLED ANGLE BRACKET END FITTING

LENGTH WILL VARY

SLK LOCKING DEVICE W/ WIRE ROPE (LENGTH AS PER PART #)

THREAD THROUGH BOTH HOLES!

THREAD THROUGH BOTH HOLES!

THREAD THROUGH BOTH HOLES!

AMERICAN DYNAMICS ILLUSTRATED INDOOR MINI-DOME

| Part Number | Wire Rope Length | A | Hole Size HS | Height H | Width W | Thickness T | Angle a | Static Load F | Certifications |
|-------------|------------------|--------|--------------|----------|---------|-------------|---------|---------------|----------------|
| SLK1SL1A8 | 3.3' | 0.891" | 0.281" | 2.15" | 0.75" | 0.5" | 90° Max | 44 lb | cULus |
| SLK1SL2A8 | 6.6' | 0.891" | 0.281" | 2.15" | 0.75" | 0.5" | 90° Max | 44 lb | cULus |

Symbol on Dwgs:

DTL: C02

Key Plan

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No. _____ Date _____ Issue _____

Sheet Title

**SECURITY EQUIPMENT
DETAIL 5
CCTV TYPICALS**

Job No. 2019-1026 Date 08/31/2020

Scale: AS NOTED Drawn / Checked

Sheet Number

SE-706