

# YONKERS PUBLIC SCHOOLS

## SCHOOL 16

759 NORTH BROADWAY  
YONKERS, NY 10701

### SECURITY UPDATE PROJECT

#### SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

#### FLOOR PLANS

SE-100 SECURITY UPDATE PROJECT - BASEMENT  
SE-101 SECURITY UPDATE PROJECT - FIRST FLOOR  
SE-102 SECURITY UPDATE PROJECT - SECOND FLOOR  
SE-103 SECURITY UPDATE PROJECT - SITE PLAN

#### RISER

SE-200 SECURITY DEVICE RISER DIAGRAM

#### CLOSET DETAILS

SE-300 CLOSET ELEVATIONS  
SE-303 CCTV ONE LINE DIAGRAM

#### TYPICALS

ISTAR-OVERALL SCHEMATIC SECURITY  
DEVICE & POWER CONNECTION  
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX  
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX  
SECURITY EQUIPMENT DETAIL 1- (DOOR TYPICALS)  
SECURITY EQUIPMENT DETAIL 1A- (DOOR TYPICALS)  
SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)  
SECURITY EQUIPMENT DETAIL 3- (ILDA DEVICE TYPICALS)  
SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)  
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, NYC, 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 DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUIT AND CONDUCTOR LAYOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURERS 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 BACKWAY 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 RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THE 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 J-HOOKS, CABLE TRAY OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
- THE INSTALLING CONTRACTOR SHALL PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT ON THE 12 WOOD BACKBOARD, USE GROUNDING BAR, OR COORDINATE WITH GENERAL CONTRACTOR FOR NEAREST GROUNDING LOCATION.
- THE INSTALLING CONTRACTOR SHALL PREPARE 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 BRUSHINGS, WHERE CONDUITS OR WIRWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE PRO STOPPED.
- PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION OF ALL ELECTRIFIED DOOR HARDWARE WITH OWNER'S 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 FUNCTION LIST ITEMS FOR FINAL COMMISSIONING.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDY OF ANY CABLE &/OR EQUIPMENT INSTALLATION PROBLEMS AND ALL RELATED FUNCTION LISTING.
- 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 & 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 LSL-77 TAGS, PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE.
- SECURITY SCREWS TO BE USED AS NEEDED AND EXPECTED TO MAINTAIN SYSTEMS INTEGRITY.

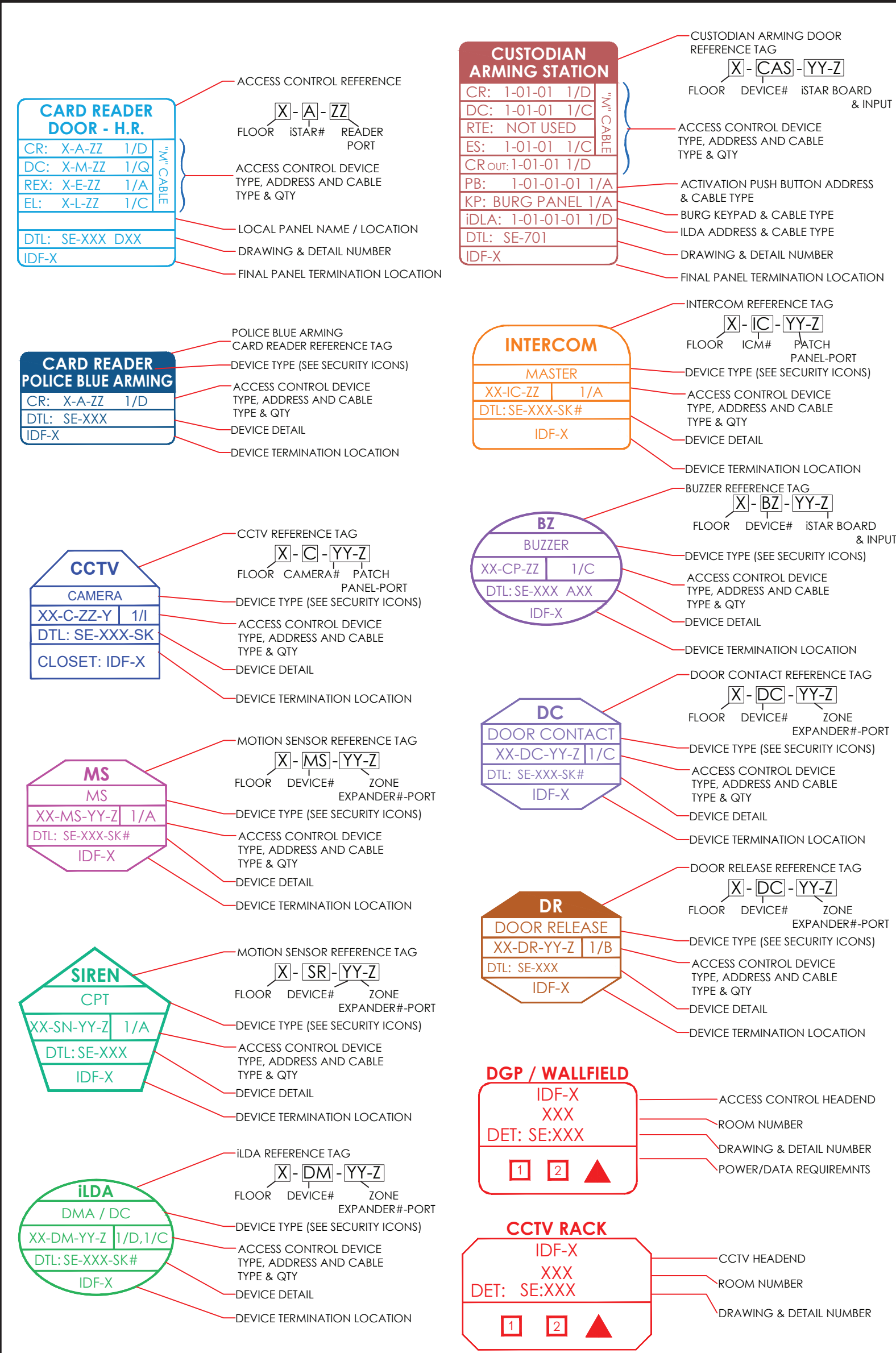
#### POWER REQUIREMENTS

- 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" APART 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" APART WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

#### SECURITY DEVICES LEGEND

	CARD READER	LR = LONG RANGE EL = ELEVATOR	BIO = BIOMETRIC BC = BARCODE
	DOUBLE DOOR CONTACTS	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
	DOOR CONTACT	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
	ELECTRIFIED DOOR OPERATOR (PBO)		
	OVERHEAD DOOR CONTACT	DPDT = DOUBLE POLE DOUBLE THROW	
	ELECTRIC MORTISE LOCK	REX = REQUEST TO EXIT BUILT IN	
	ELECTROMAGNETIC LOCK		
	ELECTRIC STRIKE LOCK		
	END OF LINE RESISTOR		
	REQUEST TO EXIT MOTION SENSOR		
	INTELLIGENT LOCKING DOOR ALARM (ILDA) - "D" CABLE		
	ELECTRIC LOCKING CRASH BAR	REX = BUILT IN REQUEST TO EXIT	
	MOTION SENSOR (LONG RANGE) - "A" CABLE	MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION SENSOR IS 360° CEILING TYPE	
	MOTION SENSOR (SHORT RANGE) - "A" CABLE		
	BUZZER		
	TEMPERATURE SENSOR		
	VIDEO MONITOR		
	INTERCOM	S=SUBSTATION M=MASTER	VS=VIDEO SUBSTATION VM=VIDEO MASTER
	SIREN		
	CUSTODIAN ARMING STATION		
	FIXED MINI DOME OUTDOOR VANDAL CAMERA		
	FIXED MINI DOME INDOOR CAMERA		
	PTZ DOME OUTDOOR CAMERA		
	PTZ DOME INDOOR CAMERA		
	FIXED BOX OUTDOOR CAMERA		
	FIXED BOX INDOOR CAMERA		

#### REFERENCE DEVICE ATTRIBUTE LEGEND



#### CABLE LEGEND

CABLE TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	USE	O.D.
A	REMEE	TYPE A	20 AWG / 2 PAIR, INDIVIDUALLY SHIELDED PLENUM PINK CABLE	INTERCOM, COMMUNICATION, REX	.194 IN
B	BELDEN	3082A	MULTI-CONDUCTOR DEVICES FOR DEVICES CABLE	PLC COMMUNICATION	.480 IN
C	REMEE	TYPE C	18 AWG / 2 COND OVERALL PINK CABLE	PTZ POWER	.150 IN
D	REMEE	TYPE D	20 AWG / 2 COND OVERALL SHIELD PLENUM PINK CABLE	CARD READER, COMMUNICATION	.207 IN
E	CORNING	129M62.5	4 STRAND 62.5UM RISER FIBER - MULTIMODE	NETWORK BACKBONE	
F	REMEE	TYPE F	1050U 20AWG PLENUM PINK CABLE	ANALOG CCTV CAMERA, ANALOG MONITOR	.214 IN
H	TBD	TBD	14 AWG / 4 COND 18IN STRAINED QUICK PULL CABLE COLOR: BLUE, RED, BROWN, YELLOW, PINK, WHITE	DEFIBRILLATION LOCK POWER/STATUS	
I	REMEE	TYPE I	22 AWG / 4 PAIR CAT5E - UNSHIELDED PLENUM	P CCTV CAMERA, NETWORK	.215 IN
M	REMEE	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 / 4 COND - CARD READER (E) - TYPE E 20AWG / 2 COND - DOOR CONTACT	ACCESS CONTROL DOOR	.400 IN
P	HITACHI	57-2631	20AWG / 25 PAIR CAT5E PLENUM	PLC COMMUNICATION	.454 IN
Z	WEST PENN WIRE	AGC3186	18 AWG / 4 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	.255 IN

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  - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
  - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE SECURITY MANAGER.
  - PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  - ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
  - CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE AS BUILT.
  - CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (3 SETS) AND A CD WITH .PDF FORMAT.
  - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

#### ISSUED FOR:

DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
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7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED- ISSUED FOR BID
11/15/2020	REVISED- ISSUED FOR BID

**ITG**  
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155 Lafayette Ave  
White Plains, NY 10603

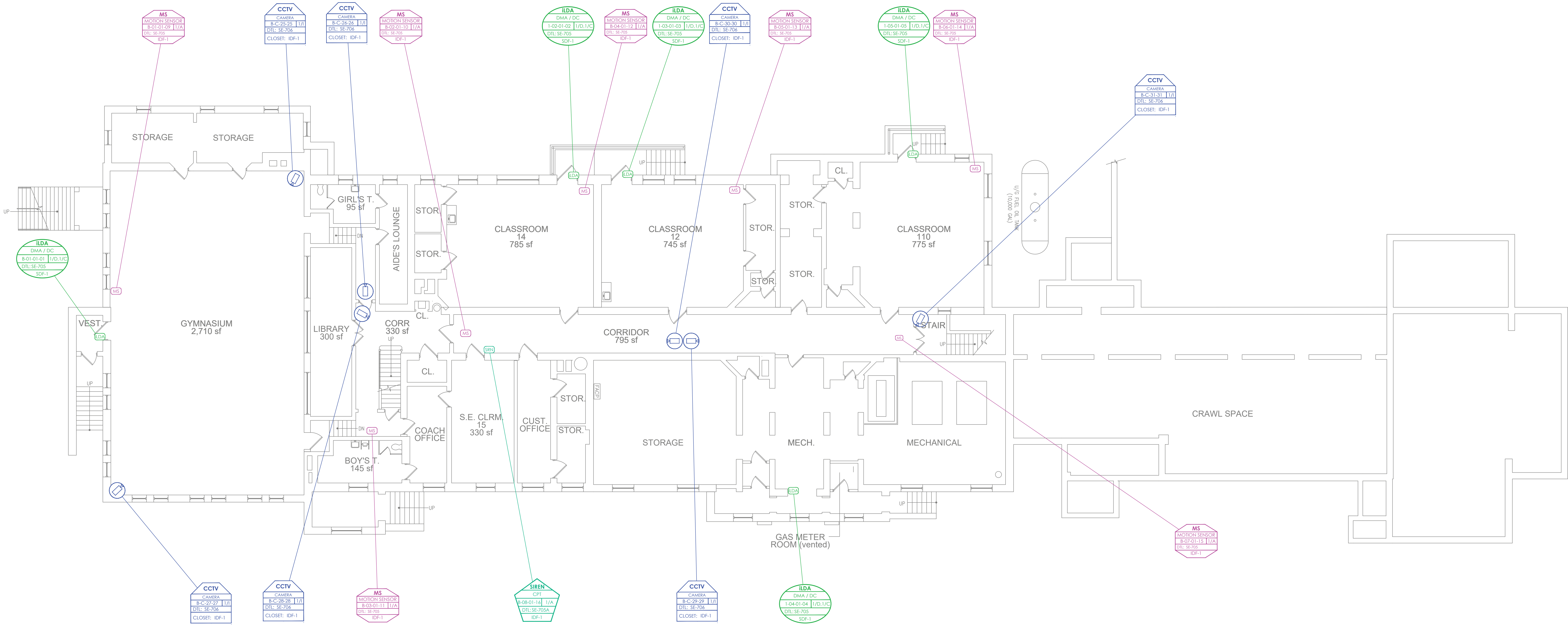
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**PROJECT:**  
RIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

**TITLE:**  
COVER SHEET /  
LEGEND & INDEX

**I.T.** **C.A.** **E.M.**  
DESIGNED BY DRAWN BY CHECKED BY  
DATE: 11/27/2019  
WORK ORDER NO: XXXXXX SCALE: NTS  
S.A. NO: XXXXXX DRAWING NO: SE-000





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1/15/2020	REVISED-ISSUED FOR BID



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White Plains, NY 10603

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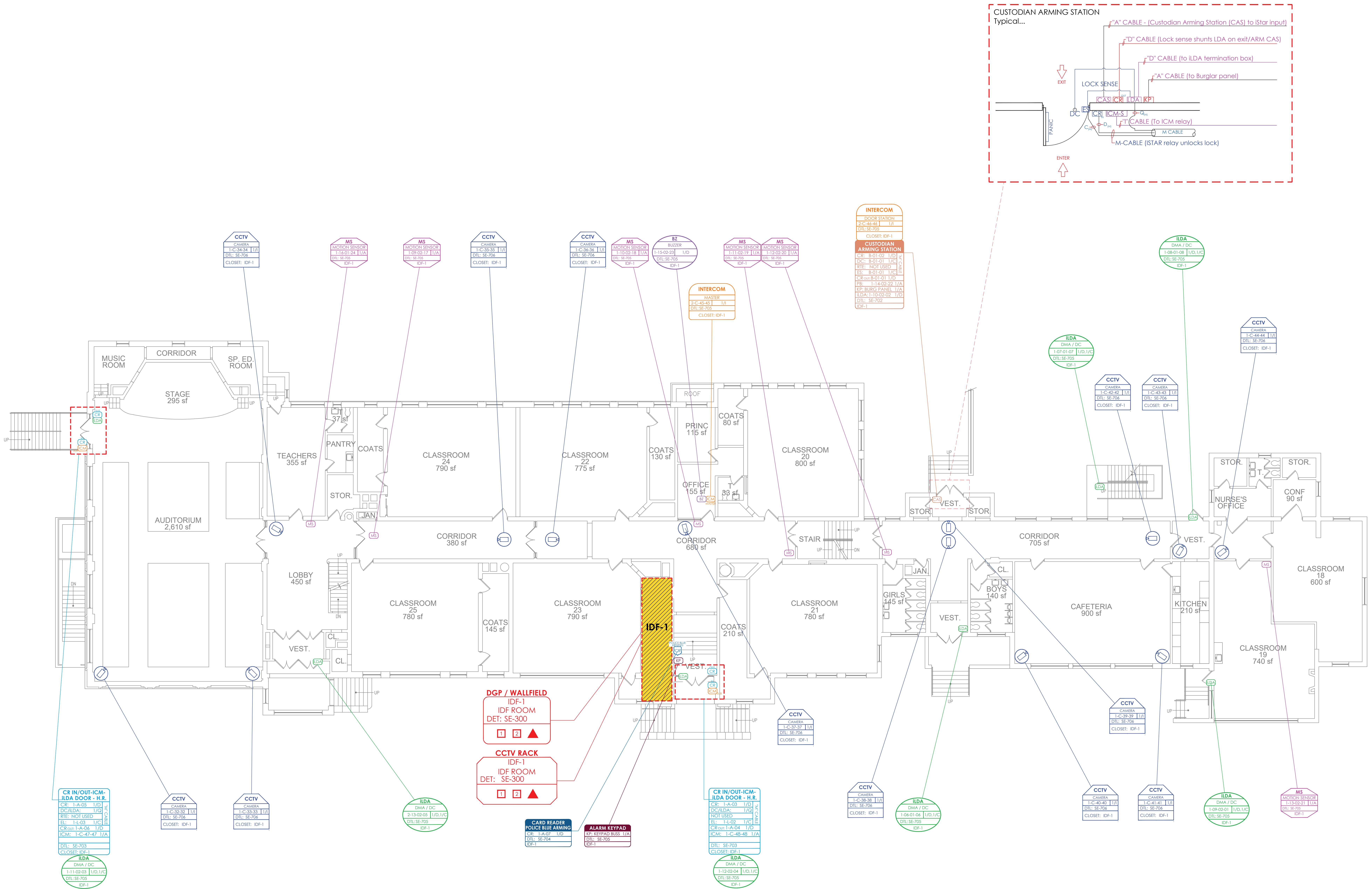
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:

**SECURITY UPDATE PROJECT  
BASEMENT**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-100	





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  3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE SECURITY MANAGER.
  4. PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  5. ALL CAT-4 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
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1/15/2020	REVISED-ISSUED FOR BID



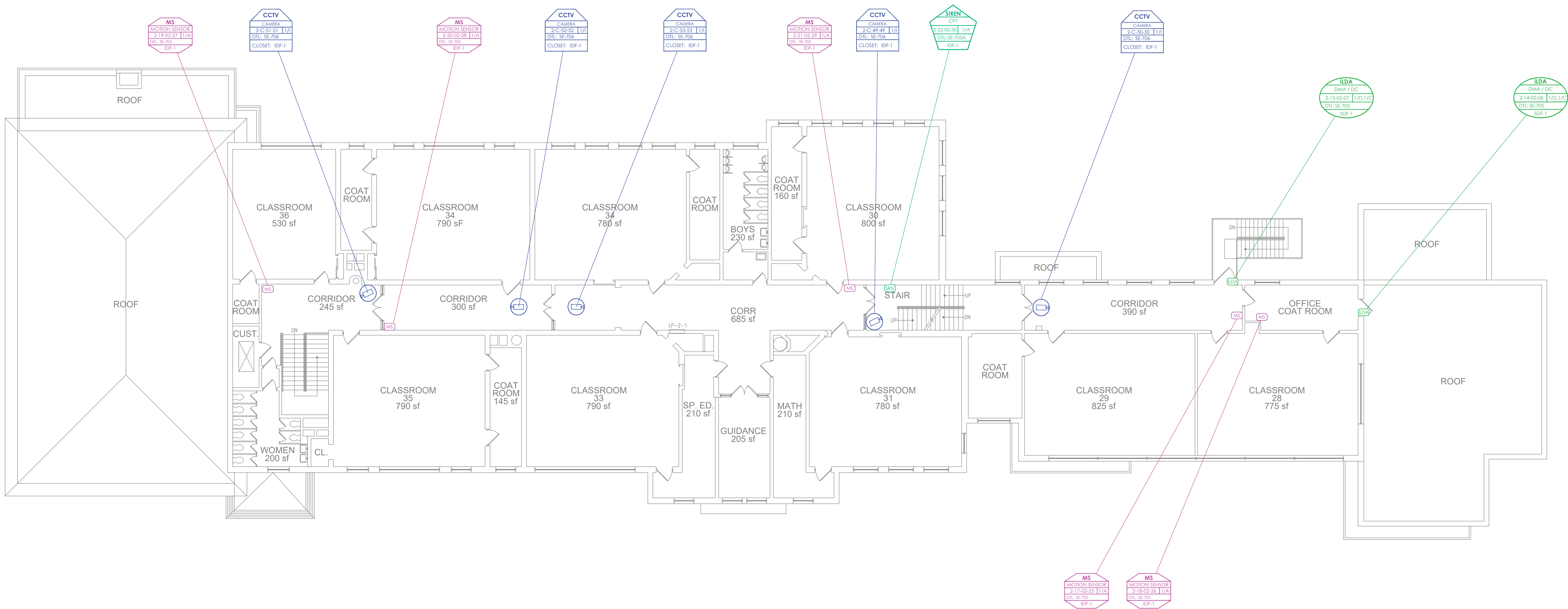
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PROJECT:  
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:  
**SECURITY UPDATE PROJECT  
FIRST FLOOR**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	
XXXXXX	SCALE:	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-101	





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11/15/2020	REVISED-ISSUED FOR BID

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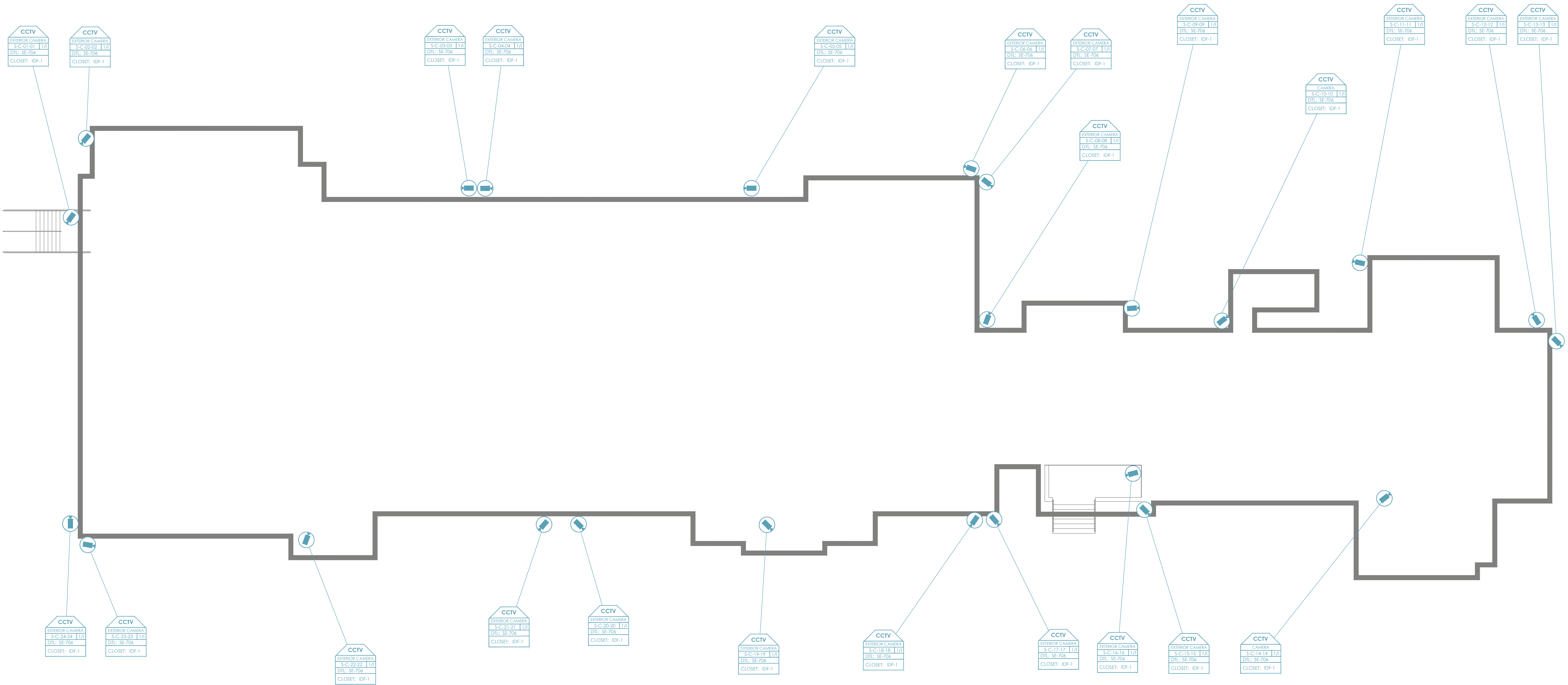
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PROJECT:  
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:  
**SECURITY UPDATE PROJECT  
SECOND FLOOR**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-102	





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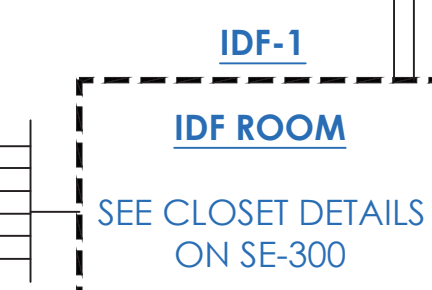
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PROJECT:  
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:  
**SECURITY UPDATE PROJECT  
SITE PLAN**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	
S.A. NO:	DRAWING NO:	SE-103
XXXXXX		





- NOTES:
1. DEVICE PLACEMENT, RISER DEPTH/CORNER, CABLE TYPES AND TYPES OF CONNECTIONS AND CABLES FOR REFERENCE ONLY.
  2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ALL CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BO.
  3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED.
  4. PRIOR TO PULLING CABLE 4 WEEKS, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300Y WHEN BROUGHT TO CLOSEST CLOSET.
  5. ALL CAT 6A CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
  6. CONTRACTOR TO MAKE ANY DEVIATIONS FROM THE DRAWING RISER AND NOT ON THE AS BUILT.
  7. CONTRACTOR TO PRODUCE AND DELIVER A CD COPY AS BUILT SET AND NOT ON THE AS BUILT (CD COPY 2 SETS) AND A CD WITH PDF FORMAT.
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RIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:

SECURITY DEVICE  
RISER DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO: XXXXXXX	DATE: 11/27/2019 SCALE: NO SCALE	
S.A. NO: XXXXXXX	DRAWING NO: SE-200	



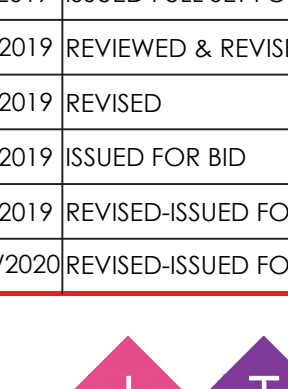


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155 Lafayette Ave  
White Plains, NY 10603

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**PROJECT:**

**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

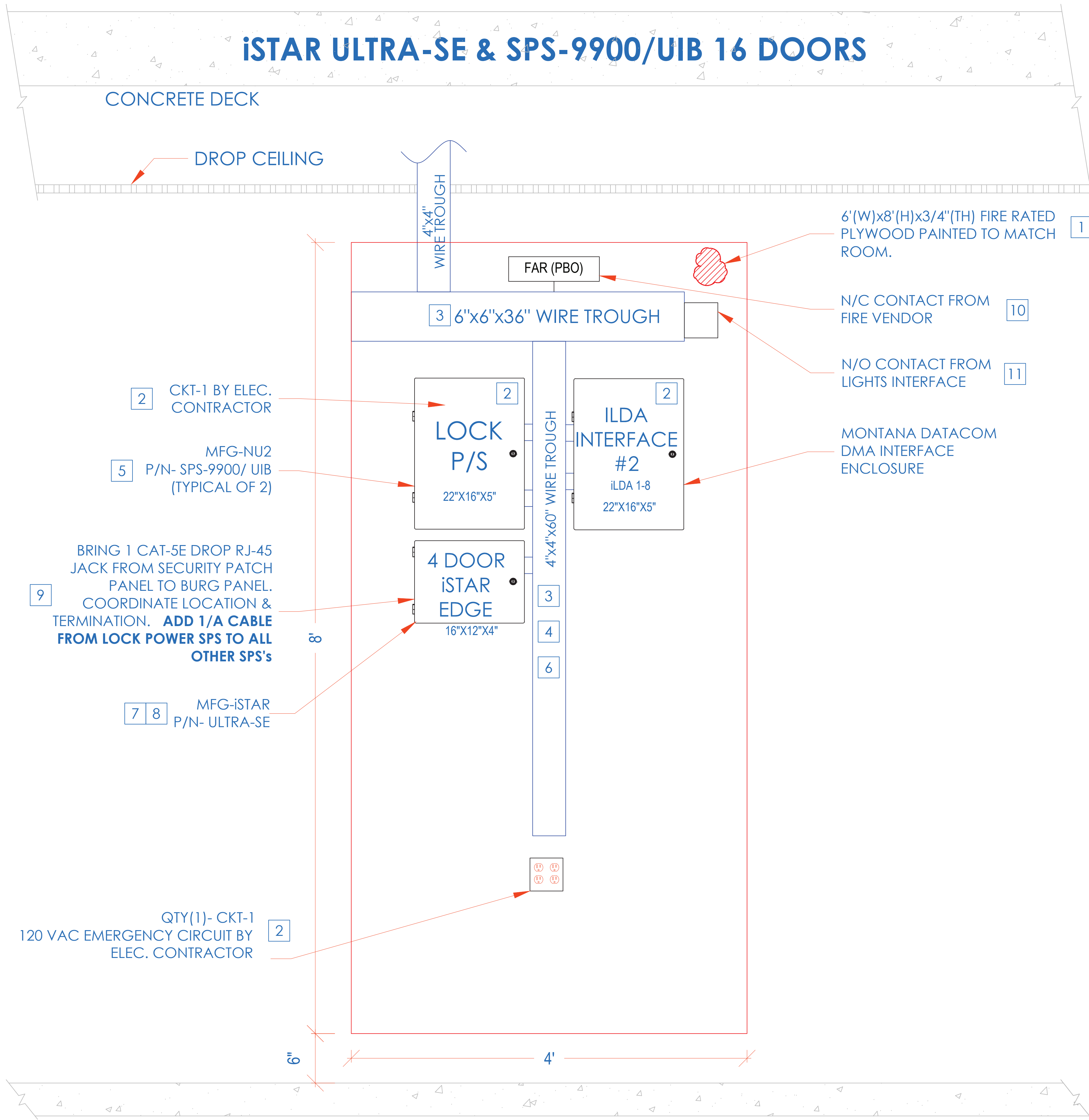
**TITLE:**

**CLOSET ELEVATIONS**  
**IDF-1**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO: <b>XXXXXX</b>	DATE: <b>11/27/2019</b>	
S.A. INC. <b>XXXXXX</b>	SCALE: <b>N.T.S.</b>	
	DRAWING NO: <b>SE-300</b>	

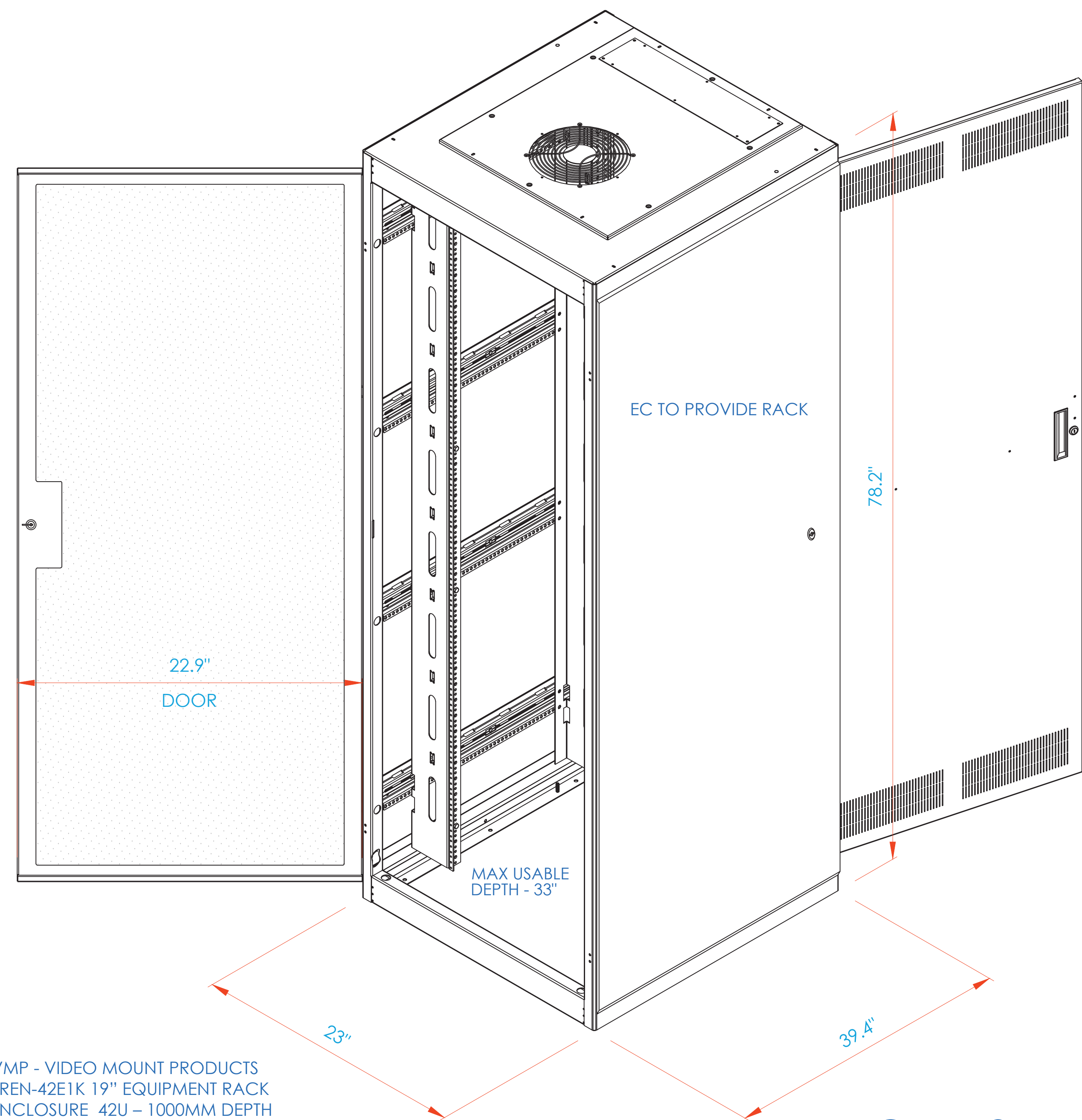
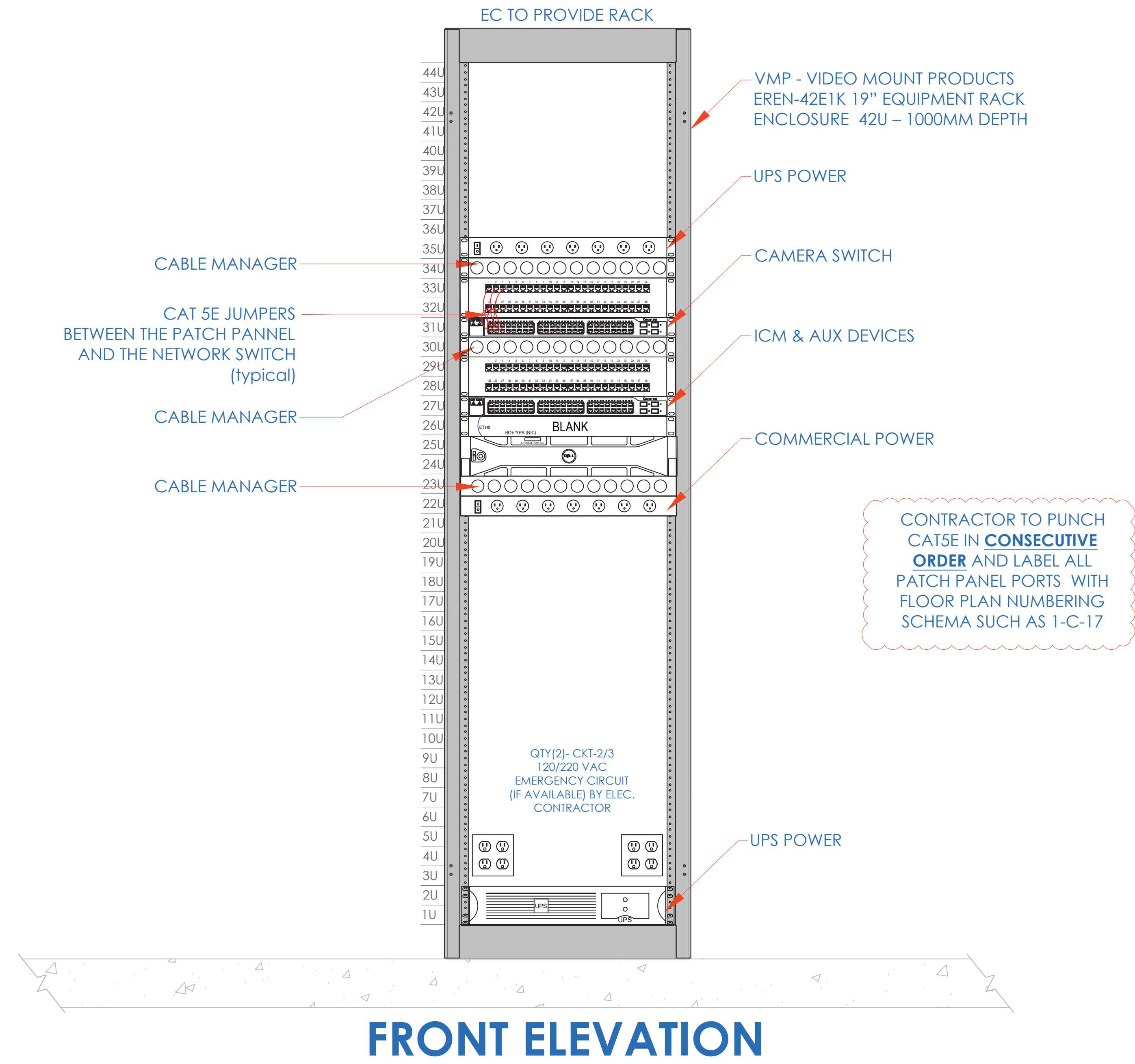




### INSTALLATION PROCEDURE ISTAR ULTRA SE WITH SPS-9900/ UIB ACCESS CONTROL HEADEND

- LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
- COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
- FURNISH AND INSTALL A 6"x6"x48" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED HORIZONTALLY, ON THE PLYWOOD 4" FROM THE TOP EDGE OF PLYWOOD.
- FURNISH AND INSTALL A 4"x4"x60" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED VERTICALLY, CENTERED ON THE PLYWOOD ADJOINING TO HORIZONTAL TROUGH. PROVIDE PUNCH OUTS TO MATCH THE EQUIPMENT AS SHOWN.
- MOUNT THE UTILITY ENCLOSURE 4" FROM BOTTOM EDGE OF VERTICAL TROUGH.
- FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE LOCK POWER SUPPLY (SPS-9900/UIB) TO THE CENTER TROUGH AS SHOWN. DO NOT ENTER BOTTOM OF P/S (INTERFERES WITH BATTERY).
- FURNISH AND INSTALL 1-1/2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE ISTAR ULTRA SE TO THE CENTER TROUGH AS SHOWN.
- MOUNT [ISTAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [ISTAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
- BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT. **ADD 1/A CABLE FROM LOCK POWER SUPPLY (SPS) TO ALL OTHER SPS's.**
- COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY. PERFORM SAME FOR HALLWAY LIGHTS INTERFACE
- PROVIDE 18/2 PAIR OF WIRES FROM BUILDING'S LIGHTING SYSTEM. ARRANGE SUCH THAT DESIGNATED BUILDING'S LIGHTS ARE TURNED ON WHEN THE SECURITY SYSTEM CLOSES THE CIRCUIT
- ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- ALL CONNECTIONS BETWEEN PANELS & TROUGHs SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.
- INSTALL TAMPER SWITCHES AND WIRE PANELS IN SERIES TO DESIGNATED INPUT SHOWN ON POINT-TO-POINT CHARTS.

### CCTV NETWORK RACK



- NOTES:
- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
  - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY/IDE.
  - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE SECURITY MANAGER.
  - PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  - ALL CAT-4 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
  - CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE 'AS BUILT'.
  - CONTRACTOR TO PRODUCE AND DELIVER A BOUND 'AS BUILT' SET IN BOTH 'PDF' AND 'DWG' COPY (2.00) AND A CD WITH 'PDF' FORMAT.
  - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	
DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID



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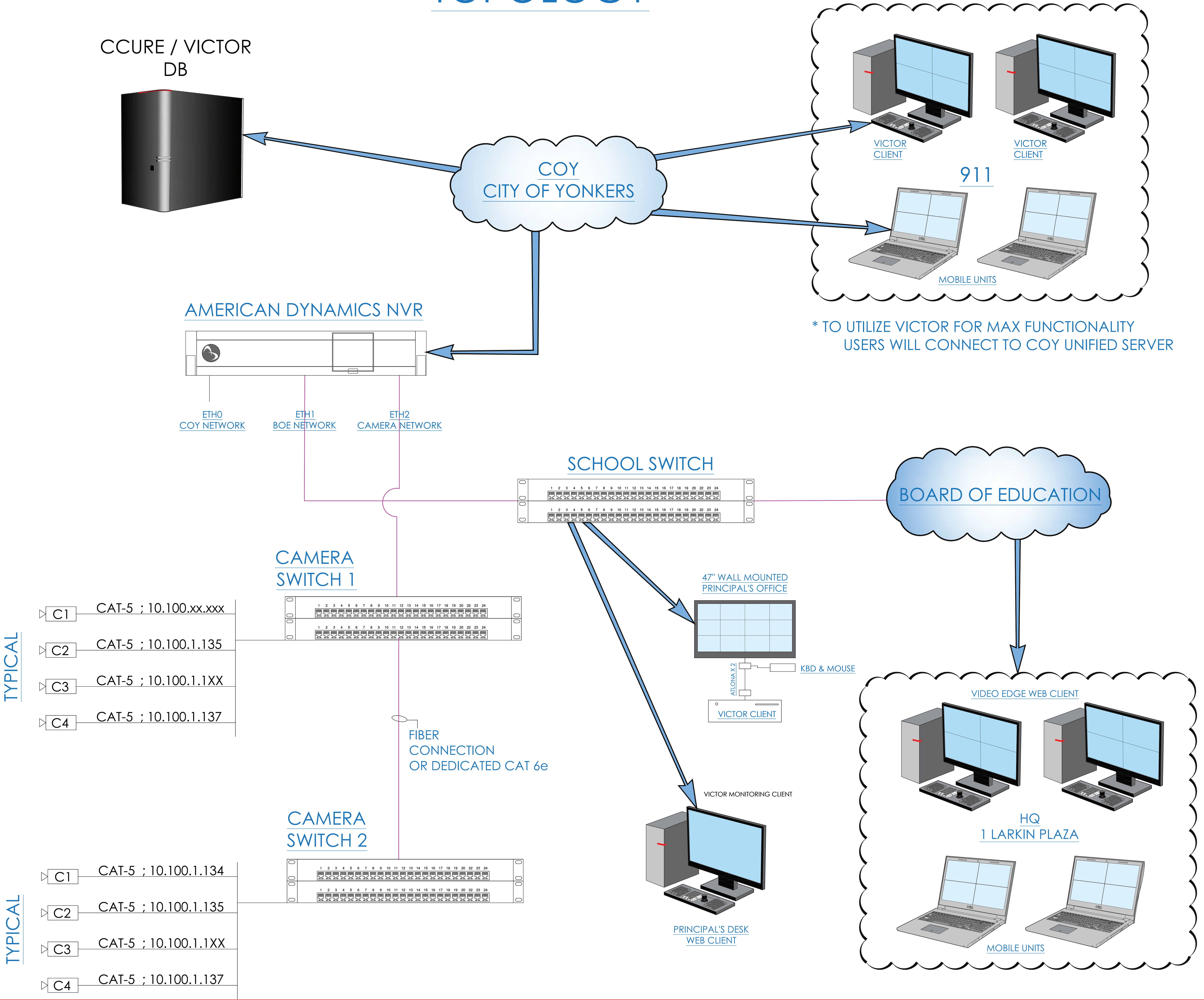
PROJECT:  
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:  
**CLOSET ELEVATIONS  
IDF-2**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	SCALE: N.T.S.
S.A. NO:	DRAWING NO:	XXXXXX
XXXXXX	SE-301	




# COY-BOE SECURITY DEVICE NETWORK TOPOLOGY



- NOTES:
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
  2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE.
  3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
  4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
  6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT".
  7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SEE HARD COPY (2.135) AND A CD WITH ".PDF" FORMAT.
  8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

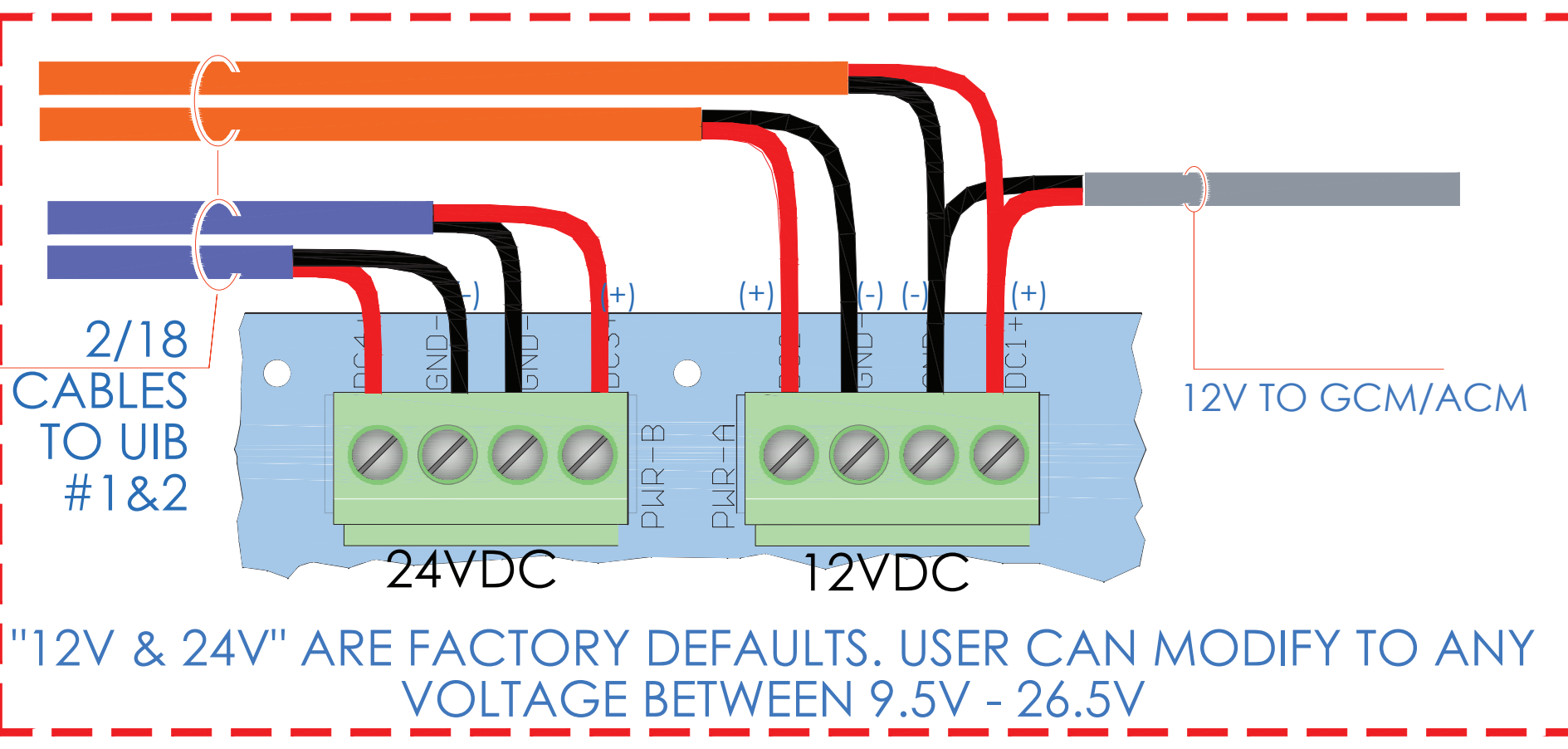
ISSUED FOR:	
DATE	COMMENTS
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7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

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PROJECT: YONKERS BOE SCHOOLS 565 WARBURTON AVE YONKERS, NY 10701		
TITLE: CCTV ONE LINE DIAGRAM		
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	N.T.S.
S.A. NO:	DRAWING NO:	SE-303
XXXXXX		

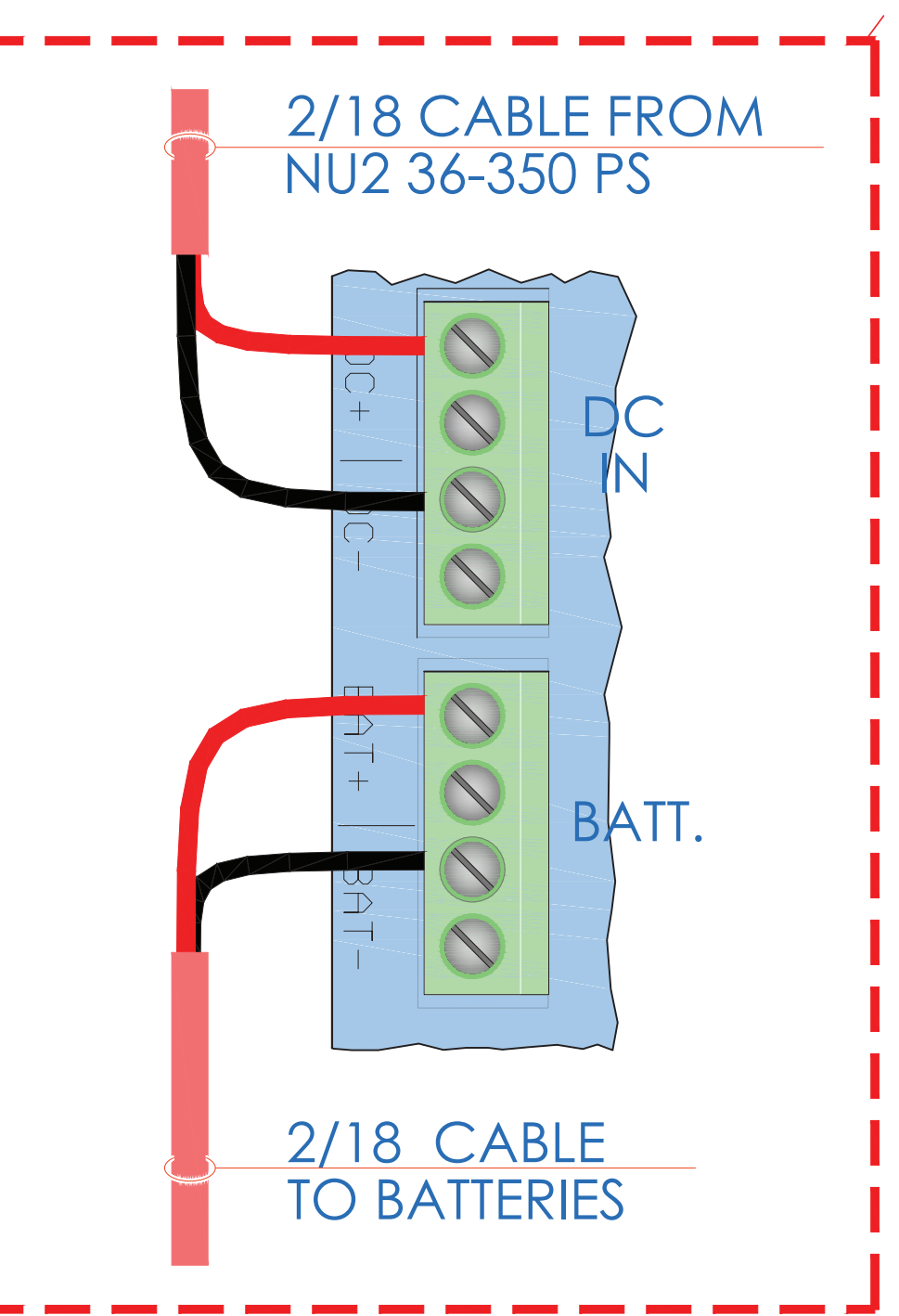


# P-FORCE 1 - WIRING OF SPS/UIB

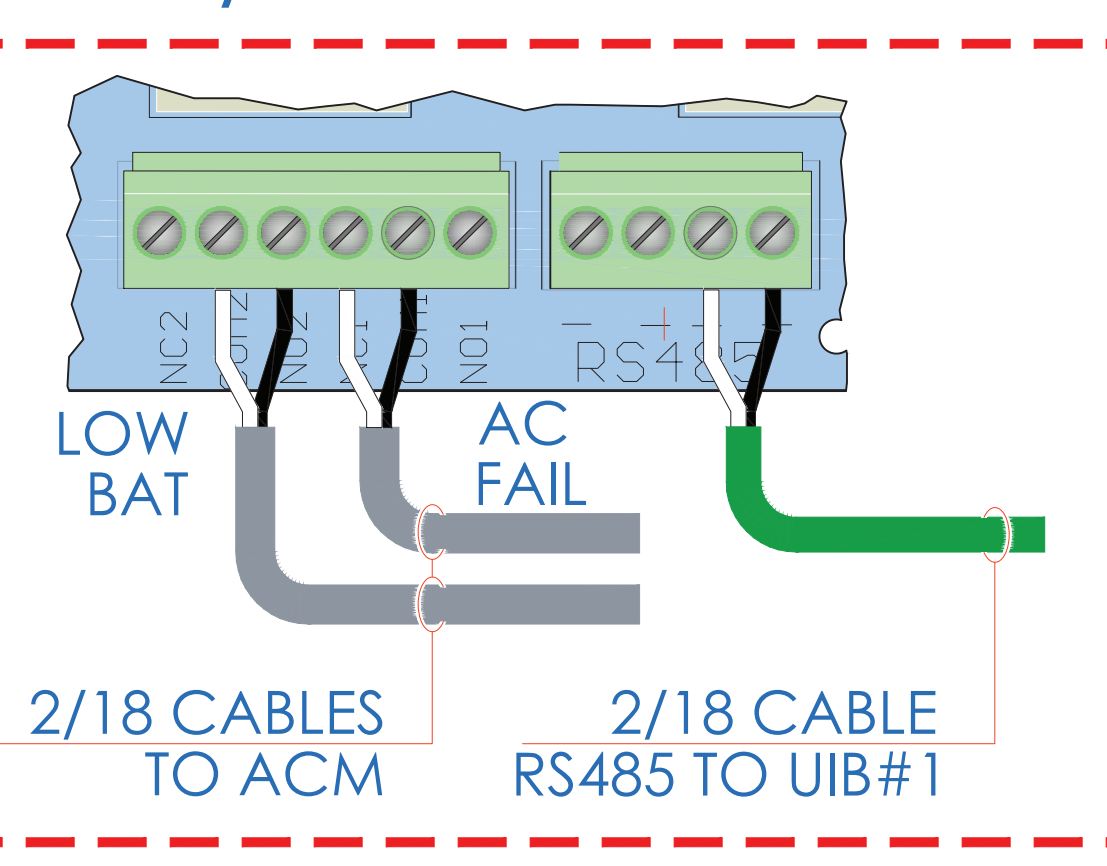
## SPS OUT POWER CONNECTIONS



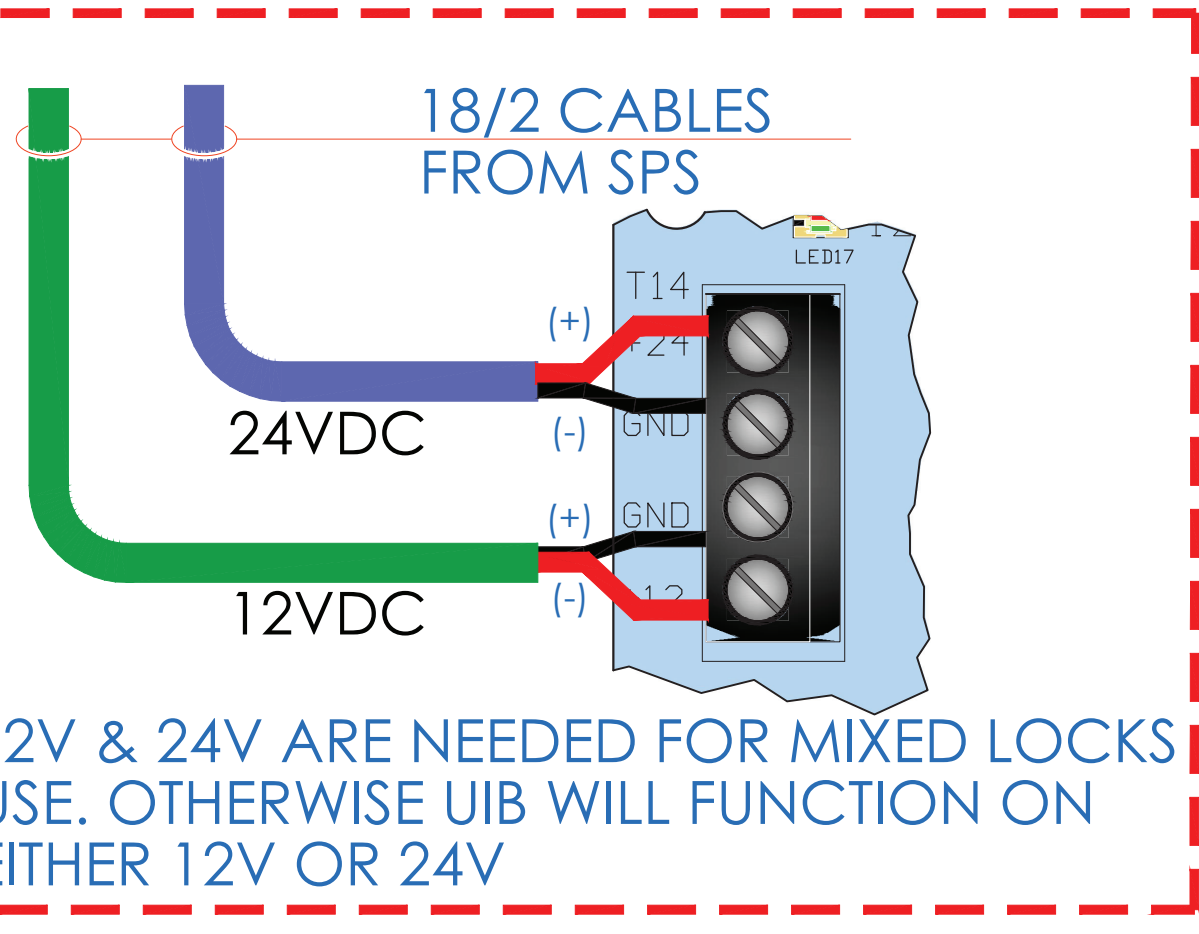
## IN PWR & BAT CONNECTION



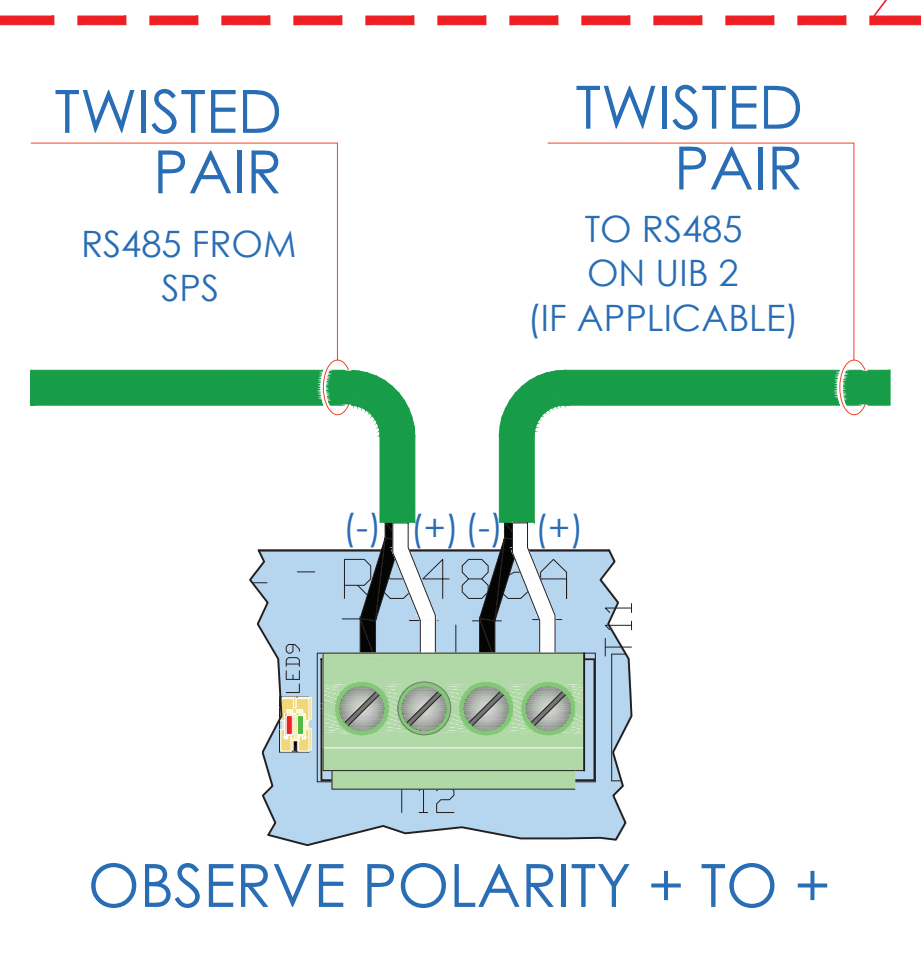
## AC FAIL/LO BAT & RS485 COMM



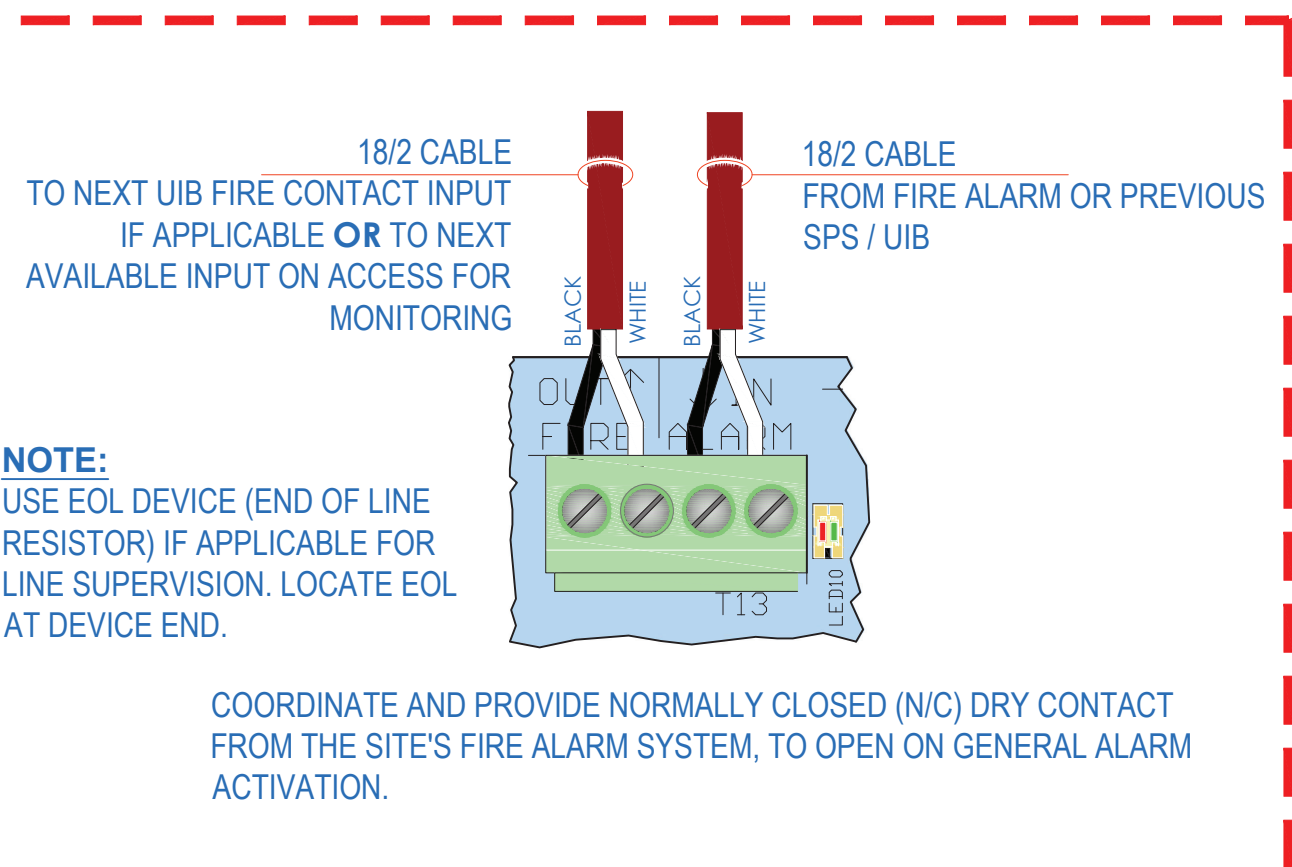
## UIB INPUT 12/24VPOWER FROM SPS



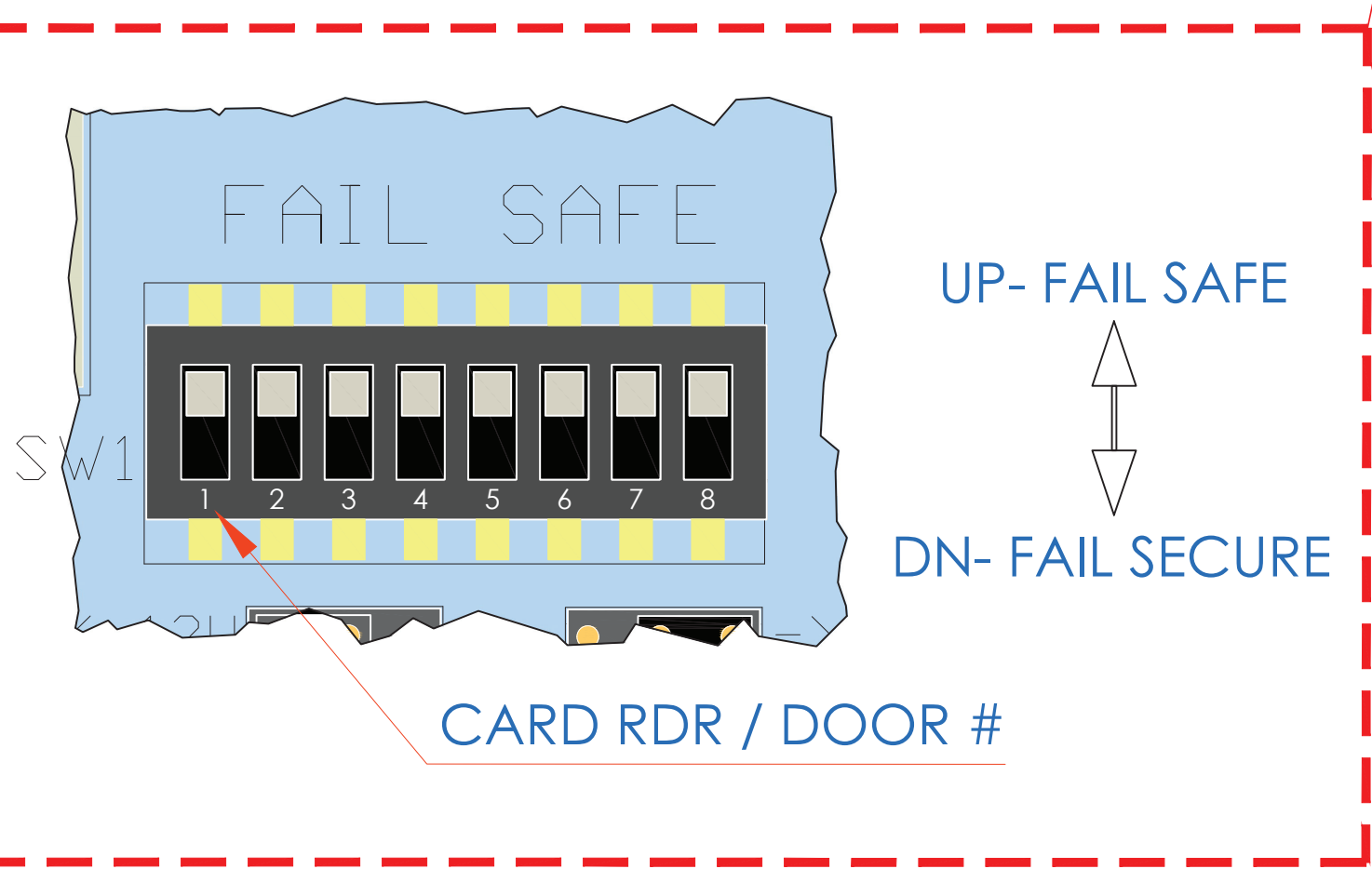
## RS485 COMM



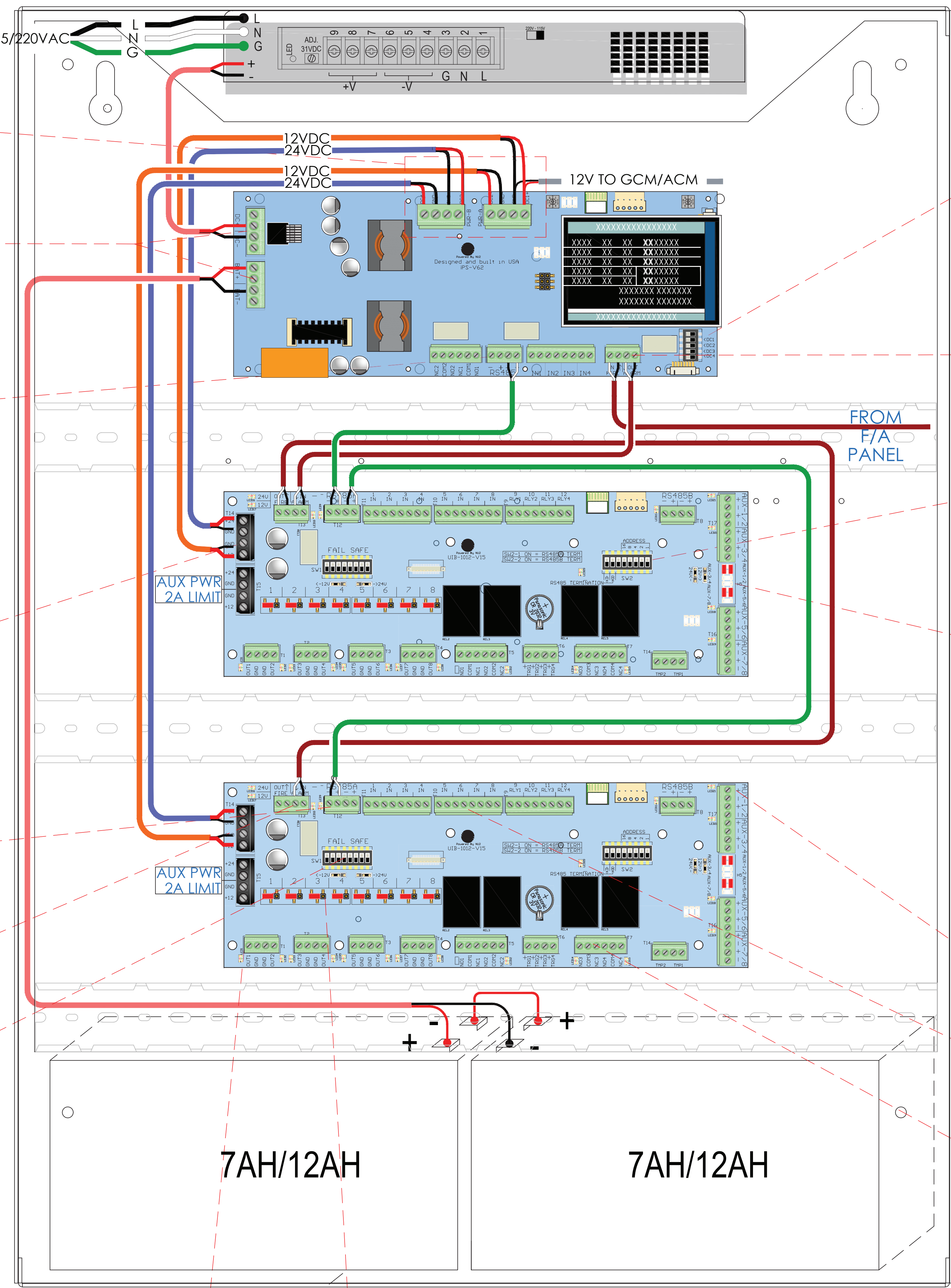
## FIRE ALARM INTERFACE



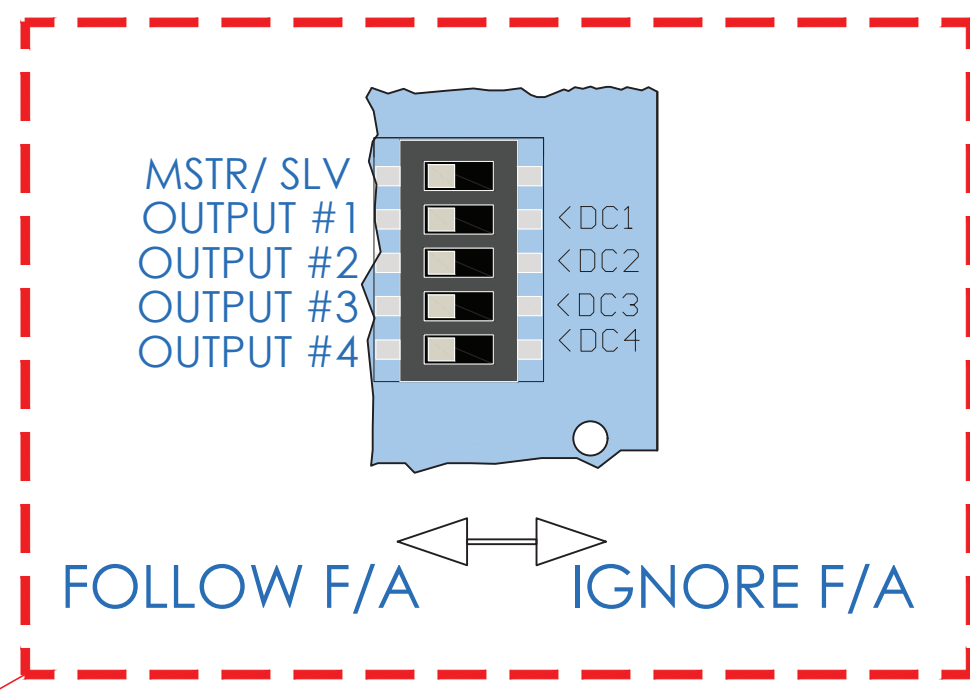
## ELECTRIFIED LOCK SELECTOR FAIL SAFE/FAIL SECURE



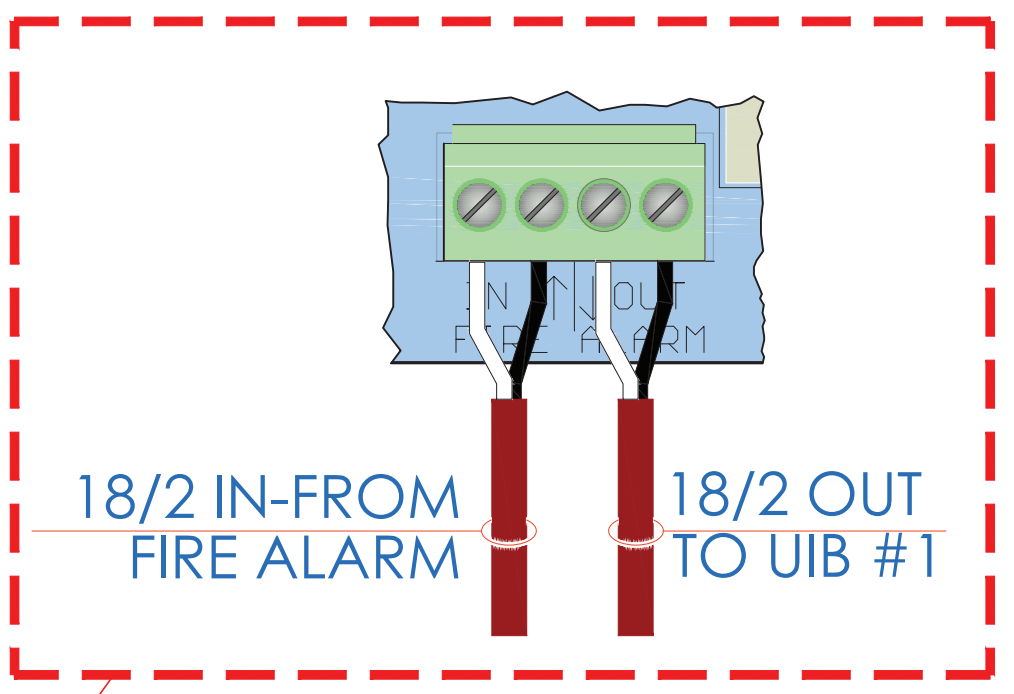
## FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES



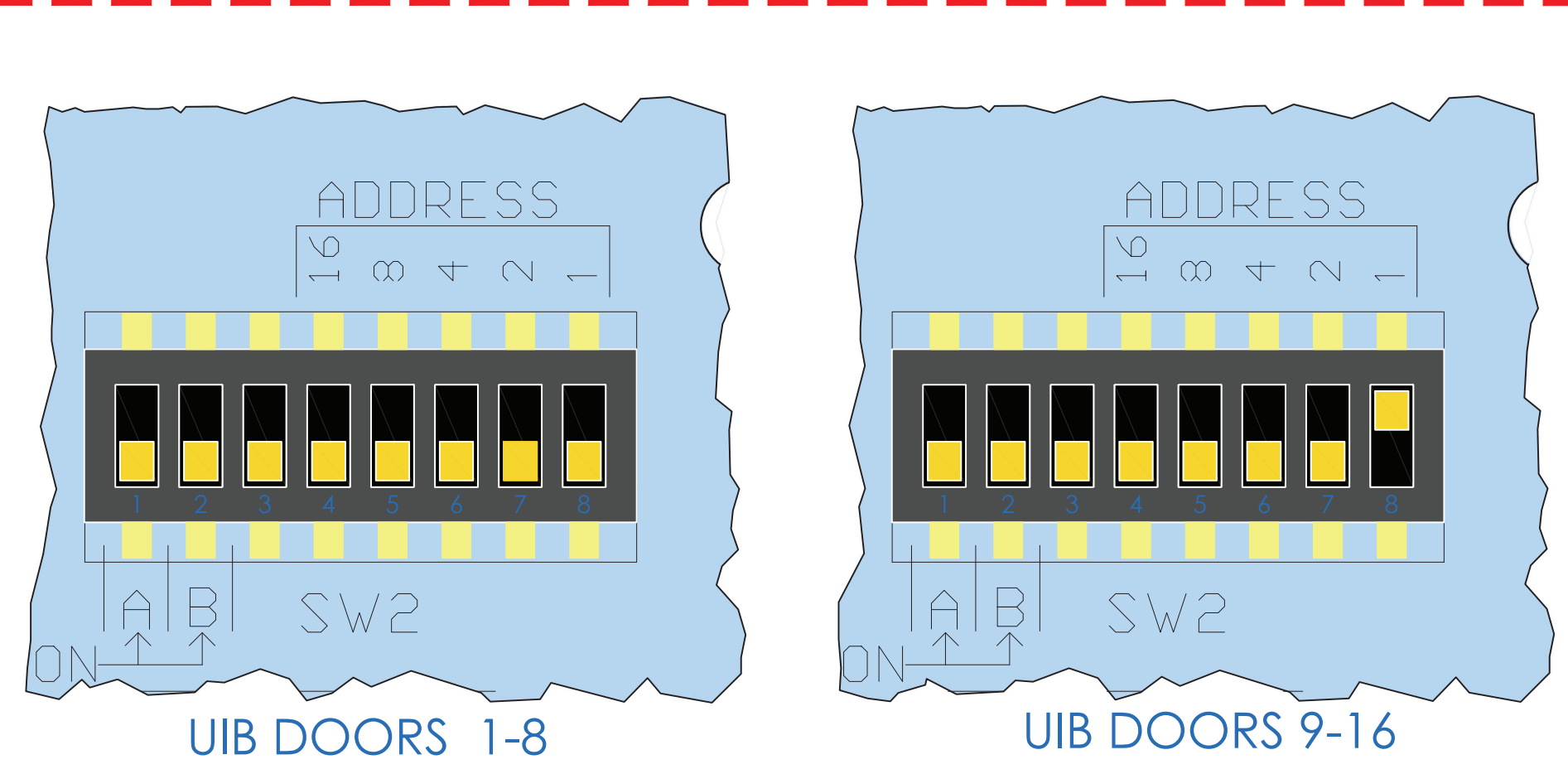
## FIRE ALARM OUTPUT CONTROL



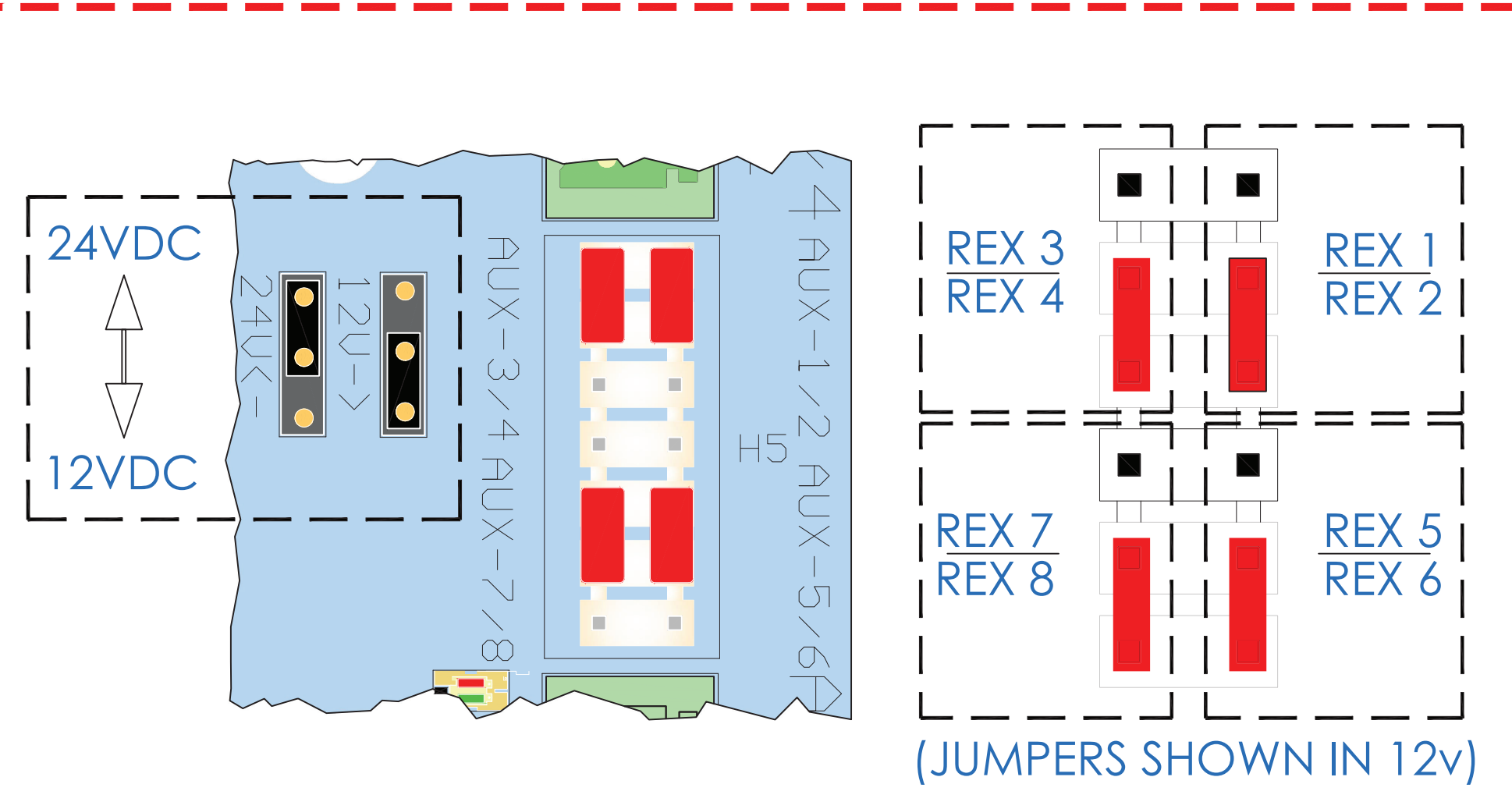
## FIRE ALARM



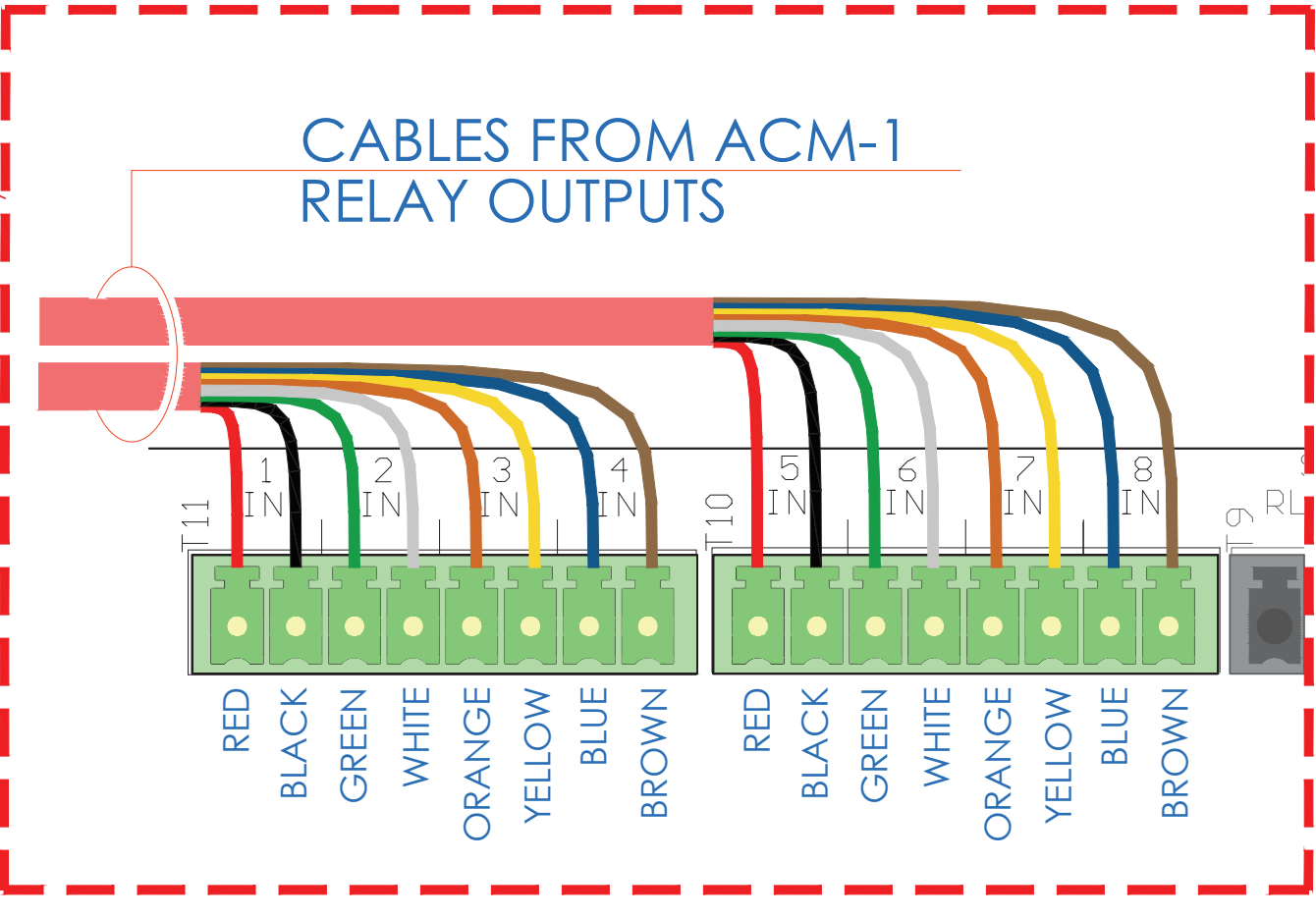
## DIP SWITCH SETTINGS FOR DOOR ADDRESSING



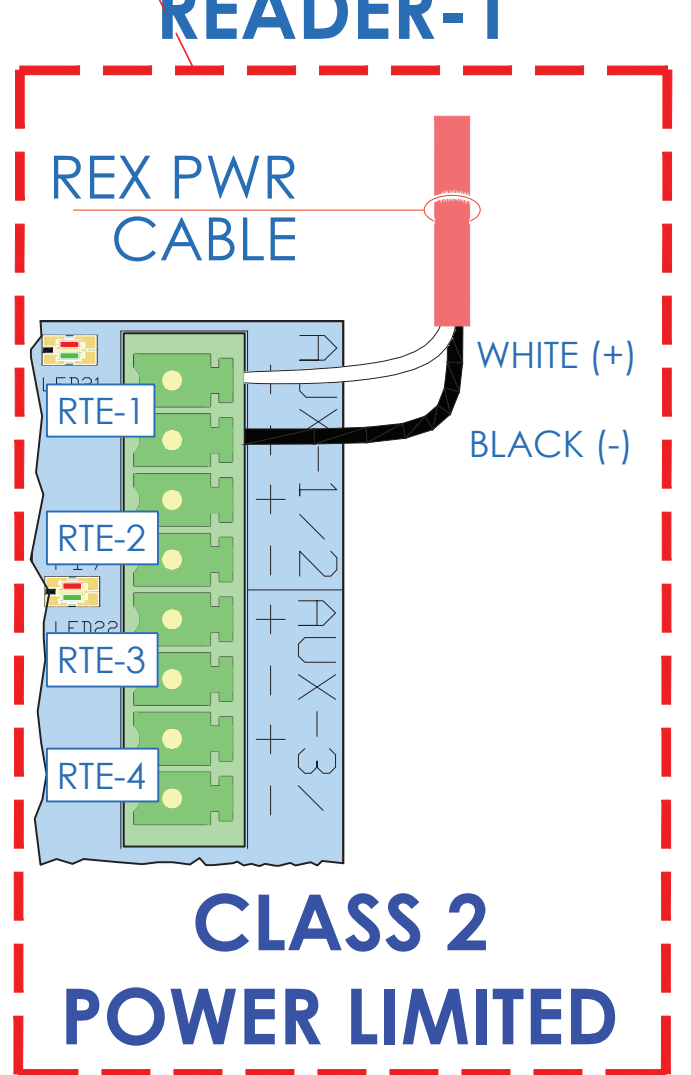
## RTE POWER SETTINGS FOR DOORS 1 THRU 8



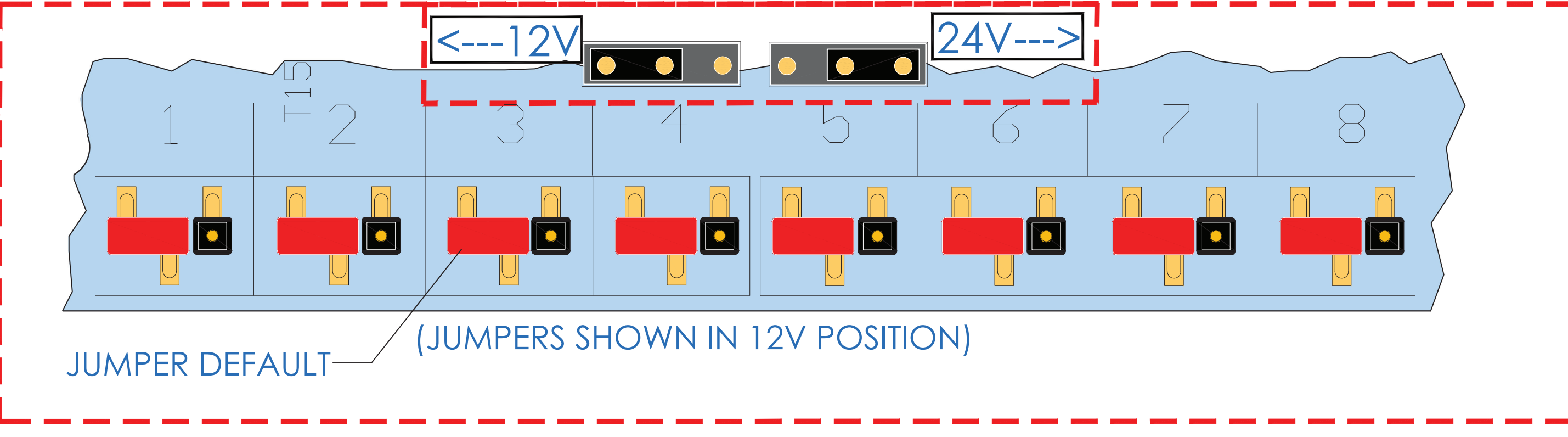
## TYP. UIB INPUT CONNECTIONS



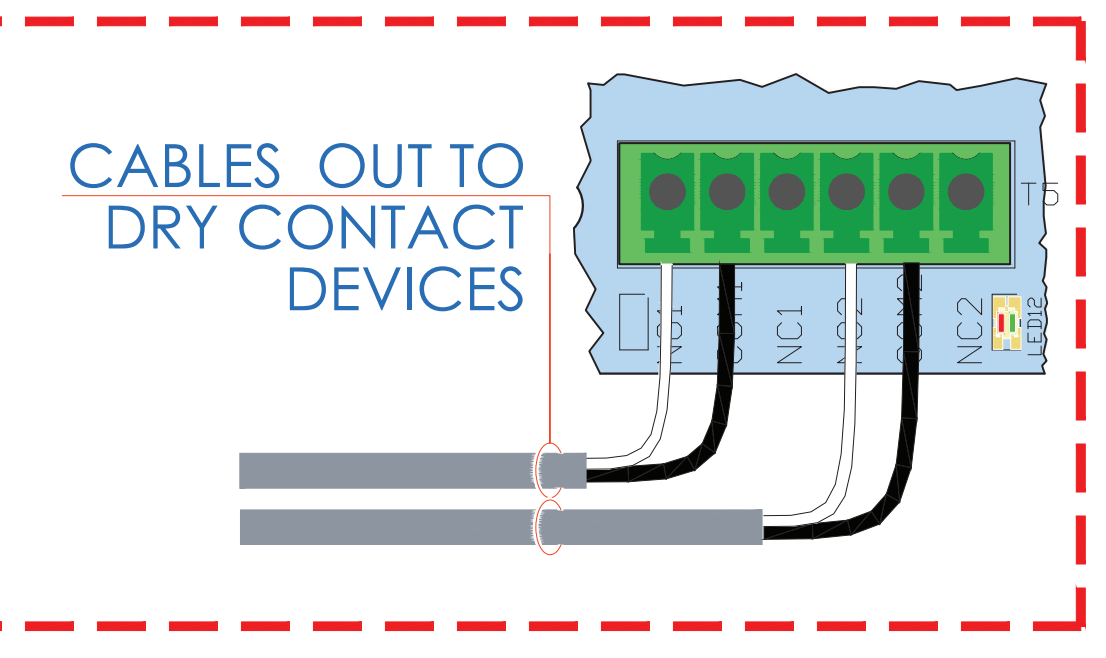
## RTE POWER FOR READER-1



## LOCK VOLTAGE SELECTOR JUMPER SETTINGS



## TYPICAL DRY CONTACT CONNECTIONS



- NOTES:
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  3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
  4. PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
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  8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	
DATE	COMMENTS
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7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/24/2019	REVISED-ISSUED FOR BID
1/15/2020	REVISED-ISSUED FOR BID



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PROJECT: RIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE: ISTAR DRAWING  
WIRING DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	N.T.S.
S.A. NO:	DRAWING NO:	SE-700
XXXXXX		



# BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACES - ONE LINE

NOTES:

1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CDD BOE.
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4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT".
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. IIG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

**DOORS, MOTION DETECTORS ETC:** (typical) MD MD MD

**SIRENS** X-FL SRN 1ST SRN BSMT SRN

**POLICE - FRONT DOOR AREA** "BLUE" ARMING READER FRONT DOOR

**CUSTODIAN ARMING STATION (CAS)** ICM CAS "OUT" CR

**BURG PANEL** COMM 10/100 TO CCURE-9000 AND CENTRAL STATION

**CC-9000 ISTAR**

**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)

18/2 BUZZER - ADMINISTRATION OFFICE (ILDA ALARM)

18/2 N/C FIRE ALARM CONTACT (BY EC):  
1- TURN "LIGHTS" INTERFACE RELAY ON

18/2 LOW VOLTAGE WIRE FROM LIGHT CONTACTOR(S) TO SECURITY PANEL BY EC

LIGHTS TURN ON:  
1- WHEN BURGLAR ALARM IS TRIGGERED  
2- WHEN FIRE ALARM IS ACTIVATED

LIGHT CONTROL CONTACTOR (by EC)

ILDA TERMINATION BOX (SEE SE-704 FOR DETAILS)

ILDA-1 ILDA-2 ILDA-3 ILDA-n

TO ISTAR - BURG PANEL "ARM" EVENT

TO DMA/LDA TERMINATION CONTROL PANEL

BY PANEL-FOR SERVICE

## 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

**CUSTODIAN ARMING STATION**  
Typical...

LOCK SENSE

CAS | CR | ILDA | KP1

DC ES CR ICM-S

"A" CABLE - (Custodian Arming Station (CAS) to Istar input)

"D" CABLE (Lock sense shunts LDA on exit/ARM CAS)

"D" CABLE (to ILDA termination box)

"A" CABLE (to Burglar panel)

"I" CABLE (To ICM relay)

M-CABLE (ISTAR relay unlocks lock)

EXIT

ENTER

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

ISSUED FOR:	
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10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

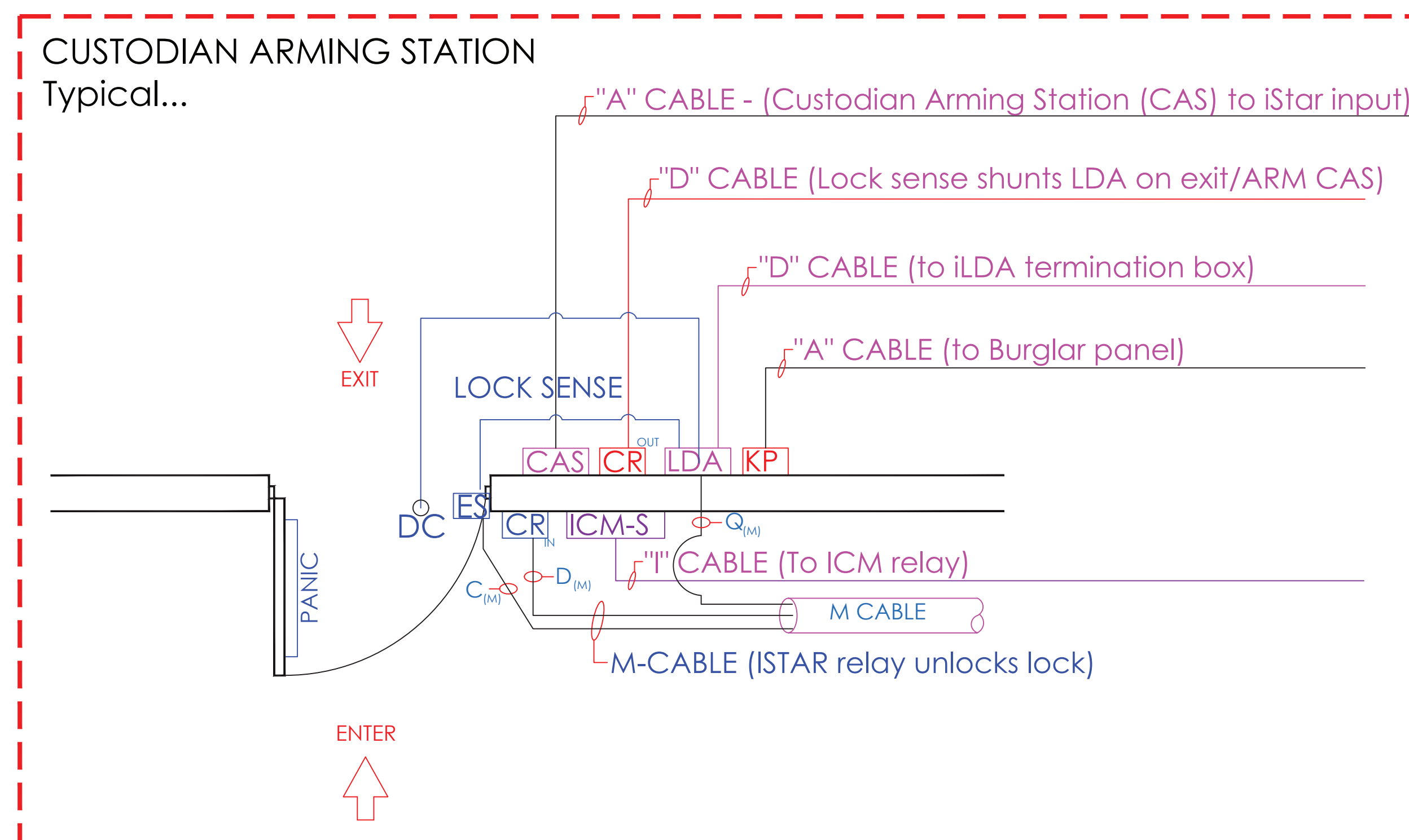
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PROJECT:  
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

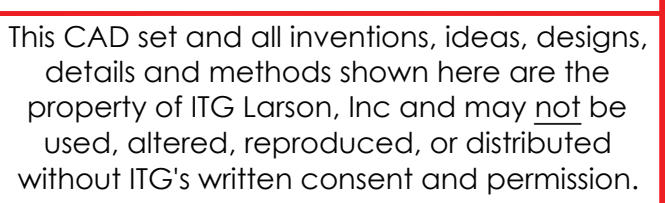
TITLE:  
**BURGLAR & ACCESS INTERFACE**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO.	DATE	11/27/2019
XXXXXX	SCALE	N.T.S.
S.A. NO.	DRAWING NO.	SE-701
XXXXXX		

- 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



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8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
1/15/2020	REVISED-ISSUED FOR BID



TITLE:

BURGLAR & ACCESS  
INTERFACE

<b>I.T.</b>	<b>C.A.</b>	<b>E.M.</b>
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE:	
XXXXXXX	11/27/2019	
	SCALE:	
	N.T.S.	
S.A. NO:	DRAWING NO:	
XXXXXXX	SE-701	



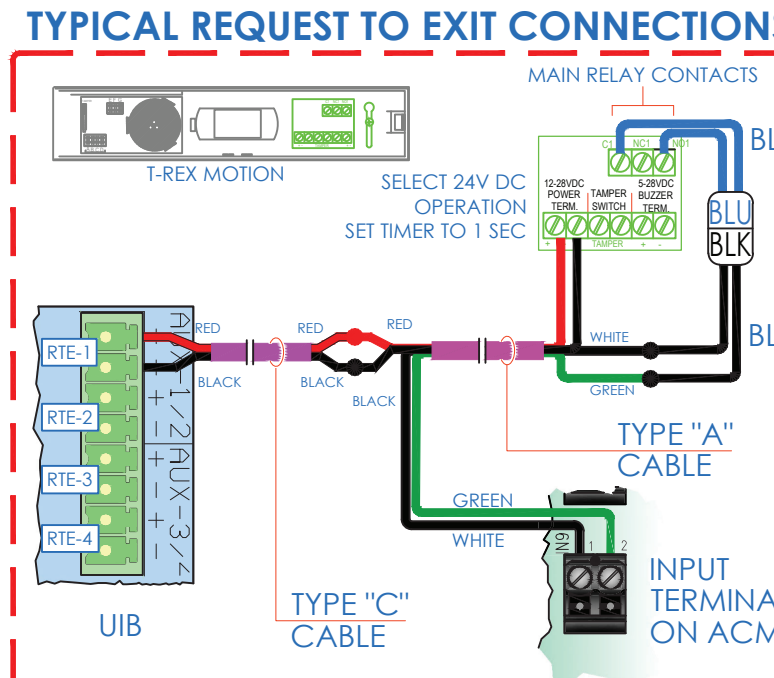
## ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX

READER CONNECTIONS		
DOOR	iSTAR	
DOOR 1	RDR 1	ACM
DOOR 2	RDR 2	
DOOR 3	RDR 3	
DOOR 4	RDR 4	
DOOR 5	RDR 5	ACM
DOOR 6	RDR 6	
DOOR 7	RDR 7	
DOOR 8	RDR 8	
DOOR 9	RDR 1	ACM
DOOR 10	RDR 2	
DOOR 11	RDR 3	
DOOR 12	RDR 4	
DOOR 13	RDR 5	ACM
DOOR 14	RDR 6	
DOOR 15	RDR 7	
DOOR 16	RDR 8	

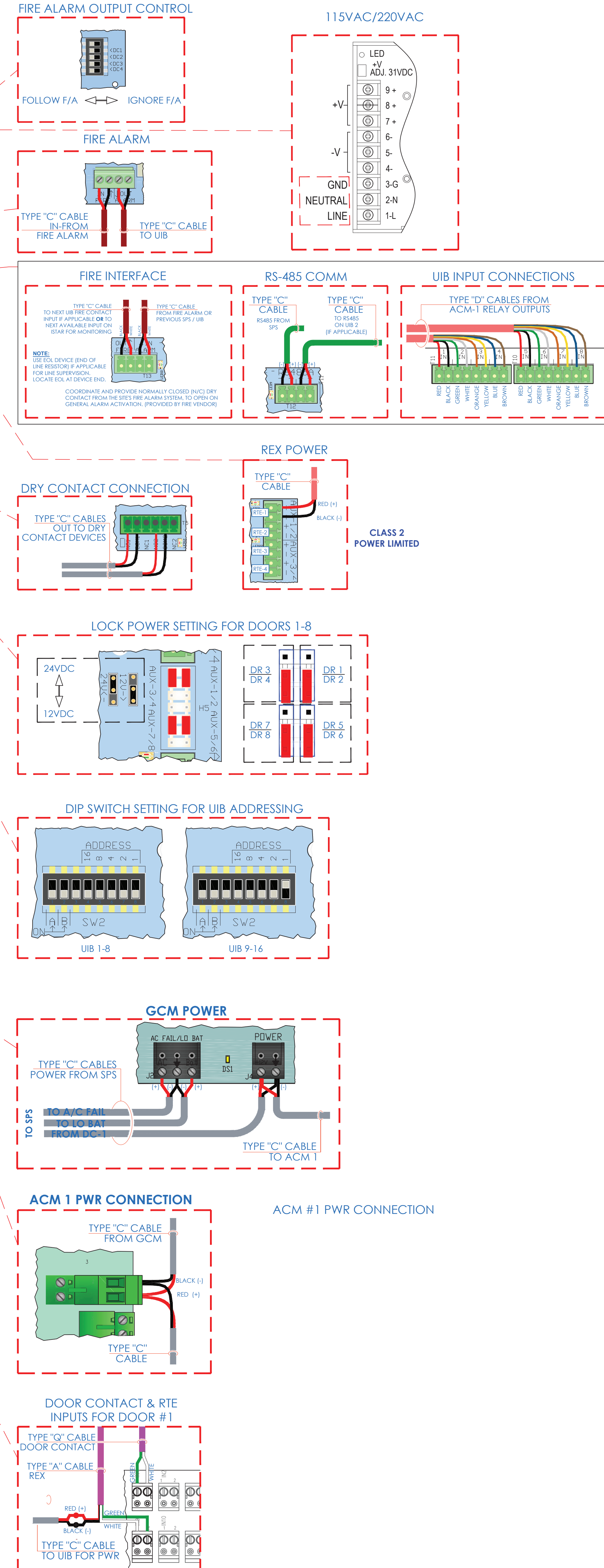
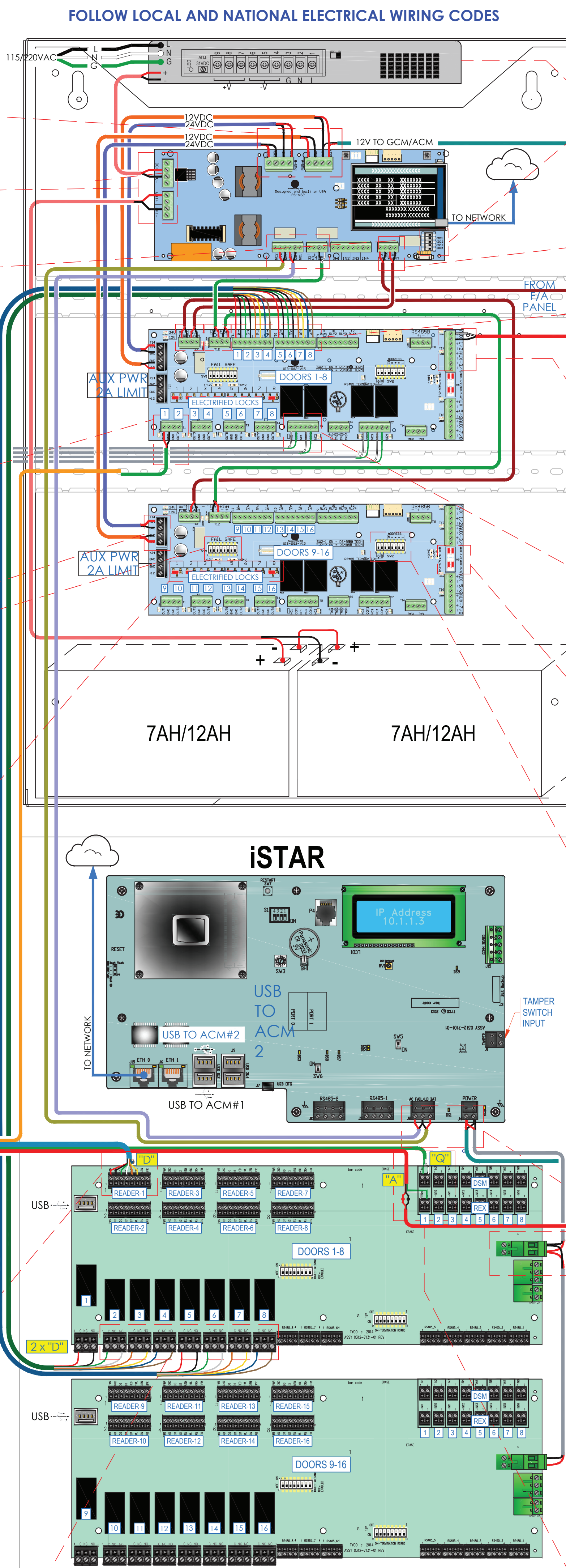
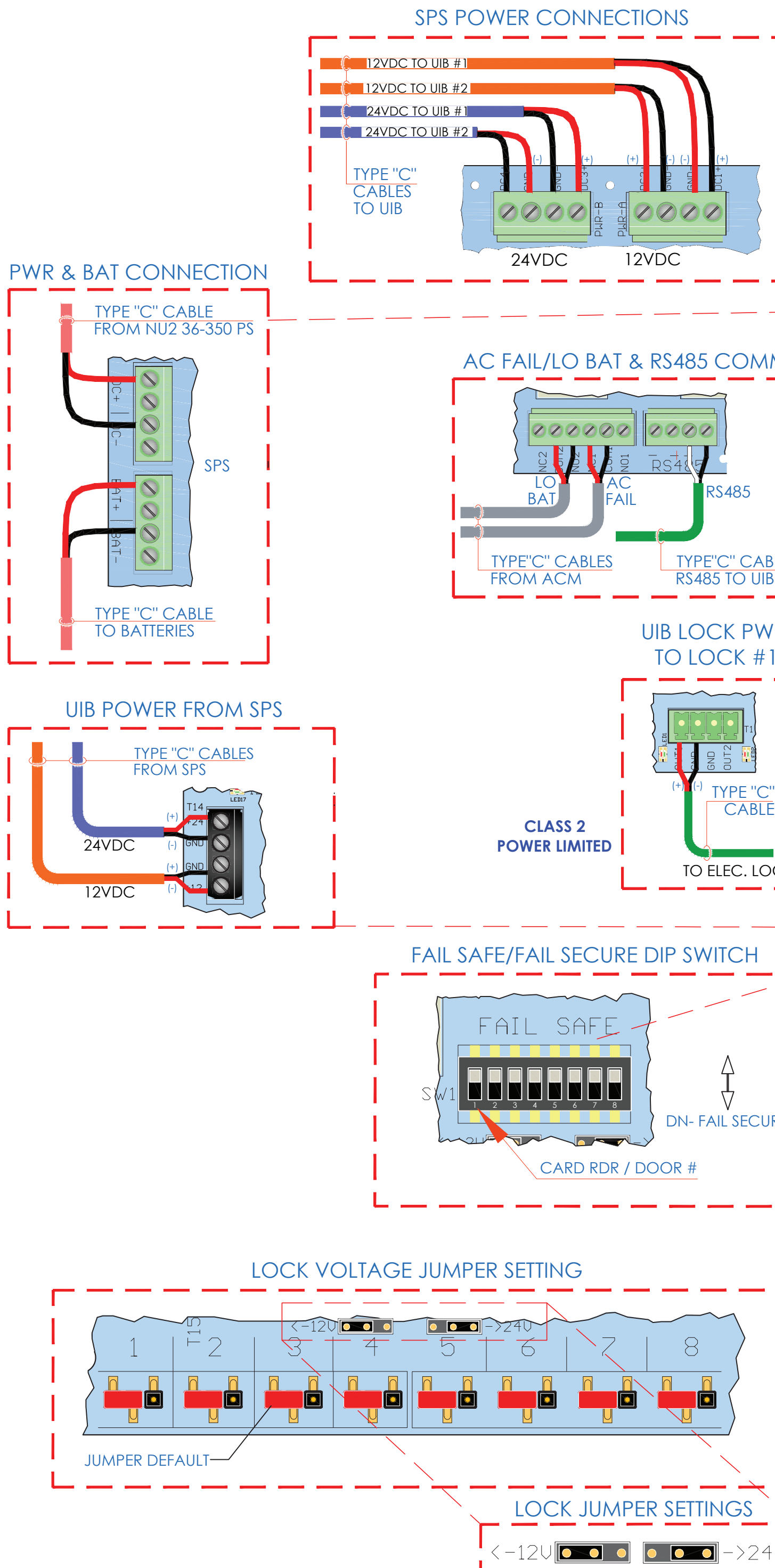
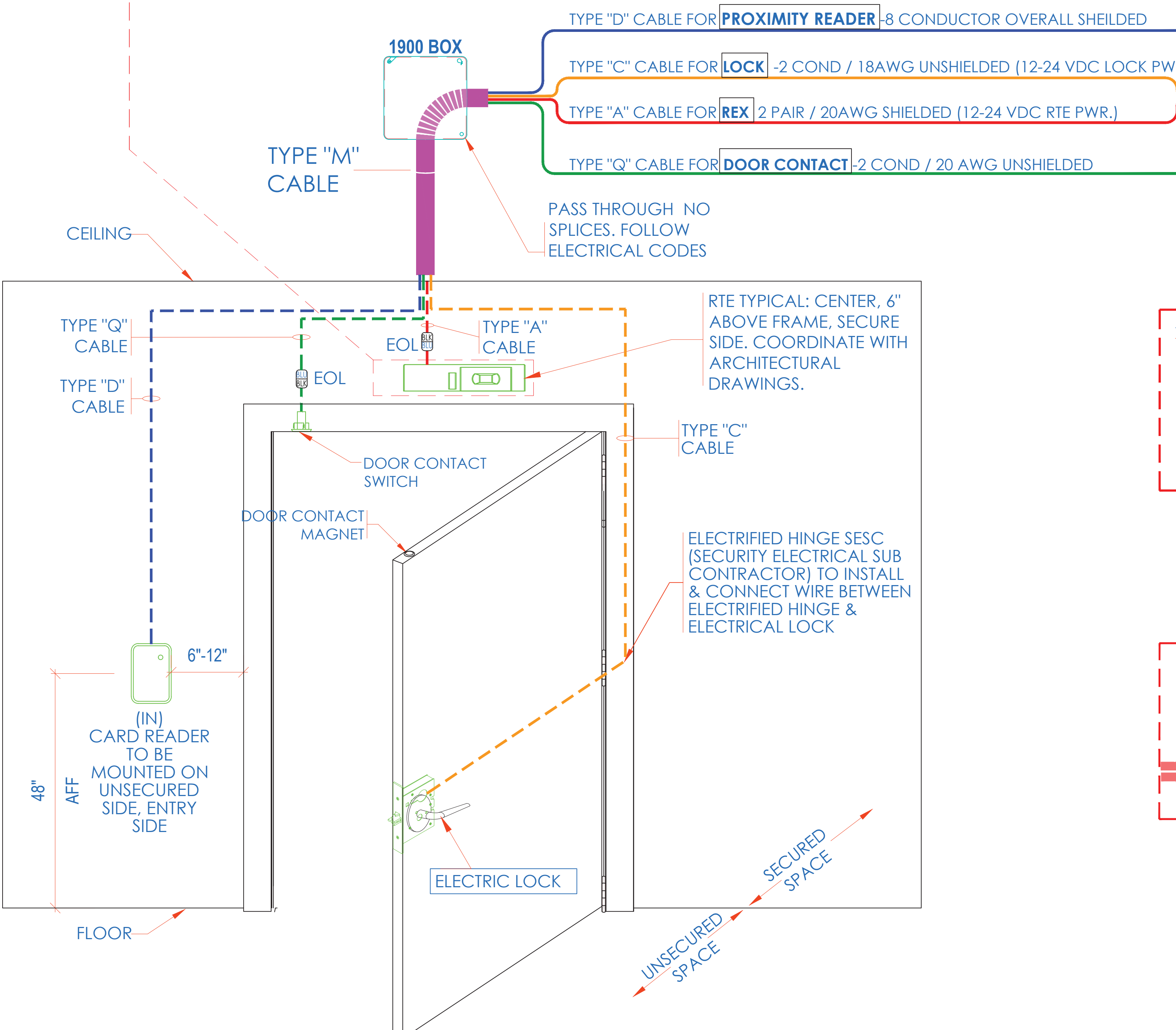
DOOR CONTACTS CONNECTIONS		
DOOR	INPUT	ACM
DOOR 1	IN 1	1
DOOR 2	IN 2	1
DOOR 3	IN 3	1
DOOR 4	IN 4	1
DOOR 5	IN 5	1
DOOR 6	IN 6	1
DOOR 7	IN 7	1
DOOR 8	IN 8	1
DOOR 9	IN 1	2
DOOR 10	IN 2	2
DOOR 11	IN 3	2
DOOR 12	IN 4	2
DOOR 13	IN 5	2
DOOR 14	IN 6	2
DOOR 15	IN 7	2
DOOR 16	IN 8	2

MOTION DETECTOR CONNECTIONS		
DOOR	INPUT	ACM
DOOR 1	IN 9	1
DOOR 2	IN 10	1
DOOR 3	IN 11	1
DOOR 4	IN 12	1
DOOR 5	IN 13	1
DOOR 6	IN 14	1
DOOR 7	IN 15	1
DOOR 8	IN 16	1
DOOR 9	IN 9	2
DOOR 10	IN 10	2
DOOR 11	IN 11	2
DOOR 12	IN 12	2
DOOR 13	IN 13	2
DOOR 14	IN 14	2
DOOR 15	IN 15	2
DOOR 16	IN 16	2

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



# MOTION REX



1. DEVICE PLACEMENT, RISER DEPTH, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND VERIFYING THE ENTIRE DRAWING AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COTF BOE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND MUST ASK TO BE ADDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET OF DRAWINGS INCLUDING COPY (2) SETS AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITGS ROLE IS LIMITED TO

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

ISSUED FOR:	
DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID



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PROJECT:  
RIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

TIME:

ULTRA SE TYPICAL WIRING  
DIAGRAM FOR 16 CR DOORS  
w/ MOTION PEX

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	
XXXXXX	SCALE: N.T.S.	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-702-A	



## ULTRA SE TYPICAL WIRING DIAGRAM - REX LOCK

## READER CONNECTIONS

DOOR	iSTAR	
DOOR 1	RDR 1	ACM 1
DOOR 2	RDR 2	
DOOR 3	RDR 3	
DOOR 4	RDR 4	
DOOR 5	RDR 5	ACM 1
DOOR 6	RDR 6	
DOOR 7	RDR 7	
DOOR 8	RDR 8	
DOOR 9	RDR 1	ACM 2
DOOR 10	RDR 2	
DOOR 11	RDR 3	
DOOR 12	RDR 4	
DOOR 13	RDR 5	ACM 2
DOOR 14	RDR 6	
DOOR 15	RDR 7	
DOOR 16	RDR 8	

## DOOR CONTACTS CONNECTIONS

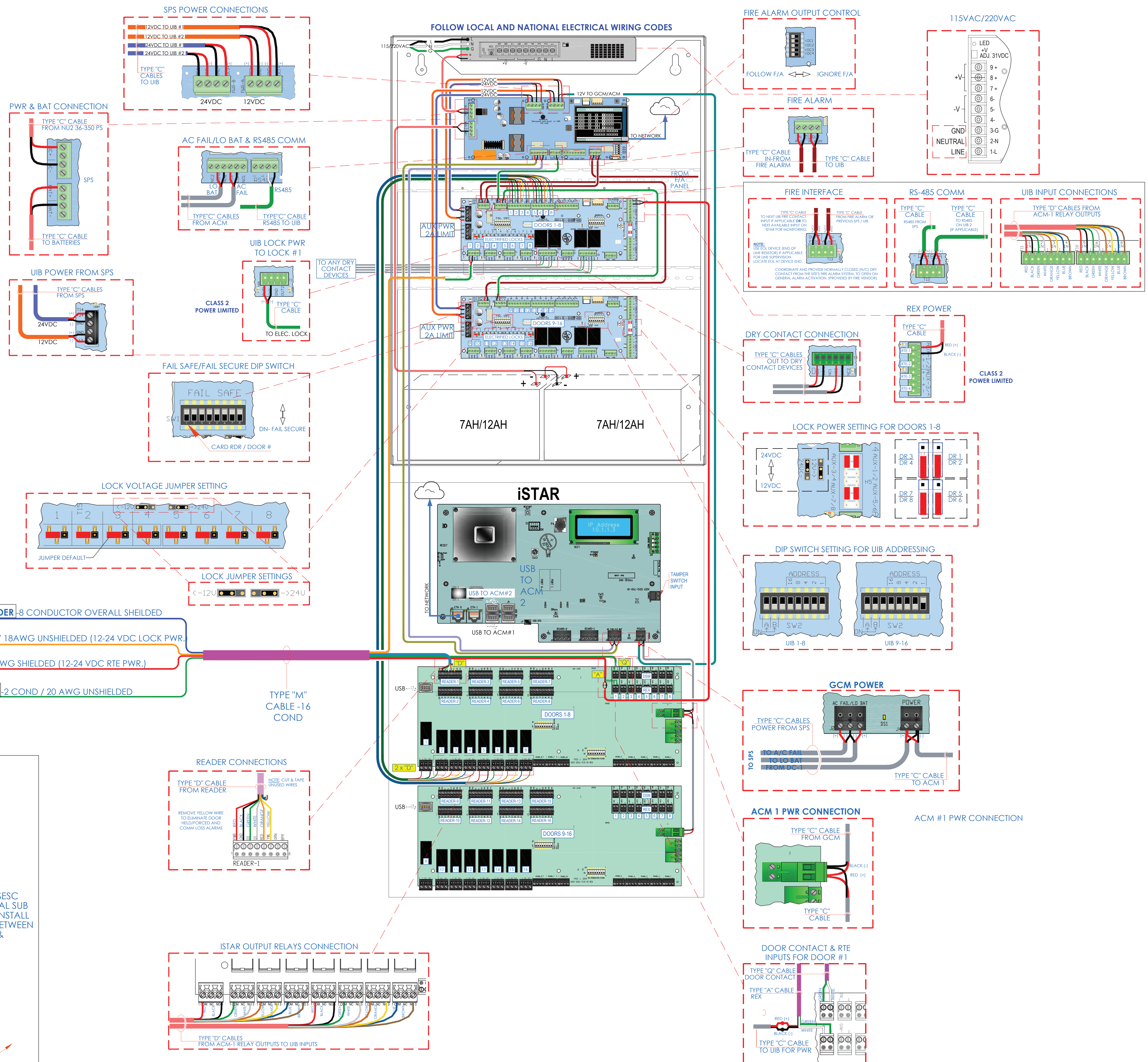
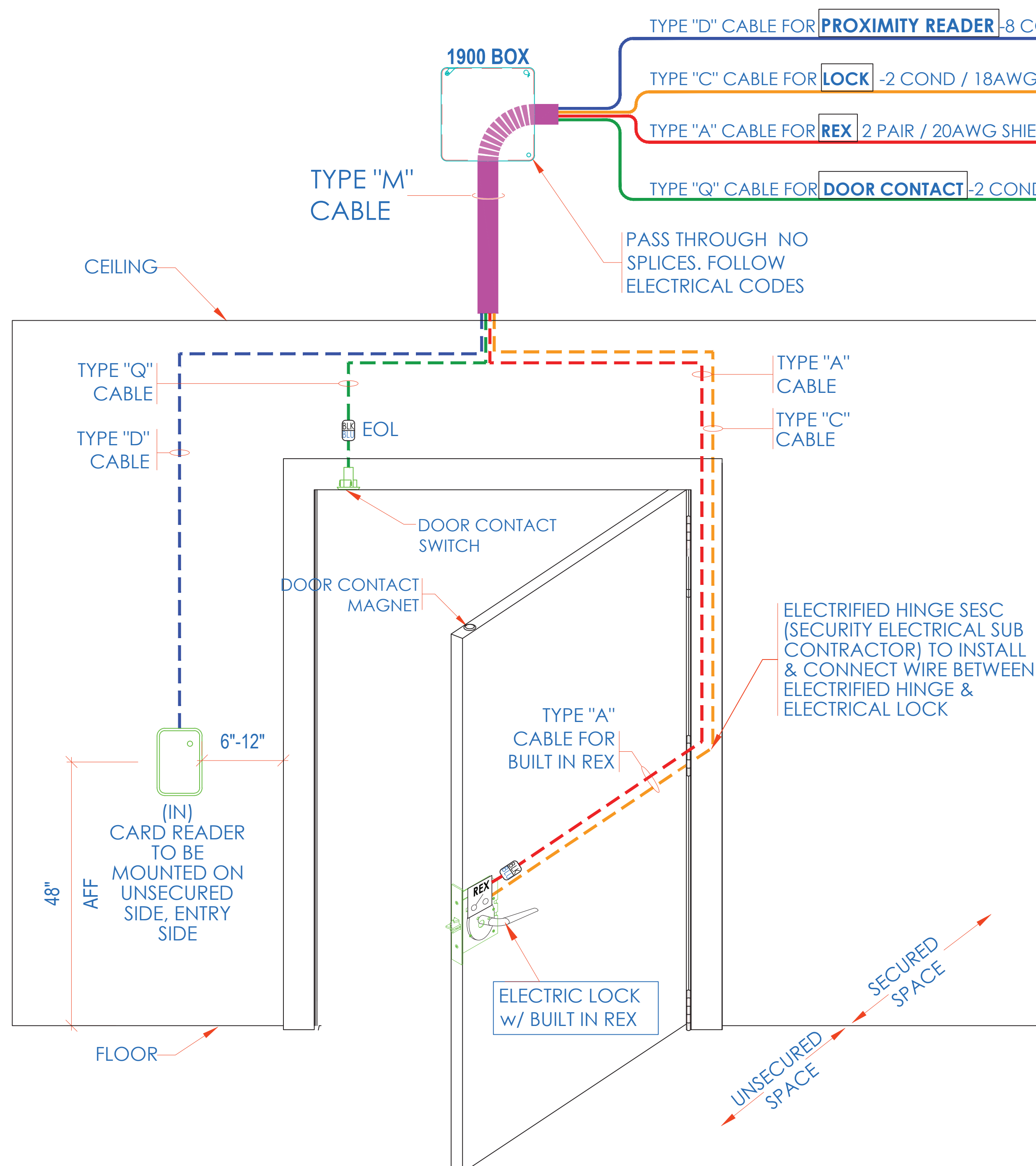
DOOR	INPUT	ACM
DOOR 1	IN 1	1
DOOR 2	IN 2	1
DOOR 3	IN 3	1
DOOR 4	IN 4	1
DOOR 5	IN 5	1
DOOR 6	IN 6	1
DOOR 7	IN 7	1
DOOR 8	IN 8	1
DOOR 9	IN 1	2
DOOR 10	IN 2	2
DOOR 11	IN 3	2
DOOR 12	IN 4	2
DOOR 13	IN 5	2
DOOR 14	IN 6	2
DOOR 15	IN 7	2
DOOR 16	IN 8	2

## MOTION DETECTOR CONNECTIONS

DOOR	INPUT	ACM
DOOR 1	IN 9	1
DOOR 2	IN 10	1
DOOR 3	IN 11	1
DOOR 4	IN 12	1
DOOR 5	IN 13	1
DOOR 6	IN 14	1
DOOR 7	IN 15	1
DOOR 8	IN 16	1
DOOR 9	IN 9	2
DOOR 10	IN 10	2
DOOR 11	IN 11	2
DOOR 12	IN 12	2
DOOR 13	IN 13	2
DOOR 14	IN 14	2
DOOR 15	IN 15	2
DOOR 16	IN 16	2

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

## REX IN LOCK



(NOTE:

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- FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

TYPE: DEVICE PLACEMENT, RISER DESTRUCTION, CABLE TYPED AND RATED, RISE DESTRUCTION, INFORMATION AND OTHERS ARE FOR REFERENCE ONLY.

1. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE CRITICAL PATH AND THE RISES TO VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COPY BOE.

CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND MAKE IT A PRIORITY TO OBTAIN SATISFACTION OF BOE SECURITY MANAGER.

2. PRIOR TO PULLING CAT-6 A WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSEST.

ALL CAT-6 A CABLES TO BE TESTED AND CERTIFIED AS PER STANDARD.

CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"

3. CONTRACTOR TO PROTECT AND DELIVER A BOUND "AS BUILT" SET IN WITH "POE HARDWARE" COPY (2) SETS) AND A CD WITH "POE HARDWARE" INFORMATION.

CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, IT'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	
DATE	COMMENTS
2018	ISSUED FOR REVIEW / APPROVAL
2019	ISSUED FULL SET FOR APPROVAL
2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
2019	REVISED
2019	ISSUED FOR BID
2019	REVISED-ISSUED FOR BID
2020	REVISED-ISSUED FOR BID



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155 Lafayette Ave  
White Plains, NY 10603

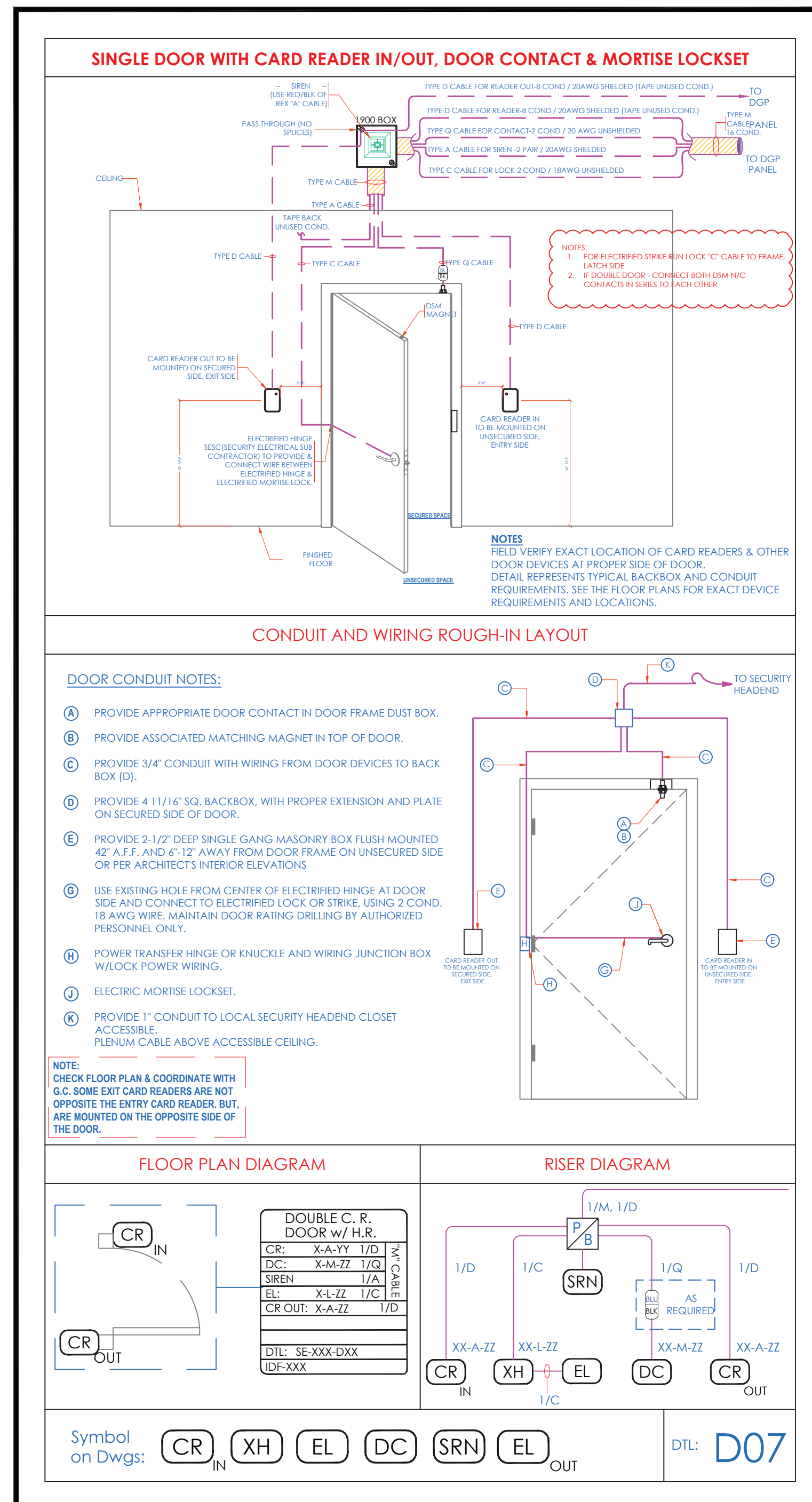
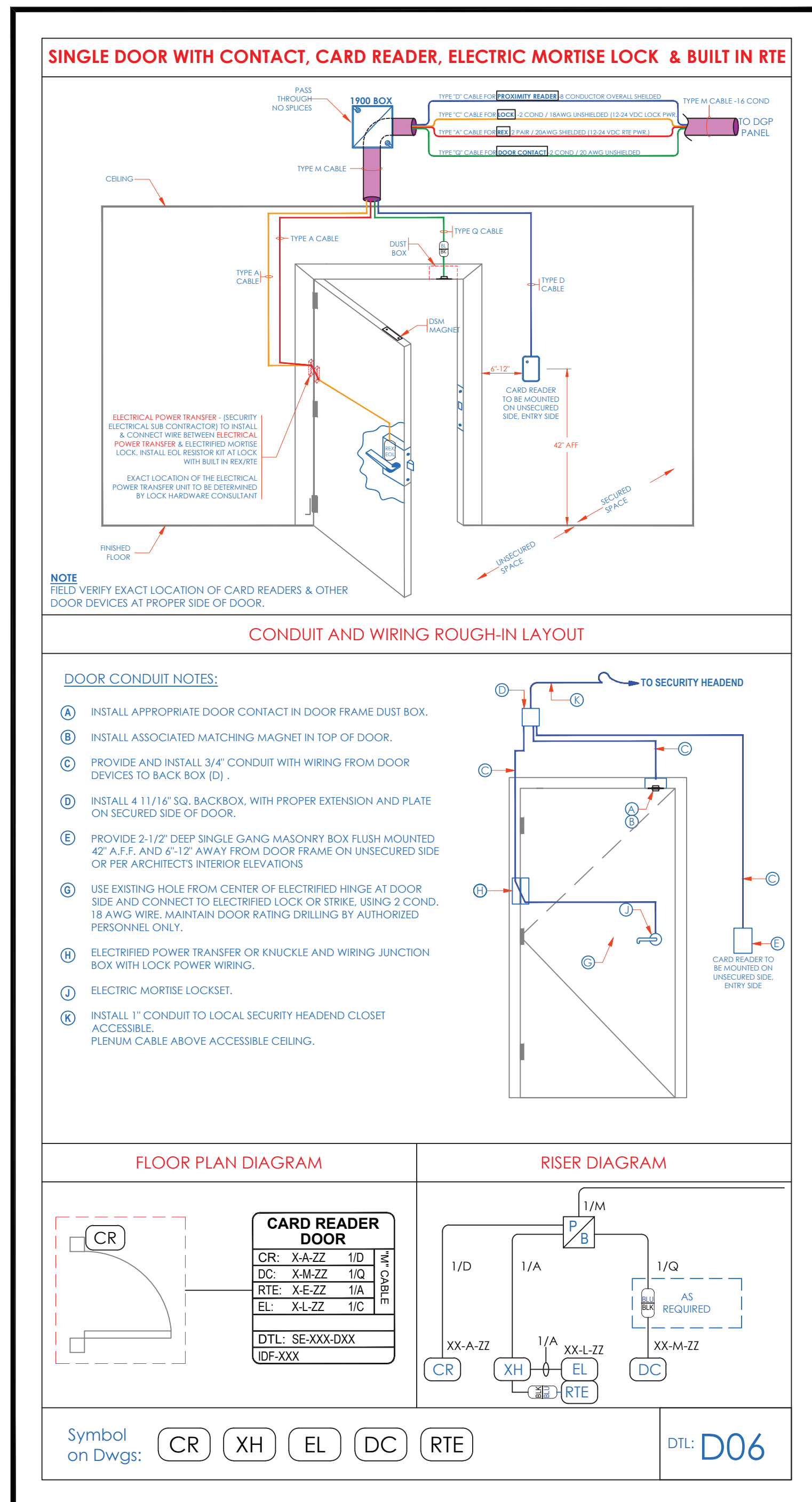
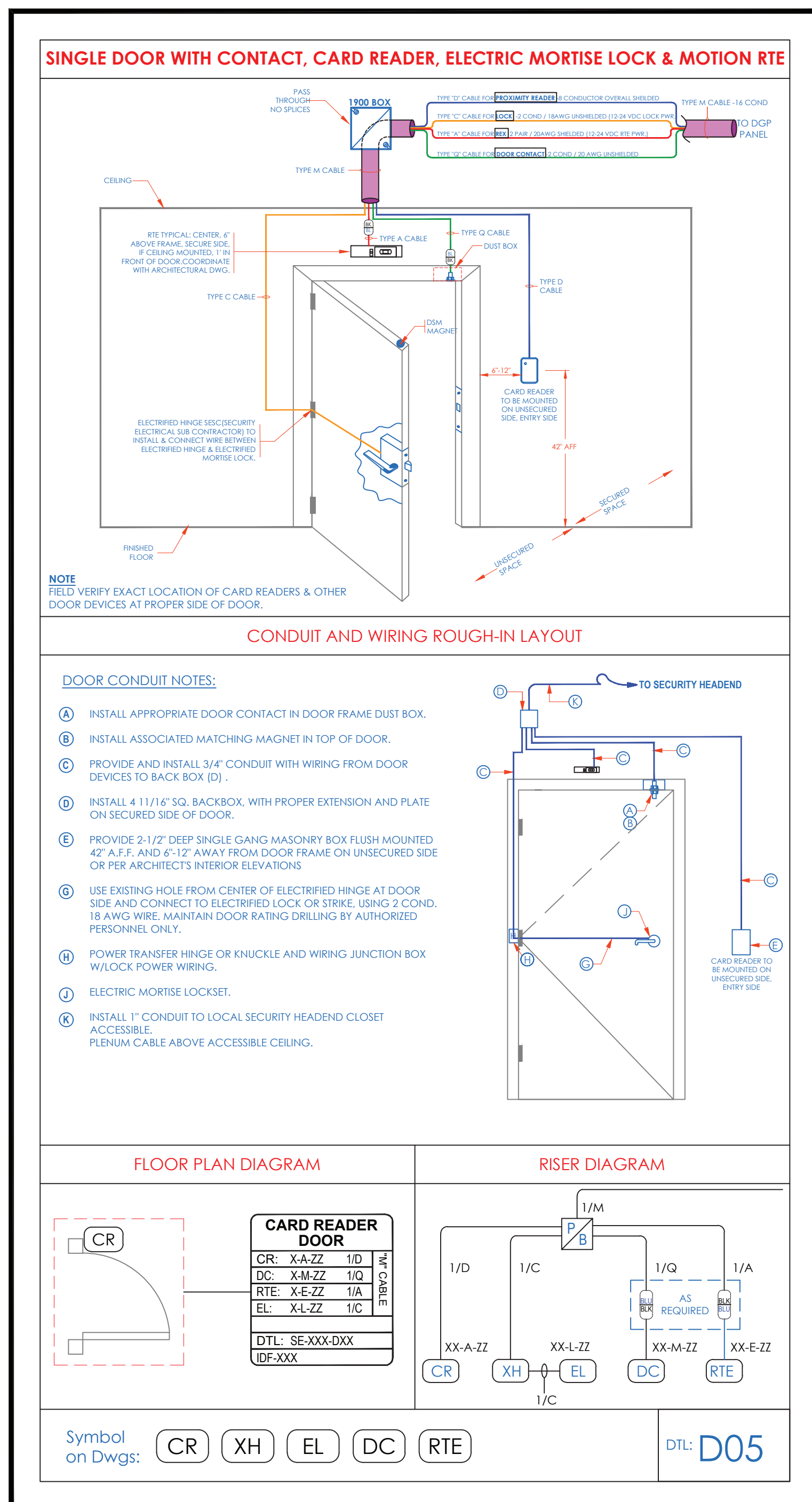
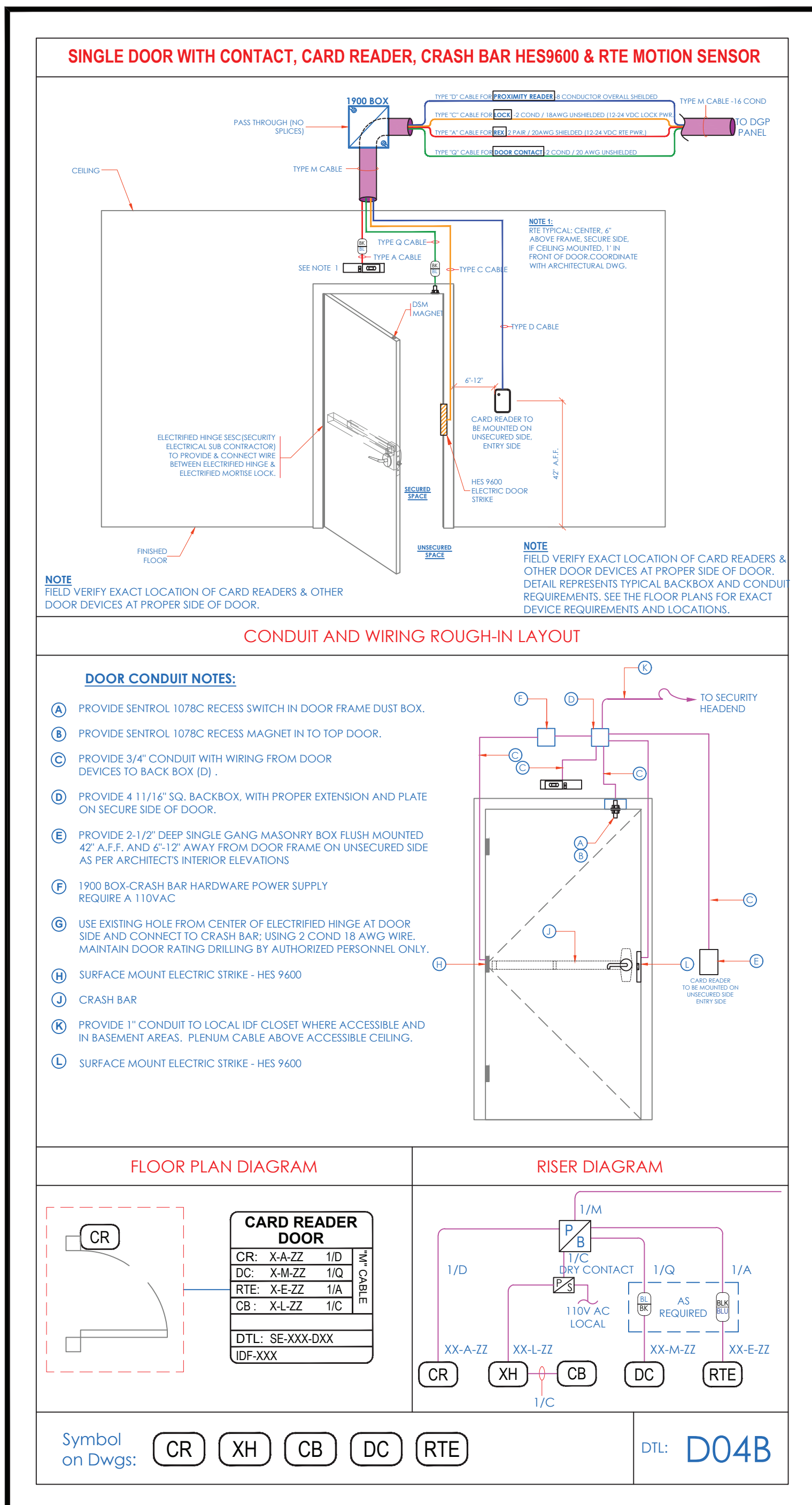
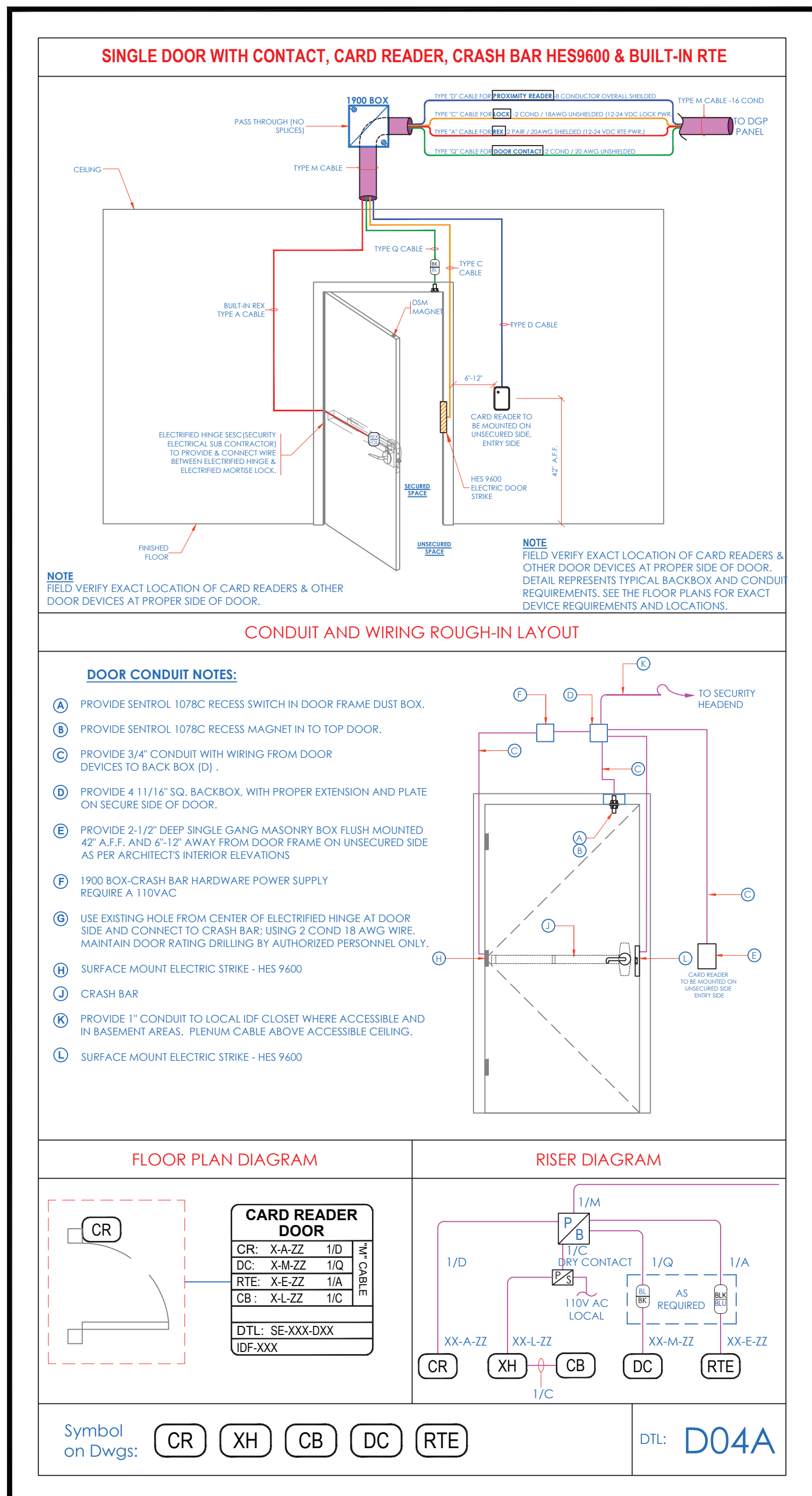
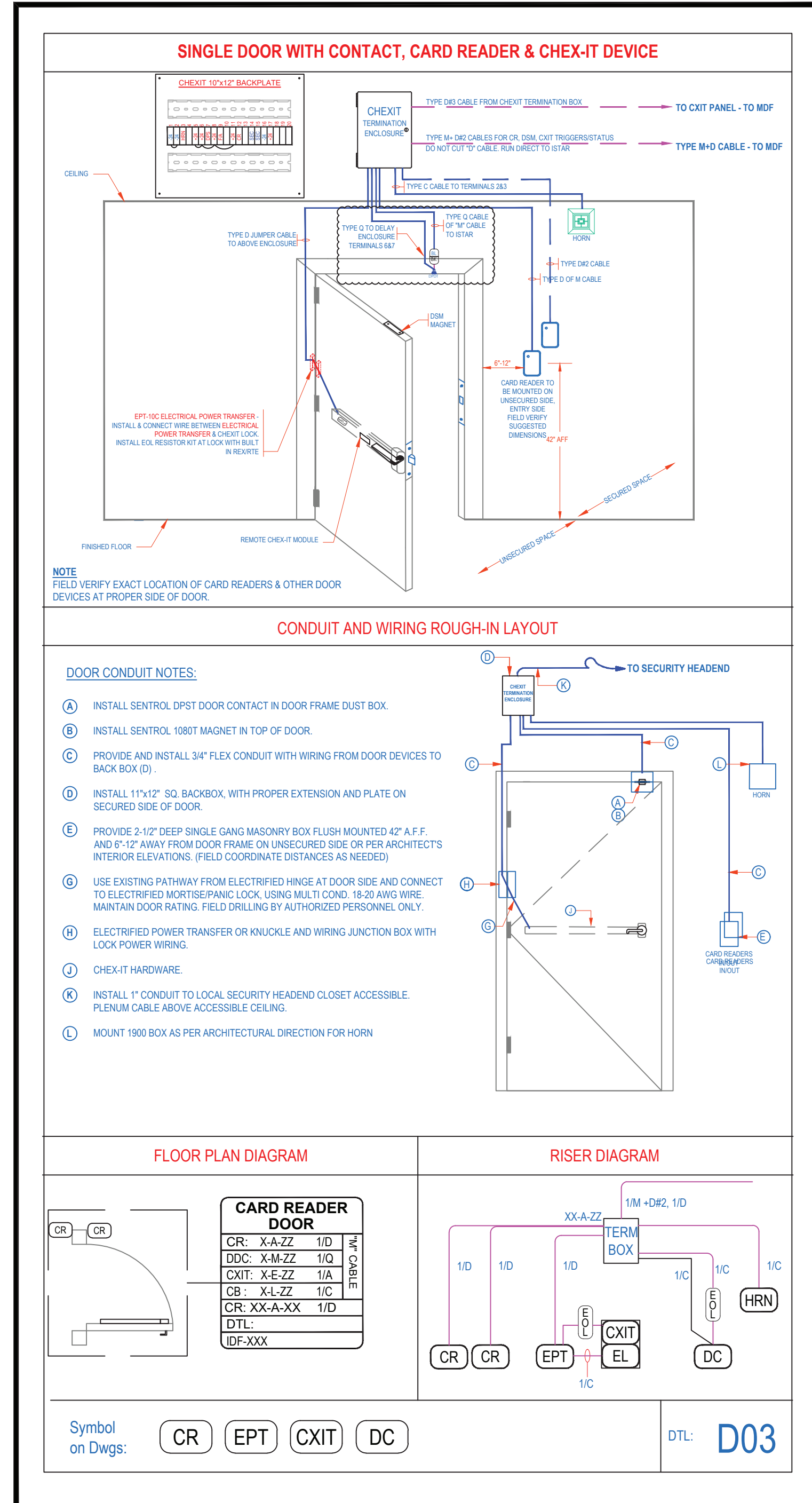
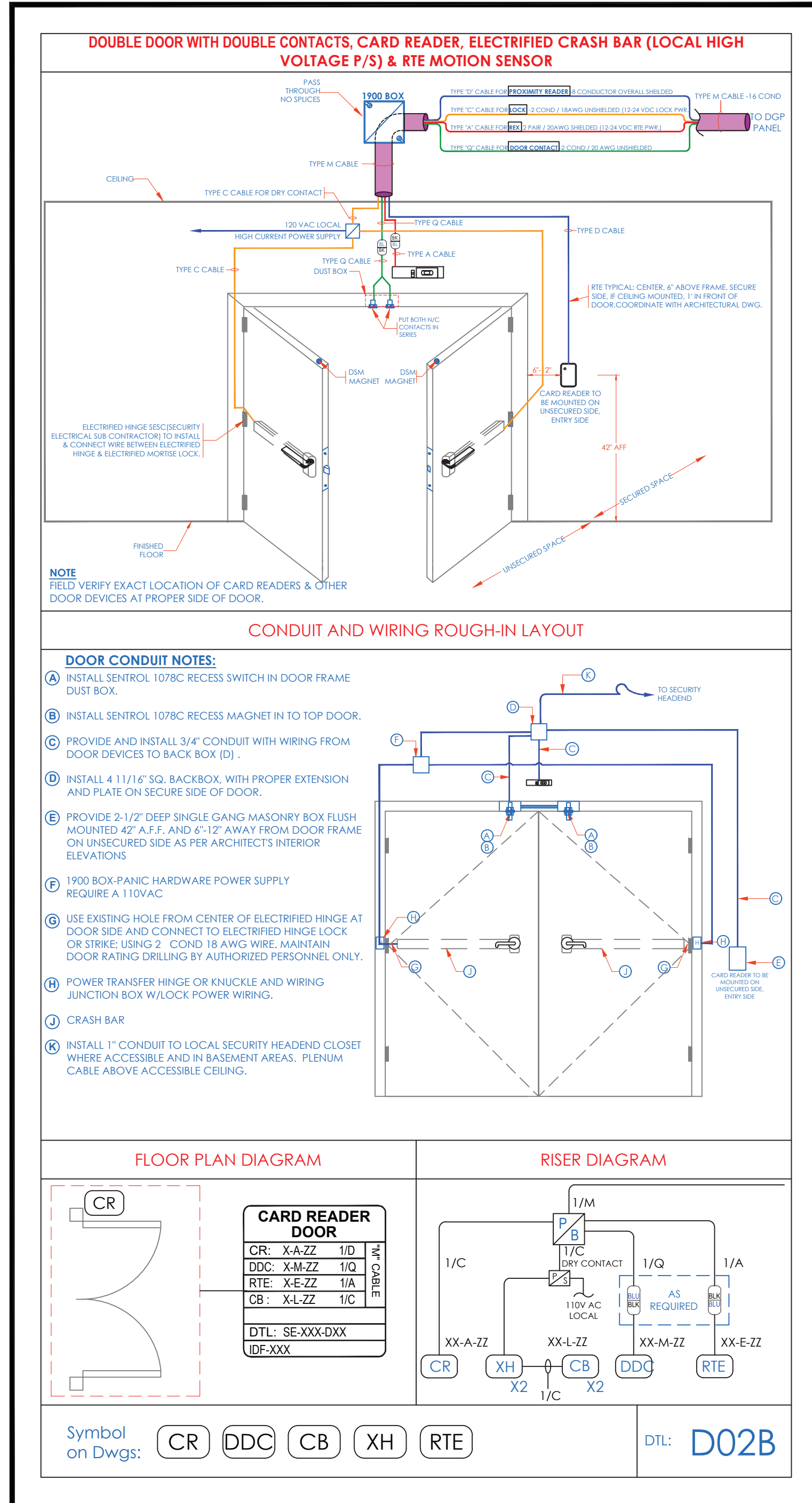
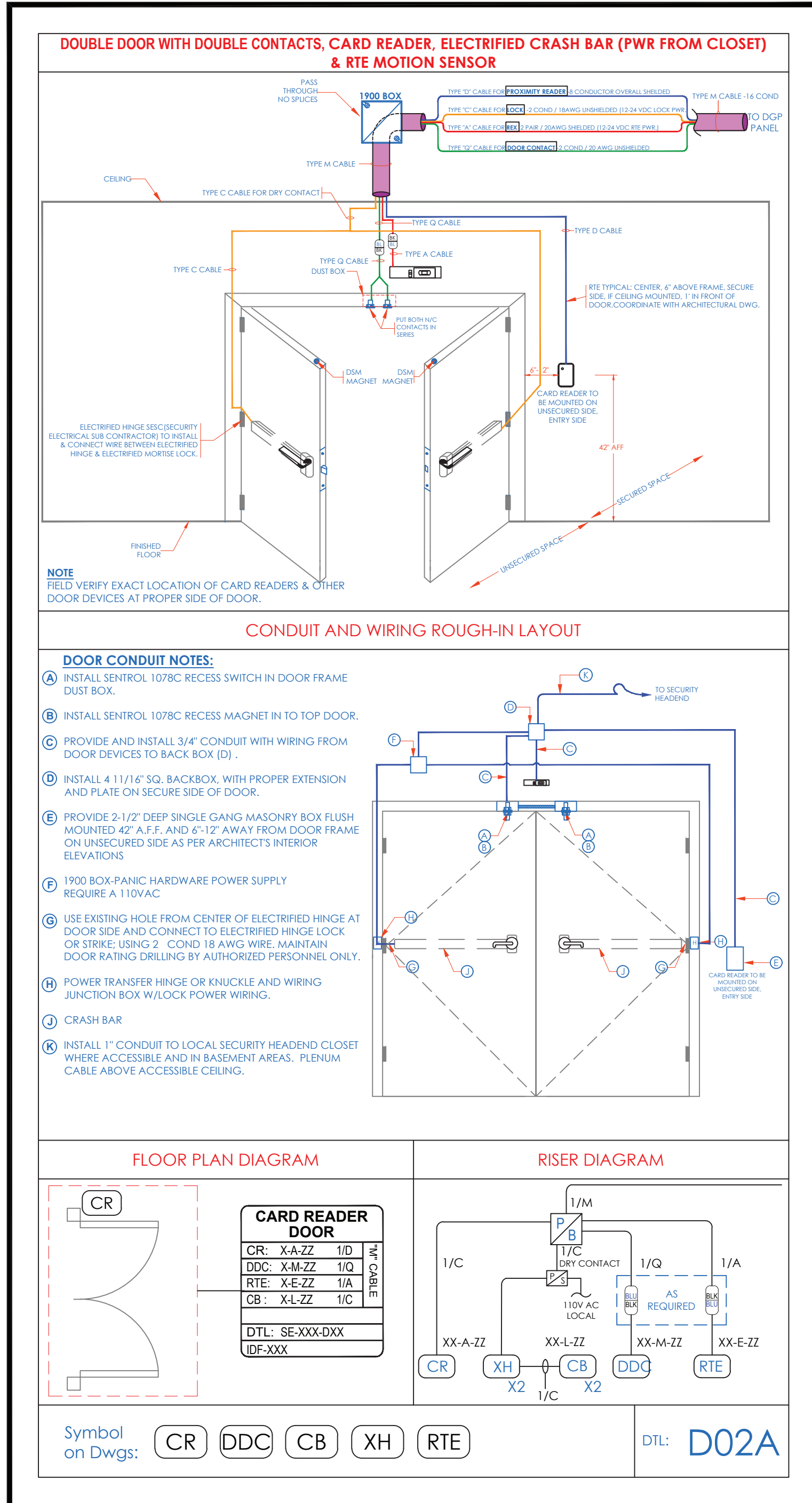
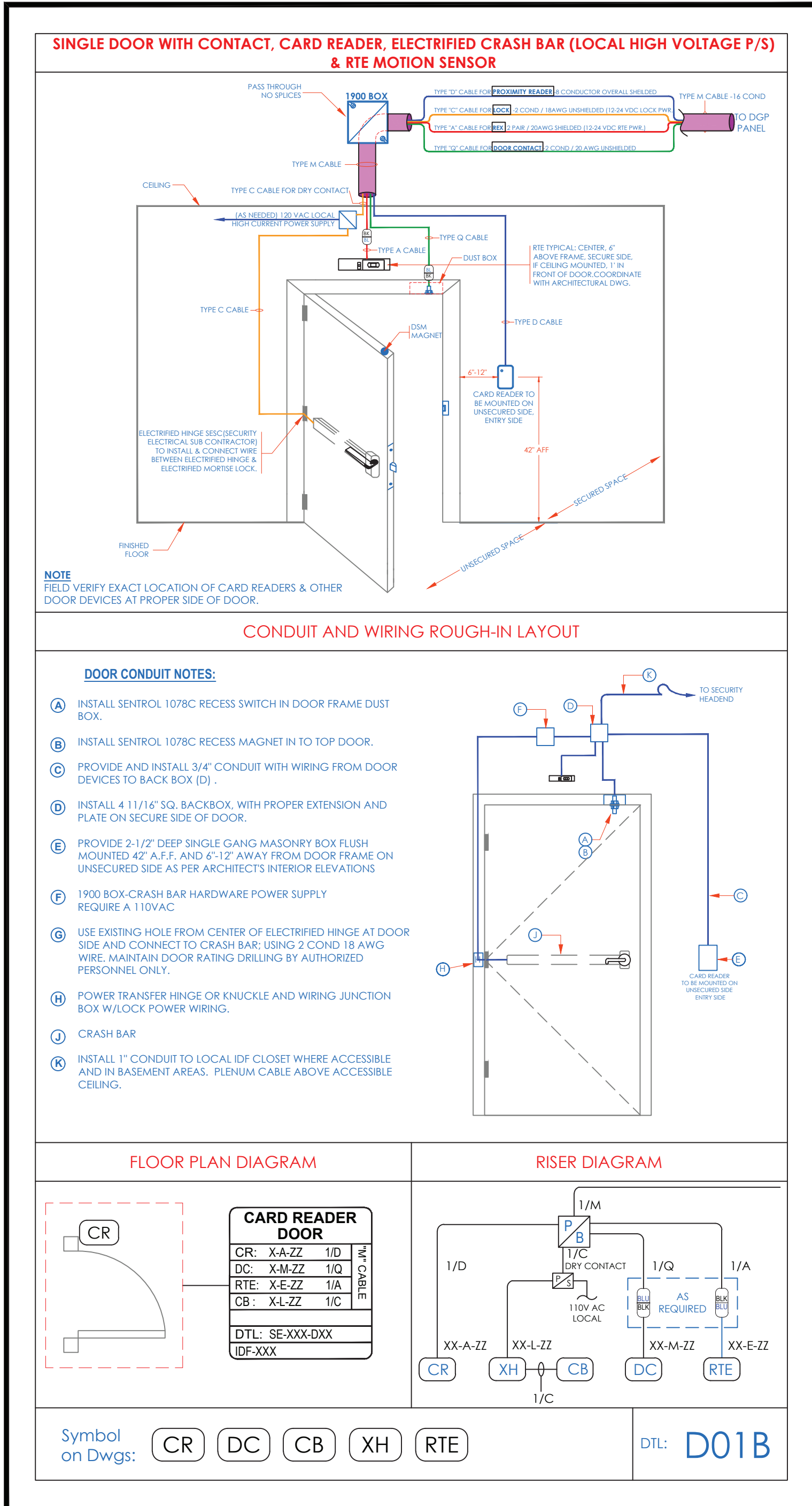
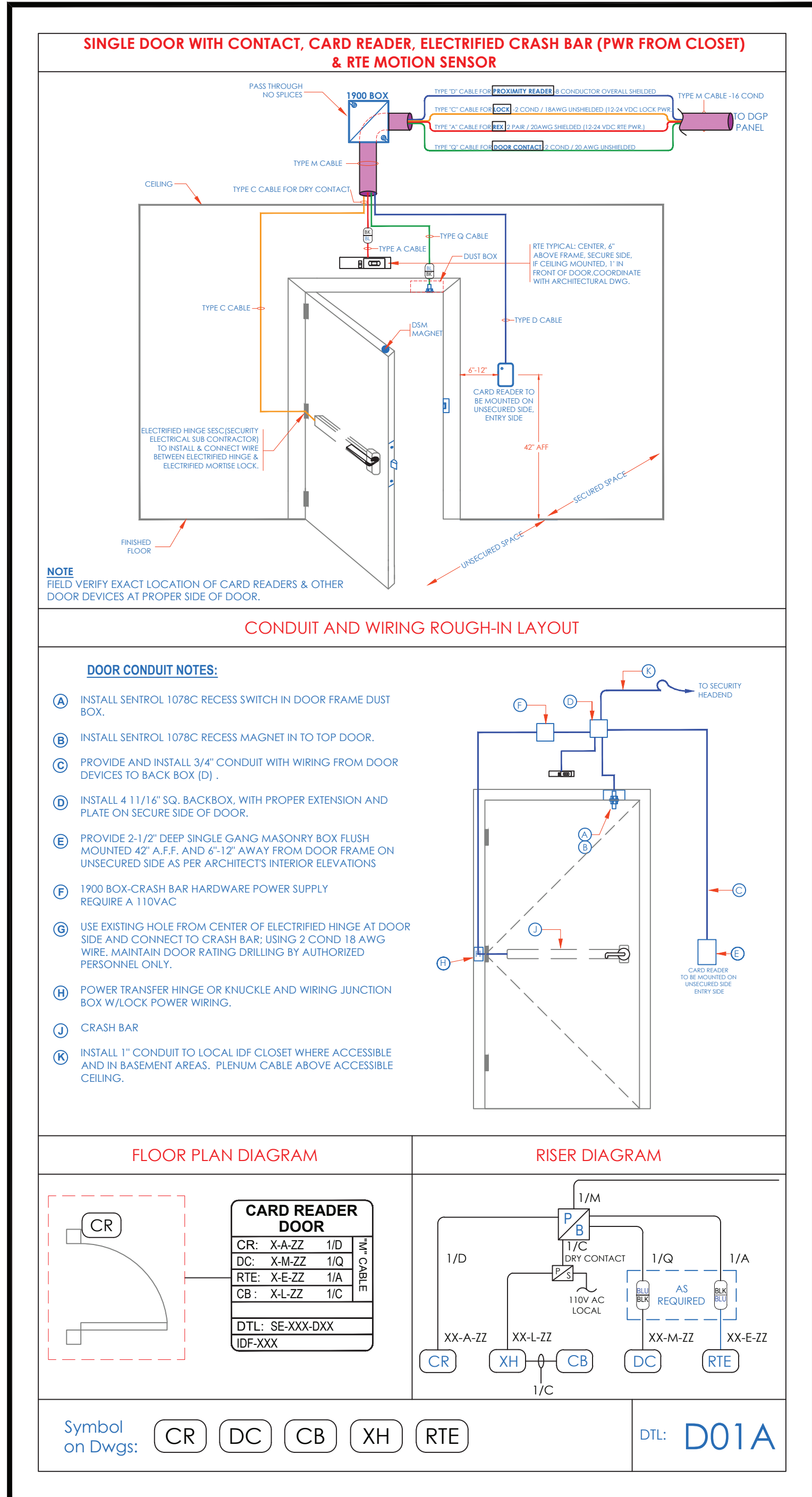
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UNIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

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

<b>I.T.</b>	<b>C.A.</b>	<b>E.M.</b>
DESIGNED BY	DRAWN BY	CHECKED BY
K ORDER NO:	DATE: 11/27/2019	
XXXX	SCALE:	
	N.T.S.	
NO:	DRAWING NO:	
XXXX	SE-702-B	





- NOTES:
- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY
  - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CVI BIDE.
  - CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BIDE SECURITY MANAGER
  - PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  - ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
  - CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
  - CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "PDF" AND "DWG" FORMAT, COPY (2) BIDS AND A CD WITH "PDF" FORMAT.
  - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, IT'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE: 1/10/2018

COMMENTS: ISSUED FOR REVIEW / APPROVAL

2/18/2019: ISSUED FULL SET FOR APPROVAL

2/19/2019: REVIEWED & REVISED-ISSUED FOR APPROVAL

7/15/2019: REVISED

8/26/2019: ISSUED FOR BID

10/6/2019: REVISED-ISSUED FOR BID

11/15/2020: REVISED-ISSUED FOR BID



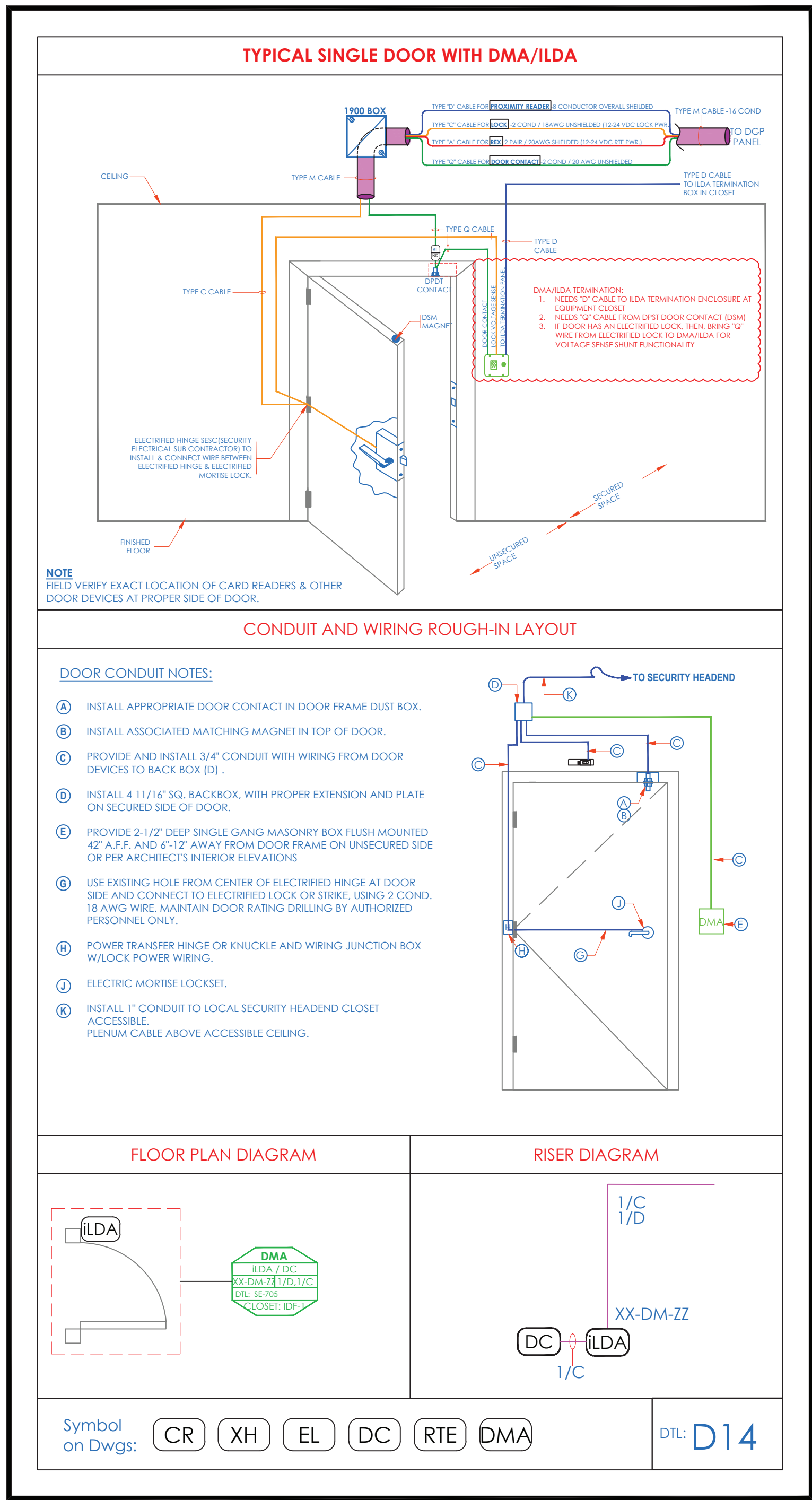
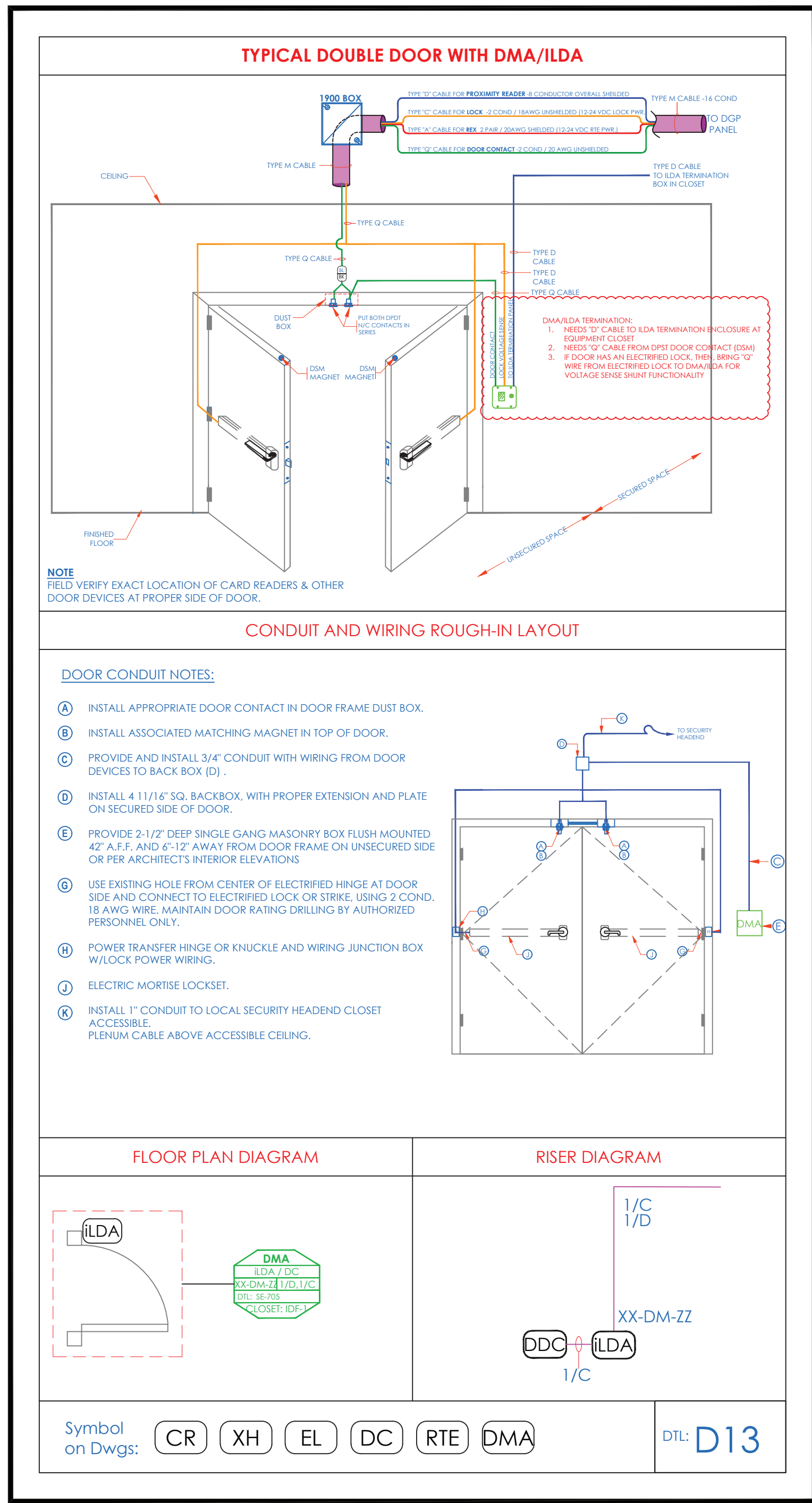
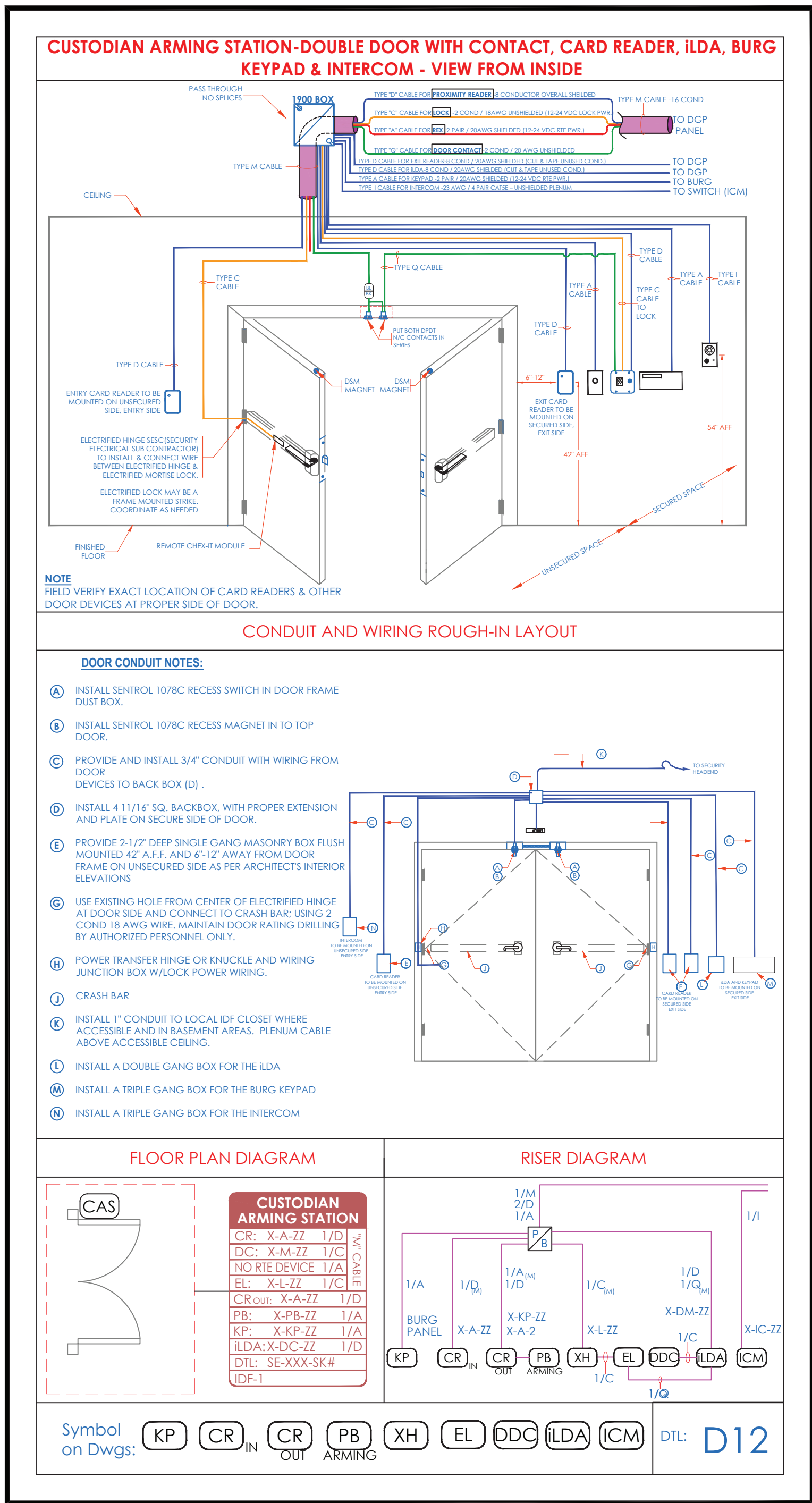
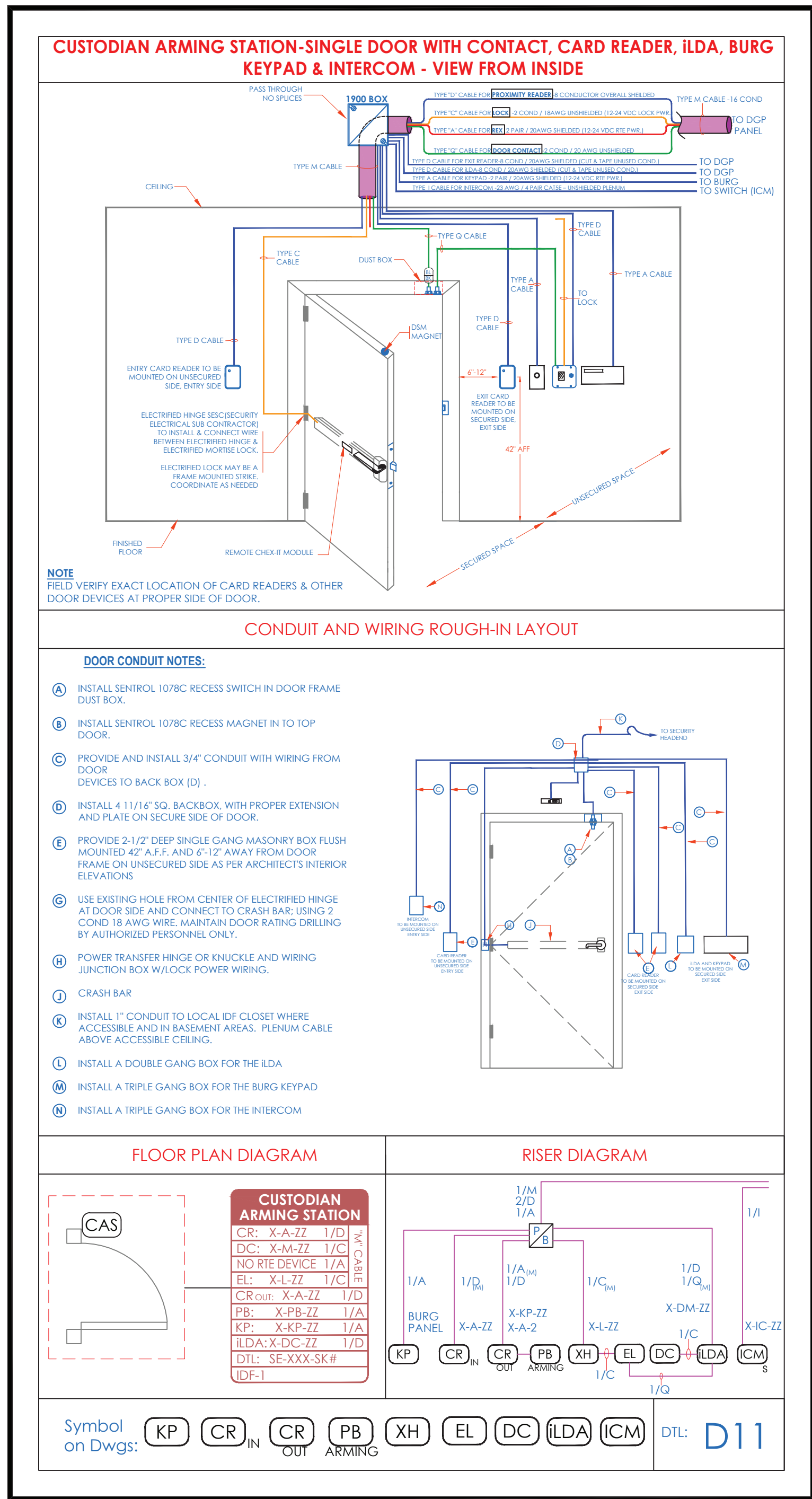
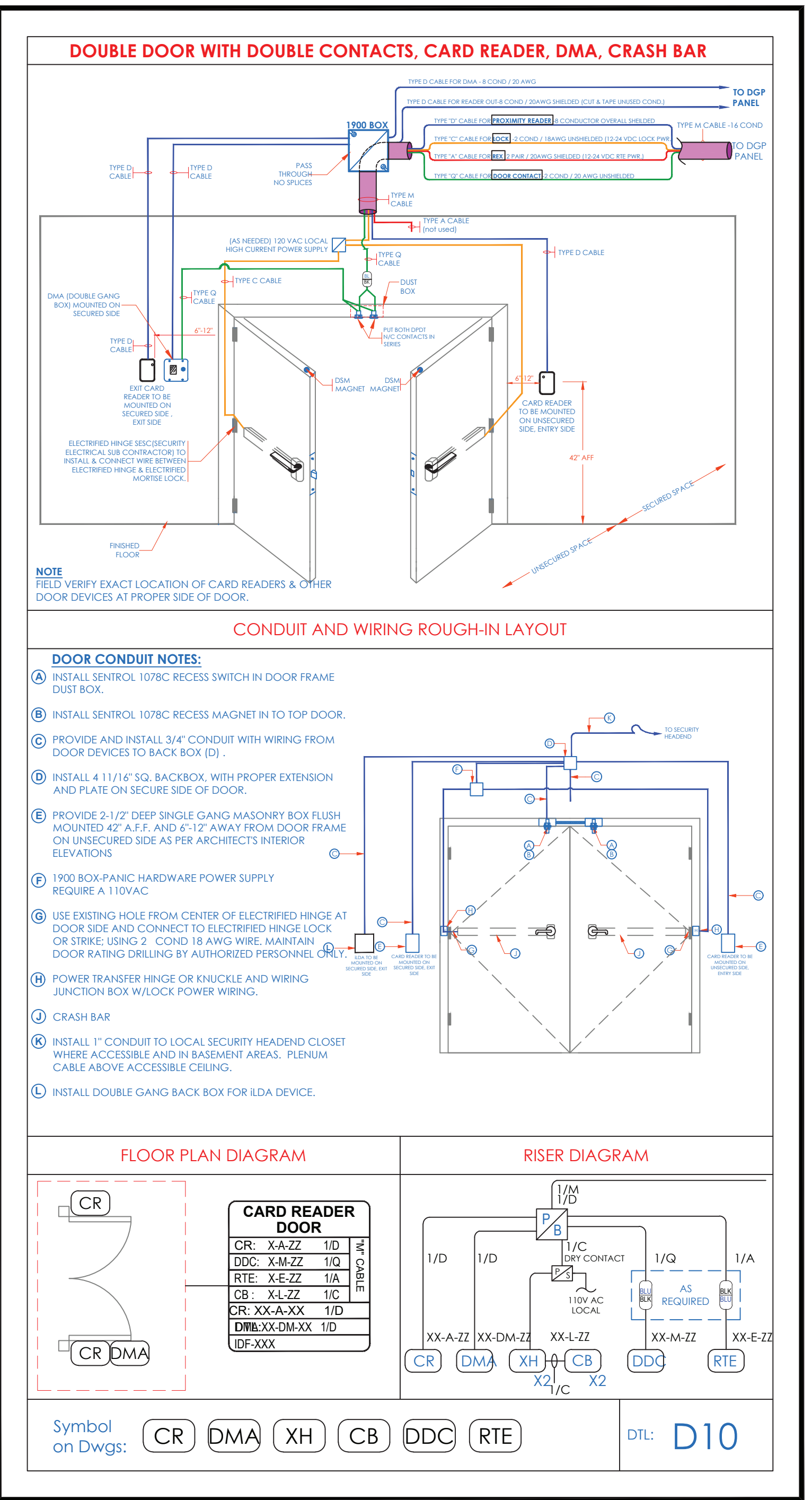
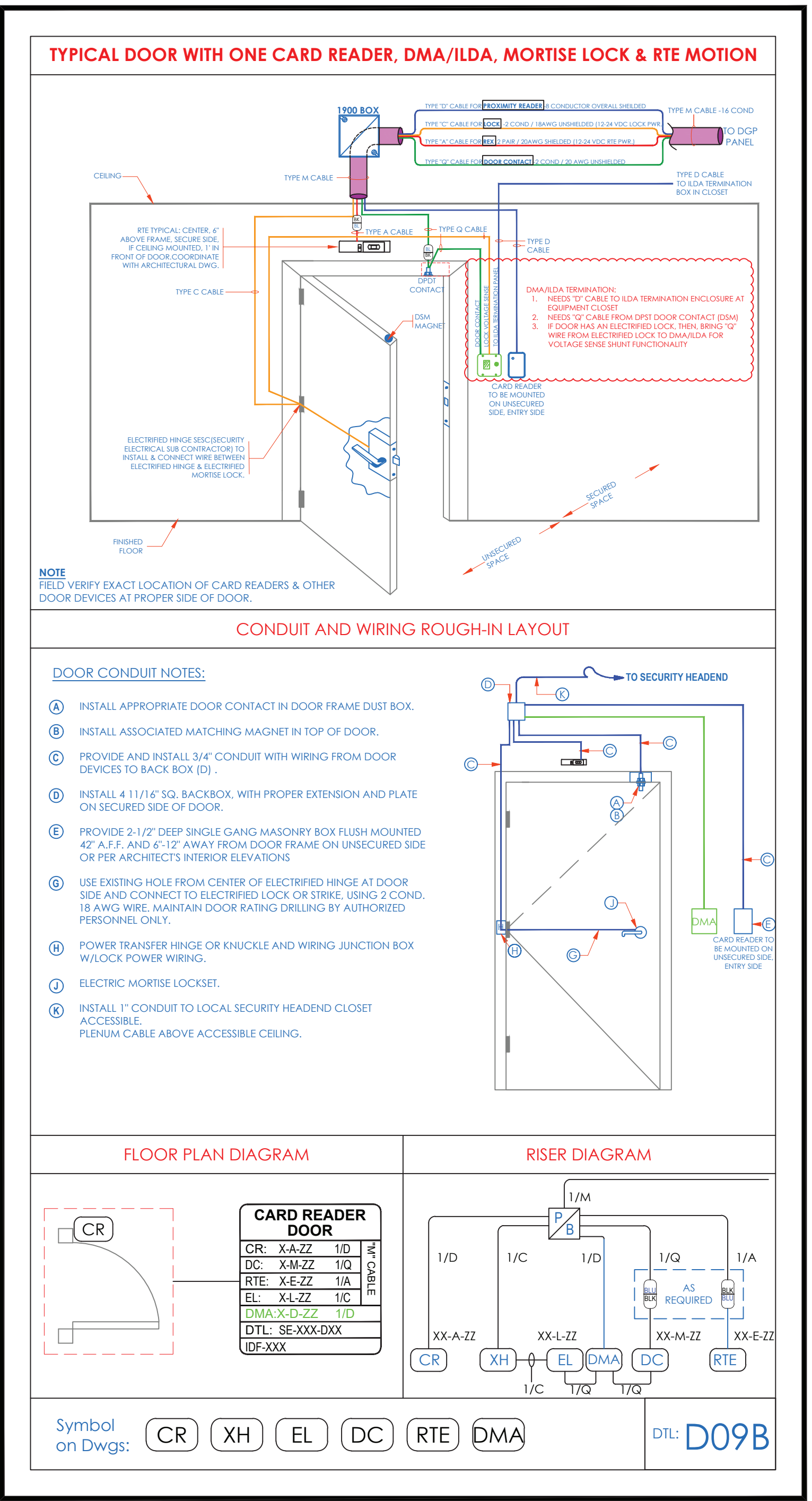
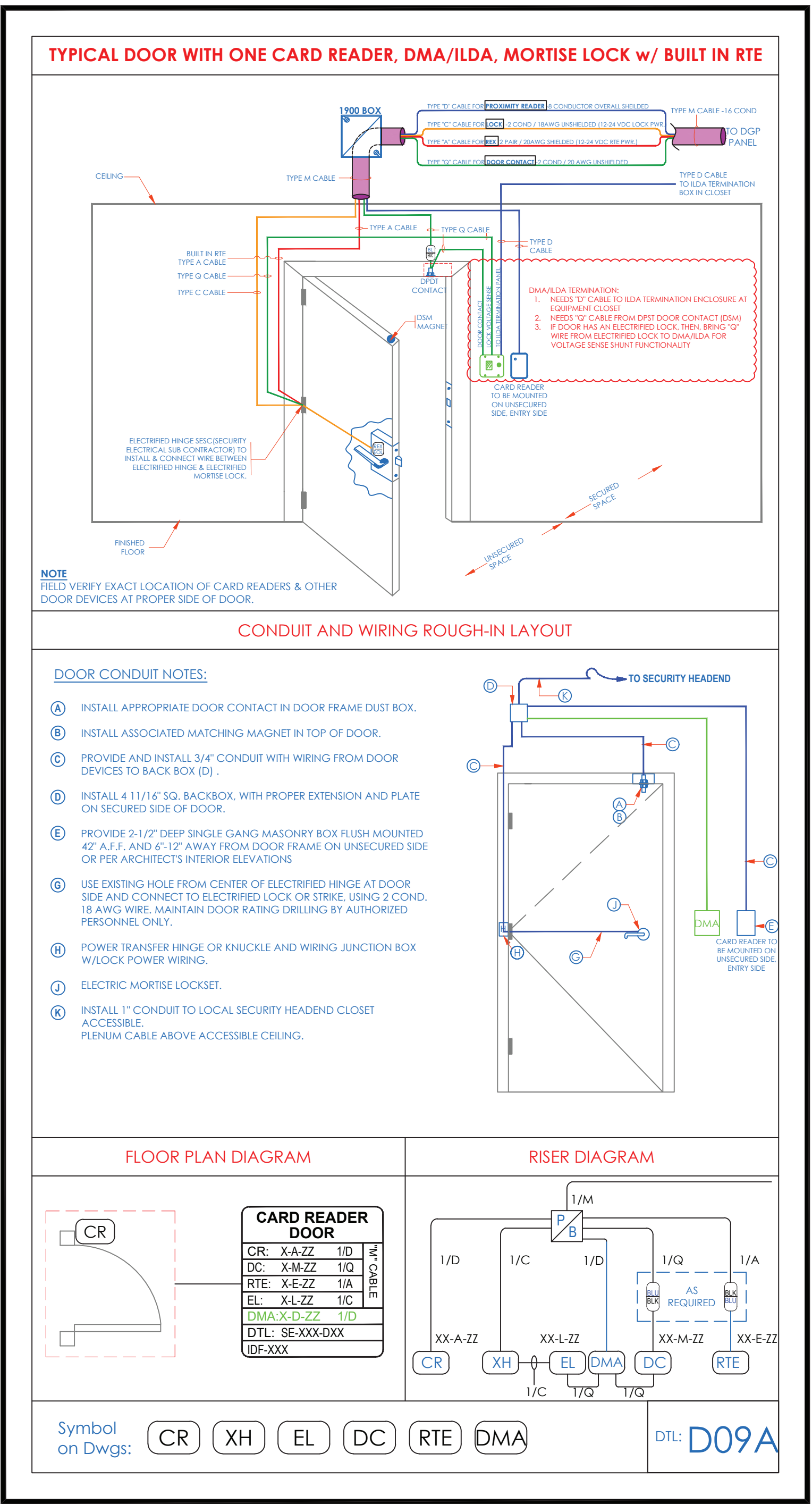
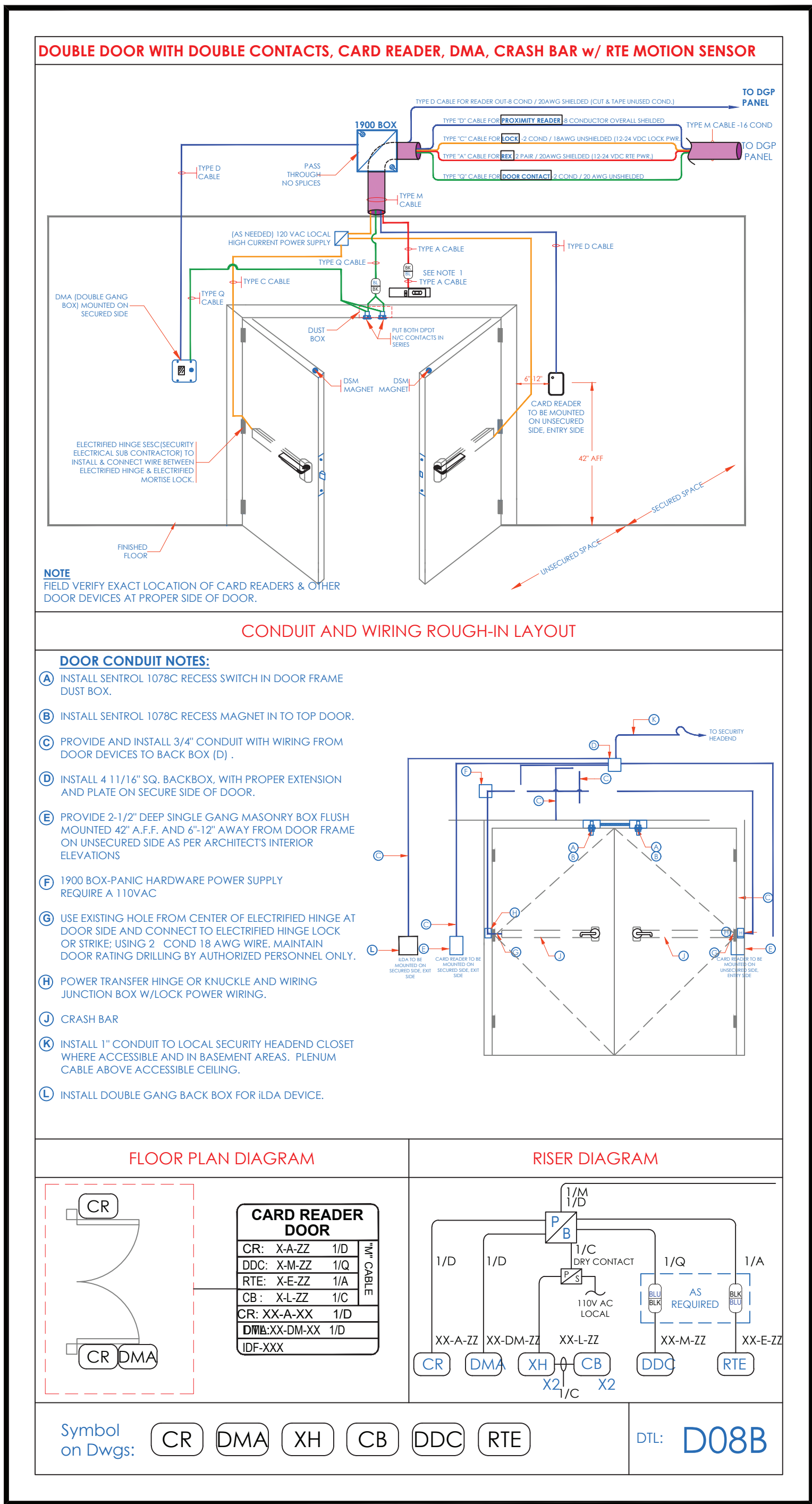
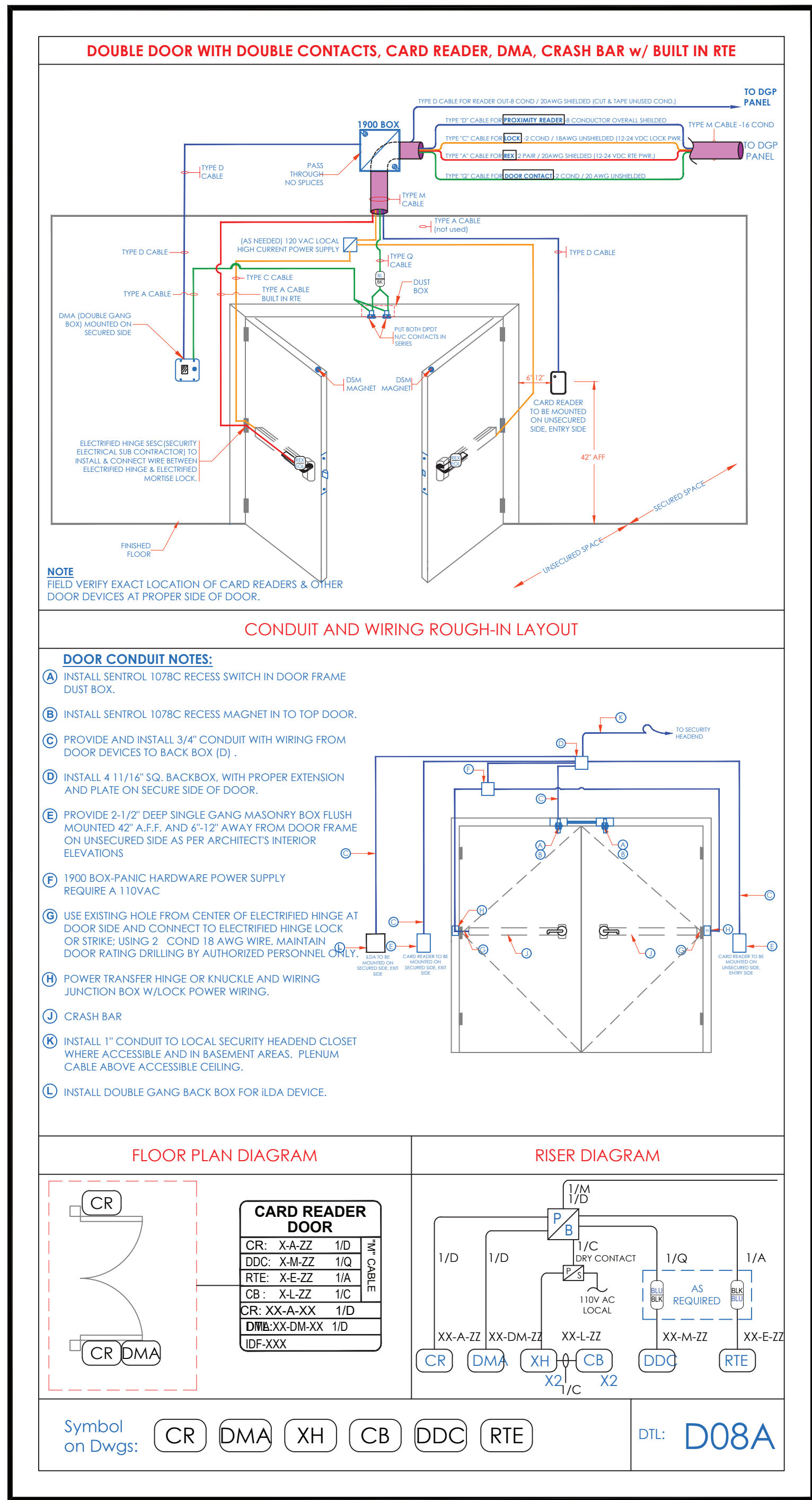
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PROJECT: RIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE: SECURITY EQUIPMENT DETAIL 1 DOOR TYPICALS

I.T. C.A. E.M.  
DESIGNED BY: 11/27/2019  
WORK ORDER NO: XXXXXX  
S.A. NO: XXXXXX  
DATE: 11/27/2019  
SCALE: N.T.S.  
DRAWING NO: SE-703





- NOTES:
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPE AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
  2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CVI BIDE.
  3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BIDE SECURITY MANAGER.
  4. PRIOR TO PULLING CAT-4 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  5. ALL CAT-4 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
  6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE AS BUILT.
  7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND AS BUILT SET IN BOTH PDF AND HARD COPY (PDF AND A CDD WITH .JOB FORMAT).
  8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL	
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7/15/2019	REVISED	
8/26/2019	ISSUED FOR BID	
10/6/2019	REVISED-ISSUED FOR BID	
11/15/2020	REVISED-ISSUED FOR BID	



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PROJECT: RIVERSIDE HIGH SCHOOL  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:

SECURITY EQUIPMENT DETAIL 1A  
DOOR TYPICALS

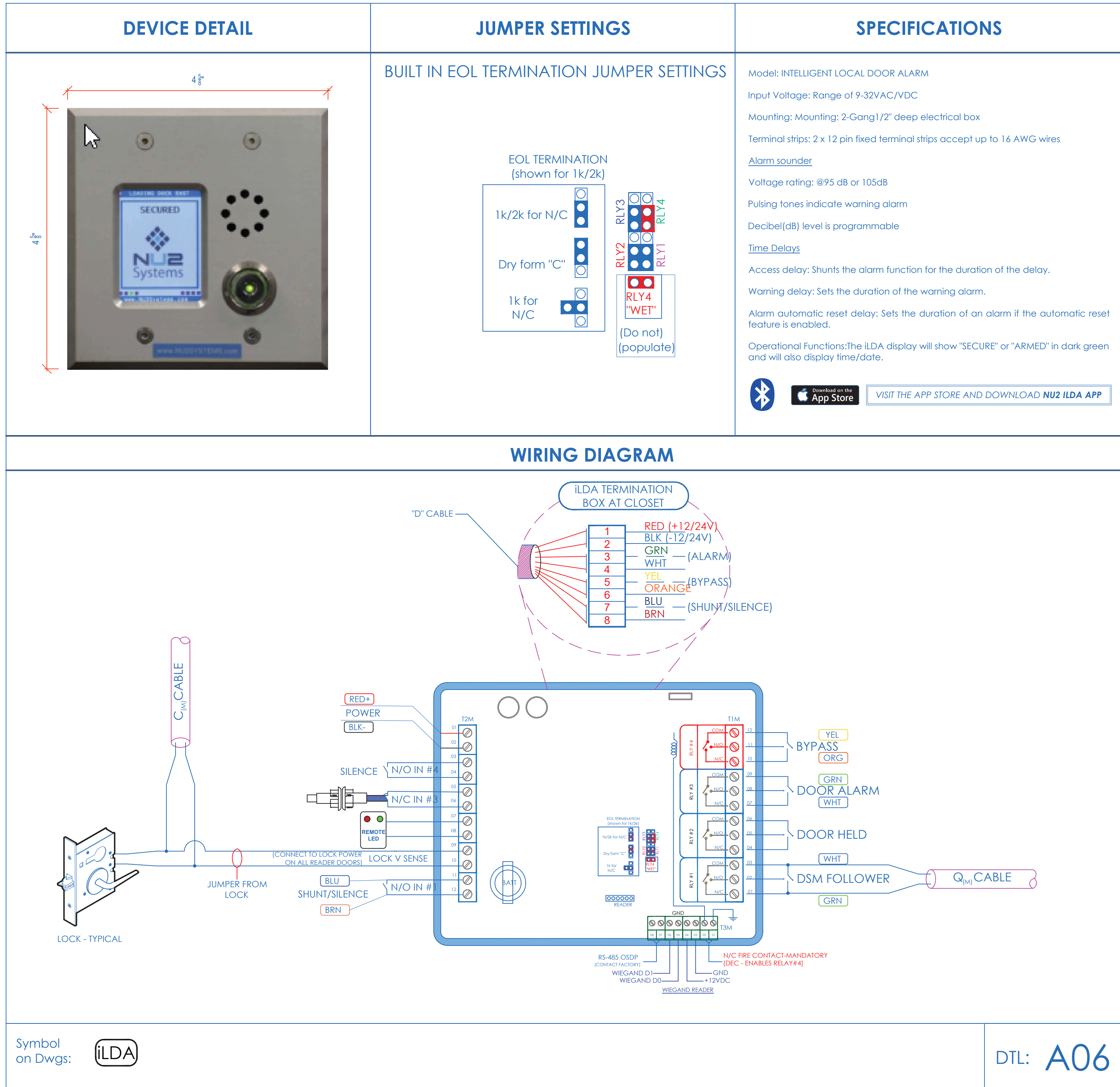
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	
XXXXXX	SCALE: N.T.S.	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-703A	



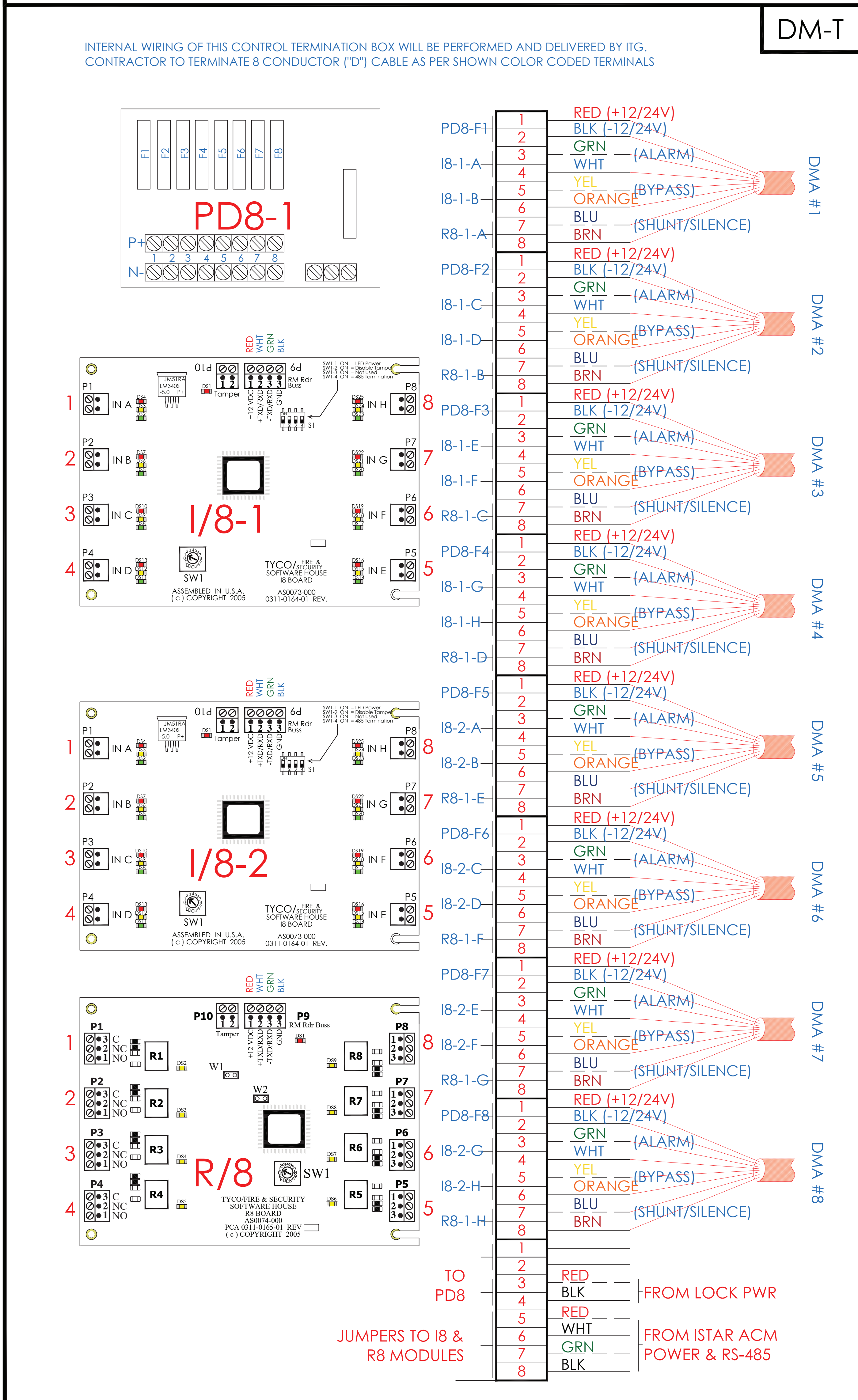




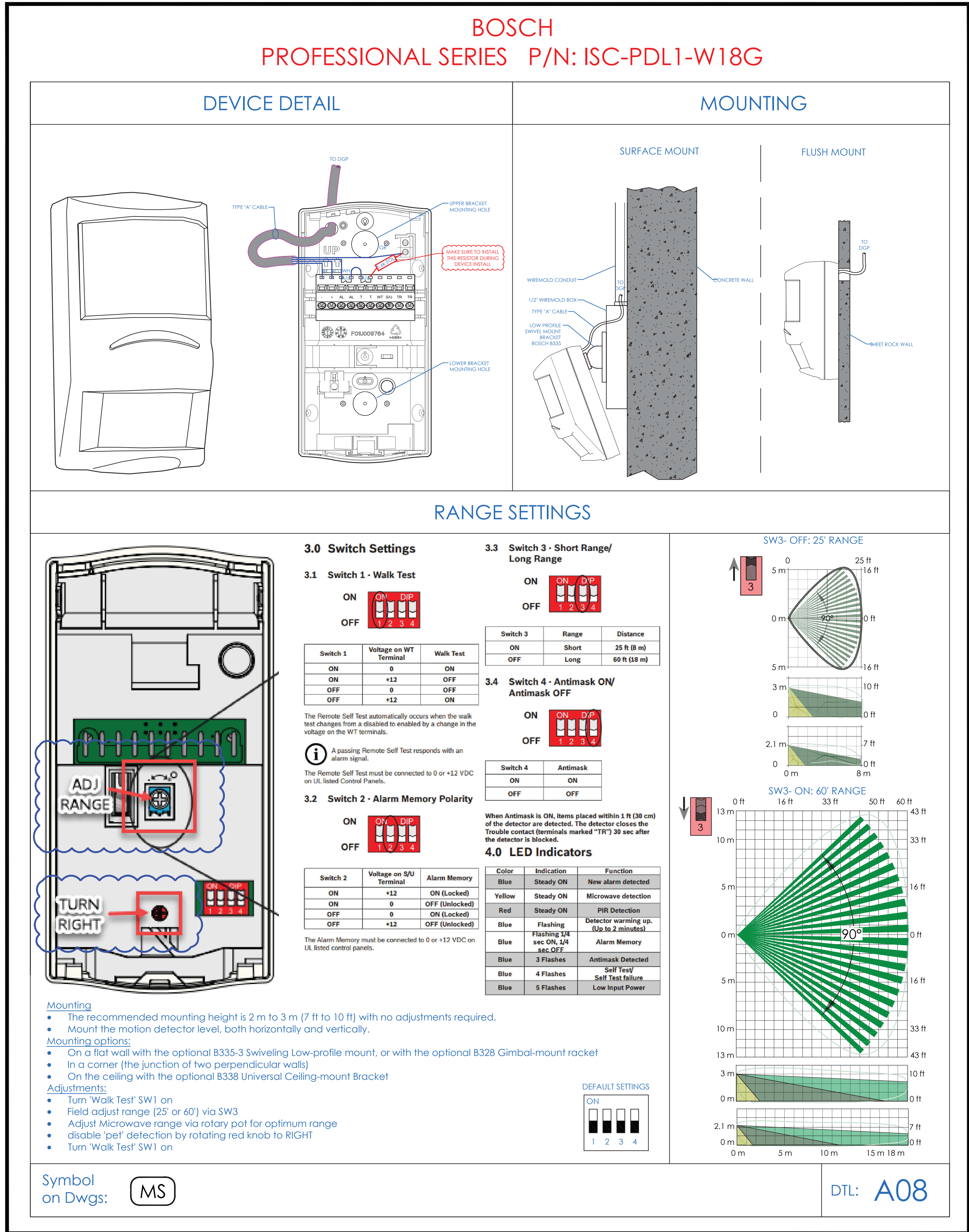
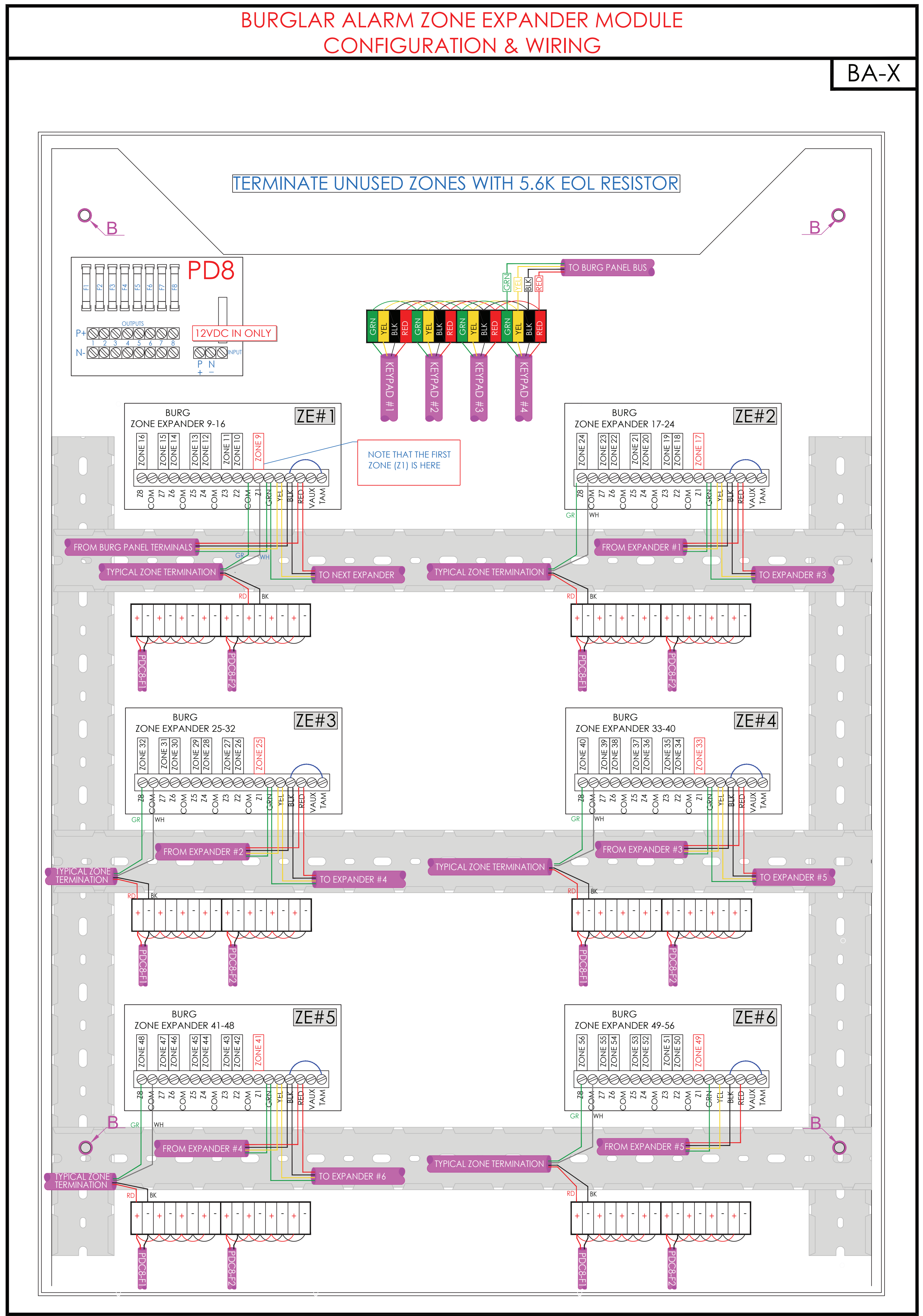
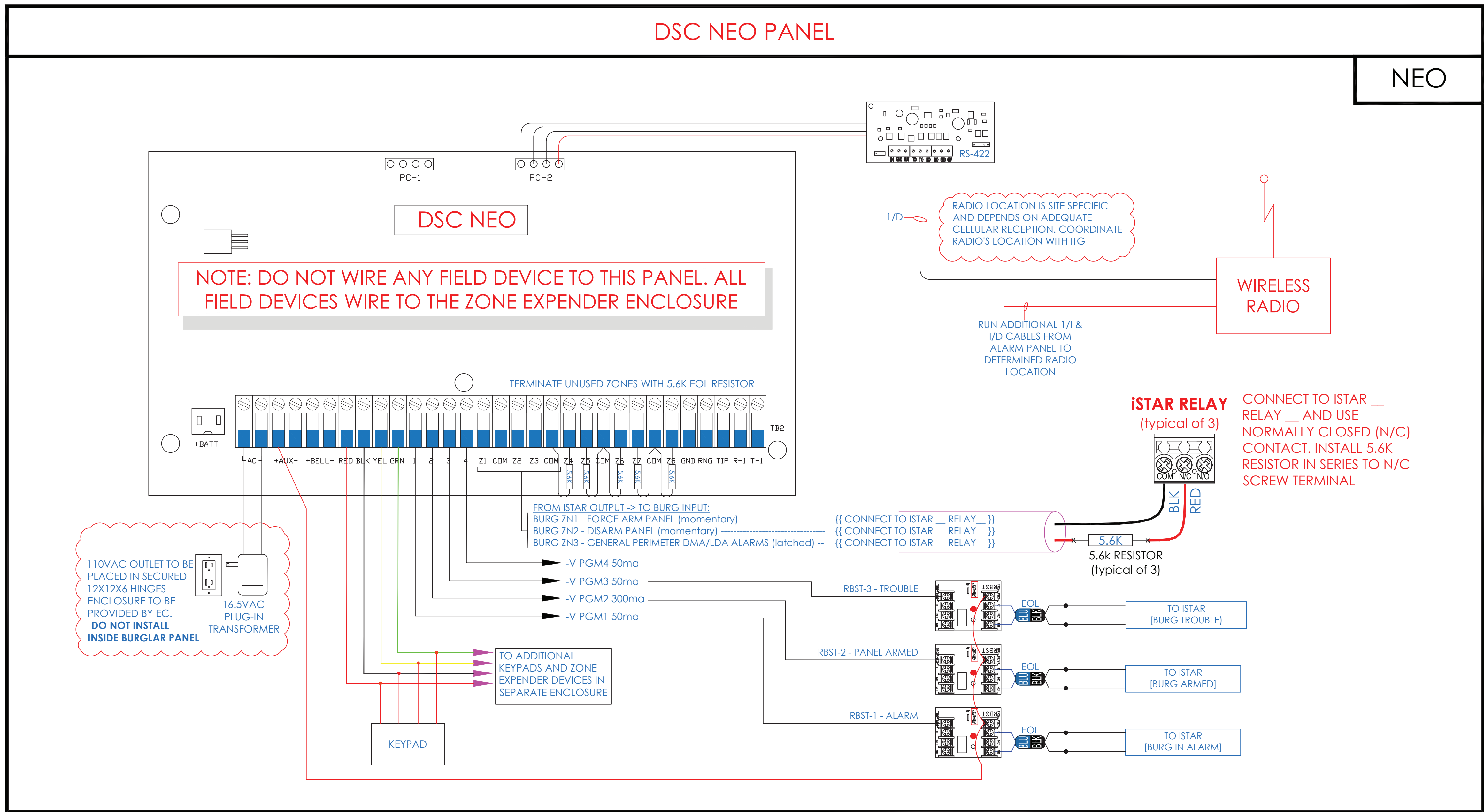
## NU2 SYSTEMS - ILDA INTELLIGENT LOCAL DOOR ALARM



## ILDA TERMINATIONS DMA DOORS 1-8







BURGLAR ALARM ZONE DETAIL

(TO BE FILLED BY INSTALLING CONTRACTOR)

BA-Z

SEE ZONE TERMINATION ENCLOSURE (BA-X) THIS PAGE

BURGLAR ALARM TERMINATION MATRIX				
	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		
		RLV 1		Burg "ALARM" notification to iStar
		RLV 2		"ARMED" Status to iStar (to Shut off lights)
		RLV 3		Burg "TROUBLE" notification to iStar
ZE #1		Z1	9 B-01-01-09	GYMNASIUM
		Z2	10 B-02-01-10	CORRIDOR
		Z3	11 B-03-01-11	CORRIDOR
		Z4	12 B-04-01-12	CLASSROOM 14
		Z5	13 B-05-01-13	CLASSROOM 12
		Z6	14 B-06-01-14	CLASSROOM 110
		Z7	15 B-07-01-15	CORRIDOR
		Z8	16 B-08-01-16	CORRIDOR
ZE #2		Z1	17 1-09-02-17	CORRIDOR
		Z2	18 1-10-02-18	CORRIDOR
		Z3	19 1-11-02-19	CORRIDOR
		Z4	20 1-12-02-20	CORRIDOR
		Z5	21 1-13-02-21	CLASSROOM 19
		Z6	22 1-14-02-22	REAR DOOR - CUSTODIAL ARMING STATION
		Z7	23 1-15-02-23	OFFICE
		Z8	24 1-16-02-24	LOBBY
ZE #3		Z1	25 2-17-03-25	CORRIDOR
		Z2	26 2-18-03-26	OFFICE COAT ROOM
		Z3	27 2-19-03-27	CORRIDOR
		Z4	28 2-20-03-28	CORRIDOR
		Z5	29 2-21-03-29	CORRIDOR
		Z6	30 2-22-03-30	STAIR
		Z7	31 SPARE	
		Z8	32 SPARE	

- NOTES:
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  3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
  4. PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
  5. ALL CAT-4 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
  6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT" COPY (2.18) AND A CD WITH .PDF FORMAT.
  7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "PDF" AND "CD" COPY (2.18) AND A CD WITH .PDF FORMAT.
  8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE COMMENTS

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7/15/2019 REVISED

8/26/2019 ISSUED FOR BID

10/6/2019 REVISED-ISSUED FOR BID

11/15/2020 REVISED-ISSUED FOR BID

**ITG**

**ITG Larson, Inc.**

155 Lafayette Ave

White Plains, NY 10603

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**RIVERSIDE HIGH SCHOOL**

565 WARBURTON AVE

YONKERS, NY 10701

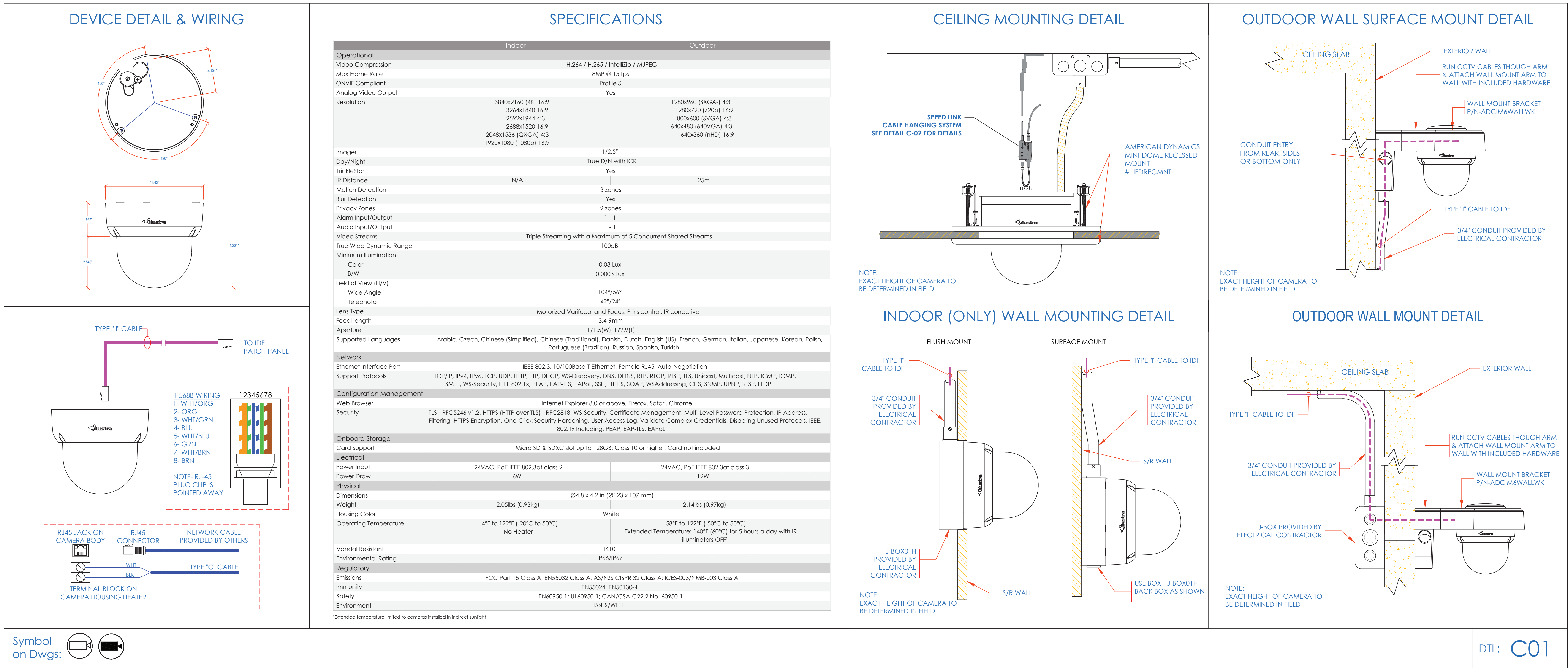
**SECURITY EQUIPMENT DETAIL 4**

**BURG DEVICE TYPICALS**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO.	DATE	11/27/2019
XXXXXX	SCALE	N.T.S.
S.A. NO.	DRAWING NO.	
XXXXXX	SE-705A	

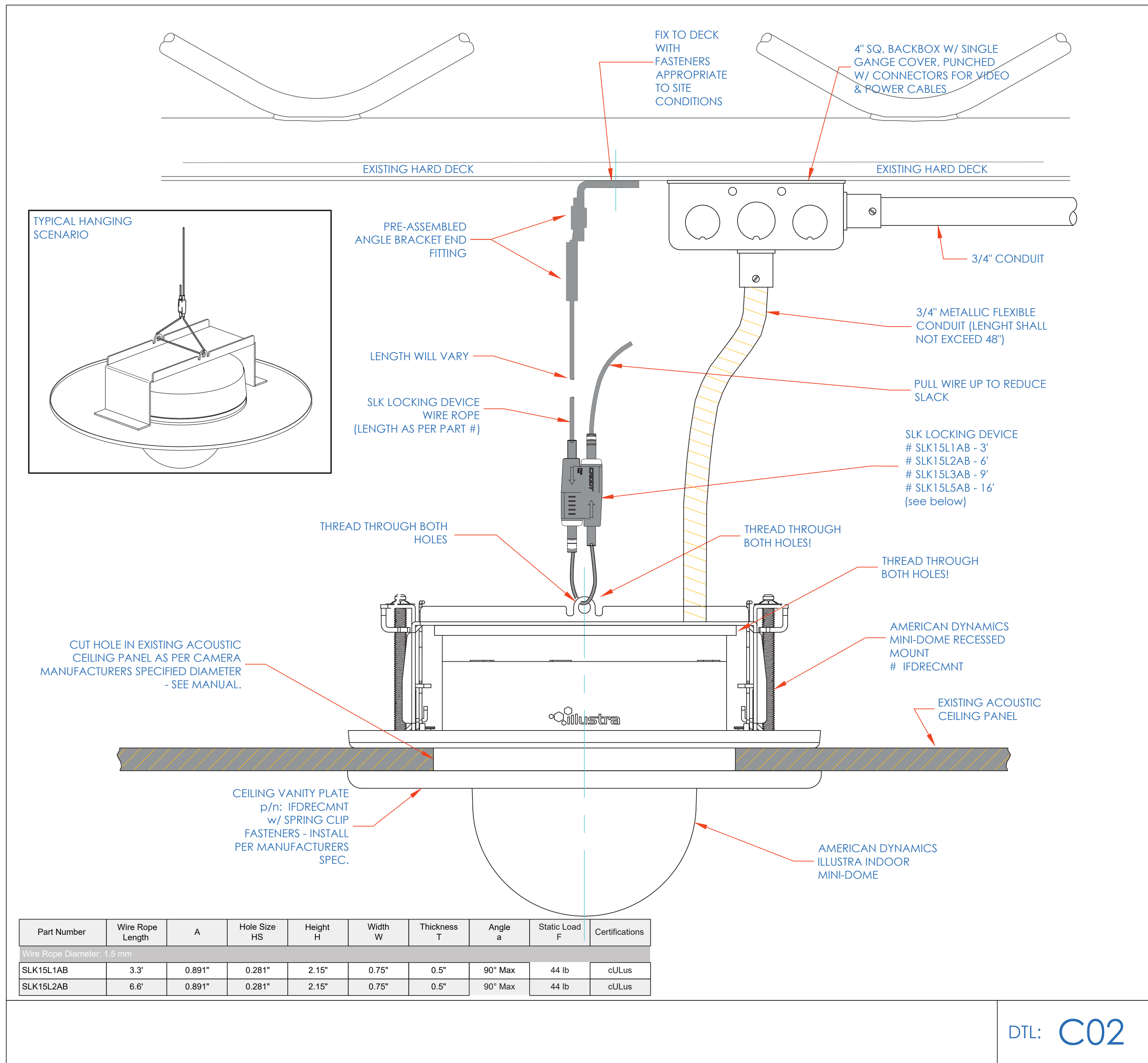


TYCO - ILLUSTRATE FLEX 4K MINI DOME  
8MP MINI DOME p/n: IFS08D2ICWTT (INDOOR) & IFS08D2OCWTT (OUTDOOR)



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  8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

nVent CADDY  
SPEED LINK SLK WITH ANGLE BRACKET



ISSUED FOR:	
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1/15/2020	REVISED-ISSUED FOR BID

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White Plains, NY 10603

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**PROJECT:**  
**RIVERSIDE HIGH SCHOOL**  
565 WARBURTON AVE  
YONKERS, NY 10701

TITLE:		
SECURITY EQUIPMENT DETAIL 5 CCTV TYPICALS		
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	
XXXXXX	SCALE: NO SCALE	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-706	