

SUBSCRIPTS AND ABBREVIATIONS	
TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION.
'AFF'	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WM'	DEVICE IS TO BE WALL MOUNTED.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

SUBSCRIPTS LEGEND - EXISTING DEVICES	
TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR	
1.	EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2.	SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECTS ELECTRICAL CONTRACTOR.
3.	CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

RESPONSIBILITY MATRIX				
SCOPE ITEM	RESPONSIBILITY			NOTES
	OFOI	CFCI	OFCI	
COMMUNICATIONS - DIVISION 27				
CATEGORY 6 STRUCTURED CABLING SYSTEM		X		
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM		X		
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT		X		
→ VOIP TELEPHONES		X		
→ WIRELESS ACCESS POINTS		X		
→ UNINTERRUPTABLE POWER SUPPLIES (UPS)		X		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		X		SEE NOTE 1.
ELECTRICAL POWER		X		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)		X		
INTRUSION DETECTION SYSTEM		X		
VIDEO SURVEILLANCE SYSTEM (VSS)				
→ VSS SERVERS		X		
→ VSS CAMERAS		X		
→ VSS PROGRAMMING		X		
→ VSS CABLING		X		SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		X		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		X		SEE NOTE 1.
ELECTRICAL POWER		X		SEE NOTE 1.
OFOI - OWNER FURNISHED AND OWNER INSTALLED CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED				
RESPONSIBILITY MATRIX NOTES:				
1. BY DIVISION 26.				
2. BY DIVISION 27.				

ACCESS CONTROL LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[ACP]	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
[CR]	ACCESS CONTROL PROXIMITY CARD READER. DEFAULT SYMBOL INDICATES WALL MOUNTED 'M' - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
[CR]	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
[DS]	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *DEFAULT INDICATES WALL MOUNTED 'M' - INDICATES MULLION MOUNTED DEVICE	+42" AFF	*W: 1-G, 3/4" C *M: 3/4" C	COORDINATE POWER. NOTE #4 & #5.
[DS]	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4 & #5.
[MS]	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
[DR]	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
[DH]	PIR MOTION REQUEST TO EXIT DEVICE, DOOR CONTACT AND ELECTRIC STRIKE.			ACCESS CONTROL ONLY DOOR SHALL BE SPST. DOOR WITH BOTH ACCESS CONTROL AND INTRUSION SHALL BE DPDT. ONLY 1 DOOR CONTACT PER DOOR IF DH AND DC SYMBOL ARE SHOWN

- NOTES:
- #-G INDICATES BACK BOX SIZE.
 - #-C INDICATES CONDUIT SIZE.
 - UNO: UNLESS NOTED OTHERWISE
 - PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK
 - AVIGLON PART # 3.0C-MV1-RO1-R.

VIDEO SURVEILLANCE LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[C]	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5 AND #6
[C]	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
[C]	3-SENSOR CAMERA	CEILING UNO		NOTE #5 AND #6
[C]	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
[C]	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
[C]	SYMBOL ADDED TO CAMERA TO INDICATE WALL/CORNER MOUNT.	+9" AFF UNO		NOTE #6
[VRS]	VIDEO RECORDING SERVER			
[HMU]	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

- NOTES:
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 - THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
 - PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK
 - EXTERIOR WALL MOUNT SPEAKERS SHALL BE MOUNTED +10" AFF.

INTRUSION LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[IDP]	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1" C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
[KP]	INTRUSION DETECTION SYSTEM KEYPAD.	+60" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[M]	WALL MOUNTED MOTION DETECTOR *# = LR IF LONG RANGE	REFERENCE FLOOR PLAN	N/A	
[CB]	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
[DC]	DOOR CONTACT	FLUSH MOUNTED IN DOOR FRAME	N/A	INTRUSION ONLY DOOR SHALL BE SPST. DOOR WITH BOTH ACCESS CONTROL AND INTRUSION SHALL BE DPDT. ONLY 1 DOOR CONTACT PER DOOR IF DH AND DC SYMBOL ARE SHOWN
[MDC]	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
[DB]	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	
[SS]	SECURITY SIREN	+9" AFF	SINGLE GANG BACKBOX	

- NOTES:
- #-G INDICATES BACK BOX SIZE.
 - #-C INDICATES CONDUIT SIZE.
 - UNO: UNLESS NOTED OTHERWISE
 - REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL
[FAP]	FIRE ALARM ANNUNCIATOR PANEL
[NAC]	NOTIFICATION APPLIANCE
[F]	FIRE ALARM PULL STATION

NOTES:

- REFERENCE SHEET SPECIFICATIONS
- A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

STRUCTURED CABLING LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[W]	WALL MOUNTED NETWORK OUTLET *# = NUMBER OF DATA DROPS IN OUTLET *AP = WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[W]	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
[W]	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[W]	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[D#]	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
[D#]	CEILING MOUNTED NETWORK OUTLET *# = NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	
[D#]	CEILING MOUNTED NETWORK OUTLET *# = NETWORK DROP QUANTITY	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

- NOTES:
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 - #-C INDICATES CONDUIT SIZE.
 - UNO: UNLESS NOTED OTHERWISE
 - CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNOUC PLASTIC PROTECTIVE BUSHING.
 - NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

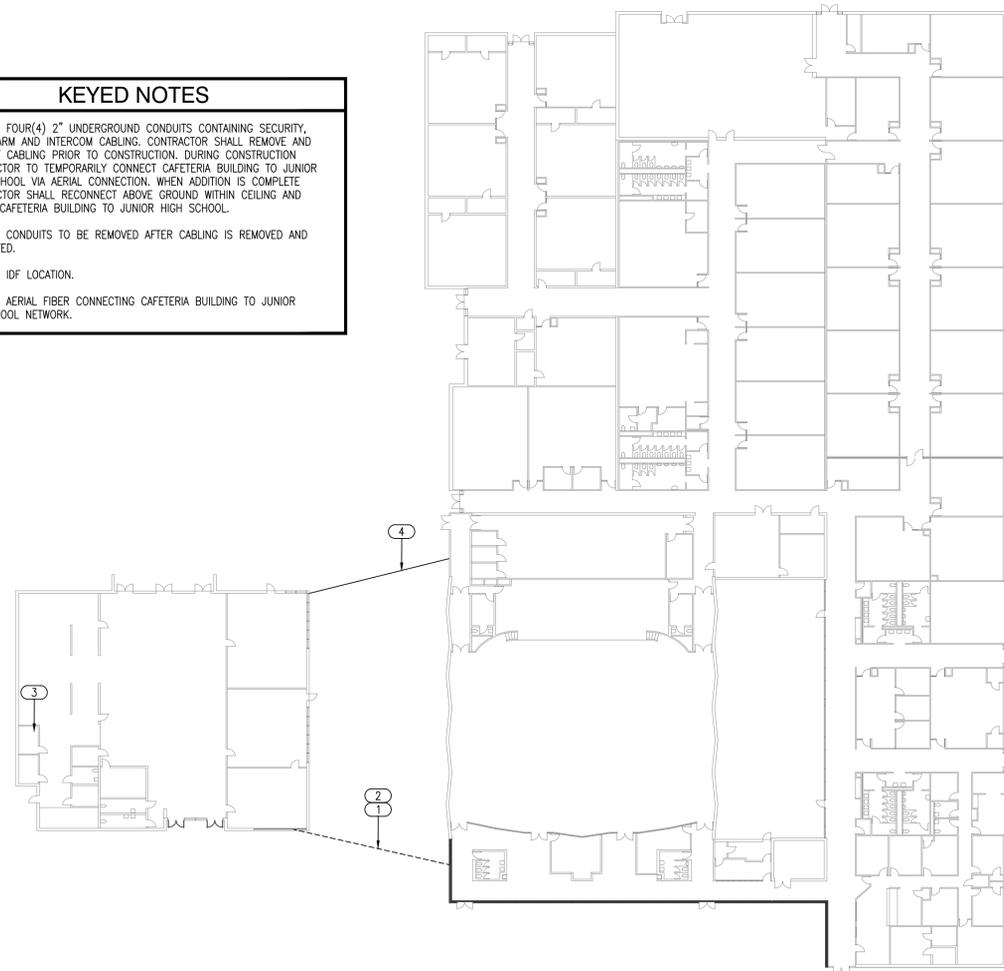
AUDIO/VIDEO LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[WMP]	WALL MOUNTED PROJECTOR AUDIOVISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
[CMP]	CEILING MOUNTED PROJECTOR AUDIOVISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
[AV-1]	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	
[FSD-1]	WALL MOUNTED FLAT SCREEN DISPLAY AUDIOVISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
[FSD-2]	WALL MOUNTED FLAT SCREEN DISPLAY AUDIOVISUAL OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
[IVD]	INTERACTIVE VIDEO DISPLAY AUDIOVISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
[CP]	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[PS]	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
[SC]	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

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 - PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[ICS]	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
[S]	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
[S]	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
[S]	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
[S]	WALL MOUNT EXTERIOR INTERCOM SPEAKER	+10" AFF UNO	CONTRACTOR PROVIDED	
[S]	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
[S]	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
[S]	CEILING MOUNTED EXTERIOR INTERCOM SPEAKER	CEILING	CONTRACTOR PROVIDED	
[IP]	IP BASED SPEAKER. *# TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
[IP AMP]	SPEAKER CONNECTED TO IP MODULE AND AMPLIFIER. *# TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
[VC]	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[CB]	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[C]	SINGLE FACE CLOCK	90" AFF UNO.	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[C]	DOUBLE FACE CLOCK	90" AFF UNO.	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[RPS]	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
[ACS]	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5

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KEYED NOTES	
1	EXISTING FOUR(4) 2" UNDERGROUND CONDUITS CONTAINING SECURITY, FIRE ALARM AND INTERCOM CABLING. CONTRACTOR SHALL REMOVE AND PROTECT CABLING PRIOR TO CONSTRUCTION. DURING CONSTRUCTION CONTRACTOR TO TEMPORARILY CONNECT CAFETERIA BUILDING TO JUNIOR HIGH SCHOOL VIA AERIAL CONNECTION. WHEN ADDITION IS COMPLETE CONTRACTOR SHALL RECONNECT ABOVE GROUND WITHIN CEILING AND REWIRE CAFETERIA BUILDING TO JUNIOR HIGH SCHOOL.
2	EXISTING CONDUITS TO BE REMOVED AFTER CABLING IS REMOVED AND PROTECTED.
3	EXISTING IDF LOCATION.
4	EXISTING AERIAL FIBER CONNECTING CAFETERIA BUILDING TO JUNIOR HIGH SCHOOL NETWORK.



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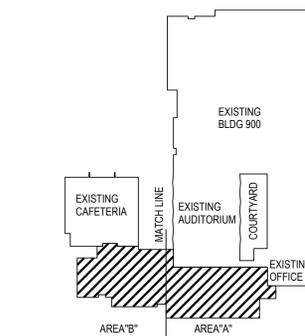


CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

T100

1 TECHNOLOGY DEMO COMPOSITE PLAN
SCALE: 1/32" = 1'-0"



KEYPLAN
NO SCALE

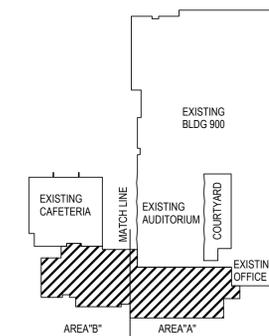
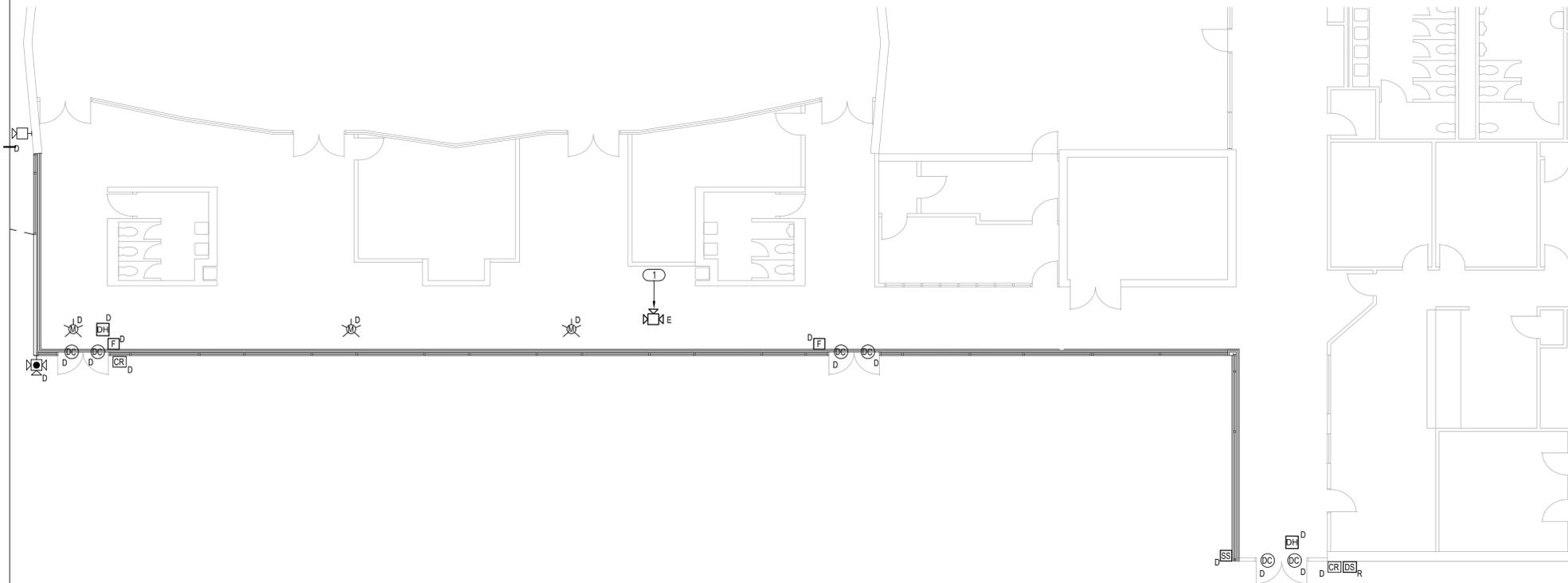
Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2550-00564-00

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KEYED NOTES	
①	CAMERA TO BE REMOVED AND PROTECTED DURING CONSTRUCTION AND REINSTALLED IN THE SAME LOCATION IN NON-STAINABLE TILE AFTER CEILING IN THIS AREA HAS BEEN REPLACED.

DEMO GENERAL NOTES	
A.	REMOVE ALL EXISTING CAMERAS AND RETURN TO MPS TECHNOLOGY.
B.	REMOVE CARD READERS AND DOOR STRIKES AND RETURN TO MPS TECHNOLOGY.
C.	REMOVE EXISTING ALARM DOOR CONTACTS AND MOTION DETECTORS AND RETURN TO MPS TECHNOLOGY. WIRING TO BE INSULATED TO PREVENT GROUND FAULTS AND OTHER DAMAGE TO SYSTEM AND WIRING.
D.	REMOVE EXISTING OUTSIDE SIREN & RETURN TO MPS TECHNOLOGY.
E.	RELOCATE EXISTING ANGLON DOOR STATION TO TEMPORARY OFFICE ENTRY DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, RELOCATE TO NEW OFFICE ENTRANCE. CONTRACTOR TO PROVIDE ONE(1) CATEGORY CABLE CONNECTION AT EACH LOCATION.
F.	IN AUDITORIUM LOBBY REMOVE EXISTING SMOKE DETECTORS AND REPLACE WITH SK PROTOCOL DEVICES AND BE MOUNTED ON NON-STAINABLE TILES. CONTRACTOR TO REMOVE EXISTING INTERCOM SPEAKERS AND REPLACE WITH 2X2 LAY-IN SPEAKERS PER SPECS. CONTRACTOR TO FIELD VERIFY AND REPLACE IN SAME LOCATION TO ENSURE EQUAL COVERAGE AS EXISTING.

SUBSCRIPTS LEGEND - EXISTING DEVICES	
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CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

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1 TECHNOLOGY DEMO FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



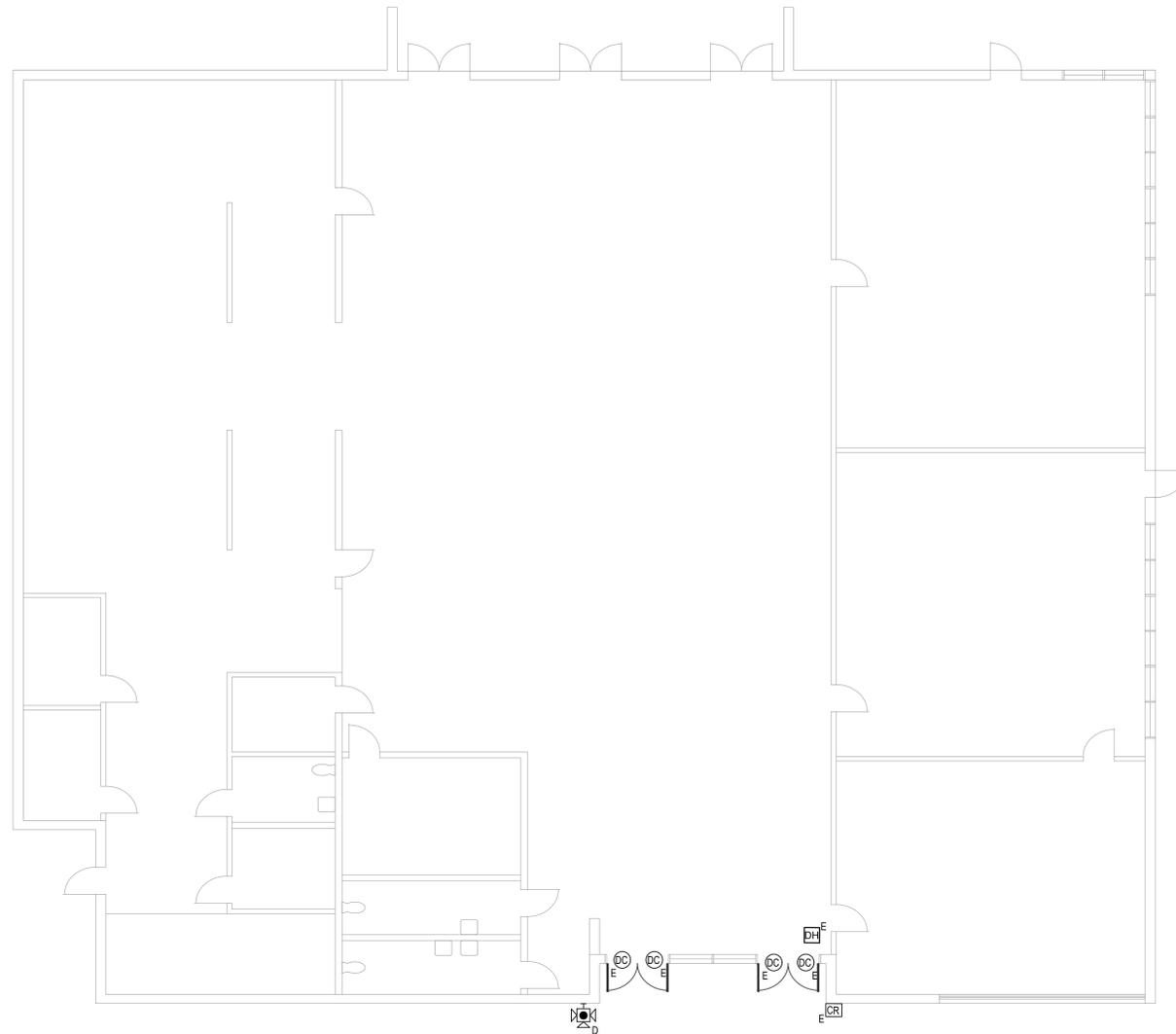
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DEMO GENERAL NOTES	
A.	REMOVE ALL EXISTING CAMERAS AND RETURN TO MPS TECHNOLOGY.
B.	REMOVE EXISTING ALARM DOOR CONTACTS AND MOTION DETECTORS AND RETURN TO MPS TECHNOLOGY. WIRING TO BE INSULATED TO PREVENT GROUND FAULTS AND OTHER DAMAGE TO SYSTEM AND WIRING.
C.	REMOVE EXISTING OUTSIDE SIREN & RETURN TO MPS TECHNOLOGY.
D.	RELOCATE EXISTING AVIGLON DOOR STATION TO TEMPORARY OFFICE ENTRY DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, RELOCATE TO NEW OFFICE ENTRANCE. CONTRACTOR TO PROVIDE ONE(1) CATEGORY CABLE CONNECTION AT EACH LOCATION.
E.	IN AUDITORIUM LOBBY REMOVE EXISTING SMOKE DETECTORS AND REPLACE WITH SK PROTOCOL DEVICES AND BE MOUNTED ON NON-STAINABLE TILES. CONTRACTOR TO REMOVE EXISTING INTERCOM SPEAKERS AND REPLACE WITH 2X2 LAY-IN SPEAKERS PER SPECS. CONTRACTOR TO FIELD VERIFY AND REPLACE IN SAME LOCATION TO ENSURE EQUAL COVERAGE AS EXISTING.

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CENTRAL JUNIOR
HIGH SCHOOL

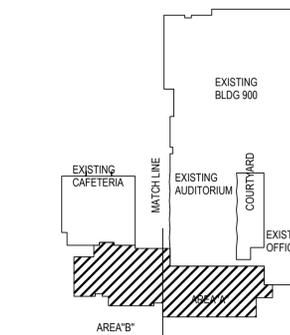
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1 TECHNOLOGY DEMO FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0"

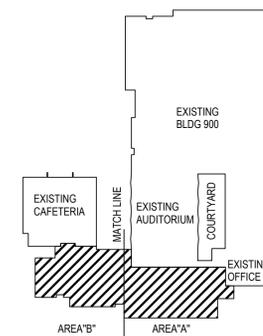
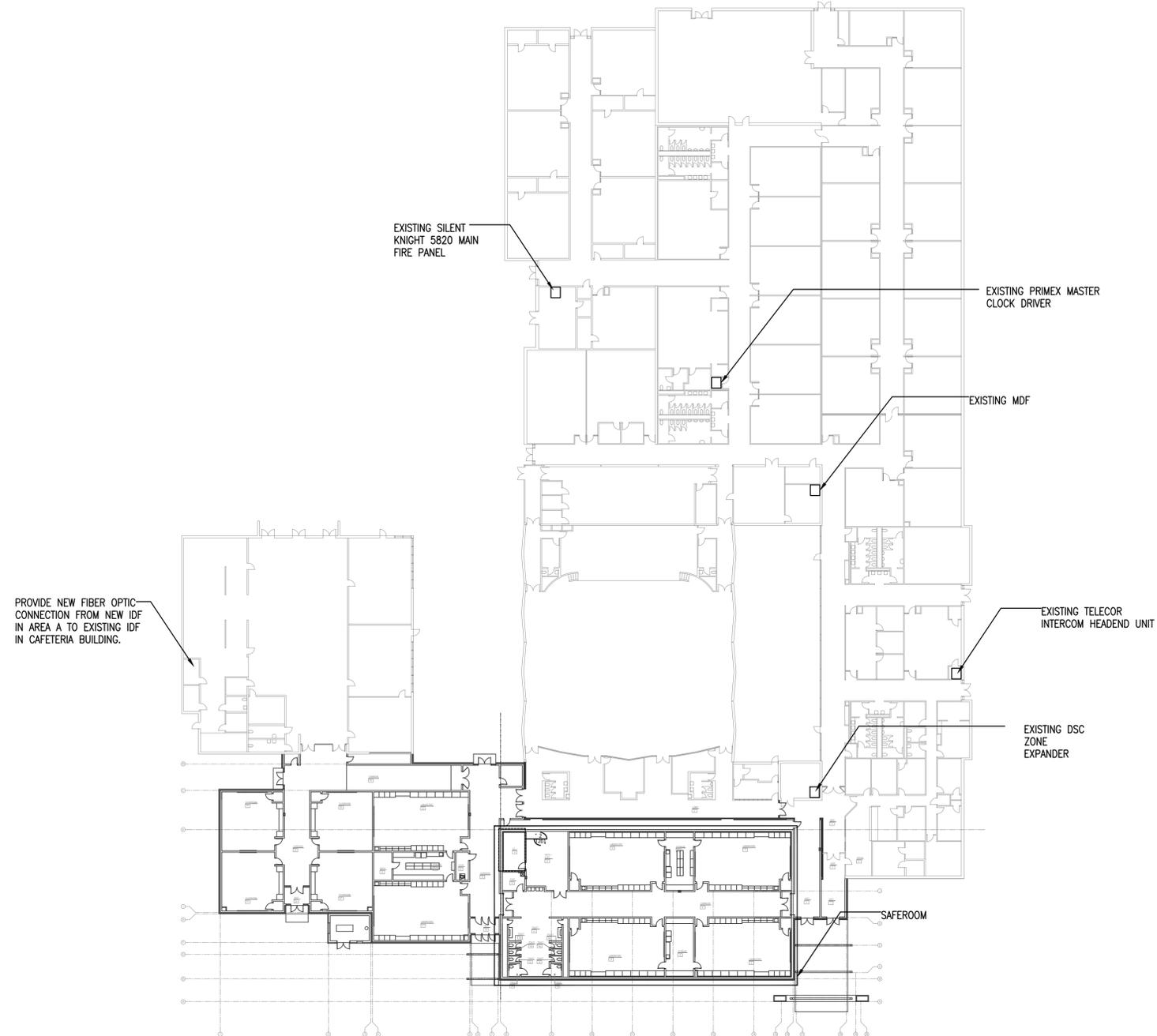


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GENERAL NOTES

- A. FIRE: REPLACE EXISTING SILENT KNIGHT 5820XL WITH NEW 6820XL (6820 EYS IF VOICE EVAC IS REQUIRED). REPLACE ALL SD PROTOCOL DEVICES WITH SK. SEE SPECS FOR PARTS LIST AND SYSTEM REQUIREMENTS. MAIN BUILDING, AUDITORIUM, CAFE BUILDING, 800 BUILDING AND ENROLLMENT BUILDINGS TO BE UPDATED TO SK PROTOCOL DEVICES.
- B. SECURITY ALARM: CONNECT ALL NEW SECURITY DEVICES TO EXISTING DSC ZONE EXPANDER AND POWER SUPPLY.
- C. INTERCOM: CONNECT ALL NEW INTERCOM DEVICES TO EXISTING TELECOR INTERCOM SYSTEM. PROVIDE ALL LINE CARDS, ETC., NEEDED.
- D. CLOCKS: CLOCKS SHALL BE PRIMEX DIGITAL CLOCKS. CONNECT NEW CLOCKS TO EXISTING PRIMEX CLOCK DRIVER. SUPPLY ALL REPEATERS, ETC., NEEDED.
- E. ACCESS CONTROL: CONNECT ALL NEW ACCESS CONTROL DEVICES TO NEW CONTROLLER. SUPPLY CONTROLLER, READERS, STRIKES, ETC.
- F. CONNECT NEW CAMERAS TO NEW IDF.
- G. CONNECT NEW DATA, WIFI, CAMERA DROPS TO NEW IDF. CONNECT NEW IDF TO EXISTING MDF VIA FIBER & CAT-6. SEE NETWORK SPECIFICATIONS FOR FIBER OPTIC CABLE AND CAT 6 INFORMATION.



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CLASSROOM ADDITION
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1 TECHNOLOGY COMPOSITE PLAN

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SAFEROOM NOTE

PER ICC 500-2014, 309.1:
 PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
 1. 3.5 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
 2. 2 1/16" IN DIAMETER
 SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

ACTIVE DAS HYBRID SYSTEM NOTE

CONTRACTOR TO PROVIDE AND INSTALL A COMPLETE AND FUNCTIONING DAS SYSTEM IN THE STORM SHELTER PORTION OF THE BUILDING.
 CONTRACTOR SHALL PROVIDE AND INSTALL A CEL-FI QUATRA 4000c SYSTEM BY NEXTIVITY.
 REQUIREMENT THAT SYSTEM SHALL BOOST CELL SERVICE FOR VERIZON, T-MOBILE AND AT&T AND SUPPORT A MINIMUM OF 50 USERS.

TECHNOLOGY ENLARGED PLAN KEYED NOTES

- INDICATES THE LOCATION OF A 8' TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
- INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +93" A.F.F.
- PROVIDE AND INSTALL A 12" WIDE, UNIVERSAL LADDER TRAY AND ALL REQUIRED MOUNTING HARDWARE. LADDER TRAY SHALL BE BLACK IN COLOR. TYPICAL FOR ALL SHOWN ON ENTIRE PROJECT.
- PROVIDE AND INSTALL ONE (1) 2-POST, FLOOR MOUNTED, 7" RELAY RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
- PROVIDE AND INSTALL ONE (1) 7"x6", FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER (BLACK IN COLOR). CABLE MANAGERS SHALL BE INSTALLED ON EACH END OF THE RACK SYSTEMS AND BETWEEN EACH RACK. CABLE MANAGERS SHALL HAVE A SINGLE, SOLID, FULL HEIGHT HINGED DOOR IN THE FRONT AND WIDE SPACED CABLE RINGS WITH SPIN-OPEN LATCHES IN THE REAR. TYPICAL FOR ALL SHOWN IN THE ENTIRE PROJECT.
- APPROXIMATE HEAD END LOCATION OF ACTIVE DAS HYBRID SYSTEM.

GENERAL NOTES

A. FIRE: REPLACE EXISTING SILENT KNIGHT 5820XL WITH NEW 6820XL (6820 EVS IF VOICE EVAC IS REQUIRED). REPLACE ALL SD PROTOCOL DEVICES WITH SK. SEE SPECS FOR PARTS LIST AND SYSTEM REQUIREMENTS. MAIN BUILDING, AUDITORIUM, CAFÉ BUILDING, 800 BUILDING AND ENROLLMENT BUILDINGS TO BE UPDATED TO SK PROTOCOL DEVICES.

B. SECURITY ALARM: CONNECT ALL NEW SECURITY DEVICES TO EXISTING DSC ZONE EXPANDER AND POWER SUPPLY.

C. INTERCOM: CONNECT ALL NEW INTERCOM DEVICES TO EXISTING TELECOR INTERCOM SYSTEM. PROVIDE ALL LINE CARDS, ETC., NEEDED.

D. CLOCKS: CLOCKS SHALL BE PRIMEX DIGITAL CLOCKS. CONNECT NEW CLOCKS TO EXISTING PRIMEX CLOCK DRIVER. SUPPLY ALL REPEATERS, ETC., NEEDED.

E. ACCESS CONTROL: CONNECT ALL NEW ACCESS CONTROL DEVICES TO NEW CONTROLLER. SUPPLY CONTROLLER, READERS, STRIKES, ETC.

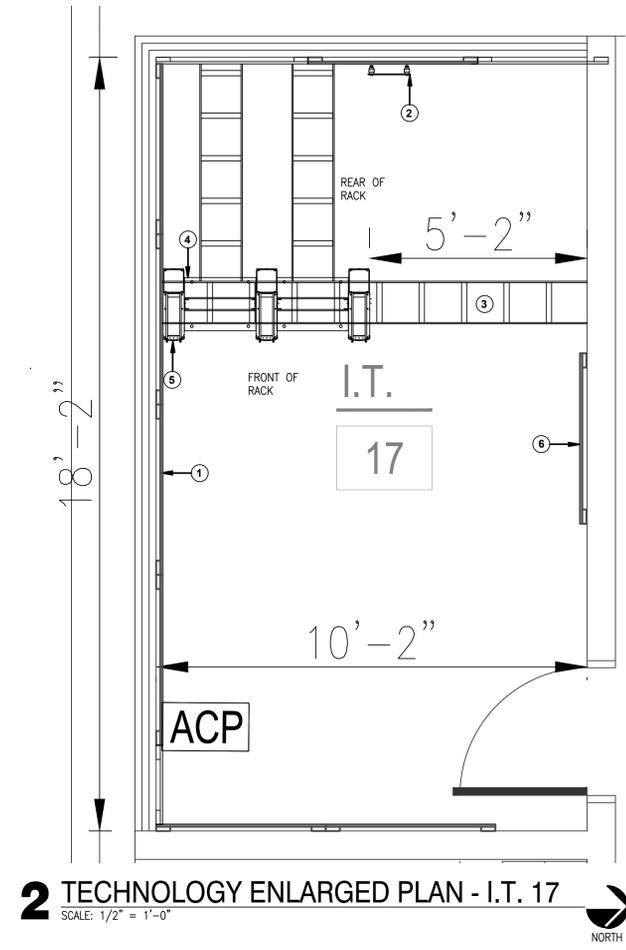
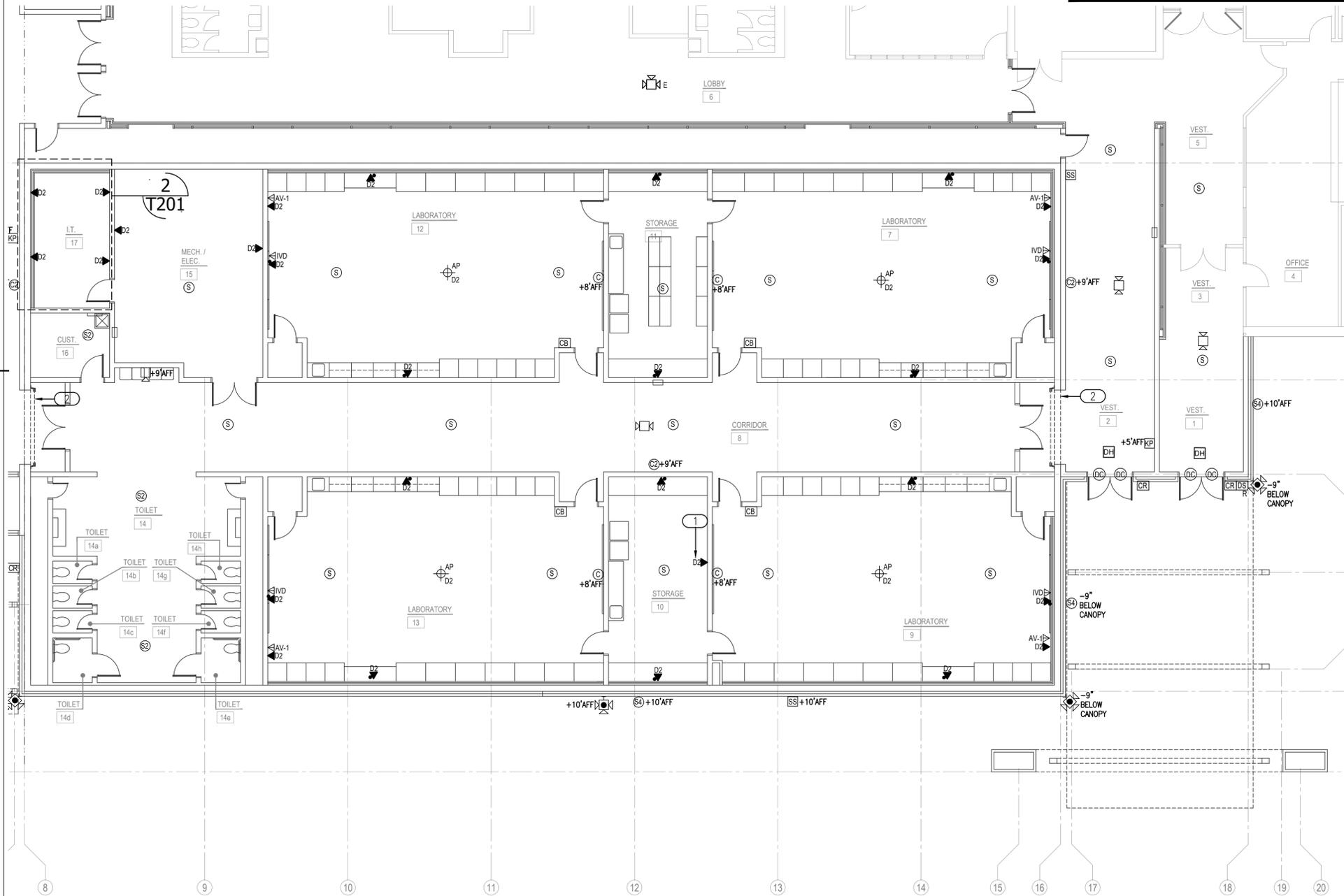
F. CONNECT NEW CAMERAS TO NEW IDF.

G. CONNECT NEW DATA, WIFI, CAMERA DROPS TO NEW IDF. CONNECT NEW IDF TO EXISTING IDF VIA FIBER & CAT-6. SEE NETWORK SPECIFICATIONS FOR FIBER OPTIC CABLE AND CAT 6 INFORMATION.

KEYED NOTES

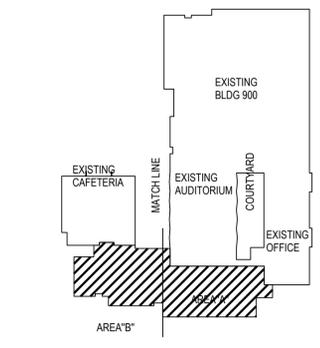
1 DATA OUTLET RESERVED FOR 3D PRINTER NETWORK CONNECTION. COORDINATE FINAL LOCATION WITH OWNER.

2 CONTRACTOR TO INTEGRATE ROLLING DOOR INTO FIRE ALARM SYSTEM.



2 TECHNOLOGY ENLARGED PLAN - I.T. 17
 SCALE: 1/2" = 1'-0"

1 TECHNOLOGY FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"



KEYPLAN
 NO SCALE

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AY	checked by
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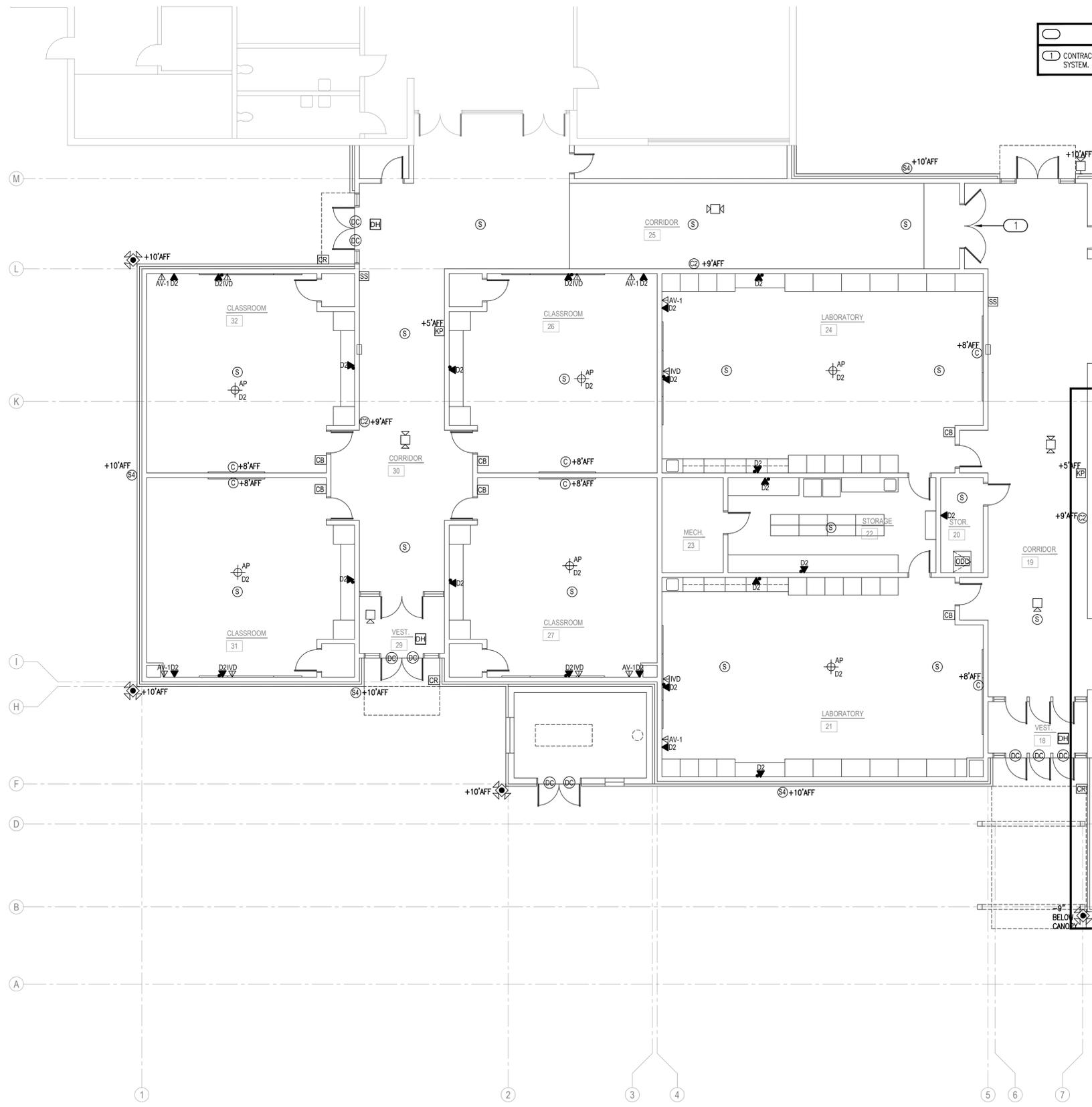
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 CENTRAL JUNIOR
 HIGH SCHOOL

sheet no:
T201

Salas O'Brien

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KEYED NOTES

○ CONTRACTOR TO TIE MAGNETIC DOOR HOLD OPENS INTO FIRE ALARM SYSTEM.

GENERAL NOTES

A. FIRE: REPLACE EXISTING SILENT KNIGHT 5820XL WITH NEW 6820XL (6820 EYS IF VOICE EVAC IS REQUIRED). REPLACE ALL SD PROTOCOL DEVICES WITH SK. SEE SPECS FOR PARTS LIST AND SYSTEM REQUIREMENTS. MAIN BUILDING, AUDITORIUM, CAFE BUILDING, 800 BUILDING AND ENROLLMENT BUILDINGS TO BE UPDATED TO SK PROTOCOL DEVICES.

B. SECURITY ALARM: CONNECT ALL NEW SECURITY DEVICES TO EXISTING DSC ZONE EXPANDER AND POWER SUPPLY.

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F. CONNECT NEW CAMERAS TO NEW IDF.

G. CONNECT NEW DATA, WIFI, CAMERA DROPS TO NEW IDF. CONNECT NEW IDF TO EXISTING MDF VIA FIBER & CAT-6. SEE NETWORK SPECIFICATIONS FOR FIBER OPTIC CABLE AND CAT 6 INFORMATION.

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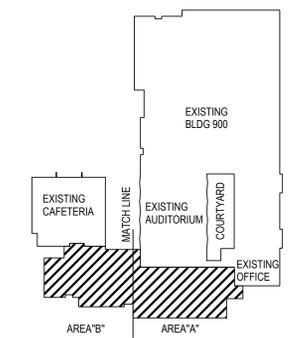
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KEYPLAN
NO SCALE

1 TECHNOLOGY FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

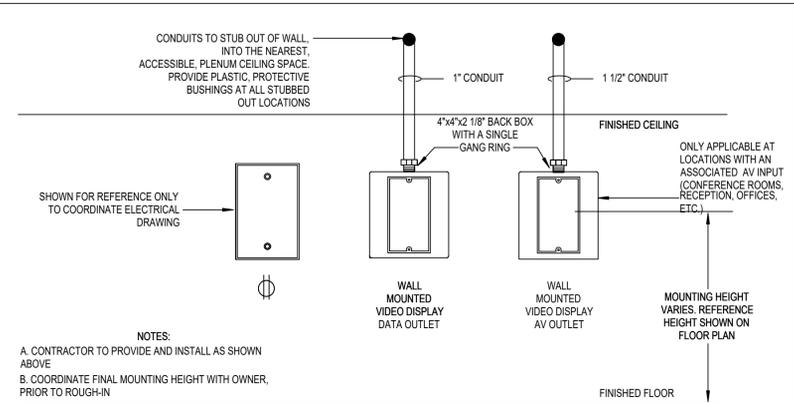


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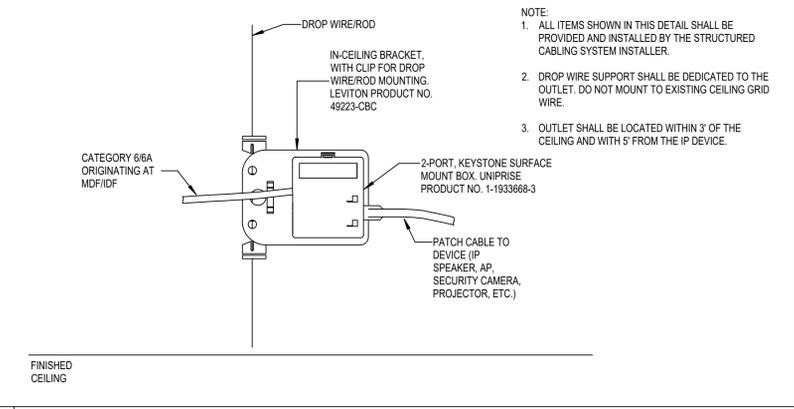
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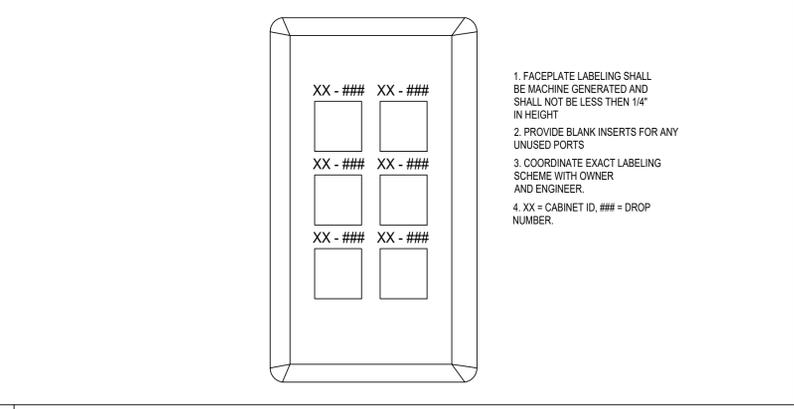
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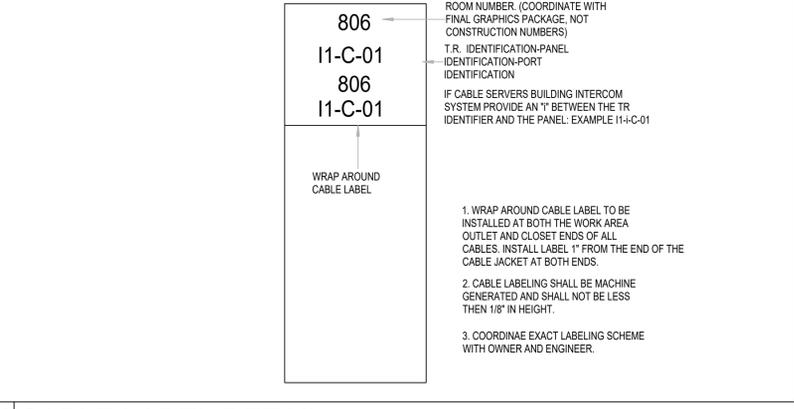
03 RACEWAY DETAIL - WALL MOUNTED DISPLAY NOT TO SCALE



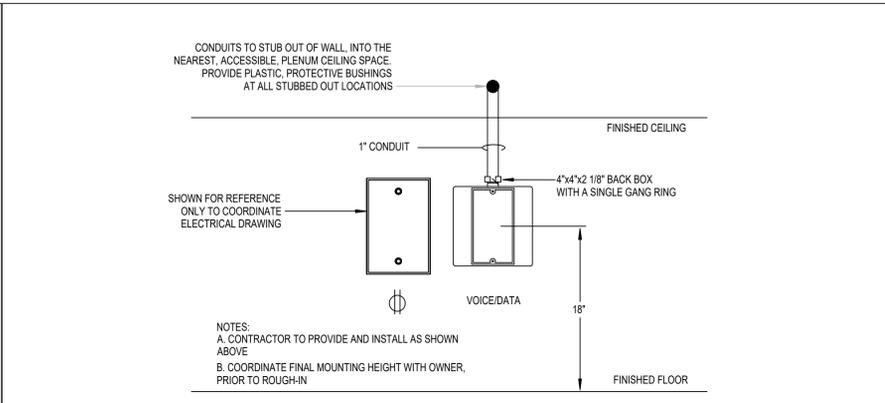
05 ABOVE CEILING STAND ALONE OUTLET NOT TO SCALE



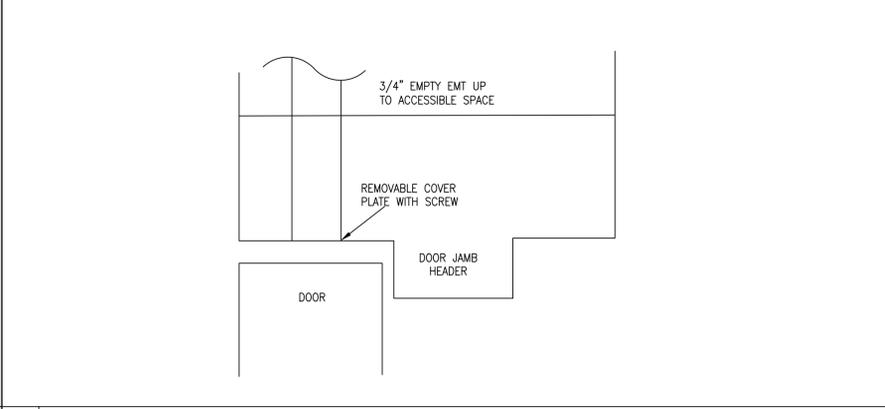
08 FACEPLATE LABEL DETAIL NOT TO SCALE



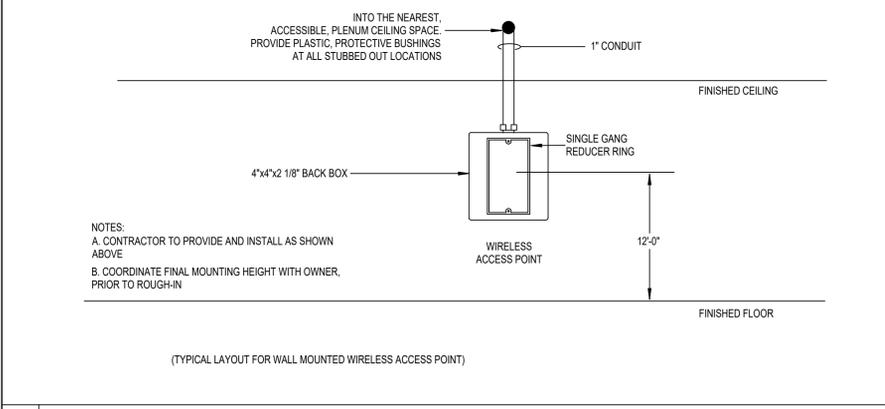
10 CABLE LABEL DETAIL NOT TO SCALE



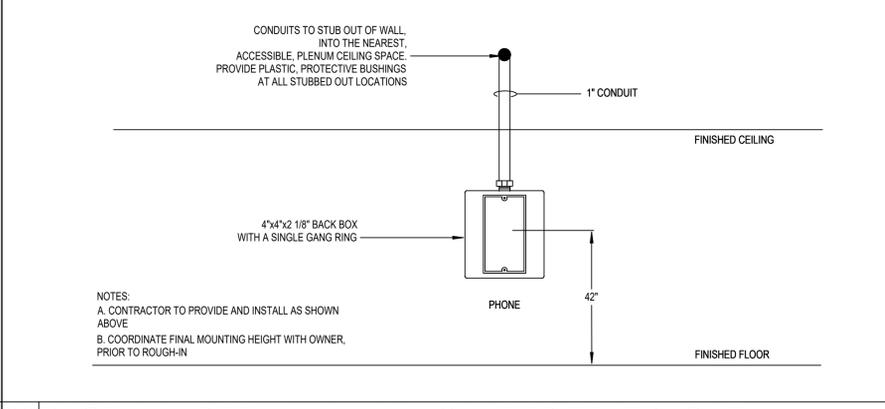
02 RACEWAY DETAIL - TYPICAL VOICE/DATA OUTLET NOT TO SCALE



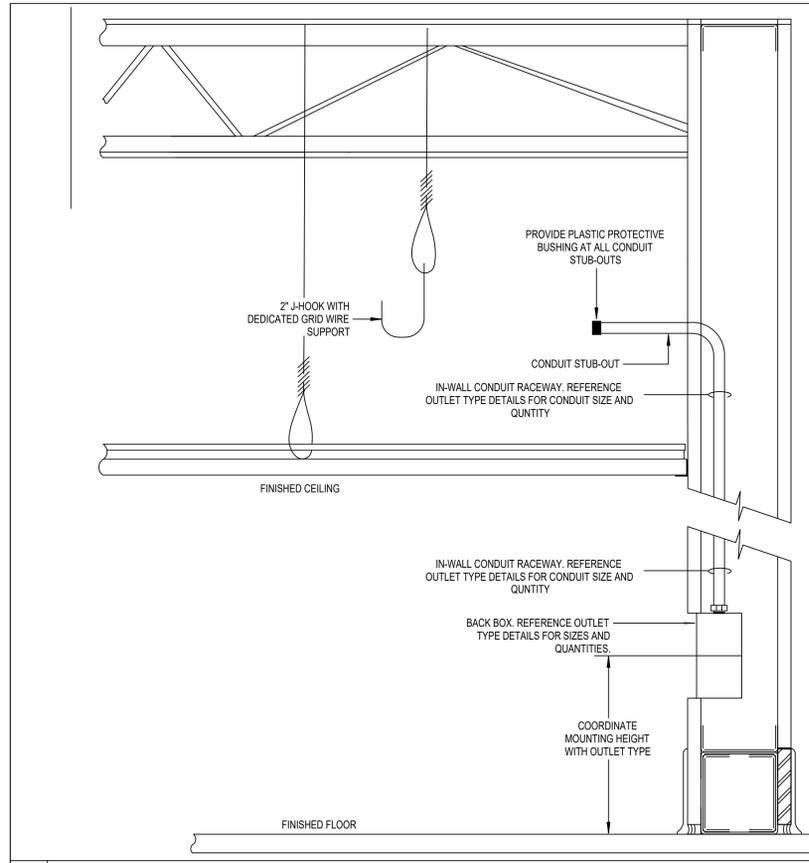
04 SECURITY CONDUIT DOOR JAMB HEADER NOT TO SCALE



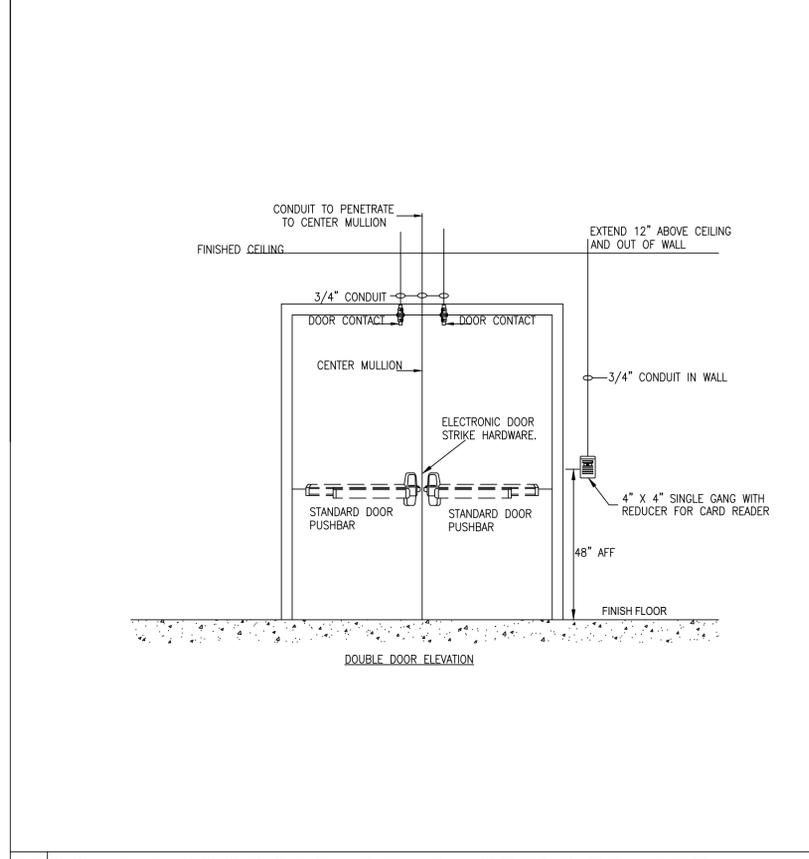
07 RACEWAY DETAIL - WALL MOUNTED WIRELESS AP NOT TO SCALE



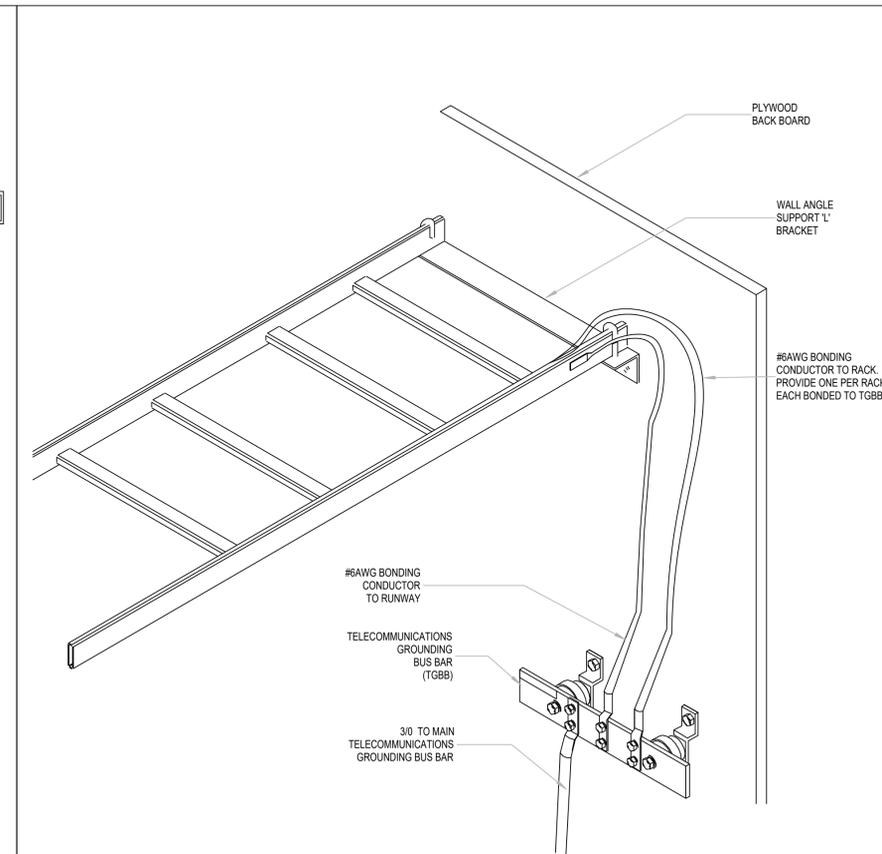
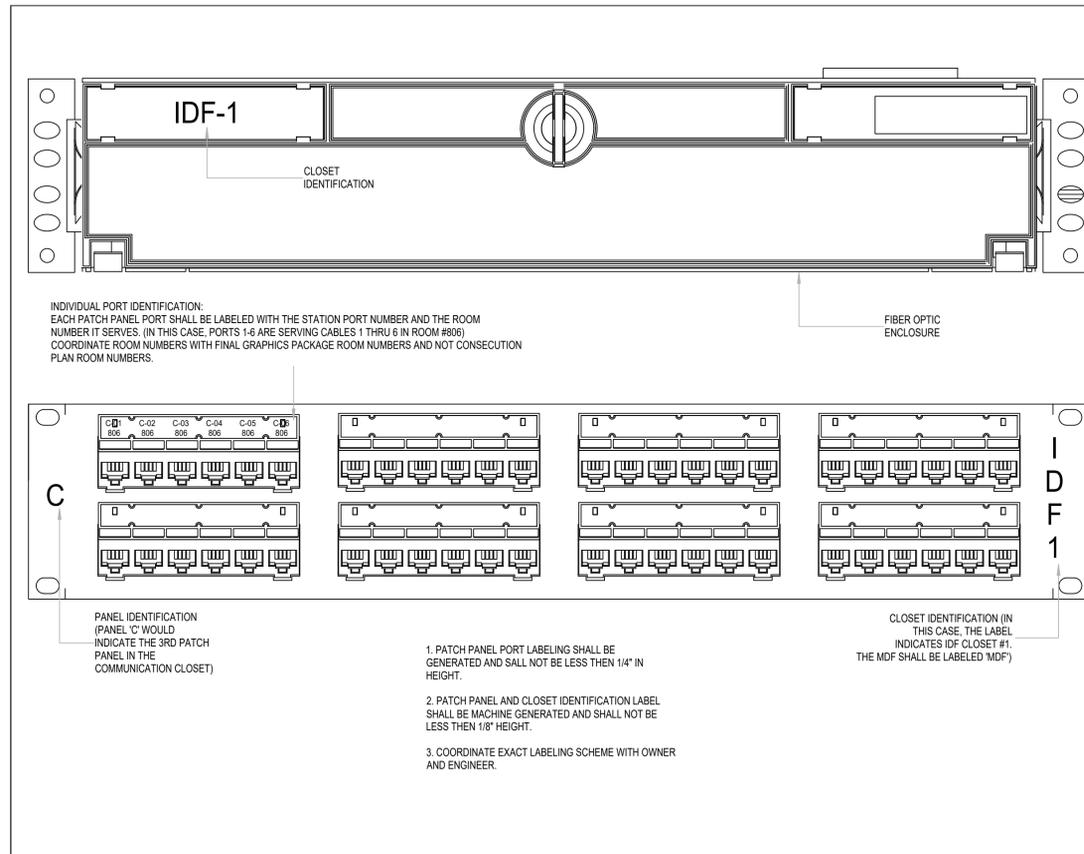
09 RACEWAY DETAIL - WALL MOUNTED TELEPHONE NOT TO SCALE



01 LOW VOLTAGE ELEVATION - IN-WALL RACEWAY NOT TO SCALE

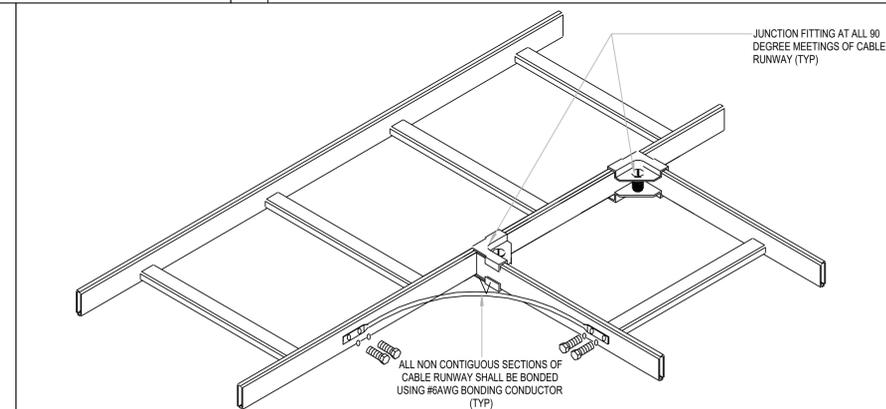
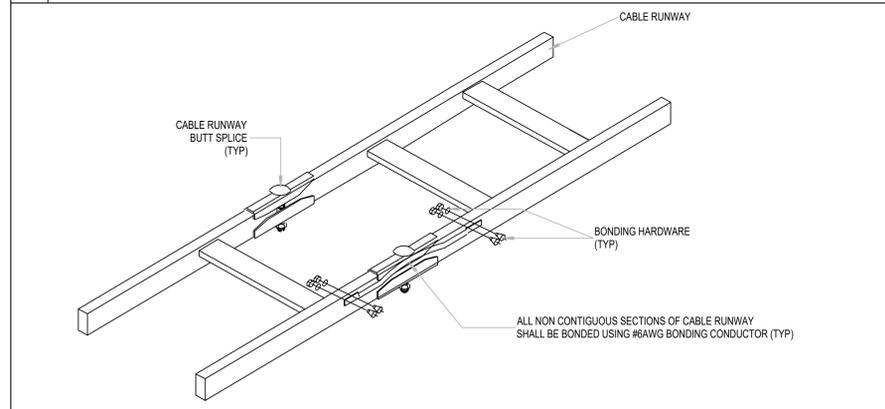


06 DOUBLE DOOR SECURITY & ACCESS CONTROL NOT TO SCALE



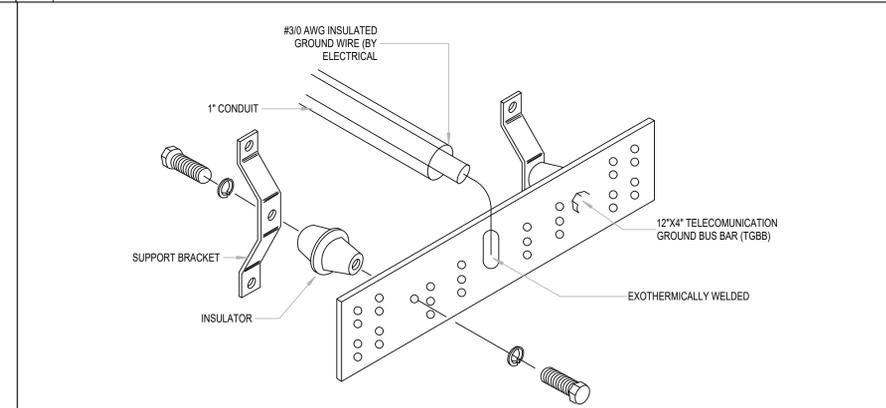
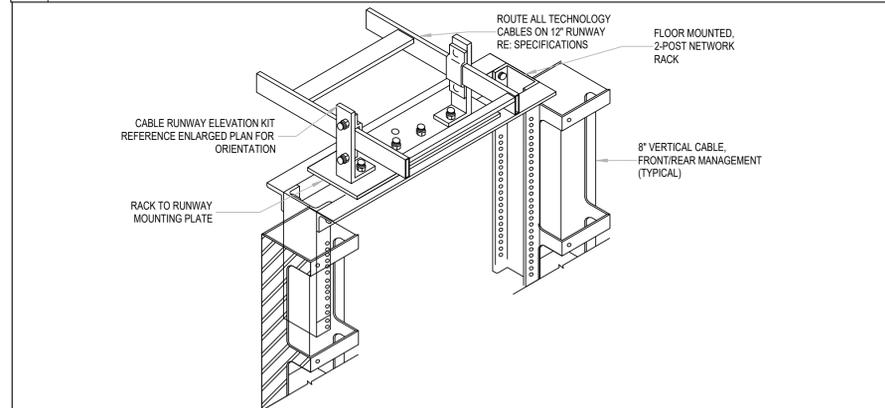
01 FIBER ENCLOSURE/ COPPER PATCH PANEL LABELING DETAIL NOT TO SCALE

02 CABLE RUNWAY - GROUNDING AND BONDING NOT TO SCALE



03 CABLE RUNWAY - BONDING AND BUTT SPLICE NOT TO SCALE

04 CABLE RUNWAY - JUNCTION AND BONDING NOT TO SCALE



05 RACK TO RUNWAY DETAIL NOT TO SCALE

06 TELECOMMUNICATION GROUNDING BUS DETAIL NOT TO SCALE

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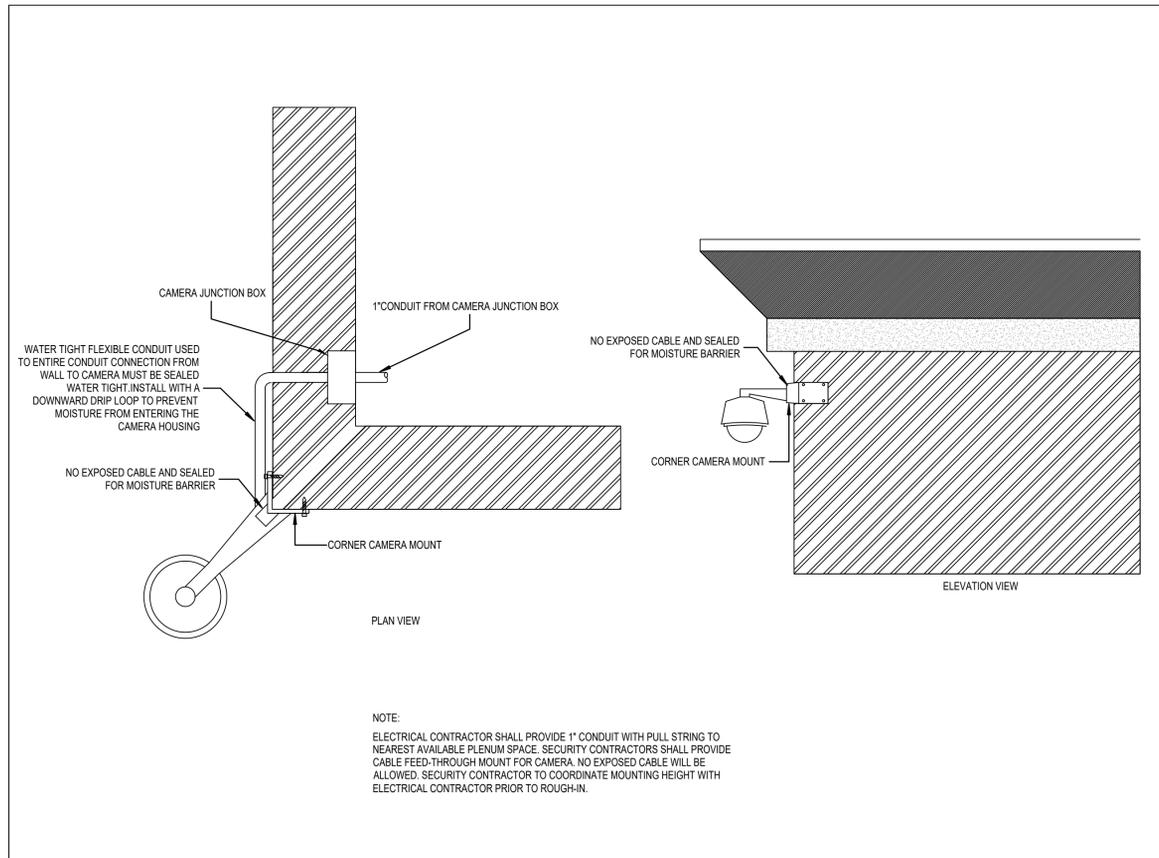
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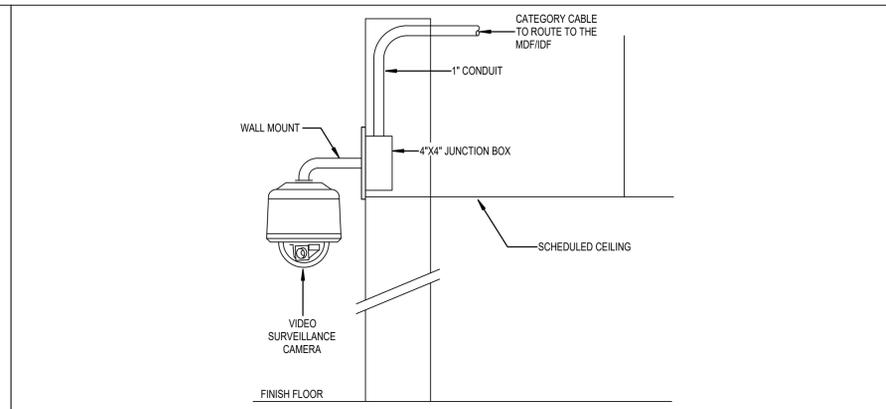
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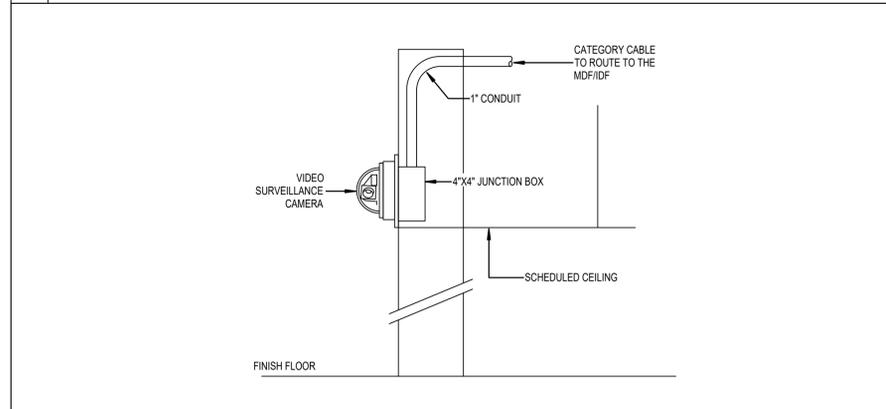
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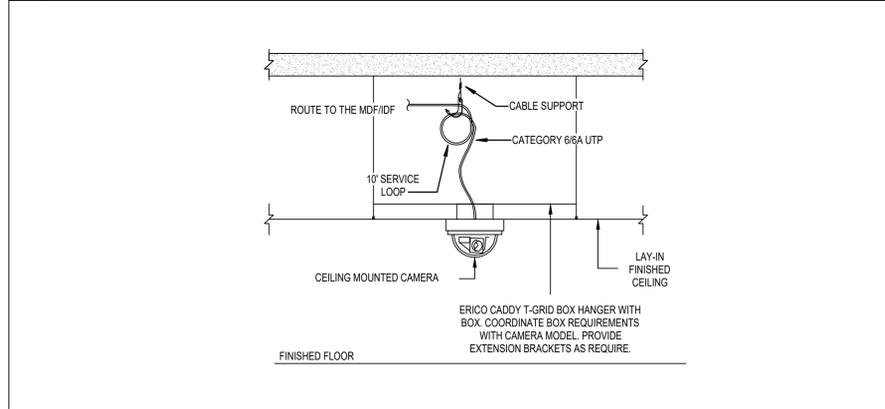
01 CORNER MOUNTING DETAIL NOT TO SCALE



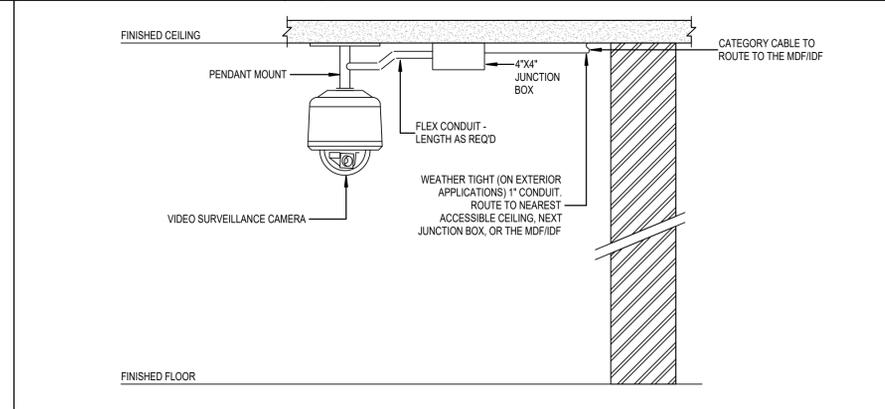
03 INTERIOR WALL MOUNTED DOME CAMERA NOT TO SCALE



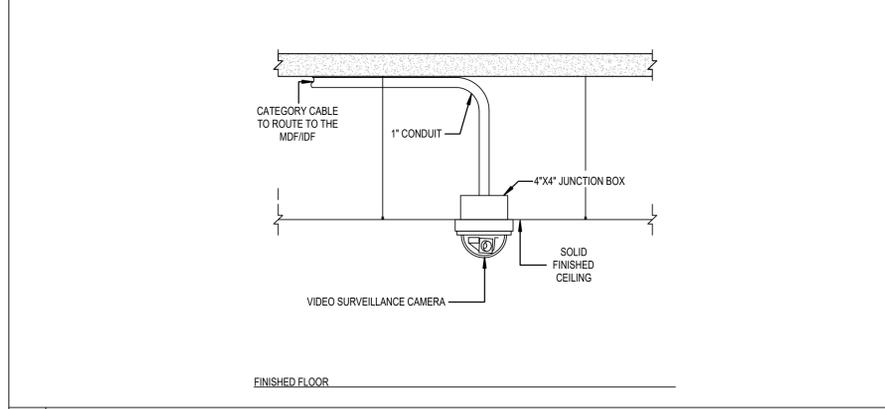
02 INTERIOR WALL MOUNT CAMERA-VERTICAL NOT TO SCALE



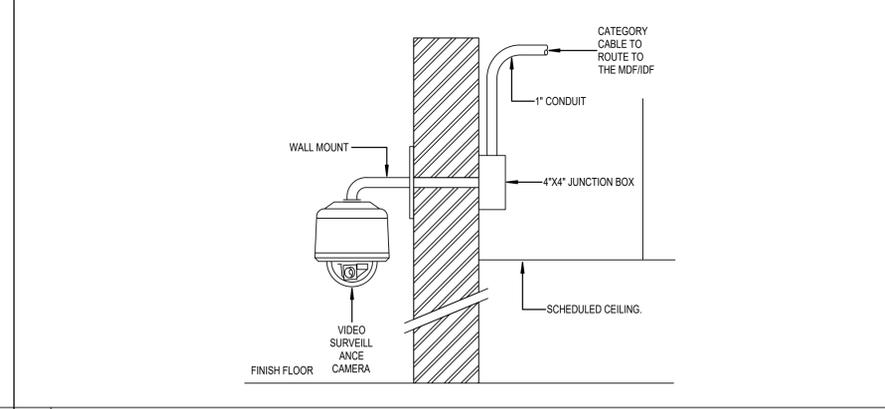
04 INTERIOR LAY-IN CEILING MOUNTED CAMERA NOT TO SCALE



05 EXT./INT. PENDANT MOUNTED DOME CAMERA NOT TO SCALE



06 EXTERIOR/INTERIOR SOLID CEILING MOUNT CAMERA NOT TO SCALE

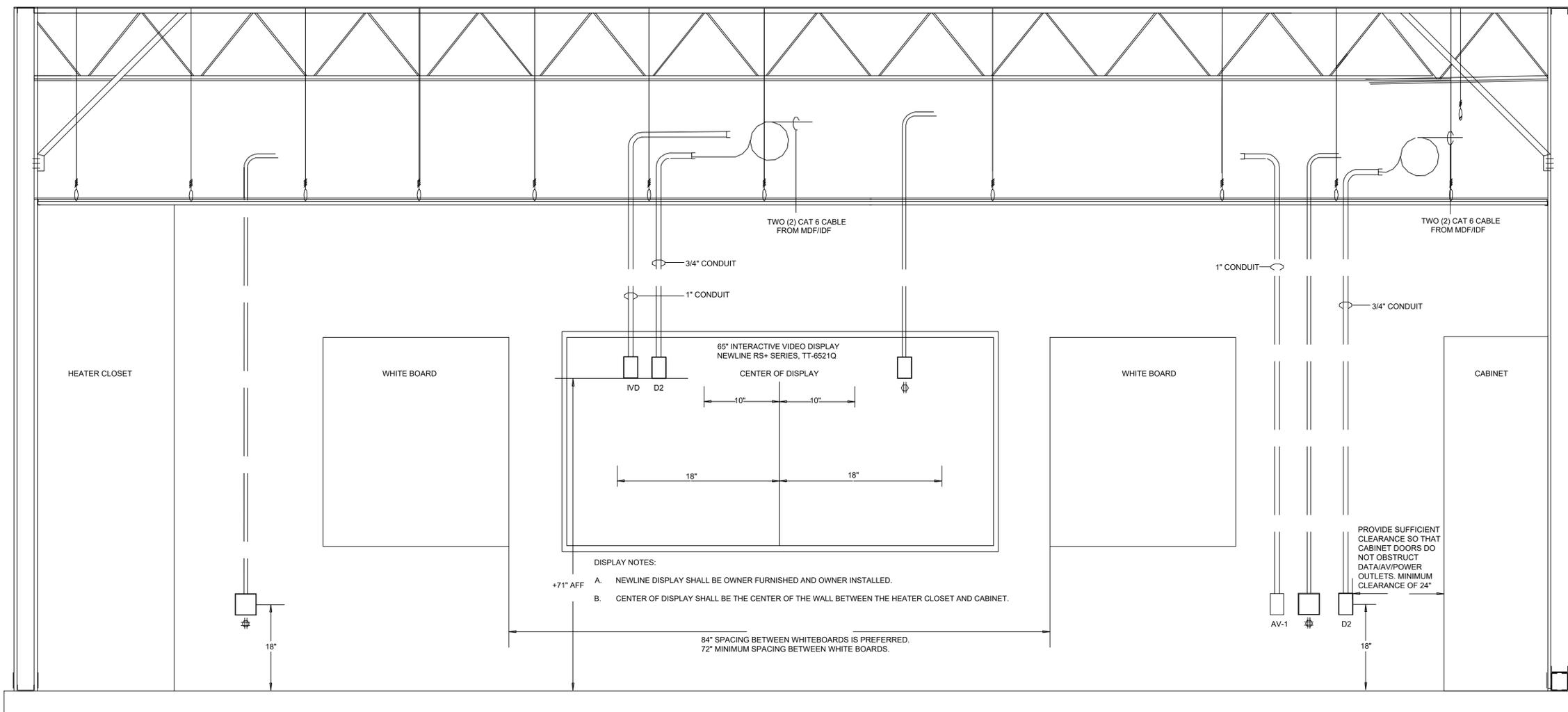


07 EXTERIOR WALL MOUNTED DOME CAMERA NOT TO SCALE

08 NOTES NOT TO SCALE

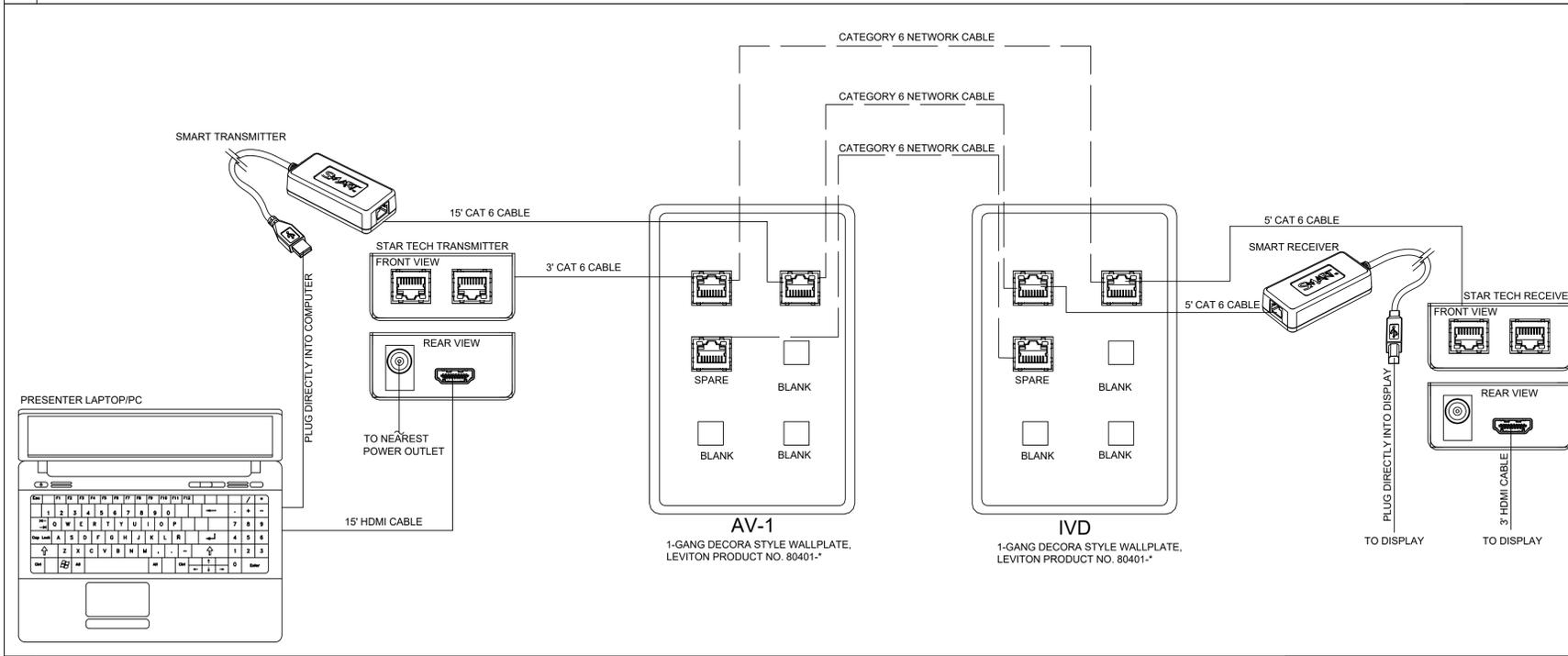
GENERAL NOTES:
A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS AND BACK BOXES. CONDUITS SHALL ROUTE TO THE NEAREST, ACCESSIBLE PLENUM SPACE.
B. ALL WALL, CORNER, PENDANT, AND UNDER CANOPY MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE OWNER AND SECURITY CONSULTANT PRIOR TO ROUGH-IN.
C. SECURITY CONTRACTOR SHALL PROVIDE CAMERAS, MOUNTING HARDWARE, AND ANY OTHER COMPONENTS AND/OR HARDWARE REQUIRED FOR A COMPLETE INSTALLATION.
D. REFERENCE VIDEO SURVEILLANCE CAMERA SCHEDULES, FLOOR PLANS, AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
E. CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

08 NOTES NOT TO SCALE



01 TYPICAL TECHNOLOGY WALL PRESENTATION - JUNIOR HIGH AND HIGH SCHOOL

NOT TO SCALE



02 TYPICAL 'IVD' 'AV-1' OUTLET DETAIL

NOT TO SCALE

03 NOTES

CONTRACTOR TO SUPPLY THE FOLLOWING FOR EACH ROOM

- (6) LEVITON 61110-RG6 (USE T-568B WIRING METHOD)
- (2) LEVITON 41080-6WP FACEPLATE. UNUSED PORTS SHALL BE BLANKED OFF.
- (1) 3' CAT 6 PATCH CORD (GREY IN COLOR)
- (2) 5' CAT 6 PATCH CORD (GREY IN COLOR)
- (1) 15' CAT 6 PATCH CORD (GREY IN COLOR)
- (1) 3' HDMI CABLE
- (1) 15' HDMI CABLE
- (1) SMART CAT5-XT-1100 USB EXTENDER
- (1) STAR-TECH TAA-ST121SHD50 HDMI EXTENDER

CONTRACTOR TO CONNECT PATCH CORDS/HDMI CABLES AND EXTENDERS IN EACH ROOM. CONTACT MOORE PUBLIC SCHOOLS TECHNOLOGY DEPARTMENT FOR CONFIGURATION 405-735-4001.

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SYSTEMS SPECIFICATIONS

Table with 2 columns: Requirements and Test. Rows include Structured Cabling (Horizontal Cabling), Communications Backbone Cabling, and Cable Installation. Requirements include cable types (Cat6, Cat6B), plenum ratings, and termination standards. Test requirements include pulling tensions and bend radii.

Table with 2 columns: Requirements and Test. Rows include Ladder racking, Power protection power strips, Uninterruptible Power Supply (UPS), Free standing racks, Cable management, Copper and Fiber patching panels, and Quality Assurance. Requirements include racking standards, UPS specifications, and installation guidelines.

Table with 2 columns: Requirements and Test. Rows include Equipment rack, Copper Patch panels, Horizontal cable management, Vertical cable management, and Optical fiber patch panel / enclosure. Requirements include rack specifications, patch panel standards, and cable management details.

Table with 2 columns: Requirements and Test. Rows include Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation), Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation), Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation), and Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation). Requirements include intercom system specifications, installation procedures, and equipment details.

Table with 2 columns: Requirements and Test. Rows include Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation), Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation), Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation), and Moore Public Schools Intercom System Specifications (Part 1 - Equipment, Part 2 - Installation). Requirements include intercom system specifications, installation procedures, and equipment details.

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SYSTEMS SPECIFICATIONS

Moore Public Schools Clock System Specifications cont.

1.02 Systems Installation

- All devices shall be mounted according to the manufacture's specifications.
- All Ceiling mounted devices shall be mounted on non-stainable ceiling tiles
- All devices shall be properly adjusted and tested prior to job completion.
- All extra wire taps shall be insulated.
- Protective grommets shall be installed on all conduits to protect wire.
- All wire shall be run in J hooks above ceiling with a minimum space of 4" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed.
- All wire ran between building shall be in conduit and shall be direct burial cable. It shall be a minimum of 5 conductor 18 AWG copper and shall have lightning suppression installed at building entry.
- Installer shall supply the electrical and/or masonry contractors with specialty back boxes such as clock recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.
- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

1.03 Quality Assurance

1.03.01 Qualifications

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.
- System installation shall meet all applicable Local/State codes and safety requirements where project is located.
- All products shall be new and un-used in original packaging.

1.03.02 Bidder/Installer Qualifications

- Bidding contractor shall have a minimum of 5 years experience installing school intercom systems.
- Bidding contractor shall be able to provide insurance at the request of the owner.

1.04 Delivery, Storage, and Protection

- Contractor shall ensure that materials delivery to work area shall be coordinated with construction site manager responsible for materials distribution to all trades.
- Contractor is responsible for all materials, tools and vehicles left on the job site.
- Follow Manufacturer's recommendations for handling of materials.

1.05 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.06 Warranty

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.

Part 3 - Execution

3.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

3.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

3.04 Schedules

- Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.
- It is recommended that the Contractor schedule closely with any other systems contractor to ensure turnover date is met.

- Contractor bidding will supply the electrical and/or masonry contractors with any specialty back boxes such as clock recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.

1.04 Submittals

1.04.01 Prior to installation

- Show compete map of system design for approval by Owner.

End of Section

Clock System Installation Completion Check List

Part 1 - General

1.01 Section Includes

- Clock System Completion Check List

1.02 Completion Check List

- All Clocks have been tested for proper operation and synchronization.

End of Section

Moore Public Schools Security System Specifications

Part 1 - General

2.01 Manufacturers

- Security System Manufacturer shall be DSC or DMP. See plans for the specific manufacturer required. (No Substitutions)
- Installer shall be certified by manufacturer to install & program the specified systems. (No Substitutions)
- Peripheral device Manufacturers shall be according to equipment list. (No Substitutions)
- Cable Manufacturer shall be Genesis. (Or Equivalent)

Security Systems Equipment

- Security alarm control shall be DSC Model # PC4020 or DMP Model # XR550NL-G. (No Substitutions)
- Security alarm control communicator shall be DSC Model # T-LinkTL250. DPM N/A. (No Substitutions)
- Security alarm keypad shall be DSC Model # LCD4501 or DMP Model # 7873. (No Substitutions)
- Security alarm keypad for all kitchen locations shall be DSC Model # LCD4501 or DMP Model # 7073. (No Substitutions)
- Security alarm 8 zone hardwire expander shall be DSC Model # PC4108 or DMP Model # 714-8. (No Substitutions)
- Security alarm 16 zone hardwire expander shall be DSC Model # PC4116 or DMP Model # 714-16. (No Substitutions)
- Security alarm power supply shall be DSC Model # PC4204 or DMP systems = Altronix Model # SMP3PMCTX. (No Substitutions)
- Security alarm power supply cabinet shall be DSC Model # PC4051C. DMP N/A. (No Substitutions)
- Security alarm cabinet locks shall be DSC Model # L1 or DMP Model # 301. (No Substitutions)
- Security alarm wireless receiver shall be DMP Model # 1100XH, DSC N/A
- Security alarm wireless transmitter shall be DMP Model # 1103, DSC N/A
- Security alarm 35x35" motion detector shall be Honeywell Model # DT-8035. (No Substitutions)
- Security alarm 50"x60" motion detector shall be Honeywell Model # DT-8050. (No Substitutions)
- Security alarm window glass break sensor shall be Honeywell Model # FG-730. (No Substitutions)
- Security alarm hold-up button shall be Potter HUSK-20
- Security alarm door contact shall be GE Model # 1076D-M. Double Pole Double Throw for all doors (No Substitutions)
- Each single door or double door shall be wired with 4 conductor wire.
- DMP systems shall be wired with 2 zones per single door or double door. One zone for Security alarm and one zone for "Door Held Open Alert"
- Security alarm C channel door magnets shall be GRI Model # MC180
- Security alarm surface window contact shall be Aleph Model # PS-1541. (Or equivalent approved by MPS)
- Security alarm overhead door & roof hatch contact shall be Amseco Model # ODC-59A or for rail mount applications Interlogix GEZ2315AL. (No Substitutions)
- Security alarm indoor siren shall be Ademco Model # Wave2EX. (No Substitutions)
- Security alarm outdoor siren shall be ATW Model # DS301SET. (No Substitutions)
- Security alarm outdoor strobe shall be Amseco Model # SL401C. (No Substitutions)

1.01 Systems Installation

- Keypad zones shall not be used. All zones shall wire to the main control or zone expanders.
- Installer shall be certified by manufacturer to install & program the specified systems.
- Installer shall perform all programming required to complete the installation. Moore Public Schools shall not be required to assist in any part of the installation or programming.
- All alarm junctions and or splices shall be soldered and insulated.
- All circuits and wiring shall be labeled at all terminating ends.
- All devices shall be mounted according to the manufacture's specifications.
- All devices shall be properly adjusted and tested prior to job completion.
- All DSC 4108 & 4116 zone expanders shall be installed with a DSC PC4204 power supply and DSC PC4051C with L1 lock
- All DMP 714-8 & 714-16 zone expanders shall be installed with a power supply Altronix Model # SMP3PMCTX keyed with DMP Model # 301.
- All cabinets shall be labeled outside with their corresponding module and zone numbers and installed with lock.
- All cabinets shall be labeled inside with module number by the corresponding module and zone list definitions.
- If a new DSC main control panel is required, it shall have a T-LinkTL250 installed
- All new DSC or DMP main control panels shall have a Cat 6 cable ran back to the nearest IDF for network connectivity.
- Each expansion cabinets shall have two non-shielded 16 gauge 4 conductor cables ran from the main control to the expansion cabinet.
- All keypads shall be wired individually back to new power supply.
- All sirens shall be wired individually and connected to new power supply.
- All devices such as door contact (double doors wire as one), motion detectors, glass break detectors, etc. shall be hardwired individually on separate zones with end of line resistors at the devices.
- All devices such as motion detectors, glass break detectors, door contacts, keypads, sirens, etc. shall be labeled with their corresponding module and or zone number. Label shall be visible from the floor.
- All motion detectors shall be sealed to prevent air and insects from entering.
- All steel doors shall have wide gap contacts installed.
- All door contacts shall be recessed, and door magnets shall be glued in place.
- All holdup buttons shall be connected via wireless.
- Protective grommets shall be installed on all conduits and enclosures to protect wire.
- All devices shall be wired with **NON-shielded** cable.
- All panels, power supplies and modules shall be grounded.
- All roof hatches shall have an alarm contact installed and connected to the alarm system.

- All wire shall be run in J hooks above ceiling with a minimum space of 4" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck.
- All wire visible from the finished floor shall be covered in decorative wire molding.
- All wire ran between building shall be in conduit and shall be **non-shielded** direct burial cable. It shall be a minimum of 4 conductor 16 AWG copper and shall have lightning suppression installed at building entry.
- Installer shall have a commercial burglar technician on the job site at all times during installation.
- Installer will work closely with the electrical and/or masonry contractors to ensure conduit, back boxes, door frame access conduit, etc. are in the proper locations and accessible.

- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

1.02 Products Installed but not Supplied Under This Section

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work area. EMT or Conduit for pathways shall have no more than two 90 degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of Fire cabling.
- All core holes and EMT sleeves between floors for the routing of Fire cabling.
- Back boxes for the mounting of Fire Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Fire Cabling.

1.03 Quality Assurance

1.03.01 Qualifications

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.
- System installation shall meet all applicable Local/State codes and safety requirements where project is located.
- All products shall be new and un-used in original packaging.

1.03.02 Bidder/Installer Qualifications

- Bidding contractor shall be a local licensed Commercial Burglar Alarm Company with licensed Commercial Burglar Alarm technician(s) on staff.
- Bidding contractor shall be certified by manufacturer to install & program the specified systems.
- Bidding contractor shall perform all programming required to complete the installation. Moore Public Schools shall not be required to assist in any part of the installation or programming.
- Bidding contractor shall have at least one year experience installing DSC/DMP equipment.
- Bidding contractor shall have a minimum of 5 years experience installing commercial burglar alarms.
- Bidding contractor shall be able to provide insurance at the request of the owner.
- Bidding contractor shall have a commercial burglar technician on the job site at all times during installation.

1.04 Delivery, Storage, and Protection

- Contractor shall ensure that materials delivery to work area shall be coordinated with construction site manager responsible for materials distribution to all trades.
- Contractor is responsible for all materials, tools and vehicles left on the job site.
- Follow Manufacturer's recommendations for handling of materials.

1.05 Project Conditions

1.05.01 Environmental Requirements

- Contractor shall ensure that any pollutants produced during the Work are disposed off according to local, state or national regulations. Follow the most stringent guidelines.
- It is preferred that the Contractor recycle any used or un-used components during the course of the construction project.

1.06 Sequencing

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

1.07 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.08 Warranty

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure. (1 year warranty shall begin at job completion)

Part 2 - Products

2.02 Source Quality Control

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

Part 3 -

3.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

3.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Cleaning

- Contractor shall sweep and mop the floors of all equipment rooms or connection point closets prior to turnover to the Owner.

3.04 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

3.05 Schedules

- Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.
- It is recommended that the Contractor schedule closely with any other systems contractor to ensure turnover date is met.
- Contractor bidding will work closely with the electrical and/or masonry contractors to ensure conduit, back boxes, door frame access conduit, etc. are in the proper locations and accessible.

End of Section

1.02 Submittals

1.03.01 Prior to installation

- Show compete map of system design for approval by Owner.

Security System Installation Completion Check List

Part 1 - General

1.01 Section Includes

- Security System Completion Check List

1.02 Completion Check List

- A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Jack Phillips with MPS.
- All panel programming has been checked and is correct.
- Panel(s) has been tested for proper operation.
- All zones have been tested to verify proper description at keypad.
- All zones have been tested to verify proper reporting to the monitoring station.

- All zones have been tested to verify they are in their proper partition(s).
- All sirens and strobes have been tested for proper operation.
- All motion detectors have been adjusted for proper sensitivity and have been walk tested.
- All motion detectors have been sealed to prevent air and insects from entering.
- All glass break detectors have been adjusted for proper sensitivity and tested.
- All cabinets are labeled on the outside with module numbers and zone numbers.
- All cabinets are labeled on the inside with module numbers by the corresponding module and zone descriptions.
- All user codes have been programmed and tested for proper partition access.
- The monitoring station has the correct account information such as call list, zone descriptions etc.

End of Section

1.09 References

- NFPA-70 National Electrical Code 2008 edition
- NFPA-72 National Fire Alarm Code
- UL 1666 - Standard for Safety of Flame Propagation Height
- NFPA 262 - Flame Travel and Smoke of Wires and Cables
- Local Authority Having Jurisdiction

1.10 Definitions

- AWG - American Wire Gauge
- BICSI - Building Industry Consulting Service International
- EIA - Electronics Industry Alliance
- FCC - Federal Communications Commission
- NECA - National Electrical Contractors Association
- NFPA - National Fire Protection Agency
- UL - Underwriters Laboratory

Access Control System Specifications

Access Control Equipment

Part 1 - Manufacture

- Access Control Manufacturer shall be Keyscan. (No Substitutions)
- Peripheral device Manufacturers shall be according to equipment list. (No Substitutions)
- Cable Manufacturer shall be Genesis. (Or Equivalent)

1.01 Access Control Equipment Description

- Access Control System Manufacture shall be Keyscan (No Substitutions)
- Access Control Management Software = Aurora (This software is already installed and in use. It is listed for information purposes only)
- Reader Control Panels shall be (No Substitutions) Keyscan CA 4500 = 4 Door Keyscan CA 8900 = 8 Door

- Each Reader Control Panel shall be equipped with (2) 16VAC 40VA Transformer
- Each Reader Control Panel shall be equipped with (1) 12V 7AH Battery
- One 2,4 or 8 Door Reader Control Panel per site shall be equipped with (1) Keyscan Netcom2p module. If the site has an existing 2,4 or 8 Door Control Panel with a Netcom2P already installed, then a Netcom 2P is not needed and CIM or CIM-Link modules shall be used to connect the new Control Panel to the existing Control Panel.
- All Reader Control Panels shall be linked together with either CIM or CIM-Link modules.

- Each new Reader Control Panel shall be capable of 4 doors minimum

Card Readers shall be (No Substitutions)

- HID 40NKS00000000 Signo Wall Mount Reader (for use in all locations except where mullion mount reader size is required to fit)
- HID 20NKS00000000 Signo 20 Mullion Reader (For use on mullion mount locations where single gap reader is too large.
- ALL READERS REQUIRE Z26 STR OAS WIRE.

- Access Control Strikes and locks shall be (No Substitutions unless approved by Moore Public Schools)**
- RCI 0163X32D ½ inch Rim(ONLY USE IF ¾ INCH RIM WILL NOT FIT)
- RCI 0162X32D ¾ inch Rim
- RCI F0162X32D ¾ inch Rim Fire Rated
- RCI F2164 RECESSED ALL-IN-ONE STRIKE

- Where storm doors are installed, install compatible power motor and power supply to activate door hardware unless installed by door contractor.

- Egress Motions shall be (No Substitutions) BOSCH DS160 OR HONEYWELL IS310

- Door Contacts shall be GE Model # 1076D-M Double Pole Double Throw (To be utilized for Access Control and Security Alarm) (See security alarm specs)

- DOOR LOCK RELEASE BUTTON SHALL BE (NO SUBSTITUTIONS)**
- RCI PART # 909S ROCKER SWITCH

- Power Supply for locking hardware
- **Power supply in Keyscan Controller is for the Control and Readers only.
- Power Supplies shall be sized to meet requirements of Strikes and locks with a maximum of 80% amp load.
- Power Supply shall have form "C" contacts for supervision that is connected to Keyscan Control Aux Input.
- 24 VDC Securiton- AcouPower- AQM20-8C/16C, AQDS-8C or equal.

2.01 Systems Installation

- All junctions and or splices shall be soldered and insulated.
- All circuits and wiring shall be labeled at all terminating ends.
- All devices shall be mounted in accordance to the manufactures specifications.
- All devices shall be properly adjusted and tested prior to job completion.
- All controllers shall be labeled outside with their corresponding modules and installed with lock.
- All controllers shall have a Cat 6 network cable Blue in color ran from the nearest network cabinet and labeled with drop number.
- All card readers shall be labeled with their corresponding reader number.
- All doors with access control shall have contacts installed for door status indication. Steel doors shall have wide gap door contacts installed.
- All doors with access control shall have egress motions installed to allow system to detect proper egress. (including doors with panic exit hardware.)
- Protective grommets shall be installed on all conduits to protect wire.
- All panels, power supplies and modules shall be grounded.

- All wire shall be run in J hooks above ceiling with a minimum space of 6" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck.
- All wire visible from the finished floor shall be covered in decorative wire molding.
- All wire ran between building shall be in conduit and shall be direct burial cable.
- Installer shall have a licensed Access Control technician on the job site at all times during installation.
- Installer will work closely with the electrical and/or masonry contractors to ensure conduit, back boxes, door frame access conduit, etc. are in the proper locations and accessible.
- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

3.01 Bidder/Installer Qualifications

- Bidding contractor shall be a local licensed Access Control Company with licensed Access Control technician(s) on staff.
- Bidding contractor shall have at least one year experience installing Keyscan Access Control Systems.
- Bidding contractor shall have a minimum of 5 years experience installing commercial Access Control Systems.
- Bidding contractor shall be able to provide insurance at the request of the owner.
- Bidding contractor shall have a commercial Access Control technician on the job site at all times during installation.

3.01.1 Submittals

3.01.2 Prior to installation

- Show compete map of system design for approval by Owner.

3.01.3 Prior to final acceptance

- Provide a soft CAD copy As-Built showing layout of Controller Panel, Card Readers, Power Supplies and all mounted equipment upon Substantial Completion.
- Ensure all warranties specify that the Owner is entitled to all rights guaranteed by the warranty for various components.

3.02 Quality Assurance

3.02.1 Qualifications

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.
- System installation shall meet all applicable Local/State codes and safety requirements where project is located.
- All products shall be new and un-used in original packaging.

Access Control Installation Completion Check List

Part 4 - General

4.01 Section Includes

- Access Control System Completion Check List

4.02 Completion Check List

- A map of the entire system showing device numbers and wire routes has been left inside the main controller panel and a copy has been given to Rodney Cobb with MPS.
- All system programming has been checked and is correct.
- Panel(s) has been tested for proper operation.
- All card readers are labeled with reader number and have been tested to verify proper operation.
- All user card and key fobs have been programmed into system and tested to verify proper operation.
- All egress motion detectors have been adjusted for proper sensitivity and have been walk tested.
- All controllers are labeled on the outside with module numbers.
- All controllers are labeled on the inside with module numbers by the corresponding module.

Moore Public Schools Video Intercom Door System Specifications

MANUFACTURE

AVIGILON (NO SUBSTITUTIONS).

AVIGILON REQUIRED EQUIPMENT

3.0CH4VIR01-IR

- 3.0 MP; H4 Video Intercom; WDR;LightCatcher; Day/Night; 1.83mm f2.4; Integrated IR; Recessed Mount

H4VI-AC-RELY1

- Safety Relay for H4 Video Intercom

H4VI-MT-SURF1

- Surface mount adapter for H4 Video Intercom

ACC7-ENT

- ACC 7 Enterprise camera channel license

INSTALLATION

- Video Intercom system requires a Cat 6 network drop ran to the nearest IDF
- Video Intercom system requires an 18 gauge 4 conductor cable ran between the video intercom station and the entry door Keyscan controller unit. MPS to have final determination of camera location and field of view) (Call Jack Phillips for final location and view phone 473-5225)
- Each installed Video Intercom System requires a license.
- All network drops shall be connected with patch cords to a switch at each rack location.
- No Substitutions.

Horizontal Cabling

Requirements

SYSTEMS SPECIFICATIONS

4.03 Products Installed but not Supplied Under This Section

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work or Conduit for pathways shall have no more than two 90 degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of cabling.
- All core holes and EMT sleeves between floors for the routing of cabling.
- Back boxes for the mounting of Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Cabling.

4.04 References

- NFPA-70 National Electrical Code 2008 edition
- NFPA-72 National Fire Alarm Code
- UL 1666 - Standard for Safety of Flame Propagation Height
- NFPA 262 - Flame Travel and Smoke of Wires and Cables
- Local Authority Having Jurisdiction

4.05 Definitions

AWG - American Wire Gauge
 BICSI - Building Industry Consulting Service International
 EIA - Electronics Industry Alliance
 FCC - Federal Communications Commission
 NECA - National Electrical Contractors Association
 NFPA - National Fire Protection Agency
 UL - Underwriters Laboratory

4.06 Delivery, Storage, and Protection

- Contractor shall ensure that materials delivery to work area shall be coordinated with construction site manager responsible for materials distribution to all trades.
- Contractor is responsible for all materials, tools and vehicles left on the job site.
- Follow Manufacturer's recommendations for handling of materials.

4.07 Project Conditions

4.07.1 Environmental Requirements

- Contractor shall ensure that any pollutants produced during the Work are disposed off according to local, state or national regulations. Follow the most stringent guidelines.
- It is preferred that the Contractor recycle any used or un-used components during the course of the construction project.

4.07.2 Field Measurements

- Contractor shall coordinate with electrical engineer on project that the main electrical service ground has a resistance to earth of less than 5 ohms.
- Contractor shall ensure that all field testers have been calibrated from the Manufacturer within 1 year.
- All field test results will be documented and submitted to Moore Public Schools, Technology Department.

4.08 Sequencing

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

4.09 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

4.10 Warranty

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure. (1 year warranty shall begin at job completion)

4.11 Source Quality Control

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

Part 5 -

5.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

5.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

5.03 Cleaning

- Contractor shall sweep and mop the floors of all equipment rooms or connection point closets prior to turnover to the Owner.

5.04 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

5.05 Schedules

- Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.
- It is recommended that the Contractor schedule closely with any other systems contractor to ensure turnover date is met.
- Contractor bidding will work closely with the electrical and or masonry contractors to ensure conduit, back boxes, door frame access conduit, etc. are in the proper locations and accessible.

End of Section

**Moore Public Schools
Fire System Specifications SK Protocol Only**

Part 1 - General

2.01 Manufacturers

- Fire System Manufacturer shall be Silent Knight.
- (No Substitutions)
- Notification appliance Manufacturer shall be System Sensor. (No Substitutions)
- Device Manufacture shall be as specified in equipment description. (No Substitutions)
- Cable Manufacturer shall be Genesis. (Or Equivalent)

1.03 Fire Systems Equipment Description

- NOTE:** Contractor shall use SK Protocol devices. If location has existing SD Protocol devices, contractor shall replace all SD Protocol devices with SK Protocol devices. Contractor shall not combine SD & SK protocol devices to one system.
- Fire alarm control shall be Silent Knight Model # 6820XL or 6820EVS (If voice evac is required). (No Substitutions) If location has an existing 5820XL, contractor shall replace with a 6820XL or 6820EVS.
- Fire Alarm signaling line circuit expander shall be Silent Knight Model # 6815. (No Substitutions) If location has existing 5815XL, contractor shall replace with 6815 to support SK Protocol devices. Contractor shall not combine SD & SK protocol devices to one system.
- Fire alarm distributed power module NAC Expansion shall be Silent Knight SK-PS6 / SK-PS10 or Fire-Life Model #s FL-PS6 / FL-PS10. (No Substitutions)
- Fire alarm intelligent power supply shall be Silent Knight Model # 5895XL. (No Substitutions)
NOTE: The 5895XL NAC circuits will not sync with the main control panels NAC circuits. If new NAC circuit synchronization is required with existing NAC circuits, use the SK-PS6/FL-PS6 or SK-PS10/FL-PS10
- Fire alarm remote Annunciator shall be Silent Knight Model # 5860 (Grey) and surface mount trim ring 5860TG (Grey) shall be used if surface mounted. (No Substitutions)
- Fire alarm addressable manual pull station shall be Silent Knight Model # SK-PULL-DA. (No Substitutions)
- Fire alarm addressable photoelectric smoke detector shall be Silent Knight Model # SK-PHOTO-W. (No Substitutions)
- Fire alarm addressable heat detector shall be Silent Knight Model # SK-HEAT-W. (No Substitutions)
- Fire alarm base shall be Silent Knight Model # B300-6. (No Substitutions)
- Smoke Detectors in areas that require a CO Detector shall be SK-FIRE-CO-W. (No Substitutions)
- Fire alarm addressable input module shall be Silent Knight Model # SK-MONITOR or SK-MONITOR-2. (No Substitutions)
- Fire alarm addressable relay module shall be a Silent Knight Model # SK-RELAY. (No Substitutions)
- Fire alarm SLC line isolator shall be Silent Knight Model # SK-ISO. (No Substitutions)
- Fire alarm Duct detectors and Duct Detector Remote Test Stations shall be Silent Knight Model #s SK-DUCT and RTS151KEY. If a Form-C relay is required, please add an SK-RELAY. (No Substitutions)
- Fire alarm Horn / Strobe signaling device shall be System Sensor Model # P2WL. (Model PC2WL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Strobe signaling device shall be System Sensor Model # SWL. (Model SCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm strobe synch module shall be System Sensor Model # MDL3. (Not needed on version 9 panels or newer) (No Substitutions)
- Fire alarm Outdoor strobe signaling device shall be System Sensor Model # P2RK. (No Substitutions)
- Fire alarm Speaker / Strobe signaling device shall be System Sensor Model # SPSWL. (Model SPSCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Speaker signaling device shall be System Sensor Model # SPWL. (No Substitutions)
- Fire alarm 50-watt Voice Evac expansion system shall be as needed Silent Knight SKE-450 (Single Zone), SKE-450-ZN4 (4 Zone) or SKE-450-ZN6 (6 Zone). (No Substitutions)

1.01 Systems Installation

- All fire alarm junctions and or splices shall be soldered and insulated.
- All Ceiling mounted devices shall be mounted on non-stainable ceiling tiles.
- All circuits and wiring shall be labeled at all terminating ends.
- All fire system wiring shall be RED in color and non-shielded.
- All devices shall be mounted according to the manufacture's specifications.
- All devices shall be properly adjusted and tested prior to job completion.
- All fire pulls shall be dual action.
- All Initiating Devices shall be labeled with their corresponding module and point number. Smoke detector label shall be on smoke detector and smoke detector base and be clearly visible from the finished floor.
- Each Initiating Device Circuits (IDC) shall have Line Isolator Modules installed at the SLC Head End.
- All Initiating Device Circuits (IDC) shall be wired Class B (NFPA Style B).
- All Initiating Device Circuits (IDC) shall be wired with minimum 18 AWG gauge red **NON-Shielded cable**.
- All duct detectors shall be connected to fire system and shall have remote test stations installed accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number.
- All duct detector ARM / AIM shall be installed adjacent to the remote test stations and shall be accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number. (ARM/AIM should not be needed when using SD505-DUCTR duct det.)
- All horn / strobes and strobes shall be synchronized.
- All Notification Appliance Circuits (NAC) shall be wired Class B (NFPA Style Y).
- All Notification Appliance Circuits (NAC) shall be wired with minimum 16 AWG gauge red **NON-Shielded cable**.
- Protective grommets shall be installed on all conduits to protect wire.
- All SBUS and SLC circuits shall be wired with red **NON-shielded cable**.

End of Section

- All wire shall be run in J hooks above ceiling with a minimum space of 6" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck.
- Main control panel shall have a CAT 6 cable ran between the main control and the phone company DMARC for monitoring purposes.
- All wire ran between building shall be in conduit and shall be **Non-shielded** direct burial cable. It shall be a minimum of 4 conductor 16 AWG copper. Wire shall have lightning suppression installed where it enters building.
- Installer shall have a commercial fire technician on the job site at all times during the installation.
- Installer shall supply the electrical and or masonry contractors with specialty back boxes such as remote annunciator recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.
- Follow and adhere to installation practices specified by the applicable NFPA 72 standards.
- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

1.02 Products Installed but not Supplied Under This Section

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work area. EMT or Conduit for pathways shall have no more than two 90-degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of Fire cabling.
- All core holes and EMT sleeves between floors for the routing of Fire cabling.
- Back boxes for the mounting of Fire Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Fire Cabling.

1.03 Quality Assurance

1.03.01 Qualifications

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.

System installation shall meet all applicable Local/State codes and safety requirements where project is located.

All products shall be new and un-used in original packaging.

1.03.02 Bidder/Installer Qualifications

- Bidding contractor shall be a local licensed Commercial Fire Alarm Company with licensed Commercial Fire Alarm technician(s) on staff.
- Bidding contractor shall have a minimum of one year experience installing Silent Knight Addressable fire panels.
- Bidding contractor shall have a minimum of 5 years experience installing commercial fire alarms.
- Bidding contractor shall be able to provide insurance at the request of the owner.
- Bidding contractor shall have a commercial fire technician on the job site at all times during the installation.

1.04 Sequencing

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

1.05 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.06 Warranty

- Contractor shall provide a 1-year parts and labor warranty against defective workmanship and/or system component failure. (1-year warranty shall begin at job completion)

Part 2 - Products

2.02 Source Quality Control

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

Part 3 -

3.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

3.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

End of Section

1.04 Submittals

1.04.01 Prior to installation

- Show complete map of system design for approval by Owner.

1.04.02 Prior to final acceptance

- Provide a soft CAD copy As-Built showing layout of panel, initiating devices, notification devices and all mounted equipment upon Substantial Completion.
- Ensure all warranties specify that the Owner is entitled to all rights guaranteed by the warranty for various components.

Fire System Installation Completion Check List

Part 1 - General

- Fire System Completion Check List

1.01 Completion Check List

- A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Jack Phillips with MPS.
- All panel programming has been checked and is correct.
- Panel(s) has been tested for proper operation.
- All zones have been tested to verify proper description at keypad.
- All zones have been tested to verify proper reporting to the monitoring station.
- All points have been tested to verify proper description at the keypad.
- All horn/strobes and strobes have been tested for proper operation.
- All smoke detectors have been tested and dust covers removed.
- All devices have been tested for proper operation.
- All cabinets are labeled on the outside with module numbers and point numbers.
- All cabinets are labeled on the inside with module numbers by the corresponding module and point descriptions.
- A list of all zone numbers and zone descriptions have been provided to Moore Public Schools for alarm monitoring purposes.

**Moore Public Schools - IP Camera Specifications
IP CAMERA MANUFACTURE IS AVIGILON (NO SUBSTITUTIONS).**

AVIGILON EQUIPMENT

INDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST

- 4.0C-H6A-D1-IR
- ACC7-ENT LICENSE - 1 per camera
- INDOOR MULTI-HEAD 2 HEAD CAMERA REQUIRED EQUIPMENT LIST
- 10.0C-H5DH-D01-IR
- ACC7-ENT LICENSE - 1 per camera

INDOOR FISHEYE CAMERA REQUIRED EQUIPMENT LIST

- 12.0C-H6A-FE-360-D01-IR
- ACC7-ENT LICENSE - 1 per camera

INDOOR MULTI-HEAD 3 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 9C-H5A-3MH (3x3MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- HSAMH-AD-DOME1
- HSAMH-DC-COVR1
- H4AMH-AD-IR1L1

INDOOR MULTI-HEAD 4 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 12C-H5A-3MH (4x3MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- HSAMH-AD-DOME1
- HSAMH-DC-COVR1

OUTDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST

- 6.0C-H6A-D01-IR
- ACC7-ENT LICENSE - 1 per camera

OUTDOOR MULTI-HEAD 2 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 16.0C-H6ADH-D01-IR
- NPTA-1201
- WLMT-1021
- ACC7-ENT LICENSE - 1 per camera

OUTDOOR MULTI-HEAD 3 HEAD CAMERA CORNER MOUNT REQUIRED EQUIPMENT LIST

- 15C-H5A-3MH (3x5MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- HSAMH-AD-PEND1
- HSAMH-DO-COVR1
- HSAMH-AD-IR1L1
- WLMT-1001
- CRNMT-1003

OUTDOOR MULTI-HEAD 3 HEAD CAMERA WALL MOUNT REQUIRED EQUIPMENT LIST

- 15C-H5A-3MH (3x5MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- HSAMH-AD-PEND1
- HSAMH-DO-COVR1
- HSAMH-AD-IR1L1
- WLMT-1001

CAMERA SERVER INFORMATION, CONTRACTOR TO PROVIDE THE FOLLOWING AT NEW BUILDINGS OR AS NEEDED TO ACCOMMODATE ADDITIONAL CAMERAS TO EXISTING SYSTEM:

- 1 - Dell Server part# NVR6-PRM-FORM-D-72TB-S22
- 1 - SFP fiber connector, part# NVR6-AINVR2-FORM-D-SFPPLUS-SR

INSTALLATION

- Install cameras on adjacent walls where possible. If it must be mounted on ceiling, it shall be on a water-resistant non-stainable ceiling tile. **MPS to have final determination of camera location and field of view (Call Jack Phillips for final location and view phone 473-5225)**
- Any cameras installed on ceiling shall be mounted on a water-resistant non-stainable ceiling tile. (BIDDING CONTRACTOR SHALL PROVIDE NON-STAINABLE TILE)
- Each installed camera needs a camera license.
- All network drops shall be connected with patch cords to a switch at each rack location.
- No Substitutions.

Horizontal Cabling Requirements

- See MPS Structured Cabling Specifications for camera network cabling installation, labelling and testing requirements.

Warranty

- Communications Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.
- Communications Contractor shall execute a Lifetime Applications Assurance Warranty for parts and labor to support stated applications from the connectivity Manufacturer.

End of Section

Audio Visual Systems for Instructional Spaces Specifications

Part 1 - General

1.01 Instructional Spaces

- Reference technology drawings and detail sheet T504 for classroom configuration and part numbers.

1.02 Special Spaces

- Reference technology drawings and one line diagrams.

1.03 Flat Panel Displays

- All non interactive Flat Panel displays shall be 43" Samsung BE Series.
- Bio Lab 37 displays shall be ceiling mounted.
- Career Tech 12 and Career Tech 15 displays shall be wall mounted 55" AFF to center of display.

End of Section



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date
revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

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Expiration Date : 6/30/2025
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