

ABBREVIATIONS:	
A	AMPERE
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANN	ANNUNCIATOR
AP	ACCESS POINT
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSTRUCTION SERVICE INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CATV	CABLE TELEVISION
CD	CANDELA
CFOI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CL	CENTER LINE
CO	CARBON MONOXIDE
DN	DOWN
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FTC	FIRE TERMINAL CABINET
GRC	GALVANIZED RIGID CONDUIT
G OR GB	GROUND BOX
IACP	INTRUSION ALARM CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
J OR JB	JUNCTION BOX
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MDP	MAIN DISTRIBUTION FRAME
MPOE	MINIMUM PONT OF ENTRY
(N)	NEW
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OSP	OUTSIDE PLANT
PVC	POLYVINYL CHLORIDE
RCDD	REGISTERED COMMUNICATION DISTRIBUTION DESIGNER
RCWY	RACEWAY
RM	ROOM
SR	SURFACE RACEWAY
UG	UNDERGROUND
UL	UNDERWRIGHTERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATT
WP	WEATHERPROOF

TECHNOLOGY SYMBOL LEGEND: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MANUFACTURER	PART NUMBER	NOTES / DETAIL REFERENCES
	(N) SURFACE MOUNTED CONDUIT	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) UNDERGROUND CONDUIT	N/A	N/A	N/A
	(N) MEDIUM CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM2300	GREY = EXISTING
	(N) HIGH CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM5400	GREY = EXISTING
	(N) CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) CONDUIT RISER	N/A	N/A	N/A
	(E) DATA RACK	EXISTING	EXISTING	N/A
	(E) GROUND BOX	N/A	N/A	N/A
	(N) JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) MINIMAL POINT OF ENTRY	EXISTING	EXISTING	N/A
	(E) INTRUSION KEYPAD	EXISTING	EXISTING	N/A
	(N) CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK/SPEAKER/MP MODULE COMBO BOX	RAULAND	SEE SHEET T703	N/A
	(N) CAT6A DATA DROP LOCATION - WALL MOUNTED SPEAKER/MP MODULE	RAULAND	SEE SHEET T703	N/A
	(N) CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/MP MODULE	RAULAND & LOWELL	SEE SHEET T703	N/A
	(N) CAT6A DATA DROP LOCATION	SEE 27 10 00	SEE 27 10 00	QTY. AS PER PLAN
	(N) CAT6A DATA DROP LOCATION (QTY = 2) - WIRELESS ACCESS POINT (T-BAR)	SEE 27 10 00	SEE 27 10 00	N/A
	(N) CAT6A DATA DROP LOCATION - EXTERIOR WIRELESS ACCESS POINT	SEE 27 10 00	SEE 27 10 00	N/A
	NETWORK SECURITY CAMERA (1X5MP SENSOR)	I-PRO	WV-S25500-V3L	N/A
	NETWORK SECURITY CAMERA (2X4MP SENSORS)	I-PRO	WV-U85402-V2L	N/A
	NETWORK SECURITY CAMERA (3X4MP SENSORS)	I-PRO	WV-S8543L	N/A
	NETWORK SECURITY CAMERA (4X4MP SENSORS)	I-PRO	WV-S8544L	N/A

PRE-CON MEETING REQUIREMENTS:

1. PRIOR TO BEGINNING ANY SITE WORK, INCLUDING DEMO, AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE LOW VOLTAGE DESIGNER. ANY SITE WORK COMMENCED PRIOR TO THIS MEETING SHALL BE AT THE CONTRACTOR'S SOLE RISK.

JOB SPECIFIC STANDARDS FOR LOW VOLTAGE:

SEE SPECIFICATIONS DIVISION 27 AND 28 FOR COMPLETE REQUIREMENTS.

1. CONDUIT BODIES, CONDULETS, PULLING ELBOWS, AND/OR "LB" FITTINGS ARE PROHIBITED IN ANY PATHWAY CONTAINING DATA CABLING (COPPER OR FIBER).

2. SINGLE HOLE CONDUIT STRAPS ARE PROHIBITED.

3. ALL WIRE AND CABLE PASSING THROUGH METALWORK SHALL BE SLEEVED WITH AN APPROPRIATE GROMMET OR BUSHING.

SYSTEM PROGRAMMING AND COMMISSIONING REQUIREMENTS:

1. THE DISTRICT WILL PERFORM ALL DATA NETWORK (CISCO) SWITCH PROGRAMMING. ALL OTHER PROGRAMMING/COMMISSIONING IS THE RESPONSIBILITY OF THE CONTRACTOR.

2. TO FACILITATE DATA NETWORK SWITCH PROGRAMMING BY THE DISTRICT, THE CONTRACTOR SHALL PROVIDE, NO LATER THAN 14 CALENDAR DAYS PRIOR TO CUTOVER, AN INVENTORY OF SWITCH PORTS THAT WILL BE UTILIZED BY THE TELECENTER SYSTEM. THIS SHALL INCLUDE ALL DATA DROPS, NEW AND EXISTING.

SCOPE OF WORK:

1. 1. THE CONTRACTOR SHALL PROVIDE A (N) RAULAND TELECENTER U INTERCOM SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL REWORK THE (E) IDF AND MDF LOCATIONS, INCLUDING INSTALLATION OF (N) OWNER-FURNISHED DATA NETWORK SWITCHES, AS NOTED.

3. THE CONTRACTOR SHALL PROVIDE AND PERFORM OTHER DATA NETWORK INSTALLATION AND REWORK AS NOTED.

4. SYSTEMS ON THIS PROJECT REQUIRE CERTIFIED INSTALLERS. CONTRACTOR SHALL COMPLY WITH ALL CERTIFICATION REQUIREMENTS AS A CONDITION OF BID.

5. ALL EQUIPMENT SHALL BE NEW AND CONTRACTOR FURNISHED, UNO.

6. AFTER CUTOVER TO NEW SYSTEMS, THE CONTRACTOR SHALL REMOVE OLD OR ABANDONED DATA NETWORK, AUDIOVISUAL, ANALOG TELEPHONE, ANALOG INTERCOM, ANALOG CLOCK, AND COAX CABLING AND DEVICES AS NOTED.

7. THE PROJECT WILL REQUIRE SWING AND/OR GRAVEYARD AND/OR WEEKEND AND/OR HOLIDAY WORK SCHEDULES IN ORDER TO MEET THE PROJECT REQUIREMENTS AND MINIMIZE DISRUPTION TO THE ACTIVE USE OF THE SITE.

8. THE CONTRACTOR SHALL CAREFULLY COORDINATE CUTOVERS AND ACTIVATION/COMMISSIONING OF NEW SYSTEMS WITH THE DISTRICT REPRESENTATIVE.

9. THE CLOCK/INTERCOM SYSTEM AND ALL DATA NETWORK SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES THAT SCHOOL IS IN SESSION.

10. PRIOR TO START OF CONSTRUCTION, CONTRACTOR TO PROVIDE DISTRICT REPRESENTATIVE WITH THREE (3) 12TB HARD DRIVES COMPATIBLE WITH (E) NVR SERVER:

MFG: AXIOM
PART NUMBER: 7XB7A00068-AX
CAPACITY: 12TB

11. PROVIDE AND INSTALL I-PRO CAMERAS AND COMPONENTS. SEAL AND WEATHER PROOF ALL EXTERIOR CAMERAS / PENETRATIONS.

12. PROVIDE DISTRICT REPRESENTATIVE WITH MAC ADDRESSES OF ALL (N) CAMERAS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO INSTALL. DO NOT CONNECT (N) CAMERAS TO DISTRICT NETWORK SWITCH WITHOUT PRIOR AUTHORIZATION FROM DISTRICT REPRESENTATIVE.

13. REVIEW ALL (N) AND (E) CAMERA VIEWS WITH SITE ADMINISTRATION AND DISTRICT OR ITS REPRESENTATIVE AND MAKE ADJUSTMENTS AS REQUIRED PRIOR TO PROJECT COMPLETION.

CONTRACTOR FURNISHED DOCUMENTS:

(SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)

1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:

1.1. CONTRACTOR FURNISHED SHOP DRAWINGS ARE RECEIVED AND APPROVED BY THE DESIGNER.

1.2. PRODUCT SUBMITTAL DOCUMENTS ARE RECEIVED AND APPROVED BY THE DESIGNER.

1.3. APPLICABLE QUALIFICATION DOCUMENTATION ARE RECEIVED AND APPROVED BY THE DESIGNER.

2. ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDER REQUESTS ARE TO BE ADDRESSED AT TIME OF SHOP DRAWING CREATION. CHANGE ORDERS AFTER APPROVED SHOP DRAWINGS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

3. ALTERNATIVE PRODUCTS ARE TO SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST AND THE CONTRACTOR IS RESPONSIBLE FOR DEMONSTRATING PRODUCT FULL EQUIVALENCY.

4. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE DIAGRAMMATIC. INFORMATION PRESENTED IN DESIGN DRAWINGS ARE AS ACCURATE AS POSSIBLE, BUT ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.

5. DRAWINGS AND SPECIFICATIONS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN TO ASSIST THE CONTRACTOR IN SUBMITTING AN ACCURATE BID. CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF THEIR WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COMPLY WITH THE INTENT OF THE DESIGN.

6. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE DESIGNER OR OWNER PRIOR TO BID.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND FULLY FUNCTIONING SYSTEM.

TECHNOLOGY GENERAL PROJECT NOTES:

1. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST OF THE ENTIRE SYSTEMS IN THE PRESENCE OF THE ARCHITECT/DESIGNER, INSPECTOR, AND THE OWNER.

2. A STAMPED SET OF APPROVED SYSTEM DESIGN DOCUMENTS, AND CONTRACTOR FURNISHED SHOP DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. THE CONTRACTOR SHALL INCORPORATE ANY AND ALL REVISIONS TO DRAWINGS SETS AS REQUIRED. ANY DEVIATION FROM APPROVED DESIGN DOCUMENTS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE ARCHITECT/DESIGNER AND THE OWNER PRIOR TO INSTALLATION.

3. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGNER PRIOR TO INSTALLATION.

4. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH THROUGH PENETRATION FIRST STOP SYSTEMS WITH A "T" RATING EQUAL TO THE ASSEMBLY PENETRATED. SEE DETAILS ON SHEET T801 FOR MORE INFORMATION.

5. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE.

6. ALL CLOCK, BELL, AND INTERCOM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CABLES ARE ONLY PERMITTED IF INDICATED ON DESIGN DOCUMENTS AS "EXPOSED".

7. LOW VOLTAGE PANELS, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT FOR 20 lbs., WITHOUT SPECIAL MOUNTING DETAILS.

8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/DESIGNER AT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO FINAL INSPECTION FOR FINAL PUNCH ALL ITEMS ON PUNCH LIST MUST BE COMPLETE FOR JOB TO FINAL.

9. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL PROJECT AS-BUILT DRAWINGS AND MANUALS PER SPECIFICATIONS.

10. THE CONTRACTOR SHALL ALSO PROVIDE A TYPED RECORD OF COMPLETION. A FINAL WILL NOT BE GRANTED UNTIL THE ABOVE IS APPROVED BY THE OWNER.

11. THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND MAKE FULLY OPERATIONAL.

PROJECT CODES AND STANDARDS:

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11

2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART 12

2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

ANCHORAGE AND BRACING NOTES:

APPLICABLE CODE: 2019 CBC REVISED: 02/14/2020

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE USA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 THRU 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCT/WORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE A NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPES (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP | MD | PP | E | X | OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP | MD | PP | E | | OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)

SHEET INDEX:	
SHEET	DESCRIPTION
T000	TECHNOLOGY COVER SHEET
T010	TECHNOLOGY SITE PLAN - DEMO
T100	TECHNOLOGY SITE PLAN - NEW
T101	TECHNOLOGY SITE PLAN - EXTERIOR SPEAKER COVERAGE
T200	TECHNOLOGY FLOOR PLAN - MDF 1.00
T201	TECHNOLOGY FLOOR PLAN - IDF 1.01
T202	TECHNOLOGY FLOOR PLAN - IDF 1.02 (FIRST FLOOR ONLY)
T203	TECHNOLOGY FLOOR PLAN - IDF 1.03
T204	TECHNOLOGY FLOOR PLAN - IDF 1.04
T205	TECHNOLOGY FLOOR PLAN - IDF 1.05 (SECOND FLOOR ONLY)
T206	TECHNOLOGY FLOOR PLAN - IDF 1.06 AND 1.07
T207	TECHNOLOGY FLOOR PLAN - IDF 1.08
T208	TECHNOLOGY FLOOR PLAN - IDF 1.09
T209	TECHNOLOGY FLOOR PLAN - IDF 1.10
T700	TECHNOLOGY RACK ELEVATIONS
T701	TECHNOLOGY RACK ELEVATIONS
T702	TECHNOLOGY RACK ELEVATIONS
T703	TECHNOLOGY SINGLE LINE DIAGRAMS
T704	TECHNOLOGY SINGLE LINE DIAGRAMS
T800	TECHNOLOGY DETAILS
T801	TECHNOLOGY CCTV DETAILS
T802	TECHNOLOGY DETAILS
T900	TECHNOLOGY CCTV PICTURES



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IF DRAWING IS NOT 30"x42" IT IS A REDUCED PRINT

SHEET REVISIONS		
DELTA	DESCRIPTION	DATE
	ADDENDUM	2025-07-30

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
SAM BRANNAN MS
TELECENTER UPGRADE
5301 ELMER WAY
SACRAMENTO, CA 95822

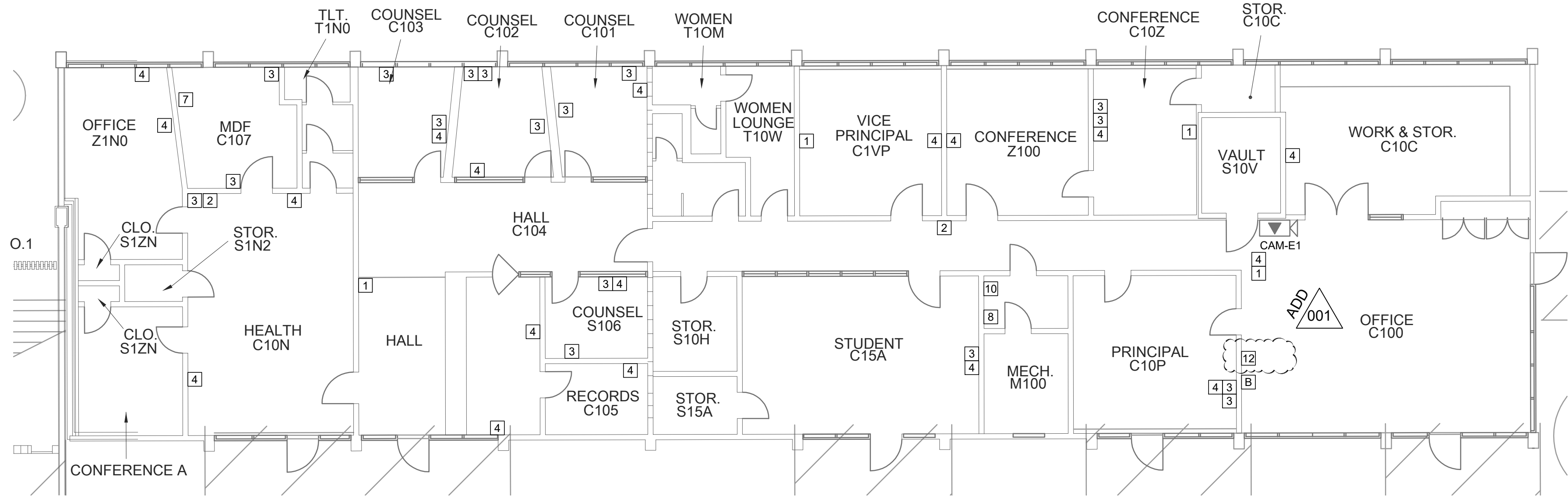
SHEET TITLE
TECHNOLOGY
COVER SHEET

DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	-
BID PACKAGE:	0480-11
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-06-12
WORKING DATE:	2025-07-30

REVISION

SHEET
T000

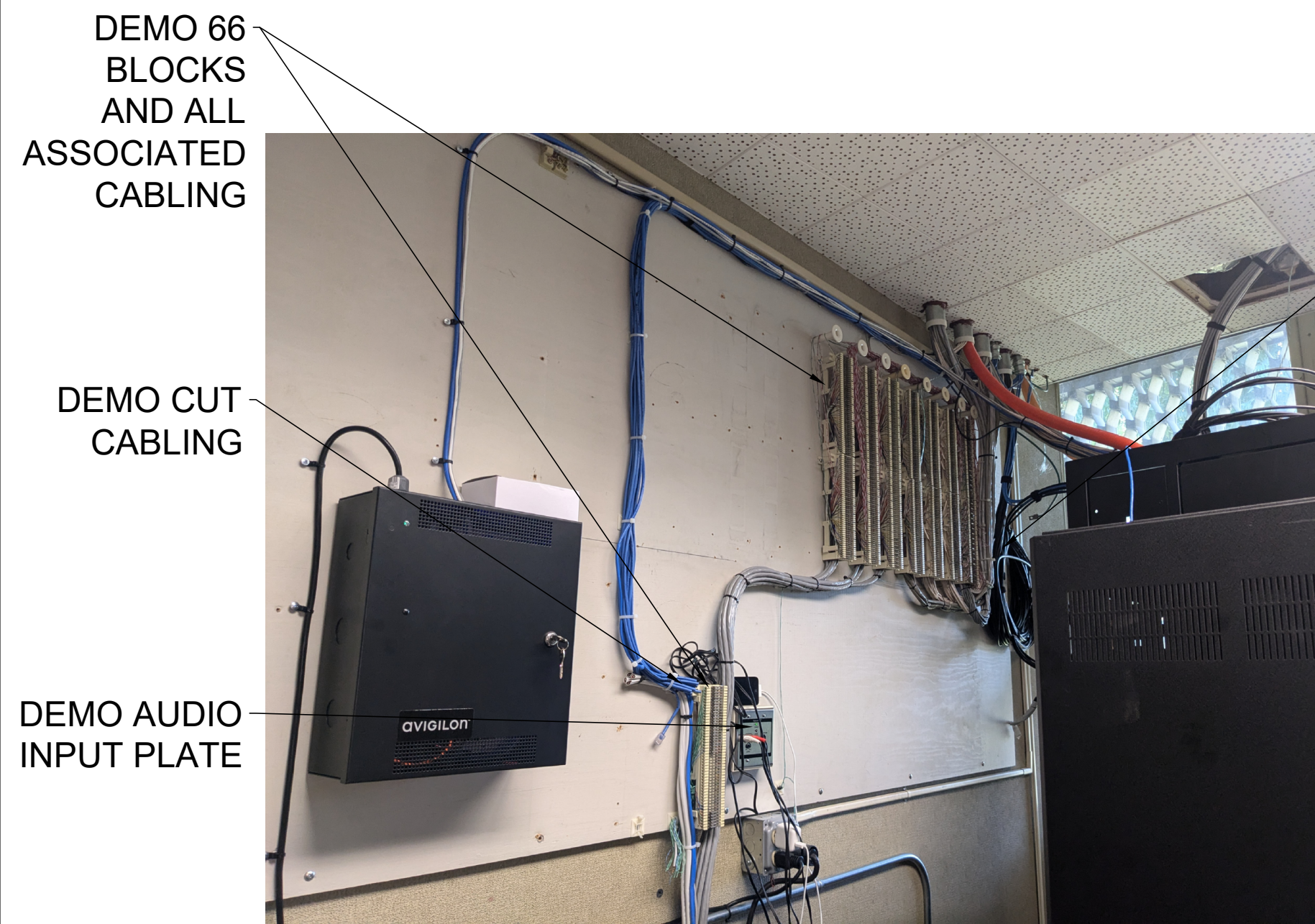


1 ENLARGED TECHNOLOGY FLOOR PLAN - DEMO - BUILDING C
SCALE: 1/8"=1'
0 4 8 12 16

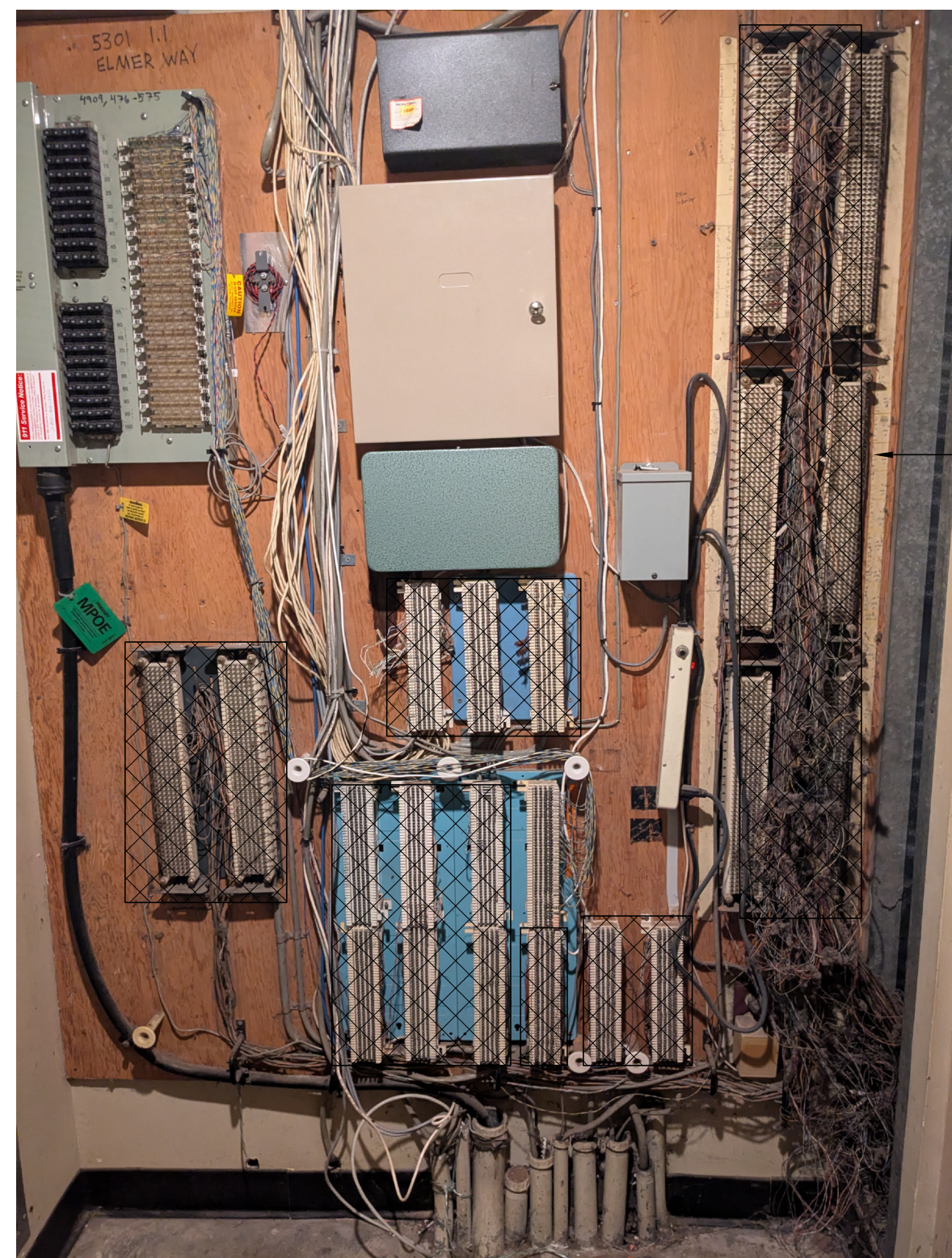


PICTURE DETAIL - TACK BOARD LOCATIONS

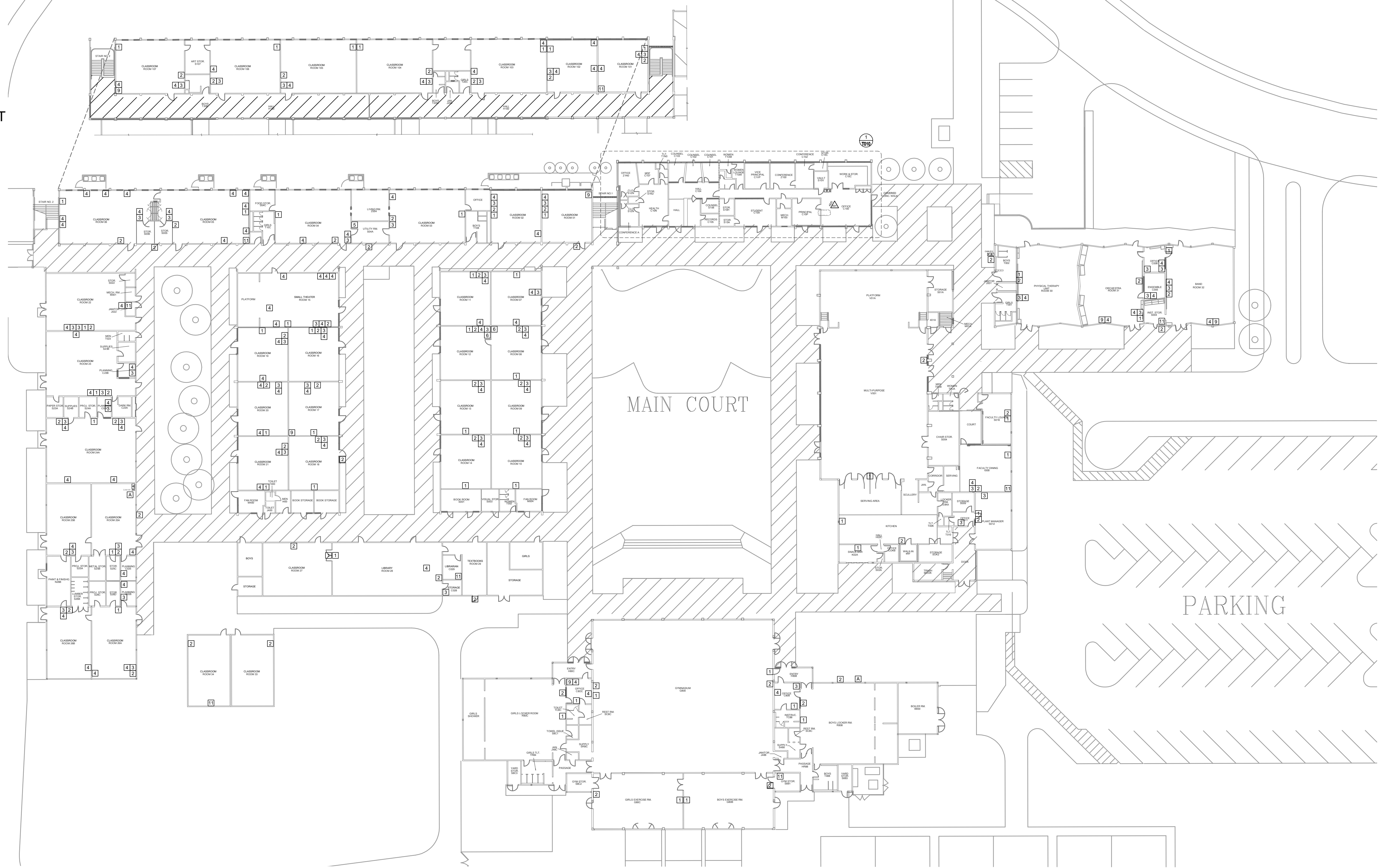
- GENERAL NOTES:**
- CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW RETAIL OR RENOVATION.
 - CONTRACTOR SHALL DEMO ALL SURFACE RACEWAY OR CONDUIT ABANDONED AS A RESULT OF DEMO.
 - AFTER CUTOVER TO NEW SYSTEMS, ALL ANALOG INTERCOM AND CLOCK CABLING SHALL BE DEMOLISHED FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.
 - COMPLETE DEMO IN ALL CLASSROOMS PER TYPICAL CLASSROOM DEMO PICTURE DETAIL.
- SHEET NOTES:**
- DEMO (E) EXTERIOR CAMERA, CABLING TO SOURCE, AND ABANDONED CONDUIT.
 - DEMO (E) CAVITY SECURITY CAMERA MONITORING STATION.
 - DEMO (E) CLOSET, DEMO CABLE TO SOURCE, PROVIDE CUSTOM BLANKING PLATE OVER CLOCK BACKBOX PER DETAIL 121100.
 - DEMO (E) SPEAKER AND BACKBOX, DEMO CABLE TO SOURCE AND ANY ABANDONED CONDUIT OR SURFACE RACEWAY, WATERPROOF ANY PENETRATIONS.
 - DEMO ANALOG TELEPHONE WALL PLATE / TERMINAL BLOCK, CABLING TO SOURCE, AND ABANDONED SURFACE RACEWAY.
 - DEMO ABANDONED DATA DROP LOCATION, CABLING TO SOURCE, AND ABANDONED SURFACE RACEWAY.
 - DEMO ABANDONED 19" CABBINET, DEMO ELECTRICAL TO CLOSEST JBOX, DEMO BACKBOARD AS OCCURS, DEMO ALL CABLING TERMINATING AT EOP.
 - DEMO ABANDONED COAX PLATE AND CABLING TO SOURCE.
 - DEMO TELECENTER HEADEND EQUIPMENT INCLUDING RACK, DELIVER HEADEND UNIT TO DISTRICT ELECTRONICS SHOP, SEE PICTURE DETAIL.
 - DEMO CLOCK POWER SUPPLY AND SAFE OFF POWER.
 - DEMO ABANDONED JPMOUNT ON WALL, AND ABANDONED CABLE AS OCCURS, SEE PICTURE DETAIL.
 - DEMO ABANDONED ANALOG PHONE CABLING AND 96-BLOCKS IN MPOE ROOM, SEE PICTURE DETAIL.
 - DEMO ABANDONED ANALOG PHONE AND INTERCOM CABLING AND 96-BLOCKS AT REAR OF DE RACK.
 - DEMO CLOCK CONTROLLER, BELL CONTROLLER, AND INTERCOM PULLOUT PANEL, DEMO ALL CABLING AND SAFE OFF ELECTRICAL AS REQ'D, PROVIDE A VINYL TACK BOARD (MPOE003 31X46) OVER EACH OPENING, CUT TO FIT AS REQ'D, SEE PICTURE DETAIL.



PIC DETAIL - TELECENTER HEADEND DEMO



PIC DETAIL - MPOE DEMO



TECHNOLOGY SITE PLAN - DEMO
SCALE: 1"=30'
0 30 60



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SHEET REVISIONS

DELTA	DESCRIPTION	DATE
ADDENDUM		2025-07-30

SITE KEY PLAN

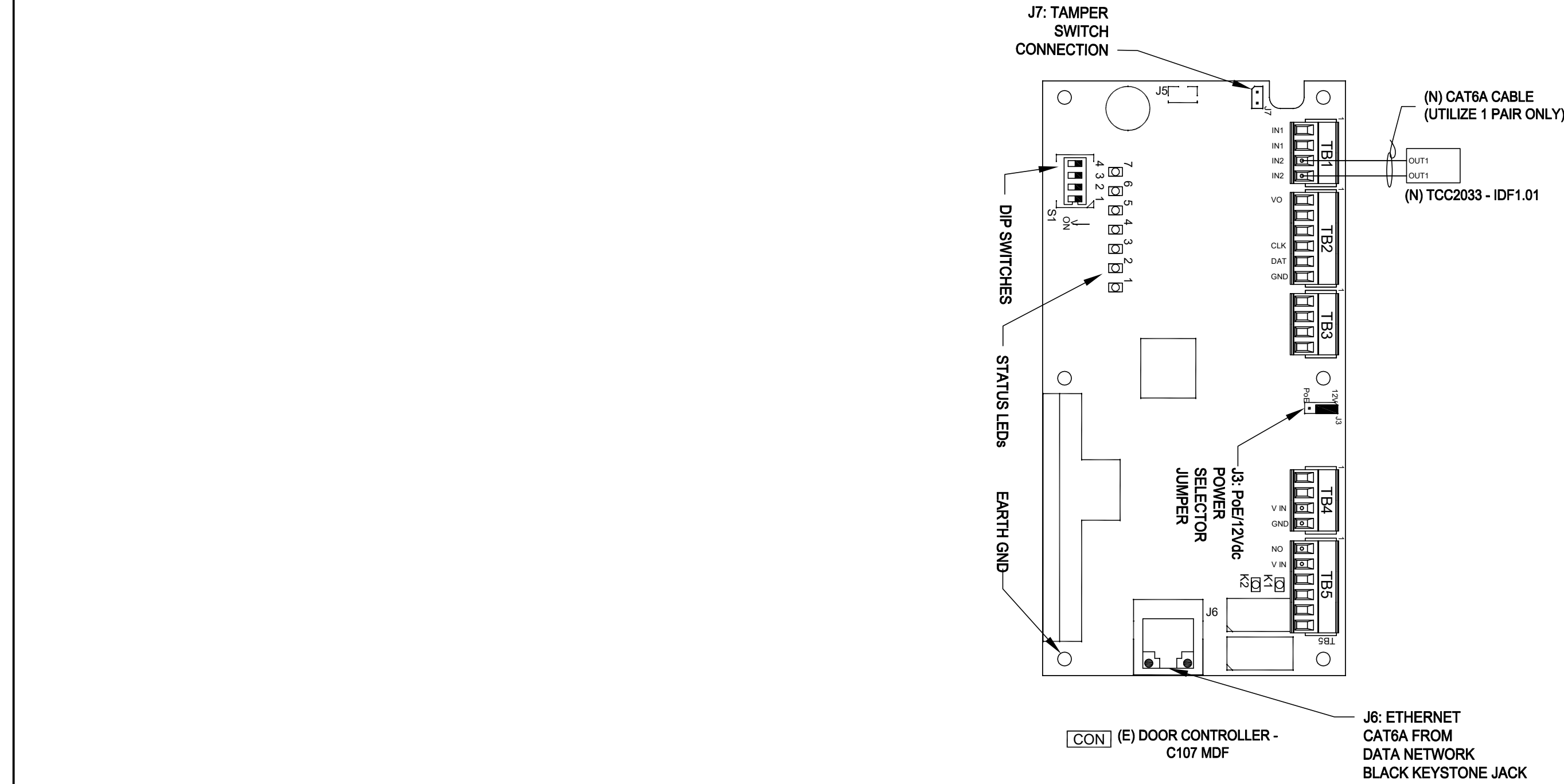
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SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
SITE PLAN -
DEMO

DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	-
BID PACKAGE:	0480-11
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-06-12
WORKING DATE:	2025-07-30
REVISION	

SHEET
T010

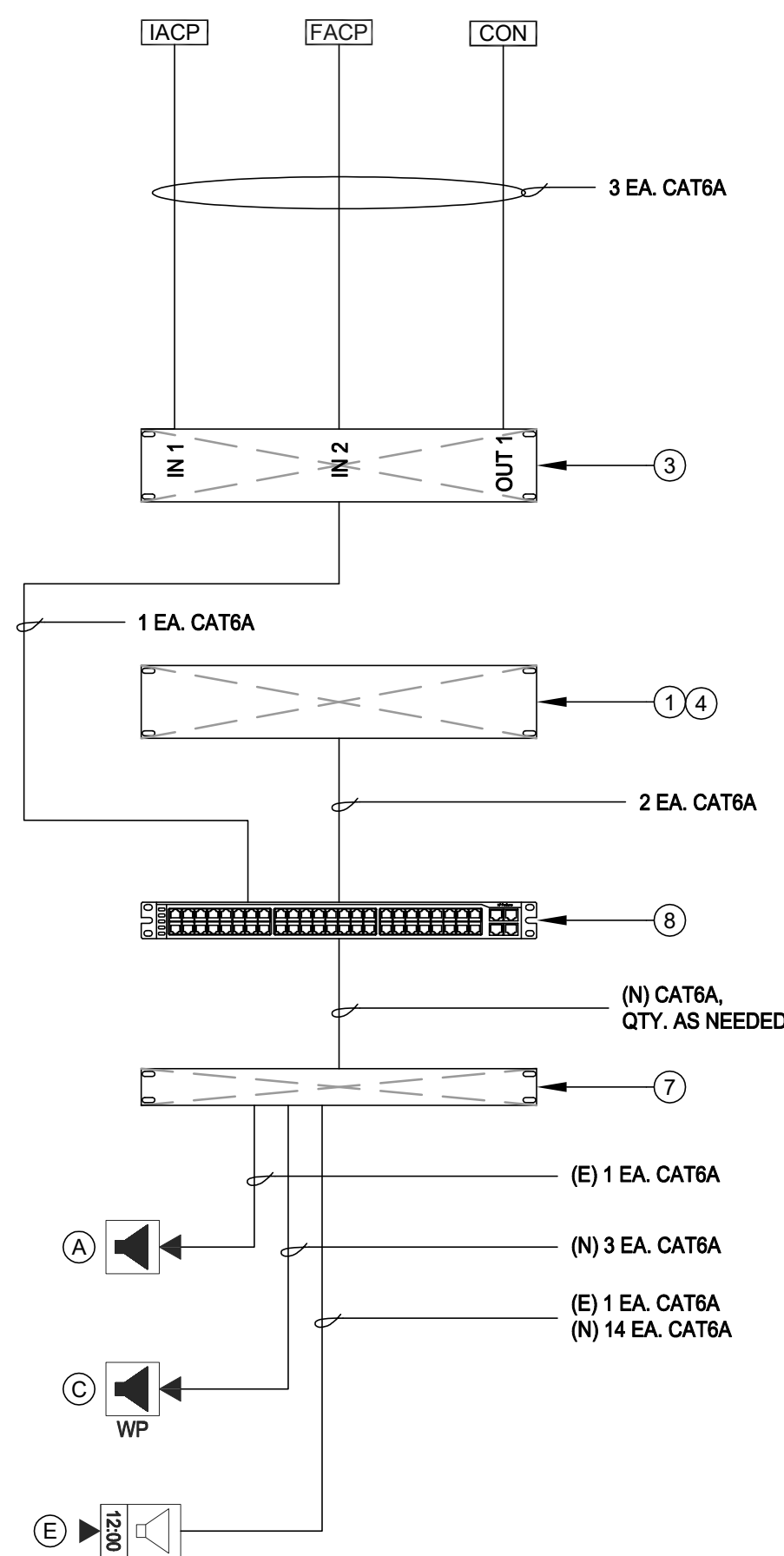


1 TELECENTER TO ACCESS CONTROL SINGLE LINE
SCALE: NONE

TELECENTER AUX IO MODULE SPECIFIC NOTES:

[IACP] & [FACP] CONNECTION - ROUTE (N) CABLE INTO CABINET AND PROVIDE 48" SERVICE LOOP. LABEL CABLE. DO NOT TERMINATE.

[CON] CONNECTION- SEE SINGLE LINE 9/T402 FOR TERMINATION REQUIREMENTS.



2 DATA RACK LAYOUT - MDF 1.00
SCALE: NONE

ACTION MATRIX: INTERCONNECTIONS TO OTHER SYSTEMS				
MODULES	TCC2033 (IDF 1.01)			
I/O PORTS	IN-1	IN-2	OUT-1	OUT-2
EVENT: LOCKDOWN			C	
EVENT: INTRUSION ALARM ACTIVE	A			
EVENT: FIRE ALARM ACTIVE		B		
A	INPUT: CLOSURE FROM INTRUSION ALARM PANEL			
B	INPUT: CLOSURE FROM FIRE ALARM PANEL			
C	OUTPUT: CLOSURE TO ACCESS CONTROL			

EQUIPMENT INTERCOM SCHEDULE: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
1	TELECENTER U IP CONTROLLER	RAULAND	TCC2000	N/A
2	TELECENTER U ADMIN CONSOLE		TCC2045	N/A
3	TELECENTER U AUX. IN/OUT. MODULE		TCC2033	N/A
	UNIVERSAL RACK MOUNTING KIT		TCC2099	N/A
4	TELECENTER U PROGRAM LINE INPUT MODULE		TCC2055	N/A
	ZONE PAGE AMPLIFIER		TCC3022	N/A
6	ZONE PAGE AMPLIFIER AUX POWER SUPPLY		TCC3022PS	N/A
7	24-PORT OR 48-PORT PATCH PANEL			SEE DATA TECHNOLOGY RACK ELEVATIONS BELOW FOR MORE INFORMATION. (N) OR (E) AS NOTED
8	48-PORT NETWORK SWITCH			SEE DATA TECHNOLOGY RACK ELEVATIONS BELOW FOR MORE INFORMATION. (N) OR (E) AS NOTED
[IACP]	INTRUSION ALARM CONTROL PANEL	EXISTING	EXISTING	N/A
[FACP]	FIRE ALARM CONTROL PANEL	EXISTING	EXISTING	N/A
[CON]	ACCESS CONTROL PANEL	EXISTING	EXISTING	N/A

EQUIPMENT SCHEDULE INTERIOR SURFACE SPEAKER: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
TELECENTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT INSIDE ENCLOSURE	
8 OHM, 8" SPEAKER WITH RJ45 CONNECTOR	RAULAND	US0880	N/A	
SPEAKER BAFFLE	RAULAND	ACC1003	N/A	
SURFACE MOUNT SPEAKER ENCLOSURE	RAULAND	ACC1112	N/A	

EQUIPMENT SCHEDULE EXTERIOR SURFACE SPEAKER: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
TELECENTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT INSIDE BUILDING	
TELECENTER U BREAKOUT MODULE	RAULAND	603101	MOUNT INSIDE BUILDING	
8 OHM, 8" MOISTURE RESISTANT SPEAKER	LOWELL	8C10MRB	N/A	
GRILLE VANDAL RESISTANT	RAULAND	ACC1012	N/A	
SURFACE MOUNT SPEAKER ENCLOSURE	RAULAND	ACC1113	N/A	
(N) SURFACE MOUNTED 4 GANG BACKBOX - WHITE	FSR	SMWB-4G-WHT	MOUNT INSIDE BUILDING	

EQUIPMENT SCHEDULE LARGE MESSAGE BOARD: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
LARGE MESSAGE BOARD	RAULAND	TCC3012L	N/A	
PROTECTIVE CAGE	AMERICAN TIME	G20550F-28	N/A	

EQUIPMENT SCHEDULE INTERIOR SURFACE CLOCK/SPEAKER COMBO: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
TELECENTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT IN ENCLOSURE	
IP DIGITAL CLOCK	RAULAND	TCC3011S	N/A	
BAFFLE ASSEMBLY WITH SPEAKER	RAULAND	ACC3011S	N/A	
SURFACE MOUNT ENCLOSURE CLOCK/SPEAKER COMBO	RAULAND	ACC3011SBB	N/A	

EQUIPMENT SCHEDULE EXTERIOR SURFACE HORN (25V): ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
HORN W/ VANDAL RESISTANT GRILLE	LOWELL	VRG-LUH15TX	7.5W TAP	
SURFACE MOUNT SPEAKER ENCLOSURE	LOWELL	CB86-SGVPO	N/A	



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IF DRAWING IS NOT 30"x42" IT IS A REDUCED PRINT

SHEET REVISIONS

DELTA	DESCRIPTION	DATE
ADDENDUM		2025-07-30

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
SAM BRANNAN MS
TELECENTER UPGRADE
5301 ELMER WAY
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
SINGLE LINE DIAGRAMS

DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	-
BID PACKAGE:	0480-11
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-06-12
WORKING DATE:	2025-07-30

REVISION

SHEET

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