	ABBREVIATIONS:
A AFF AFON AP BFF G BICSI C C C C C C C C C C C C C C C C C C	AMPERE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ANNUNCIATOR ACCESS POINT BELOW FINISHED FLOOR BELOW FINISHED GRADE BUILDING INDUSTRY CONSTRUCTION SERVICE INTERNATIONA BUILDING CONDUIT CABINET CATEGORY CABLE TELEVISION CANDELA CONTRACTOR FURNISHED/CONTRACTOR INSTALLED CENTER LINE CARBON MONOXIDE DOWN EXISTING ELECTRICAL METALLIC TUBING END OF LINE FIRE ALARM FIRE ALARM FIRE ALARM SITER ALARM SITER ETERMINAL CABINET GALVANIZED RIGID CONDUIT GROUND BOX INTRUSION ALARM CONTROL PANEL INTERMEDIATE DISTRIBUTION FRAME INTERMEDIATE DISTRIBUTION FRAME INTERMEDIATE METAL CONDUIT JUNCTION BOX MECHANICAL / ELECTRICAL / PLUMBING MAIN DISTRIBUTION FRAME MINIMUM PONT OF ENTRY NEW NATIONAL FIRE PROTECTION ASSOCIATION NOT TO SCALE NOT APPLICABLE OWNER FURNISHED EQUIPMENT OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED OUTSIDE PLANT POLYVINYL CHLORIDE REGISTERED COMMUNICATION DISTRIBUTION DESIGNER RACEWAY ROOM SURFACE RACEWAY TYPICAL UNDERGROUND UNDERWRIGHTERS LABORATORIES UNLESS NOTED OTHERWISE VOLTS WATT WEATHERPROOF

	ALL EQUIPMENT AND MATERIALS ARE CON	TRACTOR FURNISHE	ED, INSTALLED AND C	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
2300	(N) MEDIUM CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM2300	GREY = EXISTING
5400	(N) HIGH CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM5400	GREY = EXISTING
E	(N) CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
•	(E) CONDUIT RISER	N/A	N/A	N/A
MDF	(E) DATA RACK	EXISTING	EXISTING	N/A
MDF / IDF	(N) DATA RACK	CHATSWORTH	SEE T400 FOR BUILD OUT REQ'S	GREY = EXISTING
G	(E) GROUND BOX	N/A	N/A	N/A
J	(N) JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING
MPOE	(E) MINIMAL POINT OF ENTRY	EXISTING	EXISTING	N/A
ICS HE	(E) INTERCOM CONTROL CENTER HEADEND	EXISTING	EXISTING	N/A
KP	(E) INTRUSION KEYPAD	EXISTING	EXISTING	N/A
12:00	(N) CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK/SPEAKER/IP MODULE COMBO BOX	RAULAND	SEE SHEET T703	N/A (
	(N) CAT6A DATA DROP LOCATION - WALL MOUNTED SPEAKER/IP MODULE	RAULAND	SEE SHEET T703	N/A (
WP 🗖	(N) CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	RAULAND & LOWELL	SEE SHEET T703	N/A (
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
≜ WP AP	(N) CAT6A DATA DROP LOCATION - EXTERIOR WIRELESS ACCESS POINT	SEE 27 10 00	SEE 27 10 00	N/A 12 T800
	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:

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.

- CONDUIT BODIES, CONDULETS, PULLING ELBOWS, AND/OR "LB" FITTINGS ARE PROHIBITED IN ANY PATHWAY CONTAINING DATA CABLING (COPPER OR FIBER).
- SINGLE HOLE CONDUIT STRAPS ARE PROHIBITED.
- ALL WIRE AND CABLE PASSING THROUGH METALWORK SHALL BE SLEEVED WITH AN APPROPRIATE GROMMET OR BUSHING.

SYSTEM PROGRAMMING AND **COMMISSIONING REQUIREMENTS:**

- THE DISTRICT WILL PERFORM ALL DATA NETWORK (CISCO) SWITCH PROGRAMMING. ALL OTHER PROGRAMMING/COMMISSIONING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 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. THE CONTRACTOR SHALL PROVIDE A (N) RAULAND TELECENTER U INTERCOM SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL REWORK THE (E) IDF AND MDF LOCATIONS, INCLUDING INSTALLATION OF (N) OWNER-FURNISHED DATA NETWORK SWITCHES, AS NOTED.
- THE CONTRACTOR SHALL PROVIDE AND PERFORM OTHER DATA NETWORK INSTALLATION AND REWORK AS NOTED.
- SYSTEMS ON THIS PROJECT REQUIRE CERTIFIED INSTALLERS. CONTRACTOR SHALL COMPLY WITH ALL CERTIFICATION REQUIREMENTS AS A CONDITION OF BID.
- ALL EQUIPMENT SHALL BE NEW AND CONTRACTOR FURNISHED,
- 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.
- 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.
- THE CONTRACTOR SHALL CAREFULLY COORDINATE CUTOVERS AND ACTIVATION/COMMISSIONING OF NEW SYSTEMS WITH THE DISTRICT REPRESENTATIVE.
- THE CLOCK/INTERCOM SYSTEM AND ALL DATA NETWORK SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES THAT SCHOOL IS
- 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

- . PROVIDE AND INSTALL I-PRO CAMERAS AND COMPONENTS. SEAL AND WEATHER PROOF ALL EXTERIOR CAMERAS / PENETRATIONS.
- 2. 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.
- 3. 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)

AND APPROVED BY THE DESIGNER.

- 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
- 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
- ALTERNATIVE PRODUCTS ARE TO SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST AND THE CONTRACTOR IS RESPONSIBLE

ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

FOR DEMONSTRATING PRODUCT FULL EQUIVALENCY.

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

TECHNOLOGY GENERAL PROJECT NOTES:

- 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.
- 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 REDLINES 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.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGNER PRIOR TO INSTALLATION.
- 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.
- 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.
- 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".
- 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. 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
- PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL PROJECT AS-BUILT DRAWINGS AND MANUALS PER

FOR JOB TO FINAL.

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, 2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART
- 2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

ANCHORAGE AND BRACING NOTES:

REVISED: 12/23/2024

MEP COMPONENT ANCHORAGE NOTE:

APPLICABLE CODE: 2022 CBC

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT

REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18

THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 THRU 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS. 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. 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 DUCTWORK, 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.
- 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 DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 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 DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

- MP □ MD □ PP □ E ⋈ OPTION 1: PROJECT-SPECIFIC DESIGN.
- $\mathsf{MP} \; \square \; \mathsf{MD} \; \square \; \mathsf{PP} \; \square \; \mathsf{E} \; \square \; \mathsf{OPTION} \; 2$: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.
- $\mathsf{MP} \; \square \; \mathsf{MD} \; \square \; \mathsf{PP} \; \square \; \mathsf{E} \; \square \; \mathsf{OPTION} \; 3$: DESIGN BASED ON OSHPD OPM,
- **DEFERRED SUBMITTAL**

SHEET INDEX:

SHEET DESCRIPTION

TECHNOLOGY COVER SHEET

TECHNOLOGY SITE PLAN - DEMO TECHNOLOGY SITE PLAN - NEW

T101 TECHNOLOGY SITE PLAN - EXTERIOR SPEAKERS COVERAGE TECHNOLOGY FLOOR PLAN NEW - MDF 1.00 AND IDF 1.10 TECHNOLOGY FLOOR PLAN NEW - IDF 1.01 AND 1.02 TECHNOLOGY FLOOR PLAN NEW - IDF 1.03 AND 1.04

T203 TECHNOLOGY FLOOR PLAN NEW - IDF 1.05 AND 1.06 T204 TECHNOLOGY FLOOR PLAN NEW - IDF 1.07 AND 1.08 T205 TECHNOLOGY FLOOR PLAN NEW - IDF 1.09

TECHNOLOGY RACK ELEVATIONS TECHNOLOGY RACK ELEVATIONS TECHNOLOGY SINGLE LINE DIAGRAMS T702 T703 TECHNOLOGY SINGLE LINE DIAGRAMS

T800 TECHNOLOGY DETAILS T801 TECHNOLOGY CCTV DETAILS T801 TECHNOLOGY DETAILS

CCTV PICTURES

T900



KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFETY

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DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

SACRAMENTO, CA 95831

SHEET TITLE

7680 WINDBRIDGE DRIVE

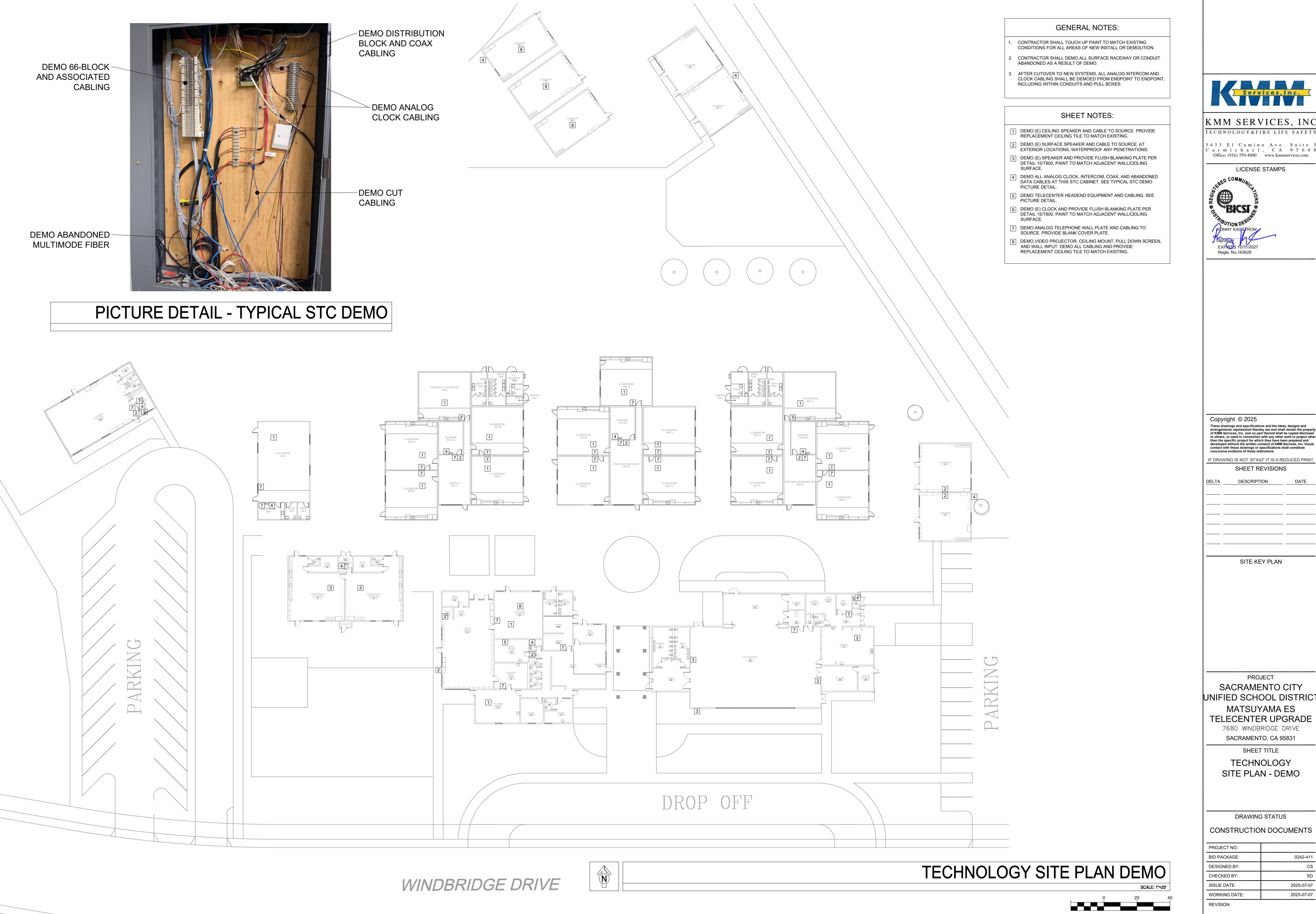
TECHNOLOGY COVER SHEET

DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

REVISION



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DELTA DESCRIPTION

SITE KEY PLAN

PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES

> 7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

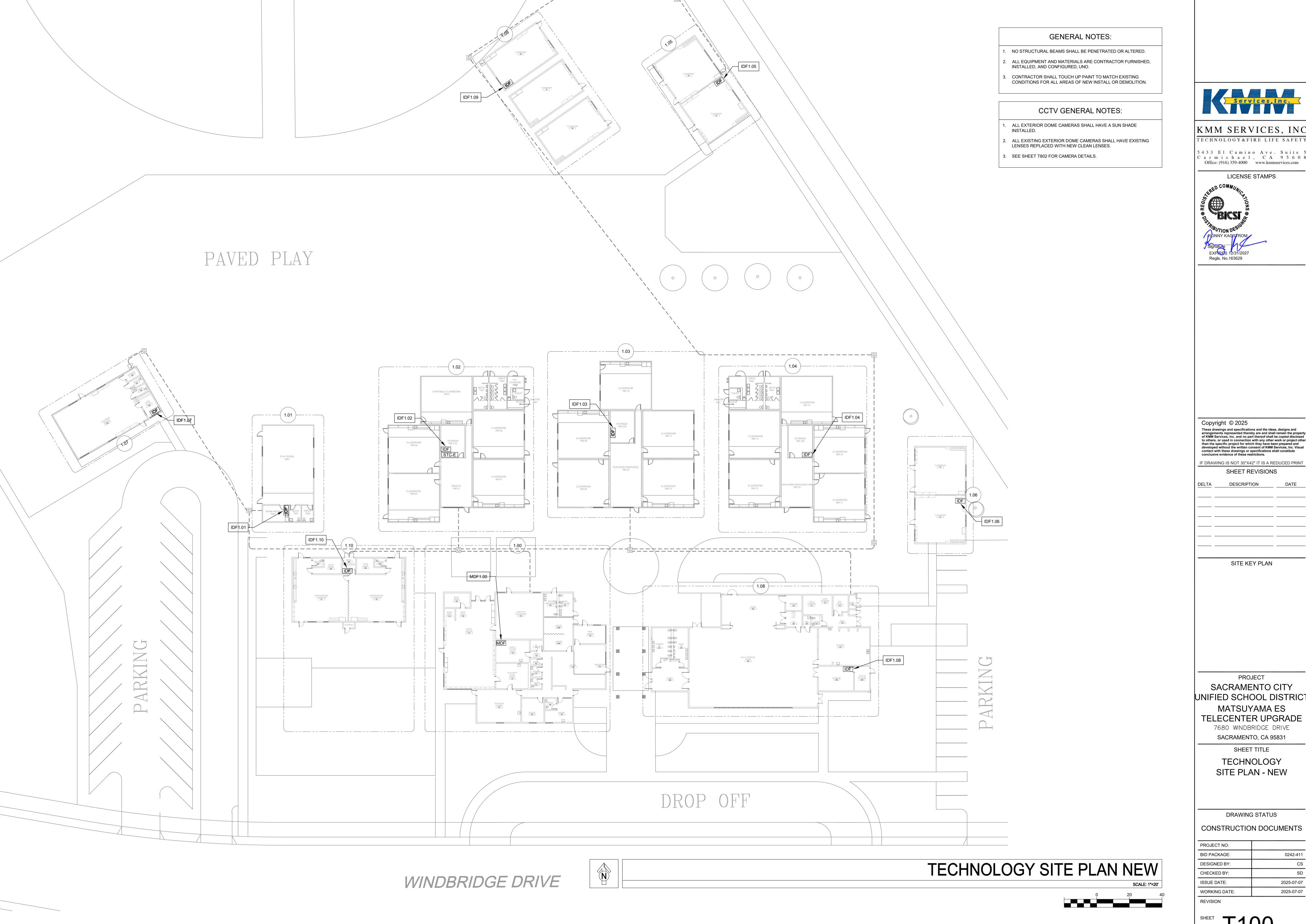
> > SHEET TITLE

TECHNOLOGY SITE PLAN - DEMO

DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07
REVISION	





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DELTA DESCRIPTION

SITE KEY PLAN

PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

> 7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

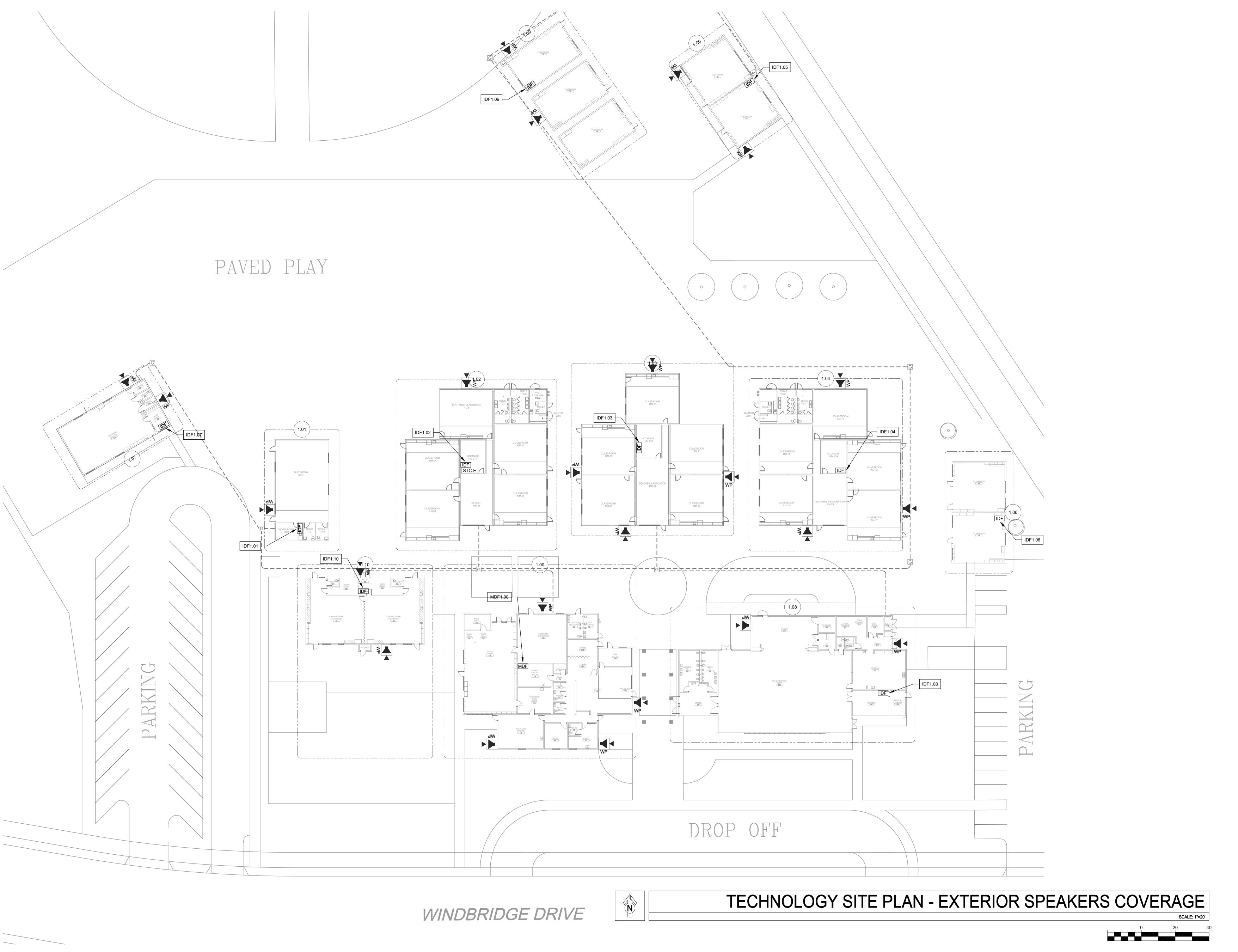
> > SHEET TITLE

TECHNOLOGY SITE PLAN - NEW

DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07
REVISION	





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SITE KEY PLAN

PROJECT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

SHEET TITLE

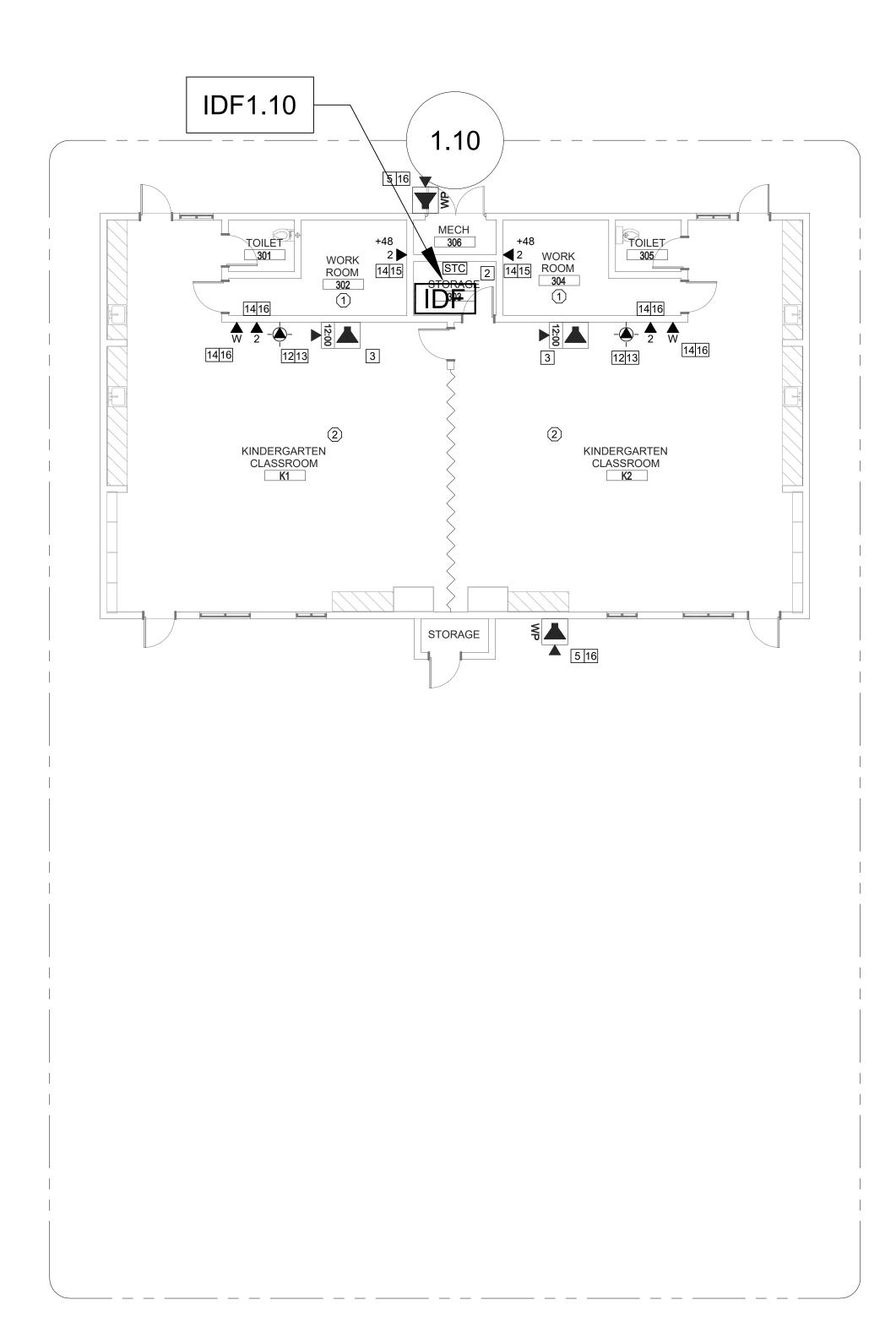
TECHNOLOGY SITE PLAN -**EXTERIOR SPEAKERS**

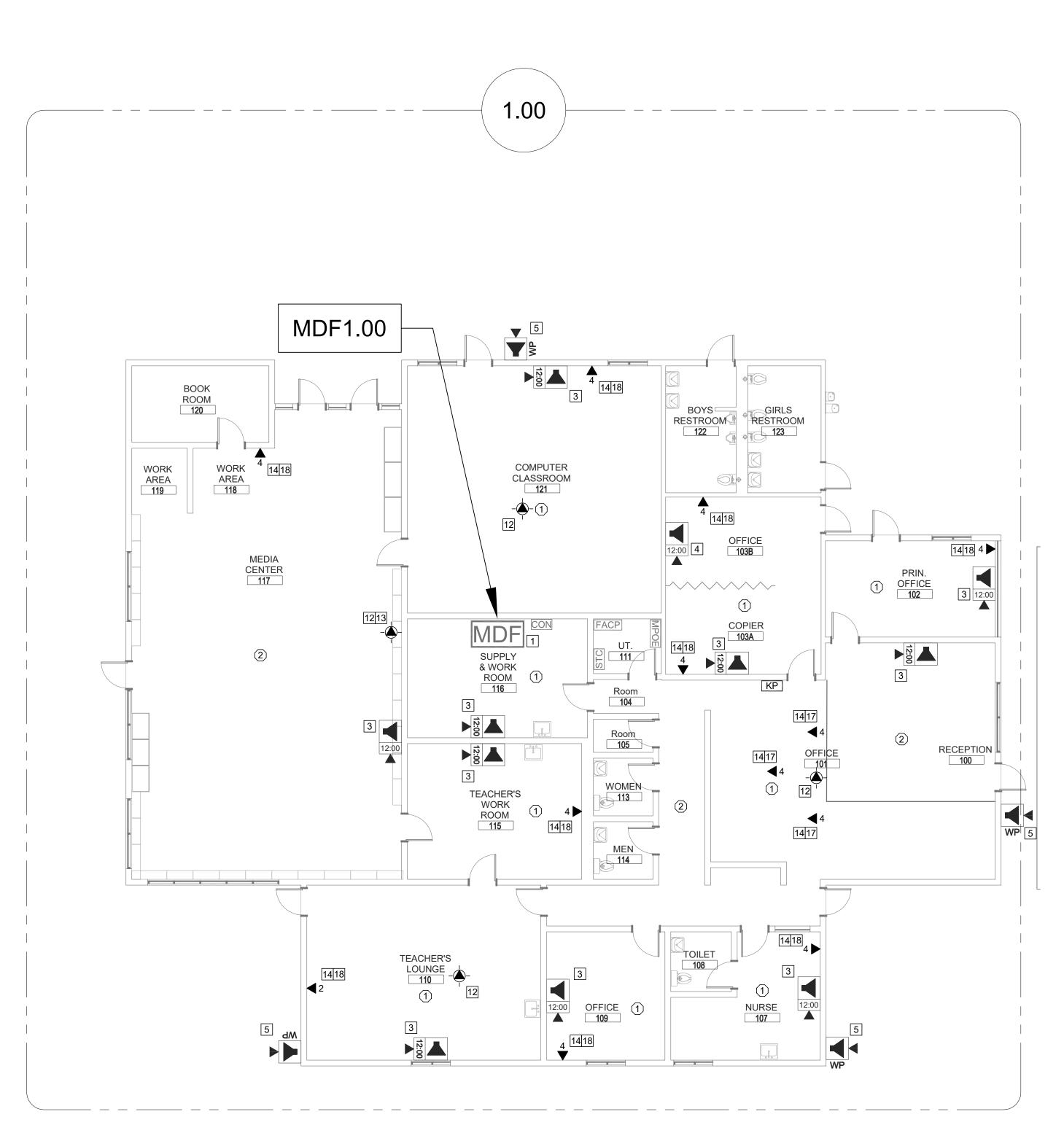
DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

REVISION T101





TECHNOLOGY FLOOR PLAN NEW - MDF 1.00 AND IDF 1.10



GENERAL NOTES:

- 1. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
- ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED, AND CONFIGURED, UNO.
- 3. CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW INSTALL OR DEMOLITION.
- 4. CONTRACTOR SHALL CONFIRM ALL VIEWS FOR (N) CAMERAS WITH DISTRICT REPRESENTATIVE PRIOR TO PROJECT COMPLETION.

CEILING CONDITION CHART:

- (1) DROP IN CEILING TILES.
- (2) HARD LID CEILING.

SHEET NOTES:

- PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL AT BUILDING CORNER. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- B PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON CANOPY

SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.

PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA UNDER CANOPY

AT EDGE OF SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.

- PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 1 REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- 2 ESTABLISH (N) IDF WITH (N) FIBER HOMERUN TO MDF. SEE T400 FOR BUILD OUT REQUIREMENTS.
- REMOVE (E) CLOCK. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. INTERCEPT CONDUIT ABOVE T-BAR AND FEED THROUGH (E) CLOCK BACKBOX.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
- PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX.
 PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP
 MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR
 ENCLOSURE.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N)
 RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM IP MODULE,
 AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO
 ACCOMODATE CLOCK. REWORK (E) DATA DROP IN ADJACENT
 SURFACE BOX INTO (E) BACKBOX BY FISHING FROM ACCESSIBLE
 CEILING. DEMO ABANDONED SURFACE BOX AND WIREMOLD TO
 CEILING.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N)
 RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM MODULE,
 AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO
 ACCOMODATE CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR AND
 REWORK INTO (E) BACKBOX VIA (E) CONDUIT STUB TO ACCESSIBLE
 CEILING.
- PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 9 PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
- REMOVE (E) SPEAKER FROM (E) BAFFLE. PROVIDE (N) SPEAKER AND (N) CLASSROOM IP MODULE. MOUNT (N) SPEAKER ON (E) BAFFLE. PROVIDE (N) 1 EA. CAT6A DATA DROP. ROUTE VIA (E) CONDUIT STUB FROM BACKBOX TO ABOVE T-BAR.
- REWORK (E) DATA DROP FOR EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
- REMOVE (E) WIRELESS AP. INSTALL (N) OWNER-PROVIDED WIRELESS AP USING (E) DATA DROP AT SAME LOCATION.
- PROVIDE (N) RIGHT ANGLE WALL MOUNT, OBERON P/N 1006-COAP9136
- PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.

 PROVIDE CUT-IN BOX AND FISH TO ACCESSABLE CEILING.
- 16 UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN TO IDF 1.10.
- 17 UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
- 18 UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.



KMM SERVICES, INC

5 4 3 3 E 1 C a m i n o A v e . S u i t e 5 C a r m i c h a e 1 , C A 9 5 6 0 8 Office: (916) 359-4000 www.kmmservices.com

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IF DRAWING IS NOT 30"X42" IT IS A REDUCED PRINT
SHEET REVISIONS

. I A	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES

TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE

SACRAMENTO, CA 95831 SHEET TITLE

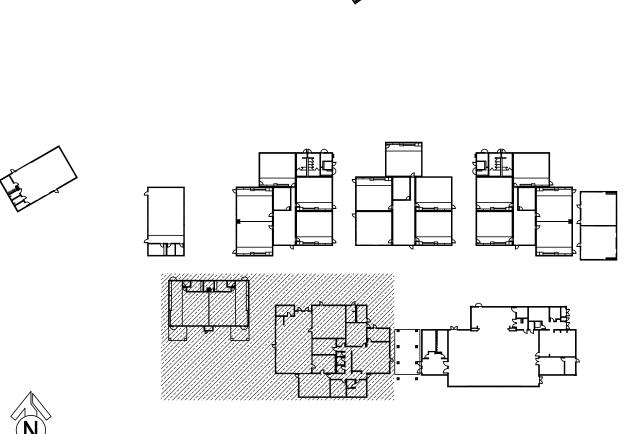
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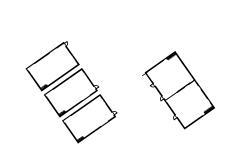
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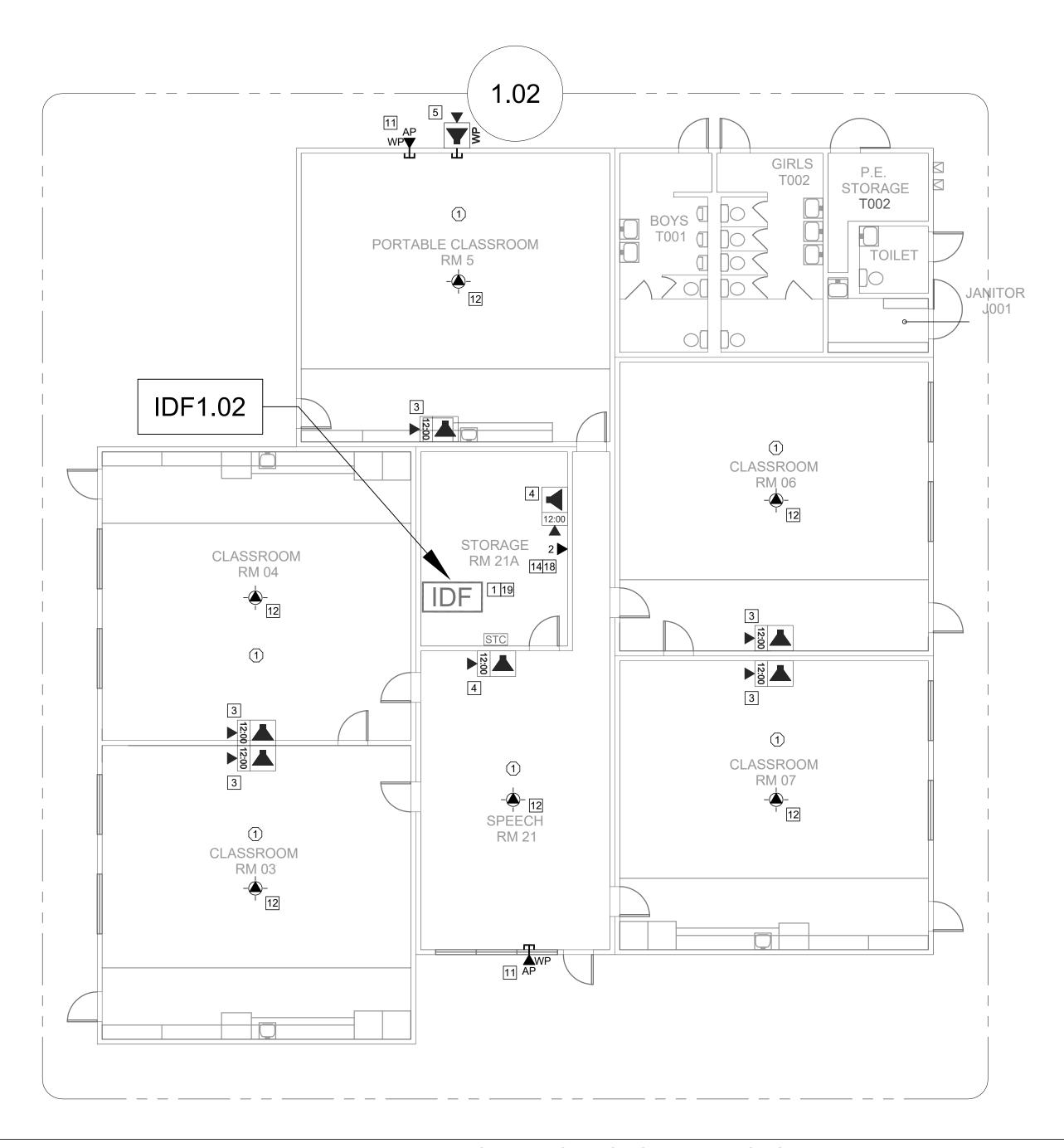
CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

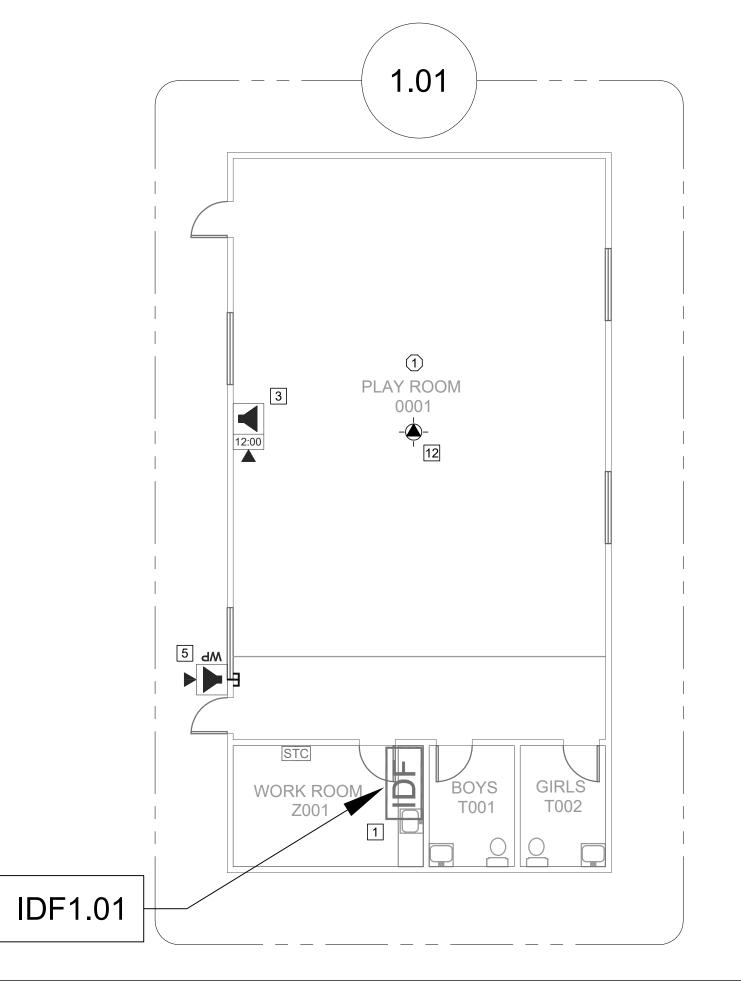
SHEET T200











TECHNOLOGY FLOOR PLAN NEW - IDF1.01

0 4 8 12 16

GENERAL NOTES:

- . NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
- ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED, AND CONFIGURED, UNO.
- CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW INSTALL OR DEMOLITION.
- CONTRACTOR SHALL CONFIRM ALL VIEWS FOR (N) CAMERAS WITH DISTRICT REPRESENTATIVE PRIOR TO PROJECT COMPLETION.

CEILING CONDITION CHART:

DROP IN CEILING TILES.

(2) HARD LID CEILING.

SHEET NOTES:

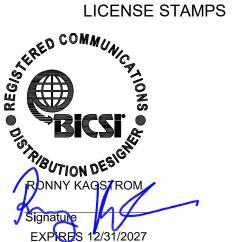
- A PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL AT BUILDING CORNER. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- B PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON CANOPY SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- C PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA UNDER CANOPY AT EDGE OF SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 1 REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- 2 ESTABLISH (N) IDF WITH (N) FIBER HOMERUN TO MDF. SEE T400 FOR BUILD OUT REQUIREMENTS.
- REMOVE (E) CLOCK. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. INTERCEPT CONDUIT ABOVE T-BAR AND FEED THROUGH (E) CLOCK BACKBOX.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
- 5 PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE.
- 6 REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N) RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO ACCOMODATE CLOCK. REWORK (E) DATA DROP IN ADJACENT SURFACE BOX INTO (E) BACKBOX BY FISHING FROM ACCESSIBLE CEILING. DEMO ABANDONED SURFACE BOX AND WIREMOLD TO CEILING.
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- 8 PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 9 PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
- 10 REMOVE (E) SPEAKER FROM (E) BAFFLE. PROVIDE (N) SPEAKER AND (N) CLASSROOM IP MODULE. MOUNT (N) SPEAKER ON (E) BAFFLE. PROVIDE (N) 1 EA. CAT6A DATA DROP. ROUTE VIA (E) CONDUIT STUB FROM BACKBOX TO ABOVE T-BAR.
- 11 REWORK (E) DATA DROP FOR EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
- REMOVE (E) WIRELESS AP. INSTALL (N) OWNER-PROVIDED WIRELESS AP USING (E) DATA DROP AT SAME LOCATION.
- 13 PROVIDE (N) RIGHT ANGLE WALL MOUNT, OBERON P/N 1006-COAP9136
- 14 PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
- PROVIDE CUT-IN BOX AND FISH TO ACCESSABLE CEILING. 16 UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN
- 17 UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
- 18 UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.



KMM SERVICES, INC

5433 El Camino Ave. Suite 5 Carmichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com

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conclusive evidence of these restrictions.

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES

> 7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

TELECENTER UPGRADE

SHEET TITLE

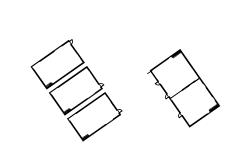
TECHNOLOGY FLOOR PLAN -IDF1.01 AND 1.02

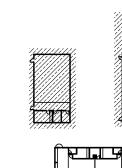
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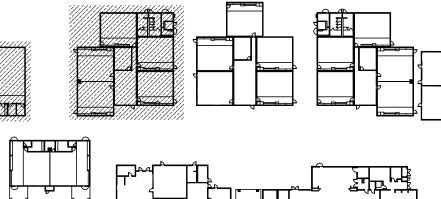
CONSTRUCTION DOCUMENTS

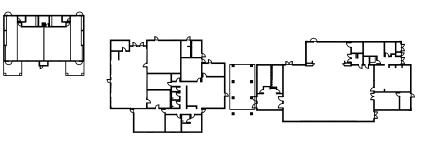
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

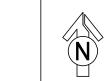
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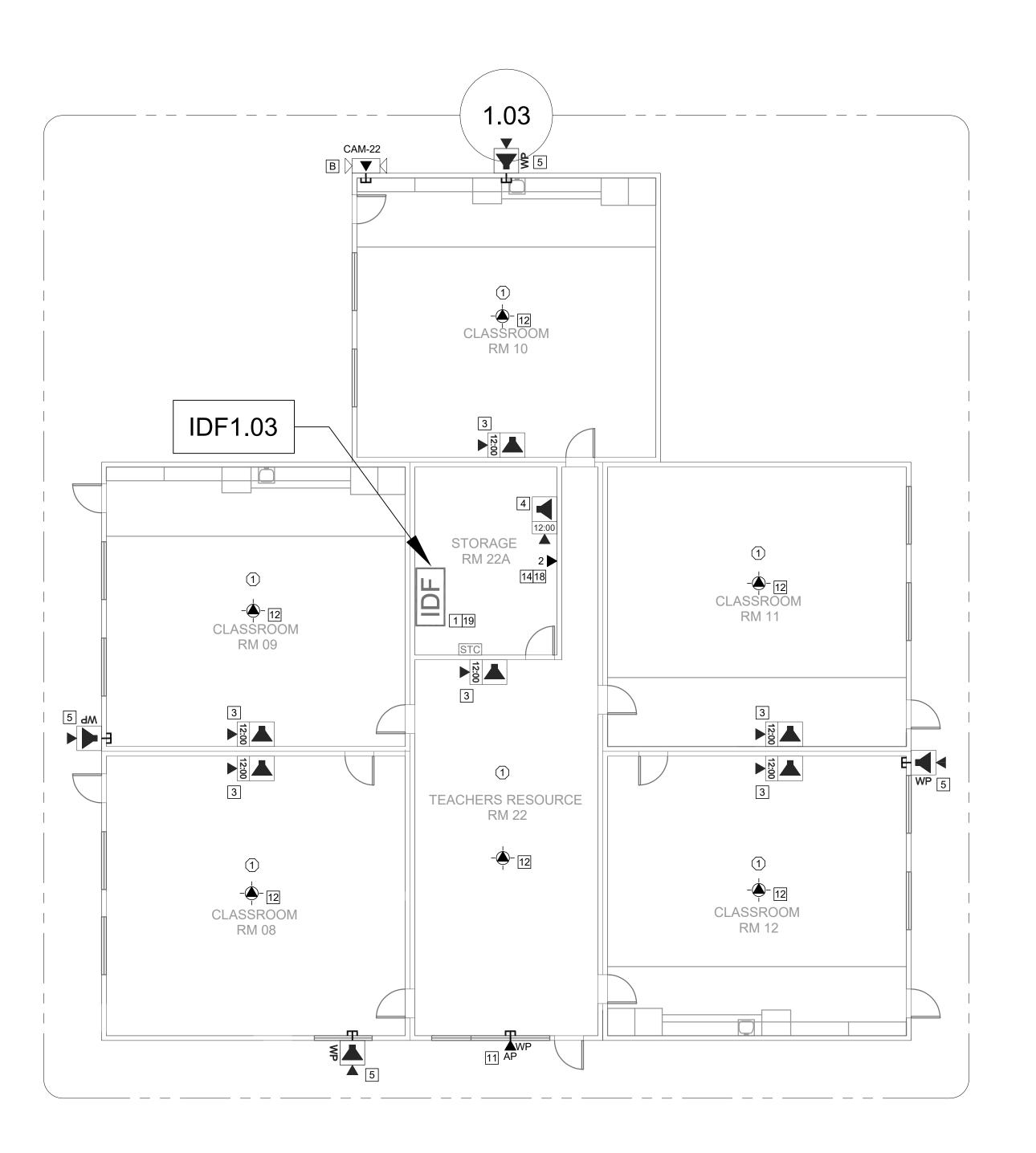


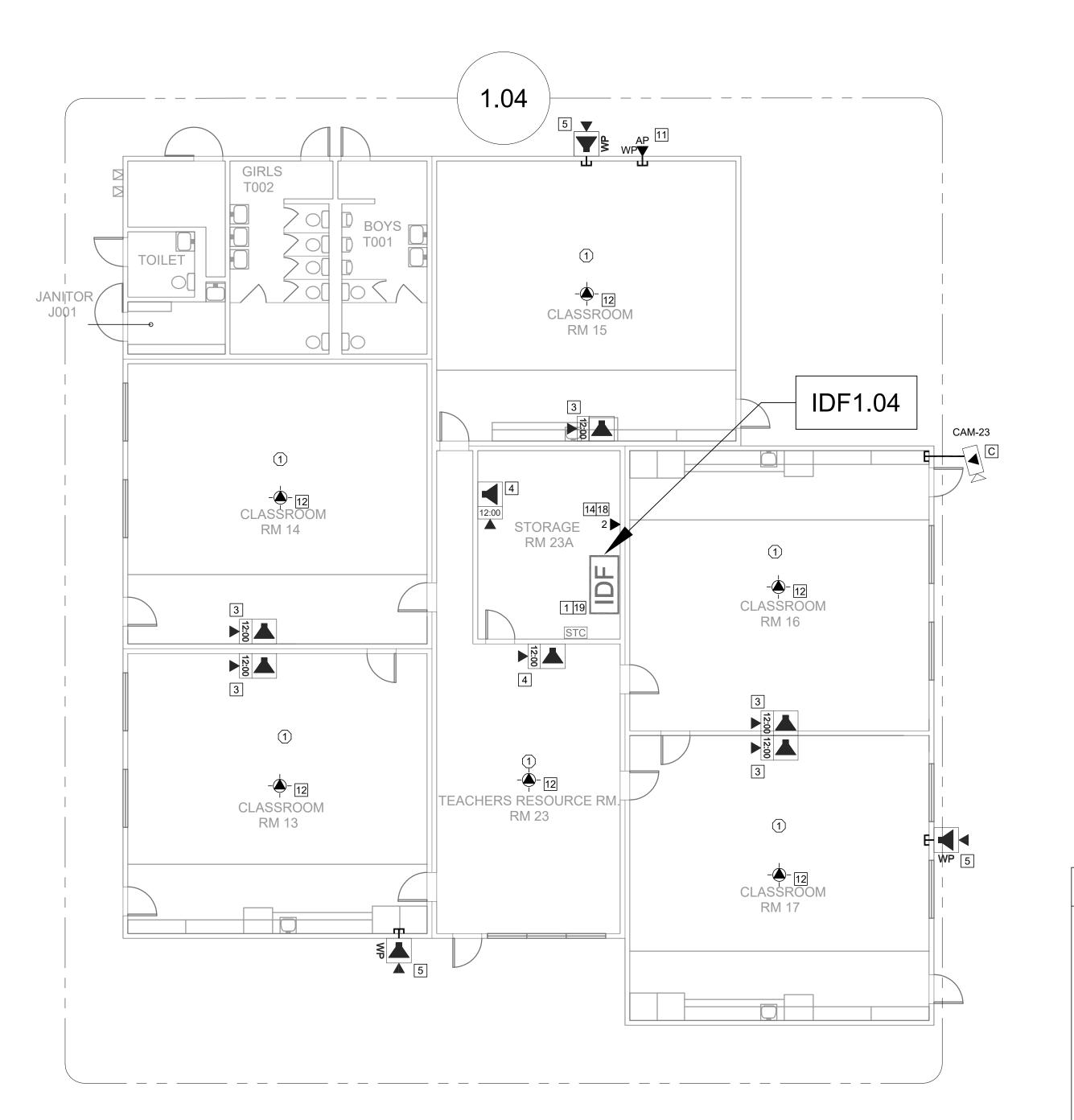












TECHNOLOGY FLOOR PLAN NEW - IDF1.03

SCALE: 1/8"=1"

TECHNOLOGY FLOOR PLAN NEW - IDF1.04

0 4 8 12 16

GENERAL NOTES:

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- 4. CONTRACTOR SHALL CONFIRM ALL VIEWS FOR (N) CAMERAS WITH DISTRICT REPRESENTATIVE PRIOR TO PROJECT COMPLETION.

CEILING CONDITION CHART:

(1) DROP IN CEILING TILES.

(2) HARD LID CEILING.

SHEET NOTES:

PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL AT

BUILDING CORNER. PROVIDE (N) 1 EA. CAT6A DATA DROP.

B PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON CANOPY

SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.

- PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA UNDER CANOPY
- AT EDGE OF SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.

 PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 1 REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- 2 ESTABLISH (N) IDF WITH (N) FIBER HOMERUN TO MDF. SEE T400 FOR BUILD OUT REQUIREMENTS.
- REMOVE (E) CLOCK. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. INTERCEPT CONDUIT ABOVE T-BAR AND FEED THROUGH (E) CLOCK BACKBOX.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
- PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N)
 RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM IP MODULE,
 AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO
 ACCOMODATE CLOCK. REWORK (E) DATA DROP IN ADJACENT
 SURFACE BOX INTO (E) BACKBOX BY FISHING FROM ACCESSIBLE
 CEILING. DEMO ABANDONED SURFACE BOX AND WIREMOLD TO
 CEILING.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N)
 RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM MODULE,
 AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO
 ACCOMODATE CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR AND
 REWORK INTO (E) BACKBOX VIA (E) CONDUIT STUB TO ACCESSIBLE
 CFILING.
- PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 9 PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
- REMOVE (E) SPEAKER FROM (E) BAFFLE. PROVIDE (N) SPEAKER AND (N) CLASSROOM IP MODULE. MOUNT (N) SPEAKER ON (E) BAFFLE. PROVIDE (N) 1 EA. CAT6A DATA DROP. ROUTE VIA (E) CONDUIT STUB FROM BACKBOX TO ABOVE T-BAR.
- REWORK (E) DATA DROP FOR EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
- REQUIRED COMPONENTS PER DETAIL 12/1801, 13/1801.

 12 REMOVE (E) WIRELESS AP. INSTALL (N) OWNER-PROVIDED
- WIRELESS AP USING (E) DATA DROP AT SAME LOCATION.

 13 PROVIDE (N) RIGHT ANGLE WALL MOUNT, OBERON P/N
- 1006-COAP9136

 14 PROVIDE (N) CAT6A DATA DROP QUANTITY INDICATED
- PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.PROVIDE CUT-IN BOX AND FISH TO ACCESSABLE CEILING.
- UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN TO IDF 1.10.
- 17 UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
- 18 UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.



KMM SERVICES, INC

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IF DRAWING IS NOT 30"X42" IT IS A REDUCED PRINT

SHEET REVISIONS

ELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES

7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

TELECENTER UPGRADE

SHEET TITLE

TECHNOLOGY FLOOR PLAN -IDF1.03 AND 1.04

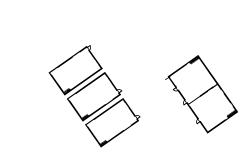
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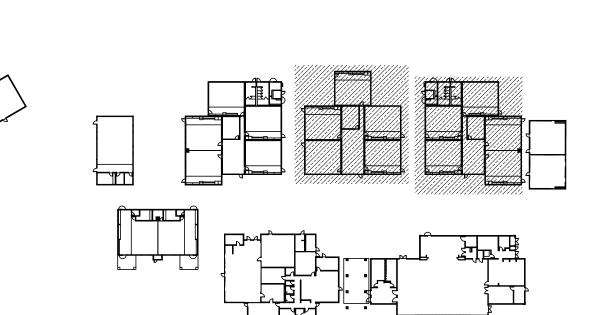
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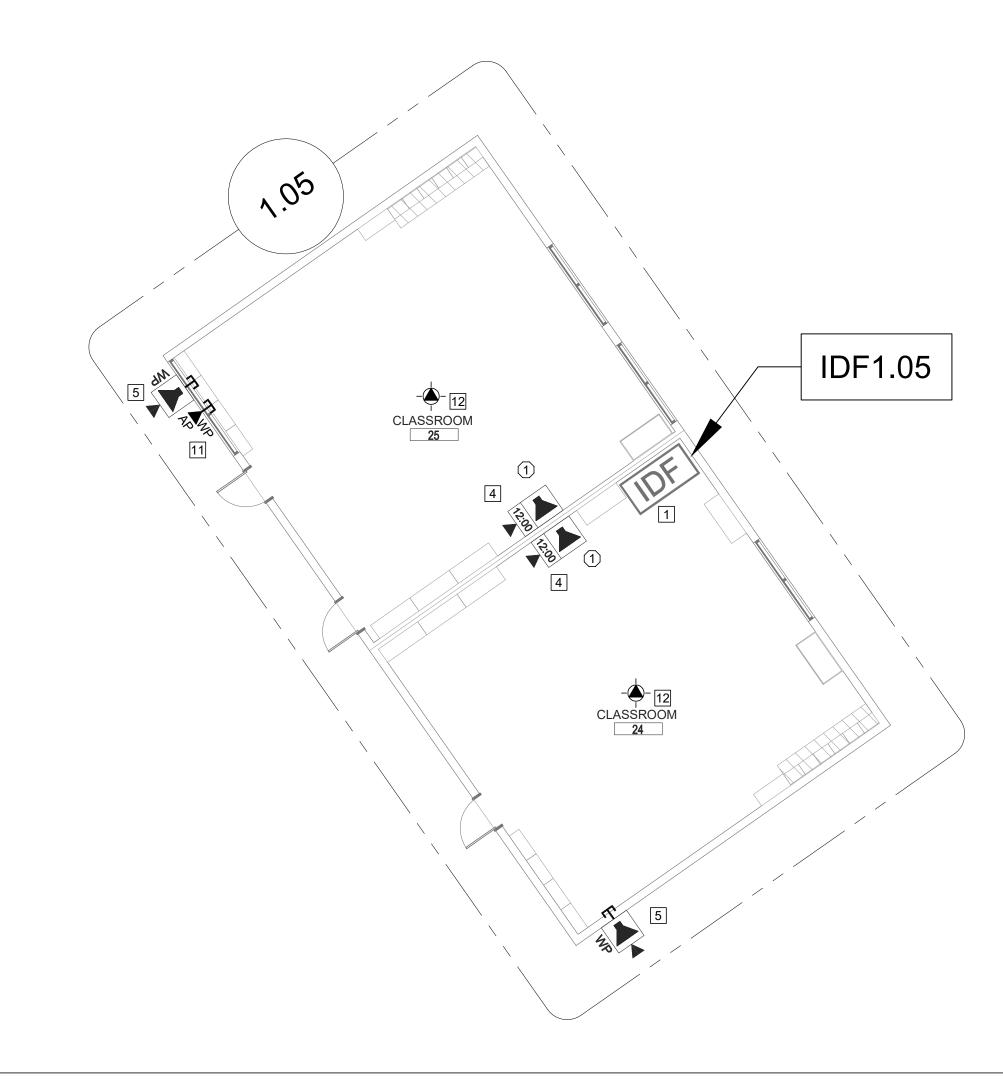
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

REVISION

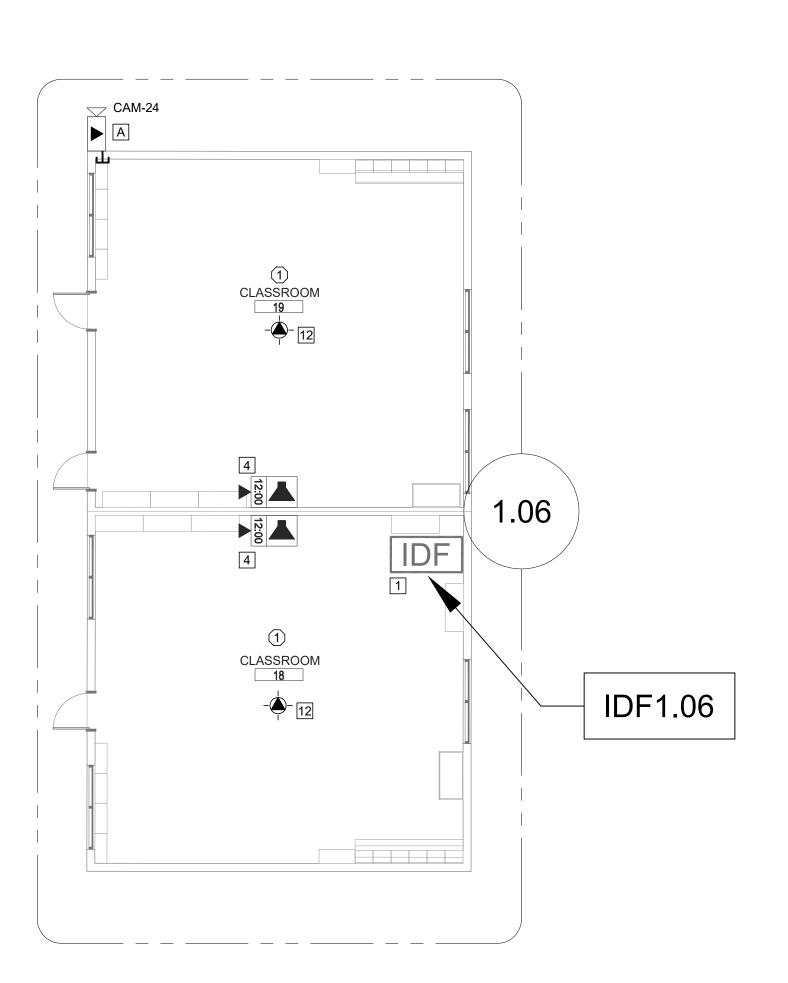
T202







0 4 8 12 16



TECHNOLOGY FLOOR PLAN NEW - IDF1.06

0 4 8 12 16

GENERAL NOTES:

- I. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
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CEILING CONDITION CHART:

DROP IN CEILING TILES.

(2) HARD LID CEILING.

SHEET NOTES:

- A PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL AT BUILDING CORNER. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- B PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON CANOPY
- C PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA UNDER CANOPY
- AT EDGE OF SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP. PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL.
- PROVIDE (N) 1 EA. CAT6A DATA DROP. 1 REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.

SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.

- 2 ESTABLISH (N) IDF WITH (N) FIBER HOMERUN TO MDF. SEE T400 FOR BUILD OUT REQUIREMENTS.
- REMOVE (E) CLOCK. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. INTERCEPT CONDUIT ABOVE T-BAR AND FEED THROUGH (E) CLOCK BACKBOX.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
- 5 PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE.
- 6 REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N) RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO ACCOMODATE CLOCK. REWORK (E) DATA DROP IN ADJACENT SURFACE BOX INTO (E) BACKBOX BY FISHING FROM ACCESSIBLE CEILING. DEMO ABANDONED SURFACE BOX AND WIREMOLD TO CEILING.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N) RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM MODULE, AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO ACCOMODATE CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR AND REWORK INTO (E) BACKBOX VIA (E) CONDUIT STUB TO ACCESSIBLE
- 8 PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 9 PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGÉ MESSAGE BOARD.
- [10] REMOVE (E) SPEAKER FROM (E) BAFFLE. PROVIDE (N) SPEAKER AND (N) CLÁSSROOM IP MODÙLE. MOUNT (N) SPEAKÉR ON (E) BAFFLE. PROVIDE (N) 1 EA. CAT6A DATA DROP. ROUTE VIA (E) CONDUIT STUB FROM BACKBOX TO ABOVE T-BAR.
- 11 REWORK (E) DATA DROP FOR EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
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- WIRELESS AP USING (E) DATA DROP AT SAME LOCATION. 13 PROVIDE (N) RIGHT ANGLE WALL MOUNT, OBERON P/N 1006-COAP9136
- PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
- PROVIDE CUT-IN BOX AND FISH TO ACCESSABLE CEILING. 16 UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN
- 17 UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
- 18 UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE
- 19 PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.



KMM SERVICES, INC

5433 El Camino Ave. Suite 5 Carmichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com

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DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES

7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

TELECENTER UPGRADE

SHEET TITLE

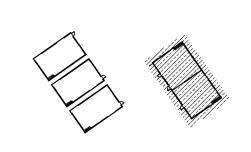
TECHNOLOGY FLOOR PLAN -IDF1.05 AND 1.06

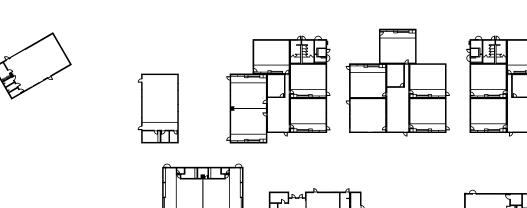
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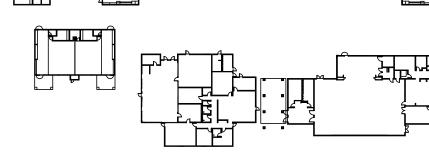
CONSTRUCTION DOCUMENTS

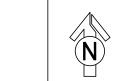
ı	PROJECT NO:	
l	BID PACKAGE:	0242-411
l	DESIGNED BY:	CS
l	CHECKED BY:	SD
l	ISSUE DATE:	2025-07-07
l	WORKING DATE:	2025-07-07
ı	REVISION	

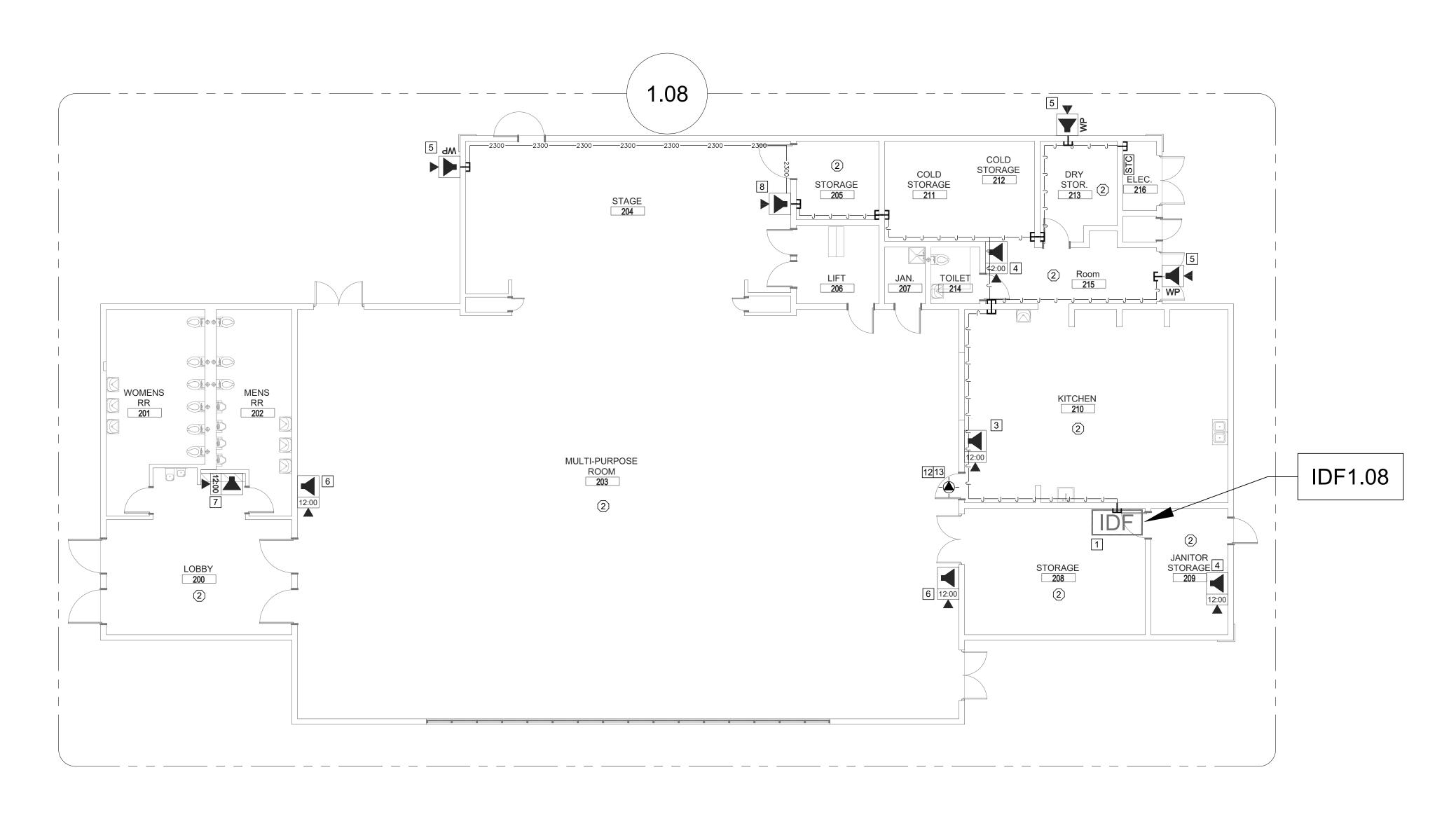
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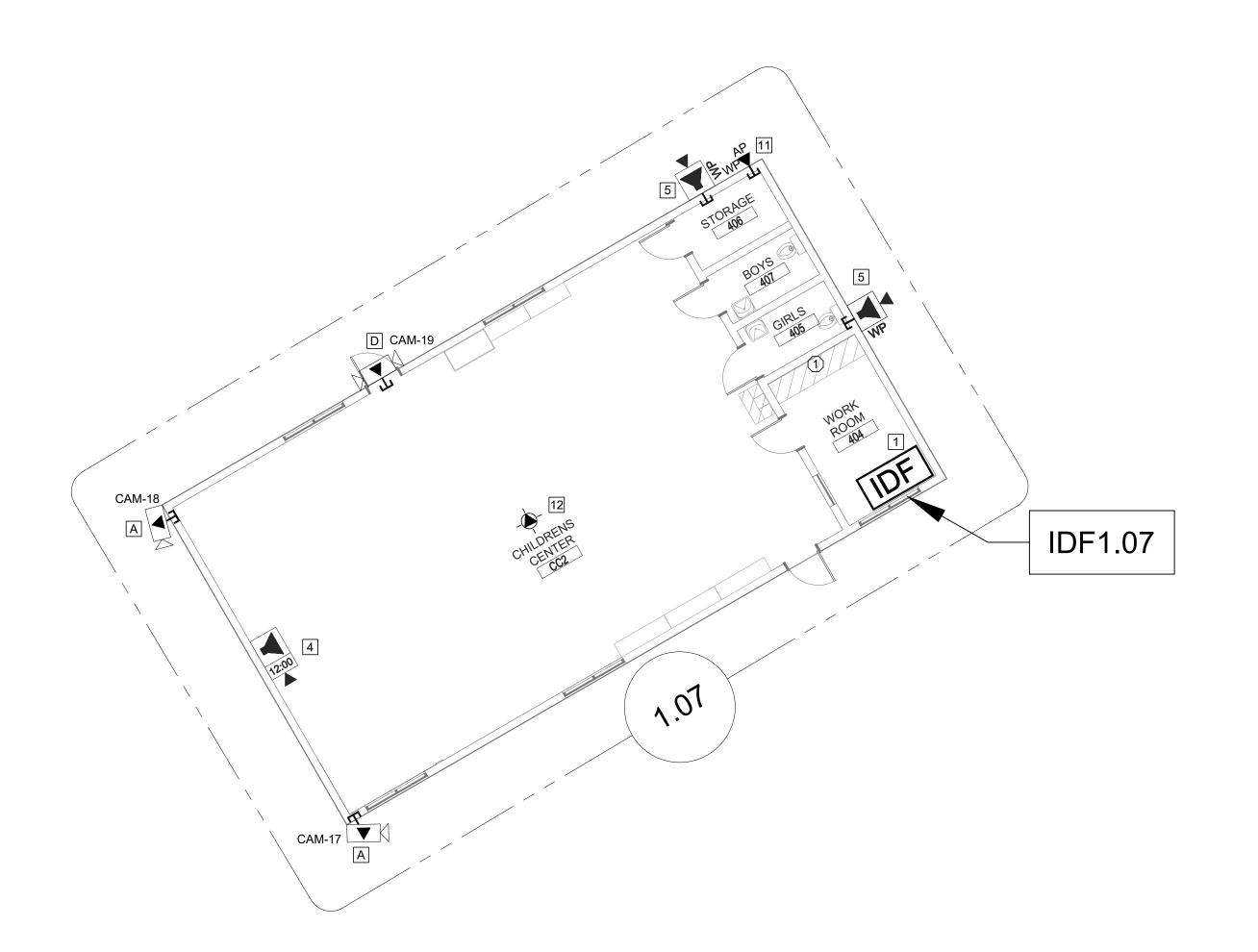












TECHNOLOGY FLOOR PLAN NEW - IDF1.07

0 4 8 12 16

GENERAL NOTES:

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- CONTRACTOR SHALL CONFIRM ALL VIEWS FOR (N) CAMERAS WITH DISTRICT REPRESENTATIVE PRIOR TO PROJECT COMPLETION.

CEILING CONDITION CHART:

DROP IN CEILING TILES.

(2) HARD LID CEILING.

SHEET NOTES:

- A PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL AT BUILDING CORNER. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- B PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON CANOPY

SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.

- PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA UNDER CANOPY
- AT EDGE OF SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP. PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL.
- PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 1 REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- 2 ESTABLISH (N) IDF WITH (N) FIBER HOMERUN TO MDF. SEE T400 FOR BUILD OUT REQUIREMENTS.
- REMOVE (E) CLOCK. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. INTERCEPT CONDUIT ABOVE T-BAR AND FEED THROUGH (E) CLOCK BACKBOX.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX. 5 PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX.
- PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE. 6 REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N)
- RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO ACCOMODATE CLOCK. REWORK (E) DATA DROP IN ADJACENT SURFACE BOX INTO (E) BACKBOX BY FISHING FROM ACCESSIBLE CEILING. DEMO ABANDONED SURFACE BOX AND WIREMOLD TO CEILING.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N) RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM MODULE, REWORK INTO (E) BACKBOX VIA (É) CONDUIT STUB TO ACCESSIBLE
- 8 PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 9 PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGÉ MESSAGE BOARD.
- 10 REMOVE (E) SPEAKER FROM (E) BAFFLE. PROVIDE (N) SPEAKER AND (N) CLASSROOM IP MODULE. MOUNT (N) SPEAKER ON (E) BAFFLE. PROVIDE (N) 1 EA. CAT6A DATA DROP. ROUTE VIA (E) CONDUIT STUB FROM BACKBOX TO ABOVE T-BAR.
- 11 REWORK (E) DATA DROP FOR EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
- 12 REMOVE (E) WIRELESS AP. INSTALL (N) OWNER-PROVIDED WIRELESS AP USING (E) DATA DROP AT SAME LOCATION.
- 13 PROVIDE (N) RIGHT ANGLE WALL MOUNT, OBERON P/N
- 1006-COAP9136 14 PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
- 15 PROVIDE CUT-IN BOX AND FISH TO ACCESSABLE CEILING. 16 UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN
- 17 UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
- 18 UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.



KMM SERVICES, INC

5433 El Camino Ave. Suite 5 Carmichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com

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DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES

> 7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

TELECENTER UPGRADE

SHEET TITLE

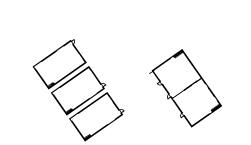
TECHNOLOGY FLOOR PLAN -IDF1.07 AND 1.08

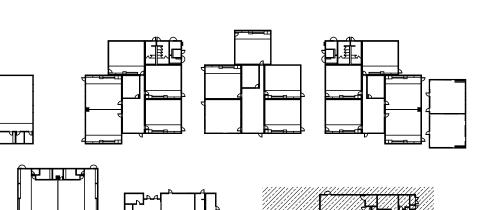
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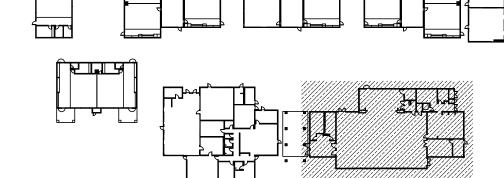
CONSTRUCTION DOCUMENTS

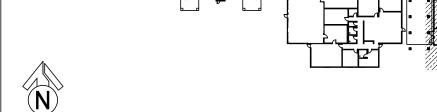
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

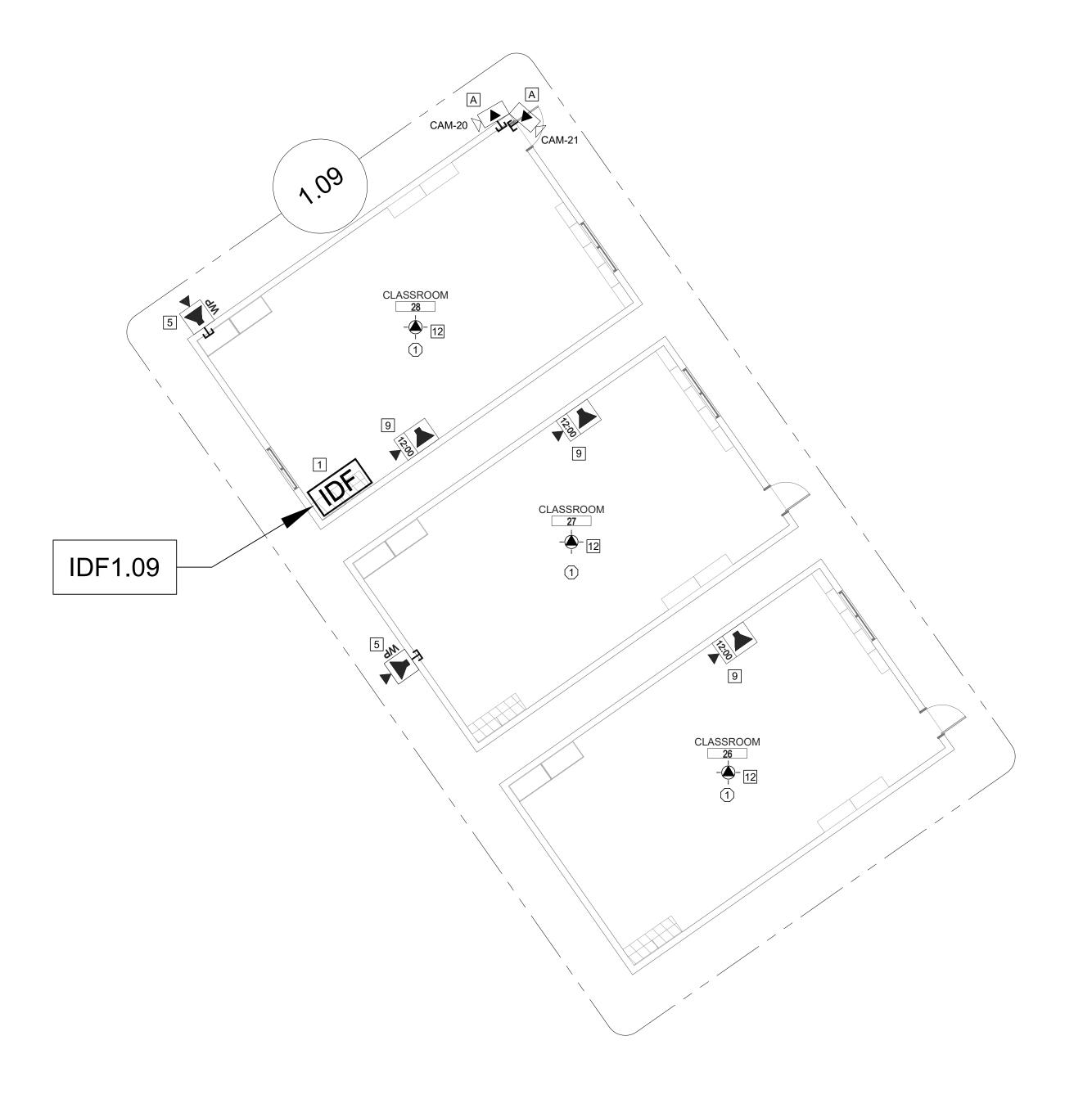
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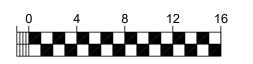












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DROP IN CEILING TILES.

(2) HARD LID CEILING.

SHEET NOTES:

- A PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL AT BUILDING CORNER. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- B PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON CANOPY SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- C PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA UNDER CANOPY AT EDGE OF SOFFIT. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- D PROVIDE (N) EXTERIOR NETWORK SECURITY CAMERA. PROVIDE (N) BACK BOX AS REQUIRED. MOUNT (N) CAMERA ON WALL. PROVIDE (N) 1 EA. CAT6A DATA DROP.
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- REMOVE (E) CLOCK. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. INTERCEPT CONDUIT ABOVE T-BAR AND FEED THROUGH (E) CLOCK BACKBOX.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
- 5 PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE.
- 6 REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N) RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO ACCOMODATE CLOCK. REWORK (E) DATA DROP IN ADJACENT SURFACE BOX INTO (E) BACKBOX BY FISHING FROM ACCESSIBLE CEILING. DEMO ABANDONED SURFACE BOX AND WIREMOLD TO CEILING.
- REMOVE (E) CLOCK/SPEAKER COMBO BAFFLE. PROVIDE (N) RETROFIT BAFFLE WITH (N) SPEAKER, (N) CLASSROOM MODULE, AND (N) IP CLOCK. NOTCH CENTER DIVIDER OF (E) BACKBOX TO ACCOMODATE CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR AND REWORK INTO (E) BACKBOX VIA (É) CONDUIT STUB TO ACCESSIBLE
- 8 PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- 9 PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGÉ MESSAGE BOARD.
- [10] REMOVE (E) SPEAKER FROM (E) BAFFLE. PROVIDE (N) SPEAKER AND (N) CLÁSSROOM IP MODÙLE. MOUNT (N) SPEAKÉR ON (E) BAFFLÉ. PROVIDE (N) 1 EA. CAT6A DATA DRÓP. ROUTE VIA (È) CONDUIT STUB FROM BACKBOX TO ABOVE T-BAR.
- [11] REWORK (E) DATA DROP FOR EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
- 12 REMOVE (E) WIRELESS AP. INSTALL (N) OWNER-PROVIDED WIRELESS AP USING (E) DATA DROP AT SAME LOCATION.
- 13 PROVIDE (N) RIGHT ANGLE WALL MOUNT, OBERON P/N 1006-COAP9136
- PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
- PROVIDE CUT-IN BOX AND FISH TO ACCESSABLE CEILING. 16 UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN
- 17 UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111
- 18 UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.



KMM SERVICES, INC

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DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

SHEET TITLE

TECHNOLOGY FLOOR PLAN -IDF1.09

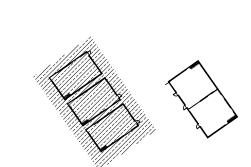
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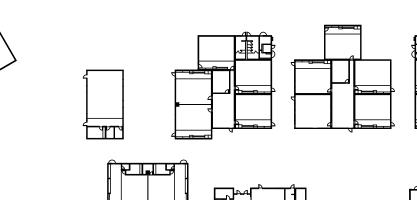
CONSTRUCTION DOCUMENTS

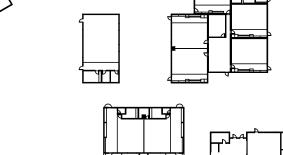
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

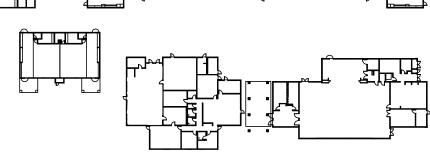
REVISION

T205









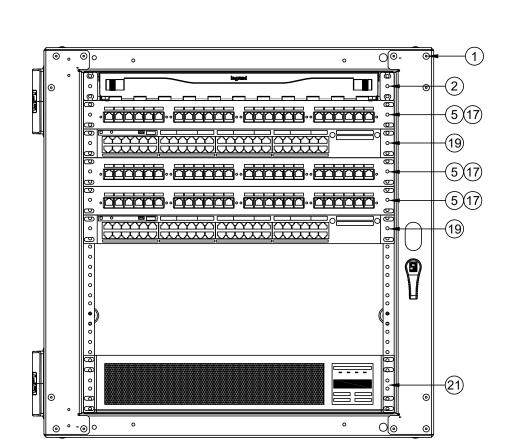
SCOPE OF WORK - IDF 1.02

DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.

- 2. DEMO (E) UPS #13.
- . PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.



RACK - EXISTING CONDITION



RACK - FINAL LAYOUT

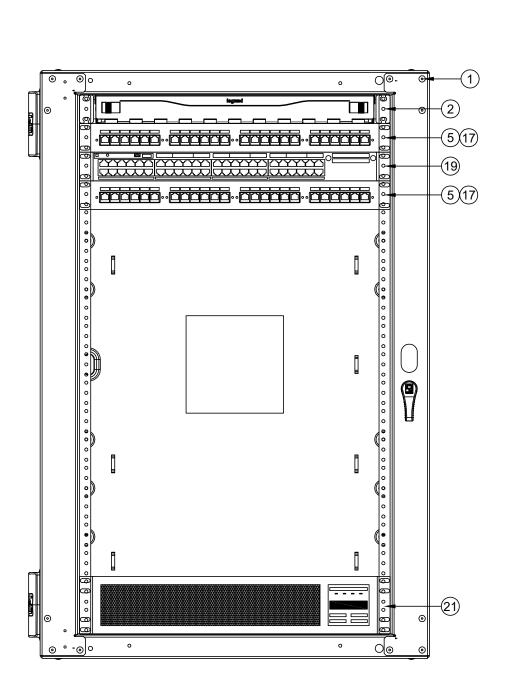
DATA RACK LAYOUT - IDF 1.02
SCALE: NONE

SCOPE OF WORK - IDF 1.01

PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED



RACK - EXISTING CONDITION



RACK - FINAL LAYOUT

DATA RACK LAYOUT - IDF 1.01
SCALE: NONE

GENERAL SCOPE OF WORK: (ALL IDF/MDF)

- 3. RELOCATE (E) DEVICES PER THE ELEVATION.
- ALL (E) PATCH CABLES AND FOR ALL (N) DROPS, COLOR CODED TO DISTRICT STANDARD.

SCOPE OF WORK - MDF 1.00

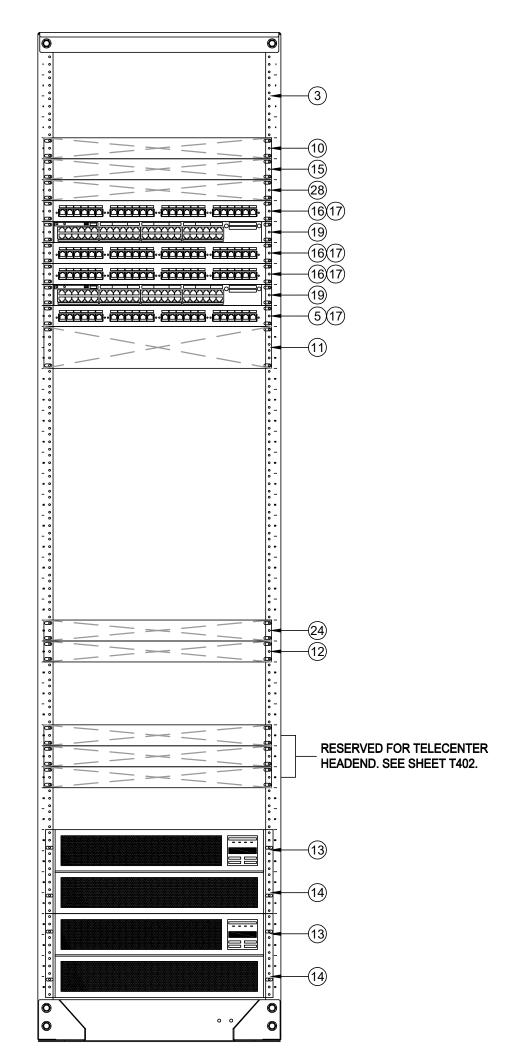
THE (E) MDF MUST BE PROTECTED AND KEPT OPERATIONAL UNTIL THE (N)

- DEMO THE UPPER TWO KRONE PATCH PANELS AND ALL ASSOCIATED
- PROVIDE (N) 24P PATCH PANELS PER THE ELEVATION.
- RE-LABEL ALL (E) DROPS PER 11/T800 AT BOTH PATCH PANEL AND FIELD AND BOTH ENDS OF CABLE.
- DEMO ALL MM FIBER CABLES TERMINATED IN THE ORTRONICS FIBER LIU.
- ROUTE POWER FOR ALL RACK COMPONENTS SO THEY ARE PROTECTED BY THE UNINTERRUPTIBLE POWER SUPPLIES.

- . REMOVE ALL (E) RACK-MOUNTED CABLE MANAGER(S).
- PROVIDE (N) REAR CABLE MANAGEMENT BAR(S) AT EACH PATCH PANEL AND DRESS (E) CABLES FOR STRAIN RELIEF PER 11/T800.
- 4. INSTALL (N) OWNER-FURNISHED SWITCHES PER THE
- PROVIDE (N) 12" SLIMLINE CAT6A PATCH CABLES TO REPLACE

SYMBOL	DESCRIPTION	MFG	PART NUMBER	NOTES / DETAIL REFERENCE
1	RACK CABINET	EXISTING	EXISTING	N/A
2	(E) 1U FIBER LIU	EXISTING	EXISTING	N/A
3	(E) 4U FIBER LIU	EXISTING	EXISTING	N/A
4	(E) 2U CABLE MANAGER	EXISTING	EXISTING	DEMO
(5)	(E) 1U 24P PATCH PANEL	EXISTING	EXISTING	RELOCATE PER ELEVATION
6	(E) 2U 48P PATCH PANEL	EXISTING	EXISTING	RELOCATE PER ELEVATION
7	(E) 24P SWITCH	EXISTING	EXISTING	DEMO
8	(E) 48P SWITCH	EXISTING	EXISTING	DEMO
9	(E) CCTV SWITCH AND PSU	EXISTING	EXISTING	DEMO
10	(E) CORE SWITCH	EXISTING	EXISTING	N/A
11)	(E) VOIP GATEWAY	EXISTING	EXISTING	N/A
12)	(E) NVR	EXISTING	EXISTING	N/A
13	(E) UPS	EXISTING	EXISTING	N/A
14)	(E) UPS BATTERY	EXISTING	EXISTING	N/A
15)	(E) CWDM CHASSIS	EXISTING	EXISTING	N/A
16	(N) 1U 24P PATCH PANEL	ORTRONICS	SPKSU24	N/A
17)	(N) REAR CABLE MANAGEMENT BAR	ORTRONICS	OR-CMBFR0RU	N/A
18	(N) 24P SWITCH	CISCO	OFCI	N/A
19	(N) 48P SWITCH	CISCO	OFCI	N/A
20	(N) UPS - 1000VA	N1C	N1C.L1000	N/A
21)	(N) UPS - 1500VA	N1C	N1C.L1500	N/A
22	(N) UPS - 2000VA	N1C	N1C.LR2000	N/A
23	(N) UPS BATTERY	N1C	N1C.L4850EBM2U	N/A
24)	(N) 1U RACK MOUNT MONITOR	TRIPP LITE	B021-000-19-HD2	N/A
25)	(N) 1U FIBER LIU	ORTRONICS	EQ01U-CHC	WITH SPLICE TRAY AND FIBE ADAPTERS AS REQ'D.
26	(E) BACNET ROUTER	EXISTING	EXISTING	N/A
27)	(N) RACK CABINET 19U	CHATSWORTH	12419-736	N/A
28	(E) SERVICE PROVIDER LIU	EXISTING	EXISTING	N/A

EQUIPMENT SCHEDULE:



RACK - EXISTING CONDITION

RACK - FINAL LAYOUT



KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFETY

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SITE KEY PLAN

PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES

TELECENTER UPGRADE 7680 WINDBRIDGE DRIVE

SACRAMENTO, CA 95831 SHEET TITLE

TECHNOLOGY RACK ELEVATIONS

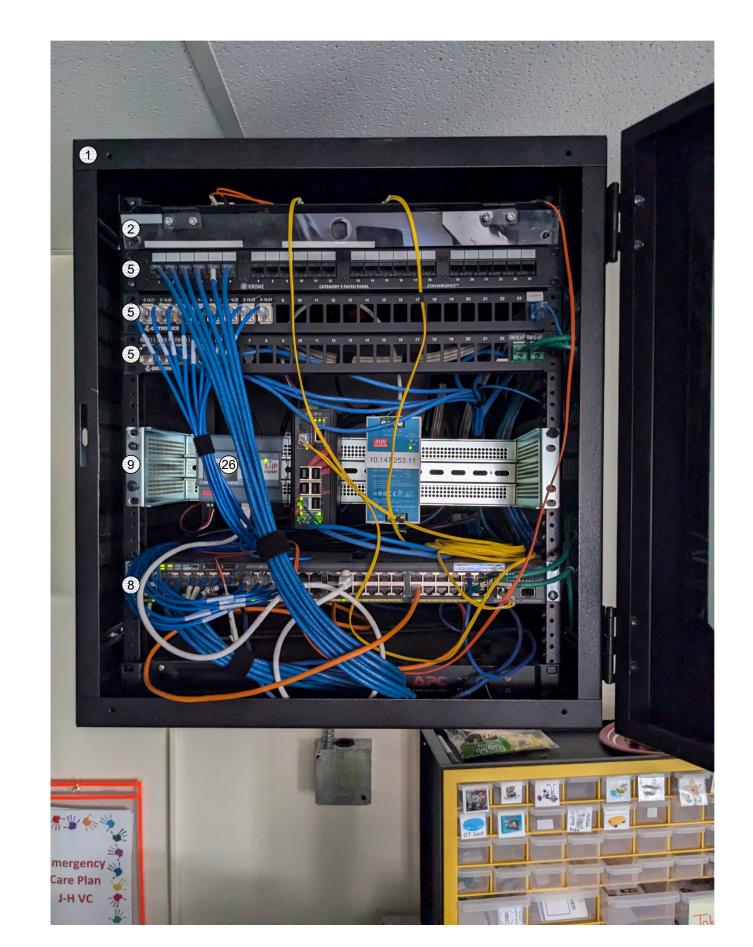
DRAWING STATUS

CONSTRUCTION DOCUMENTS

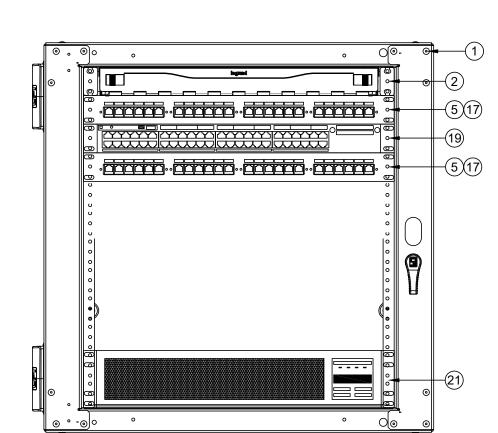
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

SCOPE OF WORK - IDF 1.06

- DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.
- 2. TERMINATE 3 EA. (E) CCTV DATA DROPS ON (N) BLUE KEYSTONES.
- 3. DEMO (E) CCTV SWITCH AND POWER SUPPLY AND RETURN TO DISTRICT.



RACK - EXISTING CONDITION

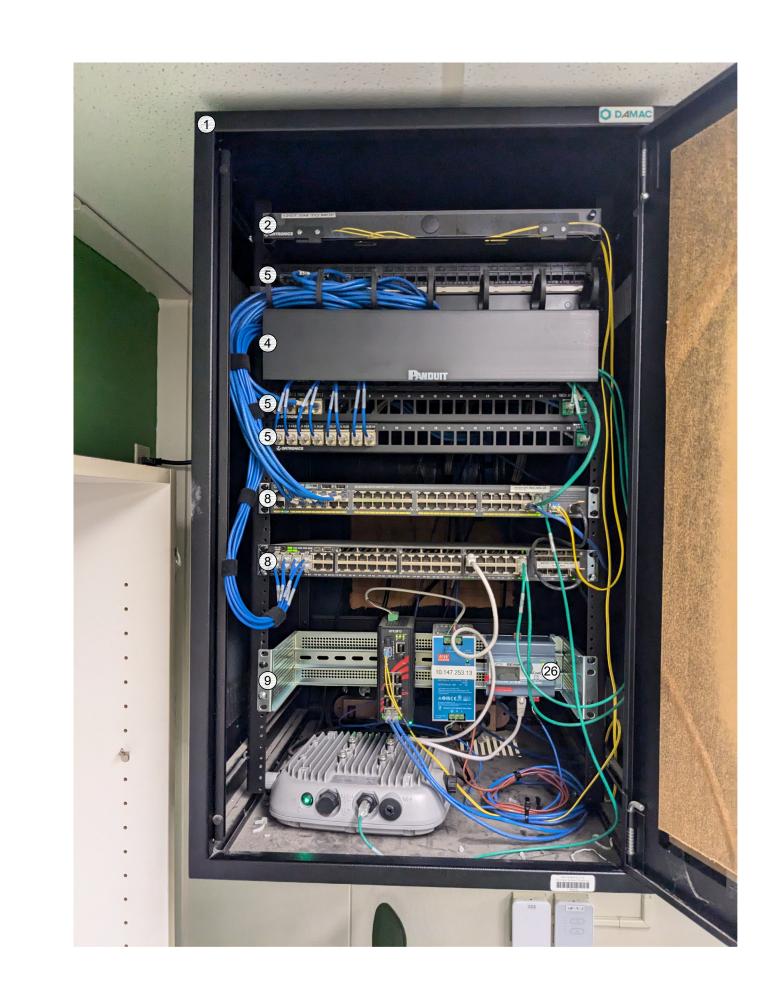


RACK - FINAL LAYOUT

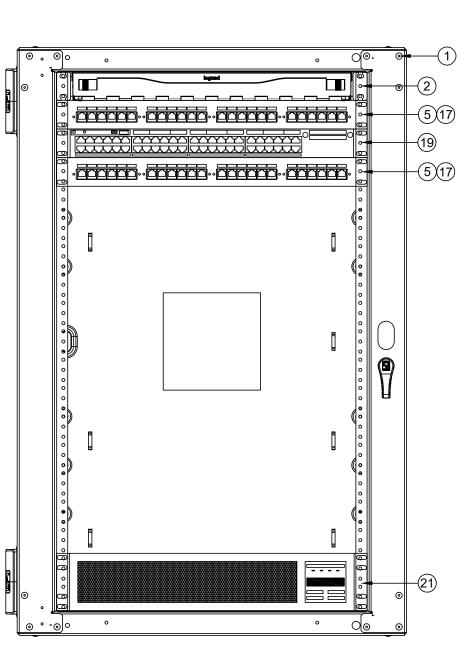
DATA RACK LAYOUT - IDF 1.06
SCALE: NONE

SCOPE OF WORK - IDF 1.05

- DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.
- TERMINATE 2 EA. (E) CCTV DATA DROPS ON (N) BLUE KEYSTONES.
- . DEMO (E) CCTV SWITCH AND POWER SUPPLY AND RETURN TO DISTRICT..



RACK - EXISTING CONDITION



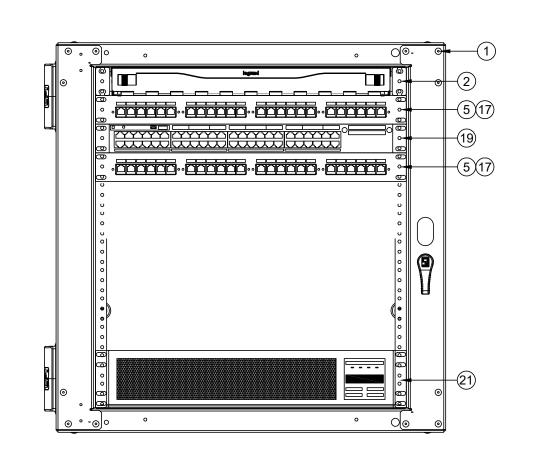
RACK - FINAL LAYOUT

SCOPE OF WORK - IDF 1.04

- DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.
- 2. DEMO (E) UPS #13.
- PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED



RACK - EXISTING CONDITION



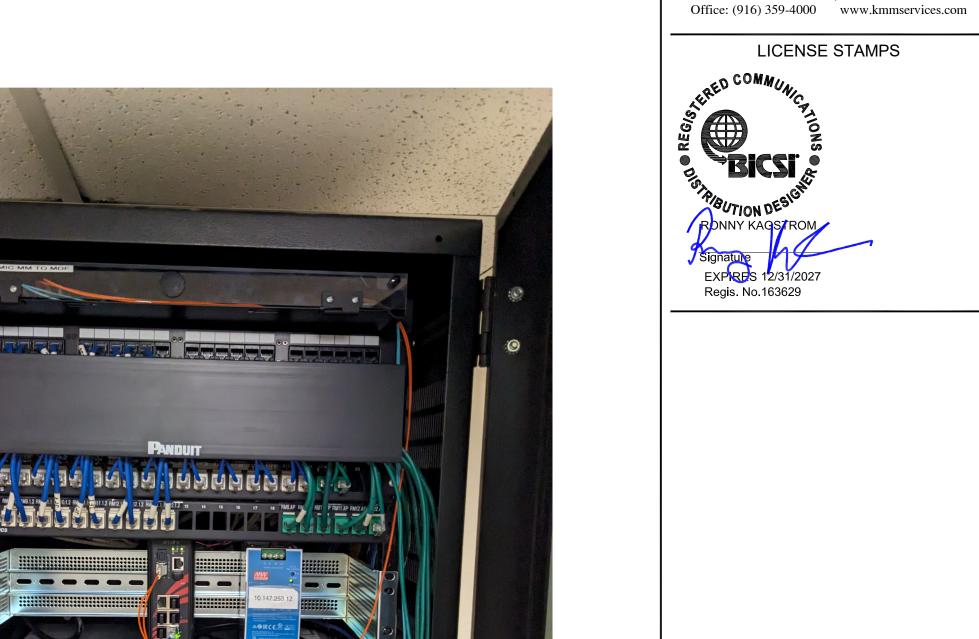
RACK - FINAL LAYOUT

REFER TO SYMBOL LEGEND ON T400 FOR ALL DEVICES ON THIS SHEET

SCOPE OF WORK - IDF 1.03

DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.

- TERMINATE 3 EA. (E) CCTV DATA DROPS ON (N) BLUE KEYSTONES.
- DEMO (E) CCTV SWITCH AND POWER SUPPLY AND RETURN TO
- PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.



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TECHNOLOGY&FIRE LIFE SAFETY

5433 El Camino Ave. Suite 5 Carmichael, CA 95608

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DESCRIPTION

SITE KEY PLAN

PROJECT

SACRAMENTO CITY

UNIFIED SCHOOL DISTRICT

MATSUYAMA ES

TELECENTER UPGRADE

7680 WINDBRIDGE DRIVE

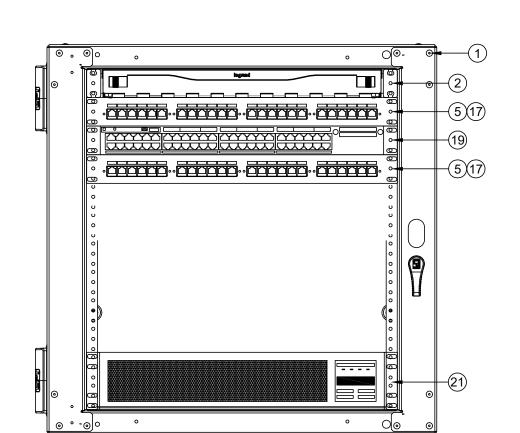
SACRAMENTO, CA 95831

SHEET TITLE

TECHNOLOGY

RACK ELEVATIONS

DRAWING STATUS



RACK - EXISTING CONDITION

RACK - FINAL LAYOUT

CONSTRUCTION DOCUMENTS

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BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07
DEVISION.	

T701

DATA RACK LAYOUT - IDF 1.05
SCALE: NONE

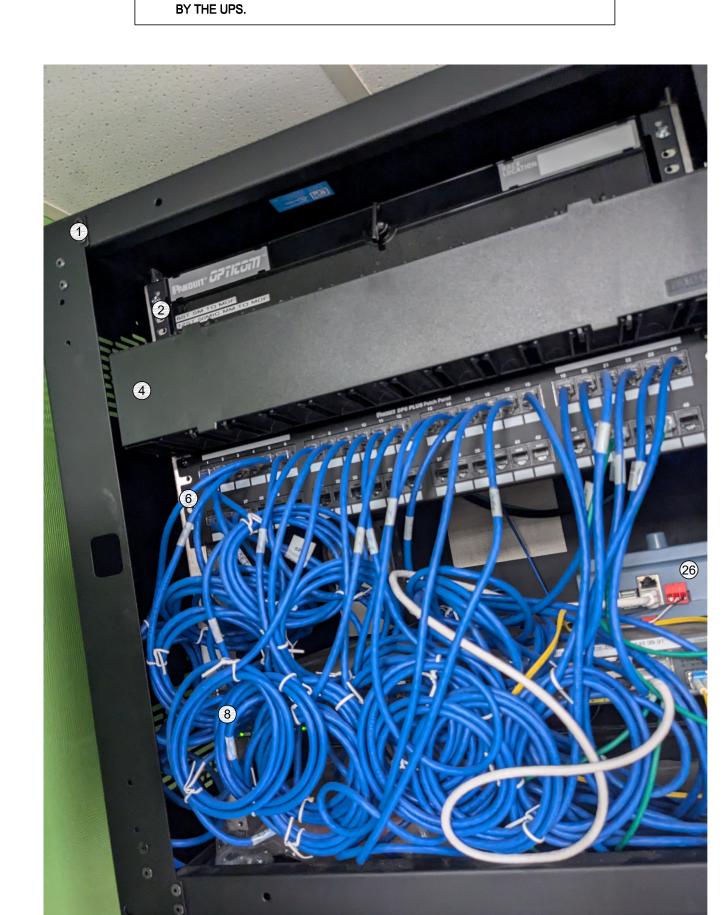
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SCALE: NONE

DATA RACK LAYOUT - IDF 1.03
SCALE: NONE

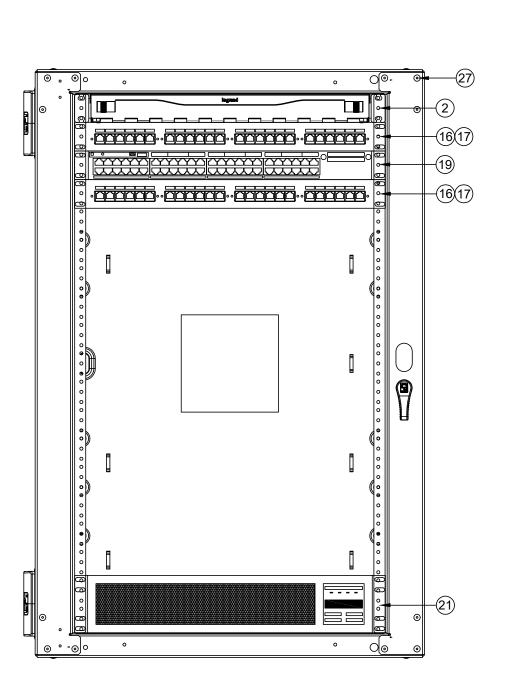
SCOPE OF WORK - IDF 1.10

- 1. PROVIDE (N) 19U RACK MOUNT CABINET.
- 2. PROVIDE (N) 24-STRAND SM FIBER TO MDF.
- 3. PROVIDE (N) PATCH PANELS PER THE ELEVATION.
- 4. PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (N) CABINET.
- . PROVIDE (N) UNTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.

- SCOPE OF WORK IDF 1.09
- PROVIDE (N) 19U RACK MOUNT CABINET. INSTALL AT SAME LOCATION AS (E) CABINET.
- REWORK (E) SM FIBER AND LIU INTO (N) CABINET.
- REWORK (E) 7 EA. COPPER DATA DROPS INTO (N) CABINET.
- . REWORK (E) BACNET ROUTER INTO (N) CABINET. PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR
- PROVIDE (N) UNTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED



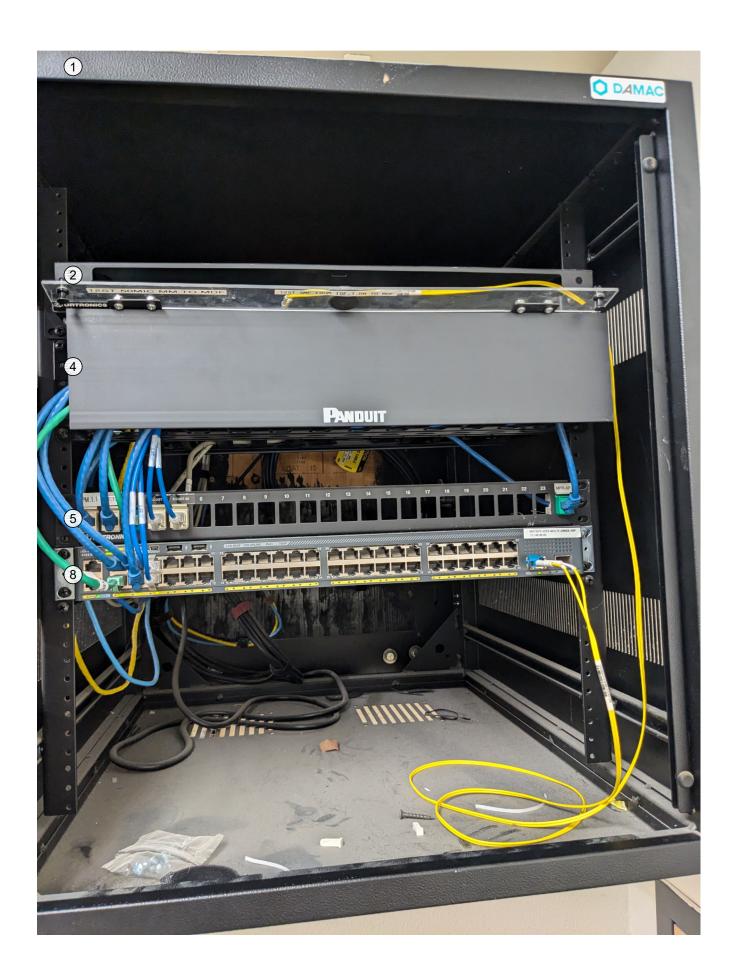
RACK - EXISTING CONDITION



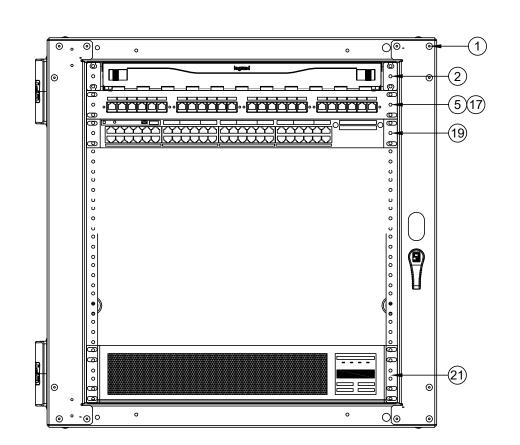
RACK - FINAL LAYOUT

SCOPE OF WORK - IDF 1.08

PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED



RACK - EXISTING CONDITION



RACK - FINAL LAYOUT

REFER TO SYMBOL LEGEND ON T400 FOR ALL DEVICES ON THIS SHEET

SCOPE OF WORK - IDF 1.07

- PROVIDE (N) 19U RACK MOUNT CABINET. INSTALL AT SAME LOCATION
- REWORK (E) SM FIBER AND LIU INTO (N) CABINET.
- REWORK (E) 7 EA. COPPER DATA DROPS INTO (N) CABINET.
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (N) CABINET.
- PROVIDE (N) UNTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.

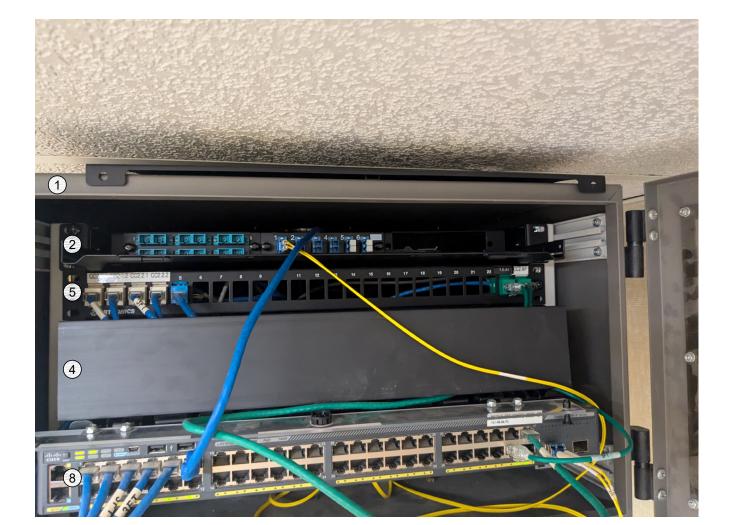


KMM SERVICES, INC

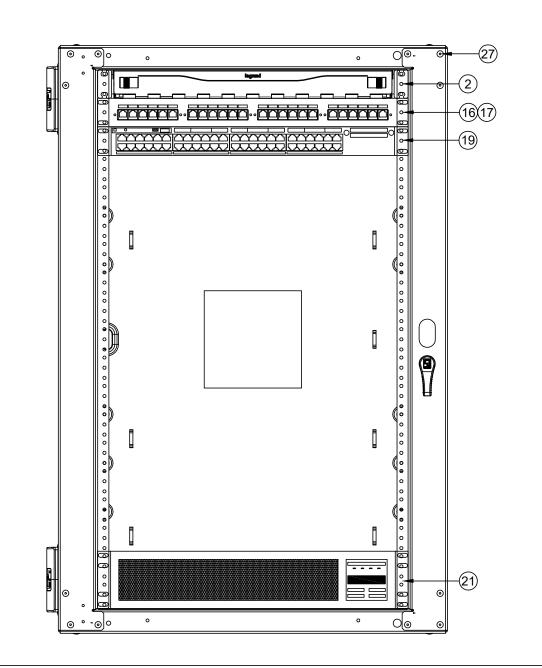
5433 El Camino Ave. Suite 5 Carmichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com

TECHNOLOGY&FIRE LIFE SAFETY





RACK - EXISTING CONDITION



RACK - FINAL LAYOUT

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SHEET REVISIONS DELTA DESCRIPTION

SITE KEY PLAN

PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

SHEET TITLE **TECHNOLOGY** SINGLE LINE DIAGRAMS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07
REVISION	

T702

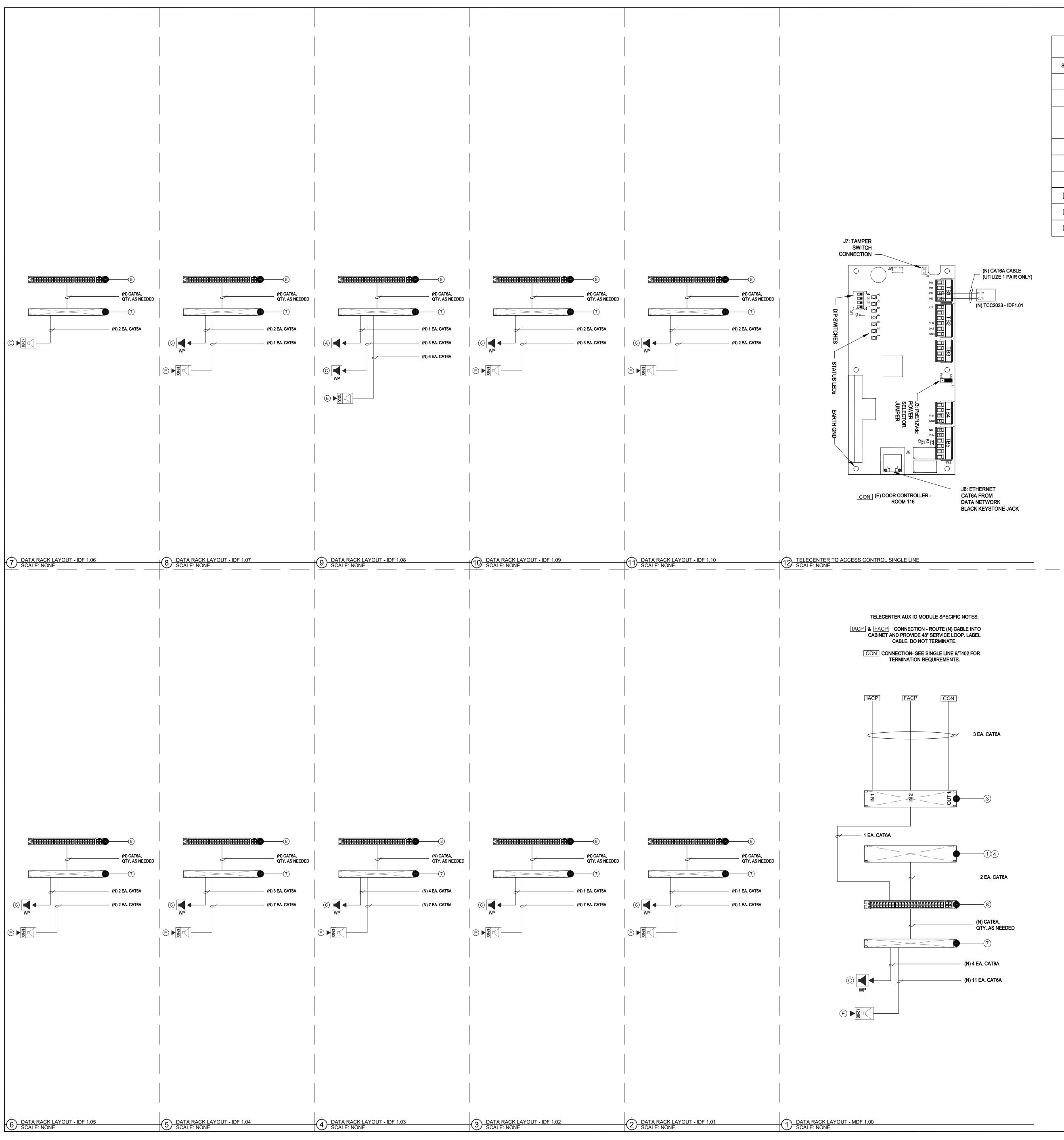
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SCALE: NONE

DATA RACK LAYOUT - IDF 1.10
SCALE: NONE

RACK - FINAL LAYOUT

DATA RACK LAYOUT - IDF 1.08
SCALE: NONE

- B DATA RACK LAYOUT - IDF 1.07
SCALE: NONE



	EQUIPMENT AND MATERIALS ARE CON	T INTERCOM SCHEINTRACTOR FURNISHED, IN		ED (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
	TELECENTER U AUX. IN/OUT. MODULE		TCC2033	N/A
3	UNIVERSAL RACK MOUNTING KIT		TCC2099	N/A
4	TELECENTER U PROGRAM LINE INPUT MODULE		TCC2055	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

A	EQUIPMENT ALL EQUIPMENT AND MATERI	F SCHEDULE INTER TALS ARE CONTRACTOR FO		
	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
TELECE	NTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT INSIDE ENCLOSURE
8 OHM, 8	" SPEAKER WITH RJ45 CONNECTOR	RAULAND	US0880	N/A

©	EQUIPMEN ALL EQUIPMENT AND MATER	T SCHEDULE EXTERIALS ARE CONTRACTOR		
	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
TELECE	NTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT INSIDE BUILDING
TELECE	NTER U BREAKOUT MODULE	RAULAND	603101	MOUNT INSIDE BUILDING
8 OHM, 8	" MOISTURE RESISTANT SPEAKER	LOWELL	8C10MRB	N/A
GRILLE \	/ANDAL RESISTANT	RAULAND	ACC1012	N/A
SURFAC	E MOUNT SPEAKER ENCLOSURE	RAULAND	ACC1113	N/A
(N) SURF WHITE	FACE MOUNTED 4 GANG BACKBOX -	FSR	SMWB-4G-WHT	MOUNT INSIDE BUILDING

E	EQUIPMENT SCHED ALL EQUIPMENT AND MATERI			
	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
TELECE	NTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT IN ENCLOSURE
IP DIGITA	AL CLOCK	RAULAND	TCC3011S	N/A
BAFFLE	ASSEMBLY WITH SPEAKER	RAULAND	ACC3011S	N/A
SURFAC COMBO	E MOUNT ENCLOSURE CLOCK/SPEAKER	RAULAND	ACC3011SBB	N/A

C OUTPUT: CLOSURE TO ACCESS CONTROL

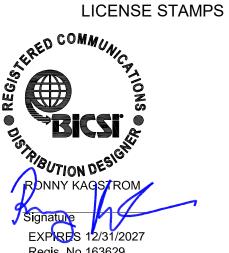
	INTE		MATRIX: TO OTHER SYSTI	EMS	
MODU	JLES		TCC2033	(IDF 1.01)	
I/O PC	PRTS	IN-1	IN-2	OUT-1	OUT-2
EVENT: LOCKDO	WN			C	
EVENT: INTRUSIC ALARM ACTIVE	DN	Α			
EVENT: FIRE ALA ACTIVE	RM		В		
А	INPUT: CLOSURE	FROM INTRUSIC	ON ALARM PANEL		
В	INPUT: CLOSURE	FROM FIRE ALA	RM PANEL		



KMM SERVICES, INC

5 4 3 3 E 1 C amino Ave. Suite 5 C armichael, C A 9 5 6 0 8 Office: (916) 359-4000 www.kmmservices.com

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SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES

TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831

ACRAMENTO, CA 95

SHEET TITLE

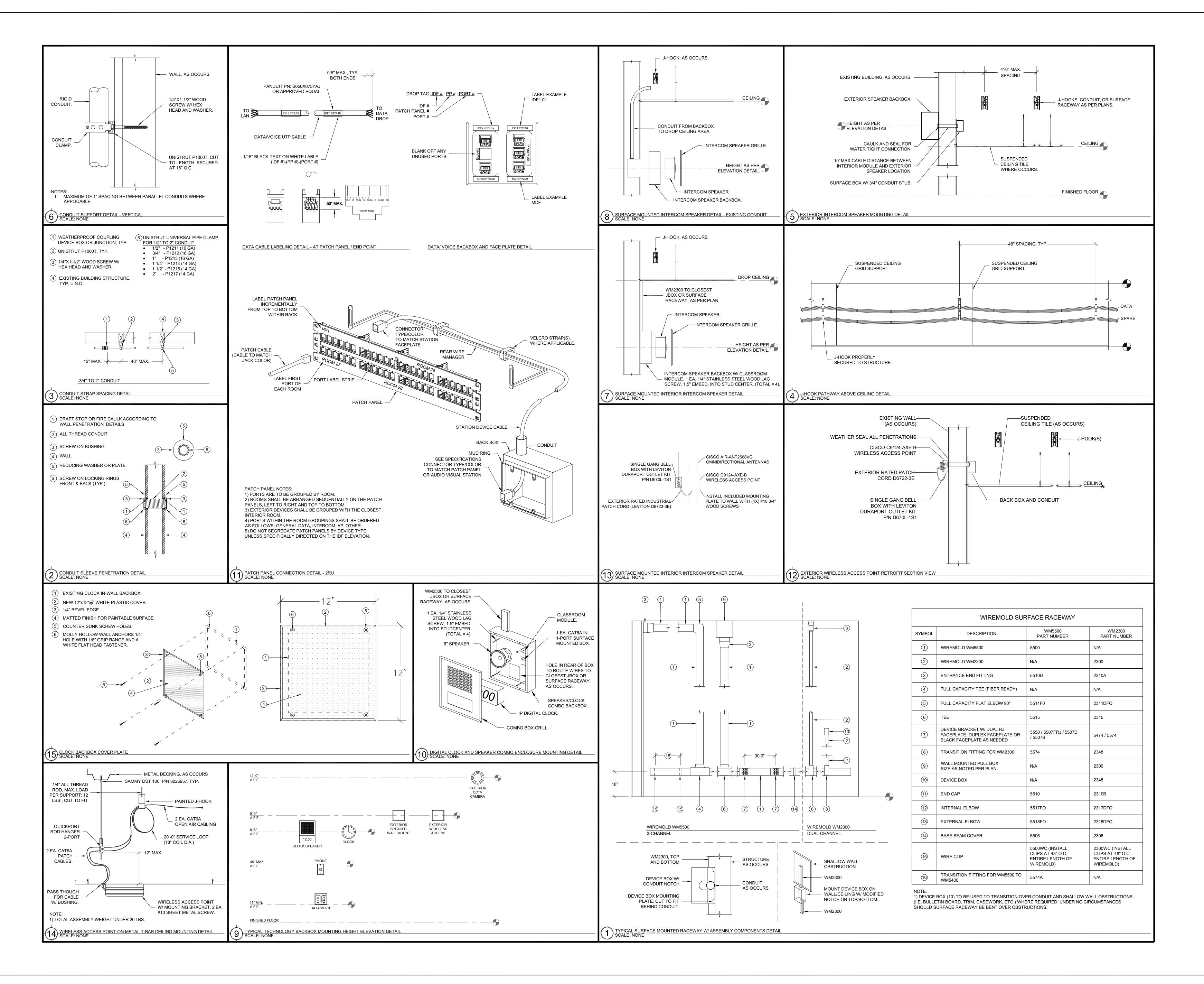
TECHNOLOGY SINGLE LINE DIAGRAMS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

REVISION





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BICSI RONNY KAGSTROM
Signature
EXPIRES 12/31/2027
Regis. No.163629

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DELTA DESCRIPTION DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT

MATSUYAMA ES
TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE
SACRAMENTO CA 95831

SACRAMENTO, CA 95831

SHEET TITLE
TECHNOLOGY

DETAILS

CONSTRUCTION DOCUMENTS

DRAWING STATUS

 PROJECT NO:

 BID PACKAGE:
 0242-411

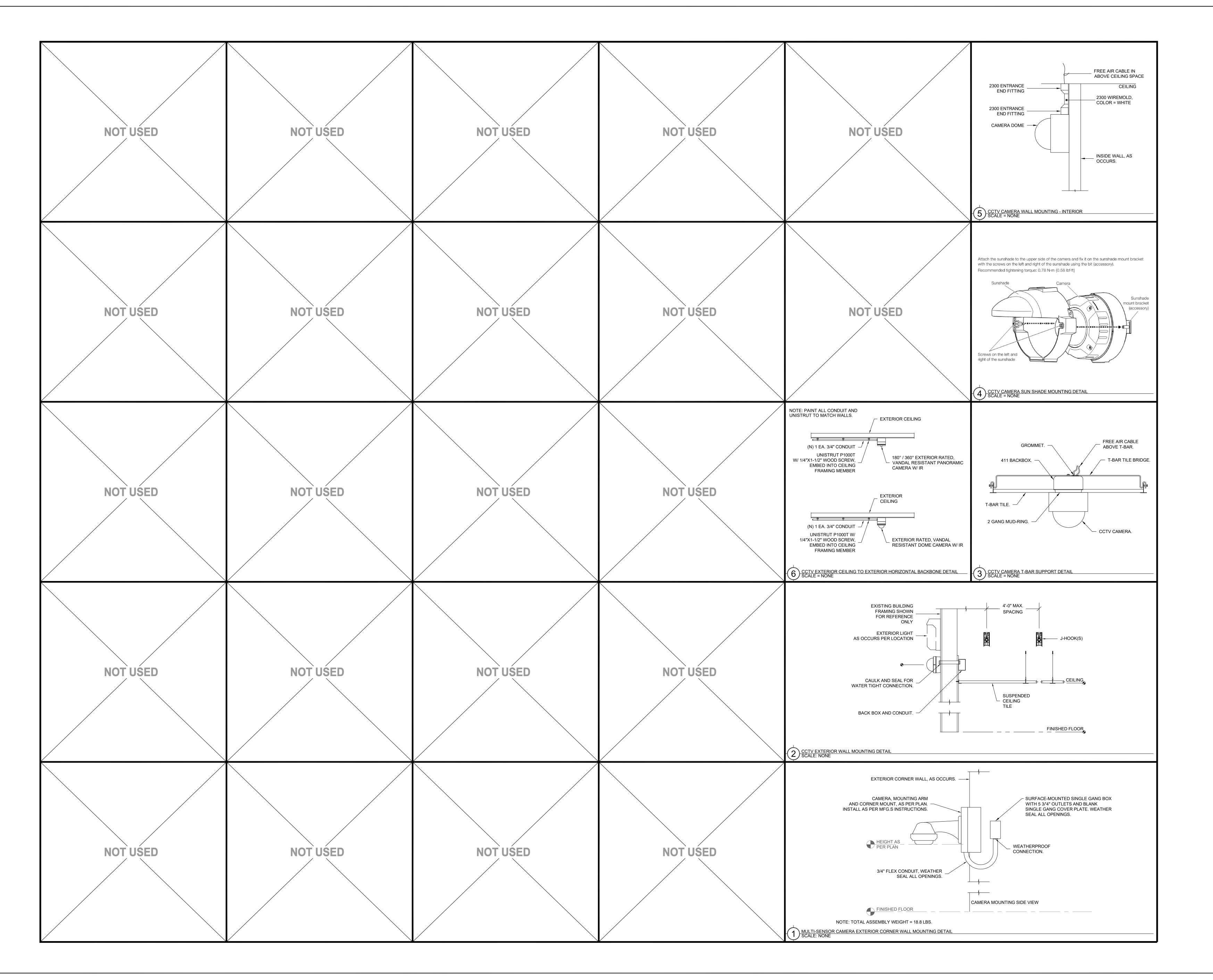
 DESIGNED BY:
 CS

 CHECKED BY:
 SD

 ISSUE DATE:
 2025-07-07

 WORKING DATE:
 2025-07-07

REVISION





KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFETY

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DELTA DESCRIPTION

SITE KEY PLAN

PROJECT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

> 7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

SHEET TITLE

DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

1	PROJECT NO:	
	BID PACKAGE:	0242-411
	DESIGNED BY:	CS
	CHECKED BY:	SD
	ISSUE DATE:	2025-07-07
	WORKING DATE:	2025-07-07
	REVISION	



with steel mud rings in framed wall assemblies. When protective material is used in outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). The max outlet box dimensions, hourly rating, type of stud, use of stud cavity insulation and type of faceplate are tabulated below. Additional general construction features shall comply as follows: A. **Studs** - Unless otherwise specified, the minimum stud width is 3-1/2 in, (89 mm).

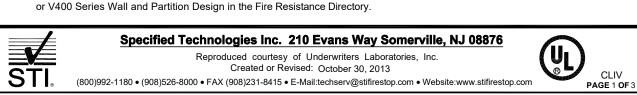
B. Stud Cavity Insulation - Where indicated in the table below, stud cavity insulation to consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3). Unless indicated as required, stud cavity insulation

C. **Wall Design** - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory. D. Pad Dimensions - The minimum dimensions of the insert pad are shown in the table below. Pads may be cut to achieve

Product	Max Outlet Box Size, in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size, in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	No	Steel	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	Yes	Plastic	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	No	Steel	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	Yes	Plastic	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep		-	1-7/8 x 3-3/4 (48 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	No	Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	Yes	Plastic	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 14 x 2-1/2 (114 x 356 x 64) deep	-	-	4-1/2 x 13-3/4 (114 x 349)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-

SpecSeal Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. When nonmetallic box is used with Type NM cable, a 3/16 in, (5 mm) thickness of putty shall be formed around the cable at its connection to the box and extending a min of 1 in. (25 mm). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are tabulated below. Additional general construction features shall comply as follows: A. **Studs** - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. Stud Cavity Insulation - Unless indicated as required, stud cavity insulation is optional and may consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3). C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400



. Metallic Outlet Boxes - Except as indicated in the table below, when steel outlet boxes are used and the boxes are interconnected by means of electrical metallic tube or conduit, a ball of putty is to be installed to plug the open end of each

electrical metallic tube (EMT) or conduit within the outlet box. When MC cable is used and/or when the outlet boxes are not interconnected, the ball of putty is not required. . Nonmetallic Outlet Boxes - The box manufacturer is indicated in the table below. Boxes shall bear a 2 hr rating under the Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire

Model	Max Outlet Box	Outlet	Outlet	Pad Size		Stud	_ ,	Face Plate	
	Size in. (mm)	Box Type	Box Mfr	in. (mm)	hr		Insulation	Type	Ball
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Steel	No
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Plastic	Yes
-	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 14 x 2-1/2 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polyvinyl Chloride	Lamson & Sessions or Carlon	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Allied Moulded Prods	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polycarbonate	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	2-1/4 x 3-3/4 x 2-3/4 (57 x 95 x 70) deep	Polyvinyl Chloride	Pass & Seymour	-	1 or 2	Wood	-	Plastic or Steel	N.A.

SpecSeal Putty Pads, for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass (nom 0.5 pcf or 8 kg/m3) or mineral fiber (nom 4 pcf or 64 kg/m3) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected with conduit or, when interconnected, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13mm) The seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each

Type MC cable, electrical metallic tube (EMT) or conduit to the box. SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads, for use with maximum 4 by 4 by 1-1/2 or 2-1/8 in. (102 by 102 by 38 or 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70), Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.



Created or Revised: October 30, 2013 (800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com

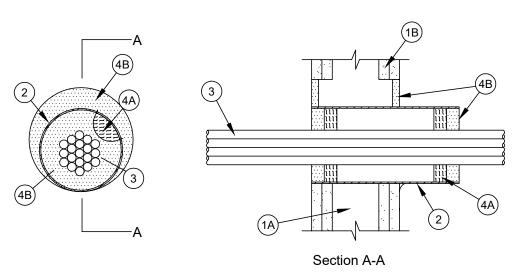
SpecSeal Putty Pads, for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory, Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud unless otherwise noted) including nailing tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 3/16 in. (4.8 mm) thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

SpecSeal EP55 Power Shield Box Inserts, for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Power Shield Box Insert is to be applied to the back surface of the box and may be slit to accommodate communications-circuit accessories. When the Power Shield Box Insert is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

> Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876 Reproduced courtesy of Underwriters Laboratories, I Created or Revised: October 30, 2013 (800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.cd

Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 System No. W-L-3210

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 3/4 Hr	FT Rating - 3/4 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft (See Items 3 and 4B)	FH Ratings - 1 and 2 Hr (See Item 1)
L Rating at 400°F - Less Than 1 CFM/sq ft (See Items 3 and 4B)	FTH Rating - 3/4 Hr
	L Rating at Ambient - Less Than 5.1 L/S/m² (See Items 3 and 4B)
	L Rating at 204°F - Less Than 5.1 L/S/m² (See Items 3 and 4B)

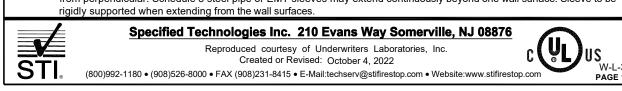


Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, V300, U400, V400, or W400 Series Wall and Partition Designs in the UL Fire

- Resistance Directory and shall include the following construction features: A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
- B. **Gypsum Board*** Thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6-1/2 in. (165 mm) when sleeve (Item 2) is installed. Max diam of opening is 4 in. (102 mm) when sleeve is not

The hourly F and FH rating of the firestop system are equal to the hourly fire rating of the wall assembly in which

Steel Sleeve - (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT), steel conduit, Schedule 5 (or heavier) steel pipe sleeve or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between the steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 2 in. (51 mm). When Schedule 5 steel pipe or EMT is used, sleeve may be installed flush with or extend up to 18 in. (46 cm) beyond one or both wall surfaces. Steel sleeve may be installed at an angle not greater than 45 degrees from perpendicular. Schedule 5 steel pipe or EMT sleeves may extend continuously beyond one wall surface. Sleeve to be



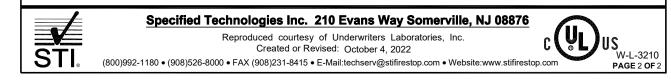
- 3. **Cables** Aggregate cross-sectional area of cables in opening when a steel sleeve (Item 2) is not used, or within steel sleeve to be max 48 percent of the aggregate cross-sectional area of the opening or sleeve. Cables to be bundled and rigidly supported on both sides of wall assembly. When the sleeve is installed, the annular space between the cables and the sleeve shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). When the sleeve (Item 2) is not used, the annular space between the cables and the opening shall be a min 0 in. (point contact) to a max 1/2 in. (13 mm). When L Ratings for penetrants are required, min separation between cables and between cables and periphery of opening or the sleeve os 1/8 in. (3 mm). Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees.
- Any combination of the following types and sizes of copper conductor cable may be used: A. Max 200 pair No. AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) or plenum-rated jacketing
- B. Max 3/C No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and
- Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and
- D. Max 7/C No. 2/0 AWG (or smaller) multiconductor power and control cables with XLPE or PVC insulation and XLPE
- or PVC iacket. . Max RG/U (or smaller) coaxial cable with fluorinated ethylene or plenum-rated insulation and jacketing.
- Max 62.5/48 fiber optic cable with PVC or plenum-rated insulation and jacketing.
- G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC or plenum-rated insulation and jacket. H. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel Metal-Clad# or Armored-Clad# cable. Max 3/4-in. (19 mm) diam copper ground cable with or without a PVC jacket.
- 4. **Firestop System** The firestop system shall consist of the following: A. Packing Material - When required (See table in Item 4B), min 1 in. (25 mm) thickness of min 4.0 pcf (64 kg/m ³) mineral wool batt insulation firmly packed into each end of sleeve (Item 2) as a permanent form. Packing material to be recessed from each end of sleeve as required to accommodate the required thickness of fill material. When the
- sleeve is not used, the packing material is not required. B. Fill, Void or Cavity Material* - Sealant or Putty - When sleeve (Item 2) is used, fill material applied to appropriate thickness within steel sleeve as shown in the table below, flush with edges of steel sleeve on both surfaces of wall. Min 1/2 in. (13 mm) thickness of fill material installed into annular space between sleeve and wall flush with both surfaces of the wall. Min 1/2 in. (13 mm) diam bead of sealant or "rope" of putty shall be applied around the perimeter of the sleeve on each side of the wall when sleeve extends beyond surface of wall and is installed at continuous point contact. When sleeve is not used, a min 5/8 in. (16 mm) thickness of fill material shall be applied within the annulus, flush with both surfaces of the wall. At point contact location, apply min 1/4 in. (6 mm) diam bead of fill material at

Sealant or Putty Type	Thickness, In. (mm)	Packing Materia Required
SpecSeal Series SSS Sealant or LCI Sealant	1/2 in. (13)	Yes
SpecSeal Series SSS Sealant or LCI Sealant	1 in. (25)	No
SpecSeal Putty	1 in. (25)	No

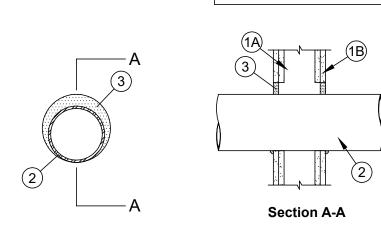
cable/gypsum board interface on both sides of the wall.

Certification (such as Canada), respectively.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty L Ratings apply only when SpecSeal Series SSS or SpecSeal LCI Sealants are used. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL



Underwriters Laboratories. Inc. to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 System No. W-L-1049 ANSI/UL1479 (ASTM E814) CAN/ULC S115 F Ratings - 1 and 2 Hr (See Item 1) F Ratings - 1 and 2 Hr (See Item 1) T Rating - 0 Hr FT Rating - 0 Hr L Rating At Ambient - Less Than 1 CFM/sq ft FH Ratings - 1 and 2 Hr (See Item 1) L Rating At 400 F - Less Than 1 CFM/sq ft FTH Rating - 0 Hr L Rating at Ambient - Less Than 5.1 L/S/m2 L Rating at 204°C - Less Than 5.1 L/S/m2



- I. Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, V300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features: A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to
- 76mm) clearance is present between the penetrating item and the framing on all four sides. B. **Gypsum Board*** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 38 in. (965 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall
- assembly in which it is installed. 1A. Metallic Sleeve - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

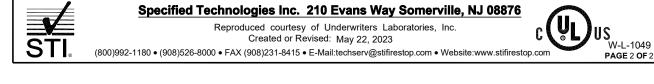


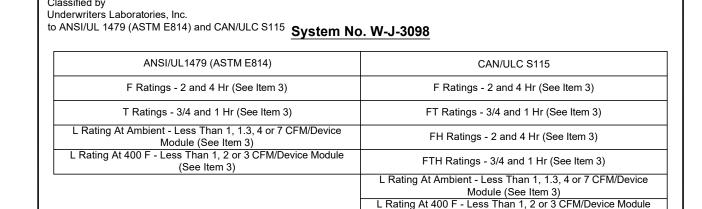
- 2. Through Penetrant One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in, (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A. Steel Pipe Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe. C. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical
- D. Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- F. Stainless Steel Pipe Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) stainless steel pipe. 2A. Through Penetrating Product* - Flexible Metal Piping - As an alternate to Item 2, one nom 2 in. (51 mm) diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the wall assembly.

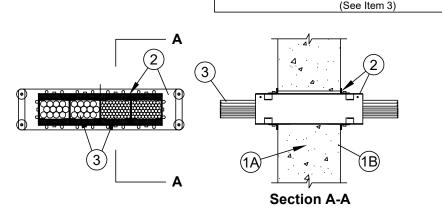
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3. Fill. Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus. flush with both surfaces of wall. At point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall. SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.







- Wall Assembly Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening to be max 1/4 in. (6 mm) larger than width and height dimensions of firestop device(s).
- See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. Firestop Device* - One, two, three, four or seven firestop device modules ganged together. Each firestop device module consists of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in (0 mm, point contact) to max 1/8 in (3.2 mm). In round openings, the space between the firestop device and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Firestop device module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with device. Each firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. As an option, devices may be cast or grouted into wall assembly. When device is cast or grouted in place, the steel wall plates are optional.
- 2A. Firestop Device* Extension Module (Optional, Not Shown) Module attached to ends of 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long firestop device (Item 3) to increase its length to facilitate installation in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 Fire Rated Pathway

SPECIFIED TECHNOLOGIES INC - EZ PATH Extension

		Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876
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- Cables Cables may represent a 0 to 100 percent visual fill within the loading area for each firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used: A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC)
- B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
- D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket. E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
- F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation. G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
- H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm). When Item 3A, 3B, 3C, 3D or 3E is used, the F and FH Ratings are 2 hr and the T, FT and FTH Ratings are 3/4
- hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G or 3H is used, the F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1 hr. The L Rating for each empty firestop device module is less than 1 cfm at ambient and at 400F. When Item 3A is used, the L Rating for each firestop device module with 100 percent visual fill is 4 cfm at ambient
- and 3 cfm at 400F. When Item 3F is used, the L Rating for each firestop device module with 100 percent visual fill is 1.3 cfm at ambient and less than 1 cfm at 400F.When Item 3G or 3H is used, the L Rating for each firestop device module with 100 percent visual fill is 7 cfm at ambient and 2 cfm at 400F. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

	Specified Technologies Inc. 210 Evans Wa
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PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES TELECENTER UPGRADE

SITE KEY PLAN

7680 WINDBRIDGE DRIVE SACRAMENTO, CA 95831

SHEET TITLE

DRAWING STATUS

CONSTRUCTION DOCUMENTS

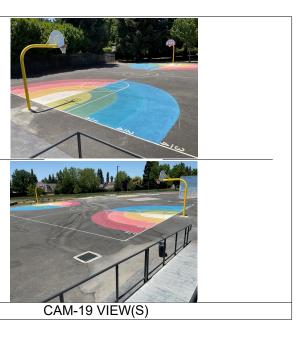
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	CHECKED BY:	SD
	ISSUE DATE:	2025-07-07
	WORKING DATE:	2025-07-07

REVISION



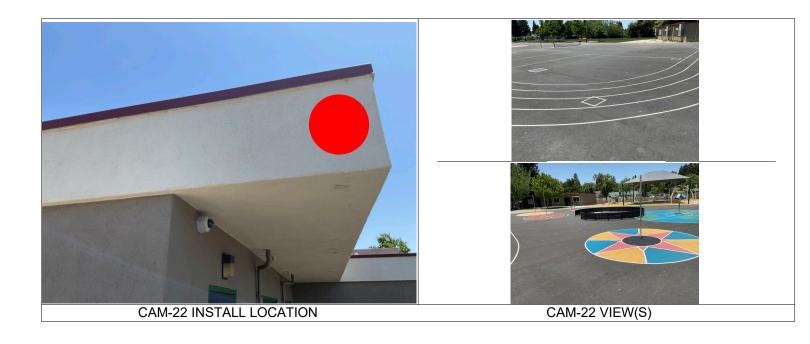


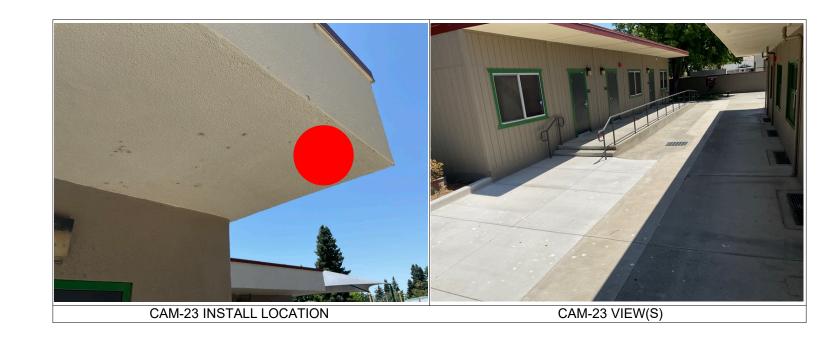
















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DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT MATSUYAMA ES

TELECENTER UPGRADE 7680 WINDBRIDGE DRIVE

SACRAMENTO, CA 95831

SHEET TITLE **CCTV PICTURES**

DRAWING STATUS

CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

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