

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

TECHNOLOGY SYMBOL LEGEND: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MANUFACTURER	PART NUMBER	NOTES / DETAIL REFERENCES
	(N) SURFACE MOUNTED CONDUIT	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) UNDERGROUND CONDUIT	N/A	N/A	N/A
	(N) MEDIUM CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM2300	GREY = EXISTING
	(N) HIGH CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM5400	GREY = EXISTING
	(N) CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) CONDUIT RISER	N/A	N/A	N/A
	(E) DATA RACK	EXISTING	EXISTING	N/A
	(N) DATA RACK	CHATSWORTH	SEE T400 FOR BUILD OUT REQ'S	GREY = EXISTING
	(E) GROUND BOX	N/A	N/A	N/A
	(N) JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) MINIMAL POINT OF ENTRY	EXISTING	EXISTING	N/A
	(E) INTERCOM CONTROL CENTER HEADEND	EXISTING	EXISTING	N/A
	(E) INTRUSION KEYPAD	EXISTING	EXISTING	N/A
	(N) CAT6A DATA DROP LOCATION - 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
	(N) CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	RAULAND & LOWELL	SEE SHEET T703	N/A
	(N) CAT6A DATA DROP LOCATION	SEE 27 10 00	SEE 27 10 00	QTY. AS PER PLAN
	(N) CAT6A DATA DROP LOCATION - WIRELESS ACCESS POINT (T-BAR)	SEE 27 10 00	SEE 27 10 00	N/A
	(N) CAT6A DATA DROP LOCATION - EXTERIOR WIRELESS ACCESS POINT	SEE 27 10 00	SEE 27 10 00	N/A
	NETWORK SECURITY CAMERA (1X3MP SENSORS)	I-PRO	WV-S25500-V3L	N/A
	NETWORK SECURITY CAMERA (2X4MP SENSORS)	I-PRO	WV-U85402-V2L	N/A
	NETWORK SECURITY CAMERA (3X4MP SENSORS)	I-PRO	WV-S8543L	N/A
	NETWORK SECURITY CAMERA (4X4MP SENSORS)	I-PRO	WV-S8544L	N/A

PRE-CON MEETING REQUIREMENTS:	
1. PRIOR TO BEGINNING ANY SITE WORK, INCLUDING DEMO, AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE LOW VOLTAGE DESIGNER. ANY SITE WORK COMMENCED PRIOR TO THIS MEETING SHALL BE AT THE CONTRACTOR'S SOLE RISK.	
JOB SPECIFIC STANDARDS FOR LOW VOLTAGE:	
SEE SPECIFICATIONS DIVISION 27 AND 28 FOR COMPLETE REQUIREMENTS.	
1. CONDUIT BODIES, CONDULETS, PULLING ELBOWS, AND/OR "LB" FITTINGS ARE PROHIBITED IN ANY PATHWAY CONTAINING DATA CABLING (COPPER OR FIBER).	
2. SINGLE HOLE CONDUIT STRAPS ARE PROHIBITED.	
3. ALL WIRE AND CABLE PASSING THROUGH METALWORK SHALL BE SLEEVED WITH AN APPROPRIATE GROMMET OR BUSHING.	
SYSTEM PROGRAMMING AND COMMISSIONING REQUIREMENTS:	
1. THE DISTRICT WILL PERFORM ALL DATA NETWORK (CISCO) SWITCH PROGRAMMING. ALL OTHER PROGRAMMING/COMMISSIONING IS THE RESPONSIBILITY OF THE CONTRACTOR.	
2. TO FACILITATE DATA NETWORK SWITCH PROGRAMMING BY THE DISTRICT, THE CONTRACTOR SHALL PROVIDE, NO LATER THAN 14 CALENDAR DAYS PRIOR TO CUTOVER, AN INVENTORY OF SWITCH PORTS THAT WILL BE UTILIZED BY THE TELECENTER SYSTEM. THIS SHALL INCLUDE ALL DATA DROPS, NEW AND EXISTING.	

SCOPE OF WORK:	
1. 1. THE CONTRACTOR SHALL PROVIDE A (N) RAULAND TELECENTER U INTERCOM SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.	
2. THE CONTRACTOR SHALL REWORK THE (E) IDF AND MDF LOCATIONS, INCLUDING INSTALLATION OF (N) OWNER-FURNISHED DATA NETWORK SWITCHES, AS NOTED.	
3. THE CONTRACTOR SHALL PROVIDE AND PERFORM OTHER DATA NETWORK INSTALLATION AND REWORK AS NOTED.	
4. SYSTEMS ON THIS PROJECT REQUIRE CERTIFIED INSTALLERS. CONTRACTOR SHALL COMPLY WITH ALL CERTIFICATION REQUIREMENTS AS A CONDITION OF BID.	
5. ALL EQUIPMENT SHALL BE NEW AND CONTRACTOR FURNISHED, UNO.	
6. AFTER CUTOVER TO NEW SYSTEMS, THE CONTRACTOR SHALL REMOVE OLD OR ABANDONED DATA NETWORK, AUDIOVISUAL, ANALOG TELEPHONE, ANALOG INTERCOM, ANALOG CLOCK, AND COAX CABLING AND DEVICES AS NOTED.	
7. THE PROJECT WILL REQUIRE SWING AND/OR GRAVEYARD AND/OR WEEKEND AND/OR HOLIDAY WORK SCHEDULES IN ORDER TO MEET THE PROJECT REQUIREMENTS AND MINIMIZE DISRUPTION TO THE ACTIVE USE OF THE SITE.	
8. THE CONTRACTOR SHALL CAREFULLY COORDINATE CUTOVERS AND ACTIVATION/COMMISSIONING OF NEW SYSTEMS WITH THE DISTRICT REPRESENTATIVE.	
9. THE CLOCK/INTERCOM SYSTEM AND ALL DATA NETWORK SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES THAT SCHOOL IS IN SESSION.	
10. PRIOR TO START OF CONSTRUCTION, CONTRACTOR TO PROVIDE DISTRICT REPRESENTATIVE WITH THREE (3) 12TB HARD DRIVES COMPATIBLE WITH (E) NVR SERVER: MFG: AXIOM PART NUMBER: 7XB7A00068-AX CAPACITY: 12TB	
11. PROVIDE AND INSTALL I-PRO CAMERAS AND COMPONENTS. SEAL AND WEATHER PROOF ALL EXTERIOR CAMERAS / PENETRATIONS.	
12. PROVIDE DISTRICT REPRESENTATIVE WITH MAC ADDRESSES OF ALL (N) CAMERAS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO INSTALL. DO NOT CONNECT (N) CAMERAS TO DISTRICT NETWORK SWITCH WITHOUT PRIOR AUTHORIZATION FROM DISTRICT REPRESENTATIVE.	
13. REVIEW ALL (N) AND (E) CAMERA VIEWS WITH SITE ADMINISTRATION AND DISTRICT OR ITS REPRESENTATIVE AND MAKE ADJUSTMENTS AS REQUIRED PRIOR TO PROJECT COMPLETION.	

CONTRACTOR FURNISHED DOCUMENTS:	
(SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)	
1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:	
1.1. CONTRACTOR FURNISHED SHOP DRAWINGS ARE RECEIVED AND APPROVED BY THE DESIGNER.	
1.2. PRODUCT SUBMITTAL DOCUMENTS ARE RECEIVED AND APPROVED BY THE DESIGNER/DESIGNER.	
1.3. APPLICABLE QUALIFICATION DOCUMENTATION ARE RECEIVED AND APPROVED BY THE DESIGNER.	
2. ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDER REQUESTS ARE TO BE ADDRESSED AT TIME OF SHOP DRAWING CREATION. CHANGE ORDERS AFTER APPROVED SHOP DRAWINGS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.	
3. ALTERNATIVE PRODUCTS ARE TO SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST AND THE CONTRACTOR IS RESPONSIBLE FOR DEMONSTRATING PRODUCT FULL EQUIVALENCY.	
4. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE DIAGRAMMATIC. INFORMATION PRESENTED IN DESIGN DRAWINGS ARE AS ACCURATE AS POSSIBLE, BUT ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.	
5. DRAWINGS AND SPECIFICATIONS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN TO ASSIST THE CONTRACTOR IN SUBMITTING AN ACCURATE BID. CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF THEIR WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COMPLY WITH THE INTENT OF THE DESIGN.	
6. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE DESIGNER OR OWNER PRIOR TO BID.	
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND FULLY FUNCTIONING SYSTEM.	

TECHNOLOGY GENERAL PROJECT NOTES:	
1. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST OF THE ENTIRE SYSTEMS IN THE PRESENCE OF THE ARCHITECT/DESIGNER, INSPECTOR, AND THE OWNER.	
2. A STAMPED SET OF APPROVED SYSTEM DESIGN DOCUMENTS, AND CONTRACTOR FURNISHED SHOP DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. THE CONTRACTOR SHALL INCORPORATE ANY AND ALL REVISIONS TO DRAWINGS SETS AS REQUIRED. ANY DEVIATION FROM APPROVED DESIGN DOCUMENTS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE ARCHITECT/DESIGNER AND THE OWNER PRIOR TO INSTALLATION.	
3. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGNER PRIOR TO INSTALLATION.	
4. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH THROUGH PENETRATION FIRST STOP SYSTEMS WITH A "T" RATING EQUAL TO THE ASSEMBLY PENETRATED. SEE DETAILS ON SHEET T801 FOR MORE INFORMATION.	
5. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE.	
6. ALL CLOCK, BELL, AND INTERCOM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CABLES ARE ONLY PERMITTED IF INDICATED ON DESIGN DOCUMENTS AS "EXPOSED".	
7. LOW VOLTAGE PANELS, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT FOR 20 lbs., WITHOUT SPECIAL MOUNTING DETAILS.	
8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/DESIGNER AT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO FINAL INSPECTION FOR FINAL PUNCH ALL ITEMS ON PUNCH LIST MUST BE COMPLETE FOR JOB TO FINAL.	
9. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL PROJECT AS-BUILT DRAWINGS AND MANUALS PER SPECIFICATIONS.	
10. THE CONTRACTOR SHALL ALSO PROVIDE A TYPED RECORD OF COMPLETION. A FINAL WILL NOT BE GRANTED UNTIL THE ABOVE IS APPROVED BY THE OWNER.	
11. THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND MAKE FULLY OPERATIONAL.	

PROJECT CODES AND STANDARDS:	
PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023:	
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1	
2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6	
2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11	
2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART 12	
2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION	

ANCHORAGE AND BRACING NOTES:	
APPLICABLE CODE: 2022 CBC	REVISED: 12/23/2024
MEP COMPONENT ANCHORAGE NOTE:	
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:	
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.	
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.	
3. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.	
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED 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.	
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.	
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:	
PIPING, DUCTWORK, AND ELECTRICAL 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.	
MP : MD : PP : E : OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.	
MP : MD : PP : E : OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.	

SHEET INDEX:	
SHEET	DESCRIPTION
T000	TECHNOLOGY COVER SHEET
T010	TECHNOLOGY SITE PLAN - DEMO
T100	TECHNOLOGY SITE PLAN - NEW
T101	TECHNOLOGY SITE PLAN - EXTERIOR SPEAKERS COVERAGE
T200	TECHNOLOGY FLOOR PLAN NEW - MDF 1.00 AND IDF 1.10
T201	TECHNOLOGY FLOOR PLAN NEW - IDF 1.01 AND 1.02
T202	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
T700	TECHNOLOGY RACK ELEVATIONS
T701	TECHNOLOGY RACK ELEVATIONS
T702	TECHNOLOGY SINGLE LINE DIAGRAMS
T703	TECHNOLOGY SINGLE LINE DIAGRAMS
T800	TECHNOLOGY DETAILS
T801	TECHNOLOGY CCTV DETAILS
T801	TECHNOLOGY DETAILS
T900	CCTV PICTURES



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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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

SHEET TITLE
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

SHEET
T000

DEMO 66-BLOCK
AND ASSOCIATED
CABLING

DEMO DISTRIBUTION
BLOCK AND COAX
CABLING

DEMO ANALOG
CLOCK CABLING

DEMO CUT
CABLING

DEMO ABANDONED
MULTIMODE FIBER

PICTURE DETAIL - TYPICAL STC DEMO

GENERAL NOTES:

1. CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW INSTALL OR DEMOLITION.
2. CONTRACTOR SHALL DEMO ALL SURFACE RACEWAY OR CONDUIT ABANDONED AS A RESULT OF DEMO.
3. AFTER CUTOVER TO NEW SYSTEMS, ALL ANALOG INTERCOM AND CLOCK CABLING SHALL BE DEMOED FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.

SHEET NOTES:

- 1 DEMO (E) CEILING SPEAKER AND CABLE TO SOURCE. PROVIDE REPLACEMENT CEILING TILE TO MATCH EXISTING.
- 2 DEMO (E) SURFACE SPEAKER AND CABLE TO SOURCE. AT EXTERIOR LOCATIONS, WATERPROOF ANY PENETRATIONS.
- 3 DEMO (E) SPEAKER AND PROVIDE FLUSH BLANKING PLATE PER DETAIL 15/T800. PAINT TO MATCH ADJACENT WALL/CEILING SURFACE.
- 4 DEMO ALL ANALOG CLOCK, INTERCOM, COAX, AND ABANDONED DATA CABLES AT THIS STC CABINET. SEE TYPICAL STC DEMO PICTURE DETAIL.
- 5 DEMO TELECENTER HEADEND EQUIPMENT AND CABLING. SEE PICTURE DETAIL.
- 6 DEMO (E) CLOCK AND PROVIDE FLUSH BLANKING PLATE PER DETAIL 15/T800. PAINT TO MATCH ADJACENT WALL/CEILING SURFACE.
- 7 DEMO ANALOG TELEPHONE WALL PLATE AND CABLING TO SOURCE. PROVIDE BLANK COVER PLATE.
- 8 DEMO VIDEO PROJECTOR, CEILING MOUNT, PULL DOWN SCREEN, AND WALL INPUT. DEMO ALL CABLING AND PROVIDE REPLACEMENT CEILING TILE TO MATCH EXISTING.



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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
SITE PLAN - DEMO**

DRAWING STATUS
CONSTRUCTION DOCUMENTS

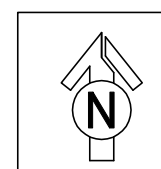
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

REVISION

SHEET
T010

TECHNOLOGY SITE PLAN DEMO

SCALE: 1"=20'

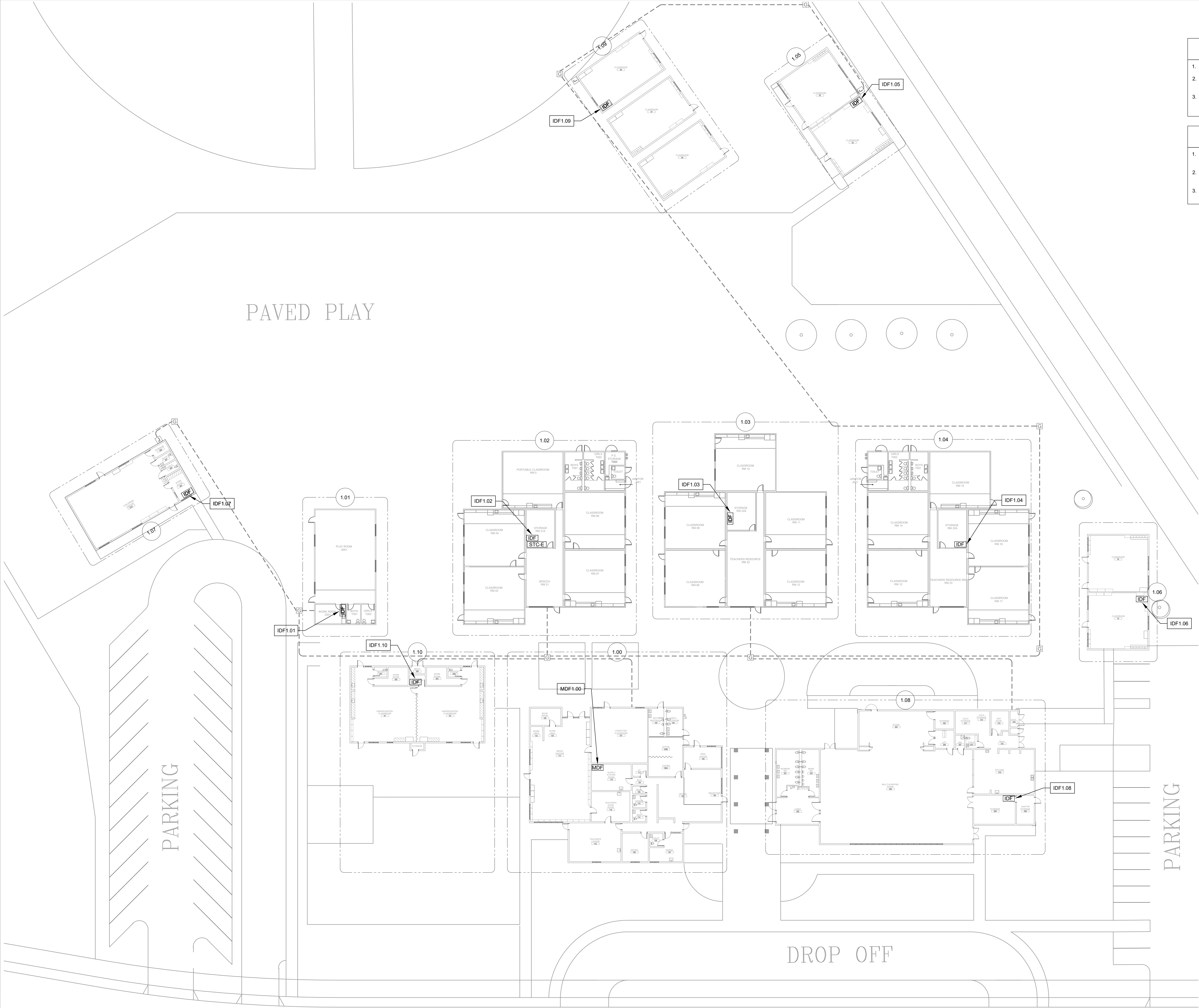


WINDBRIDGE DRIVE

DROP OFF

PARKING

PARKING



- GENERAL NOTES:
1. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
 2. 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.

- CCTV GENERAL NOTES:
1. ALL EXTERIOR DOME CAMERAS SHALL HAVE A SUN SHADE INSTALLED.
 2. ALL EXISTING EXTERIOR DOME CAMERAS SHALL HAVE EXISTING LENSES REPLACED WITH NEW CLEAN LENSES.
 3. SEE SHEET T802 FOR CAMERA DETAILS.



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MATSUYAMA ES
TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831
SHEET TITLE
TECHNOLOGY
SITE PLAN - NEW

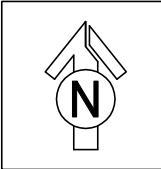
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CONSTRUCTION DOCUMENTS

PROJECT NO:	
BID PACKAGE:	0242-411
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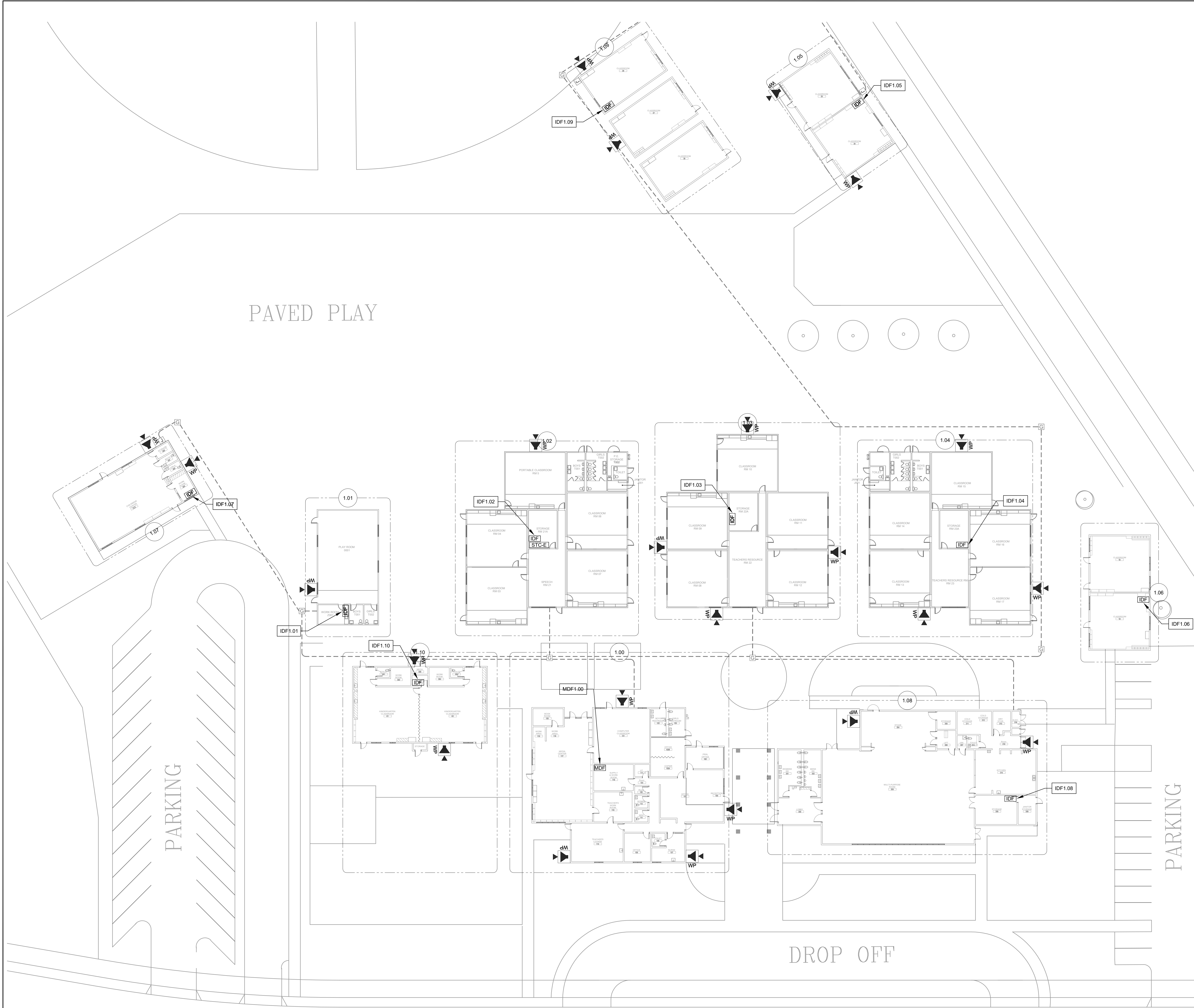
REVISION
SHEET
T100

TECHNOLOGY SITE PLAN NEW

SCALE: 1"=20'



WINDBRIDGE DRIVE



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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

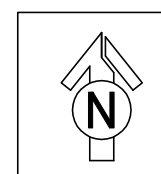
SHEET TITLE
TECHNOLOGY
SITE PLAN -
EXTERIOR SPEAKERS

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
SHEET
T101

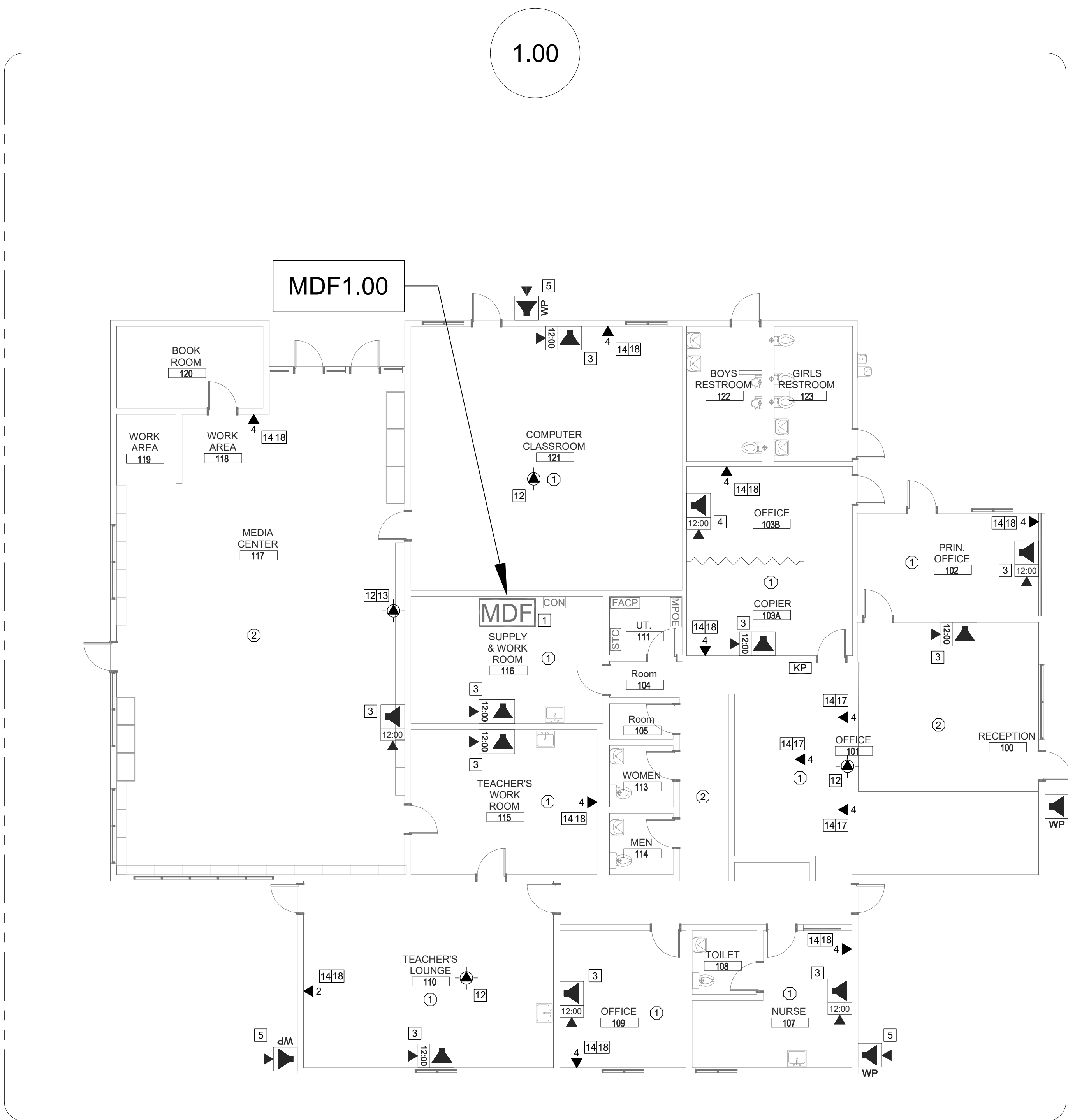
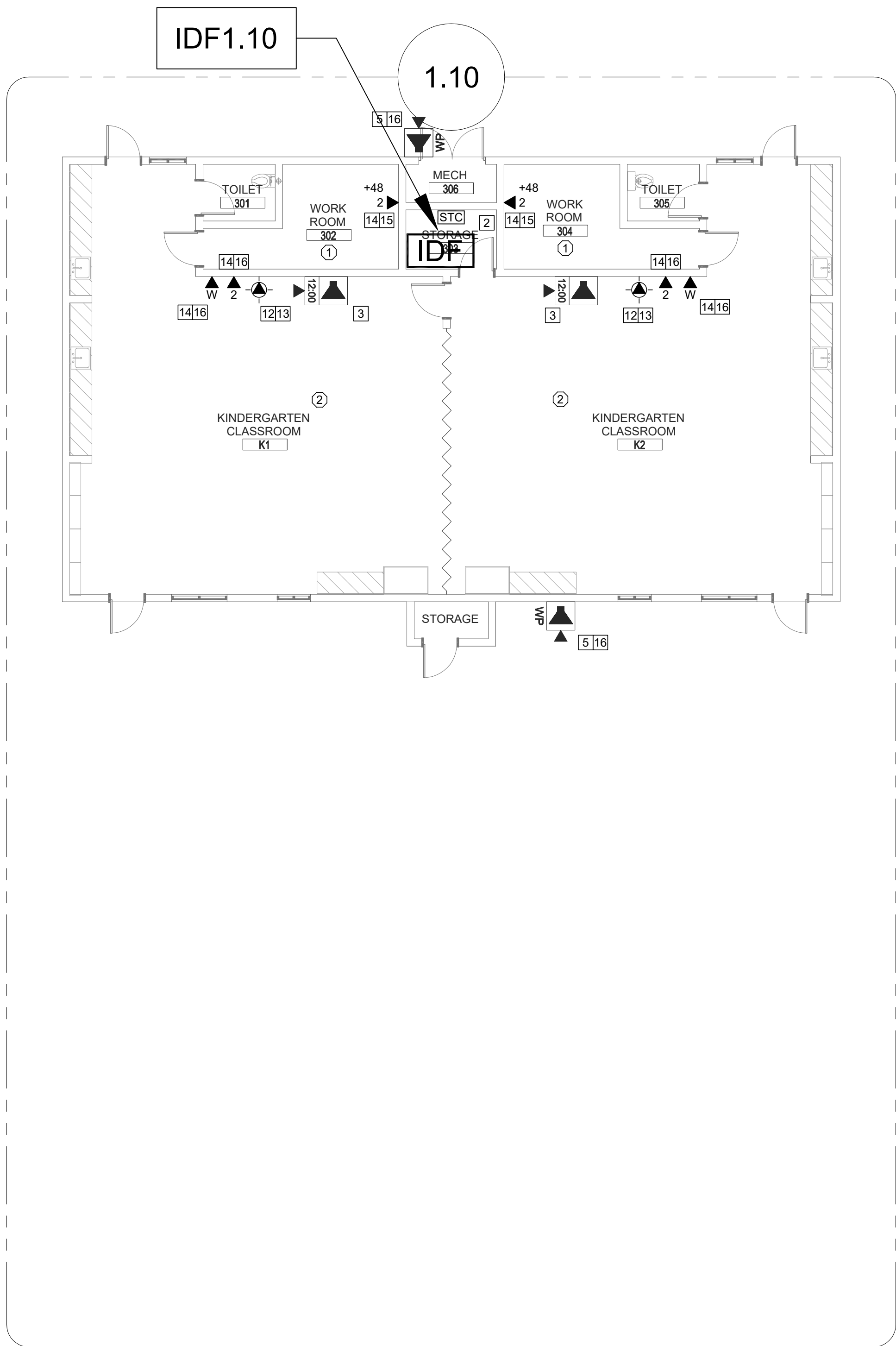
WINDBRIDGE DRIVE



TECHNOLOGY SITE PLAN - EXTERIOR SPEAKERS COVERAGE

SCALE: 1"=20'





TECHNOLOGY FLOOR PLAN NEW - MDF 1.00 AND IDF 1.10

SCALE: 1/8"=1'

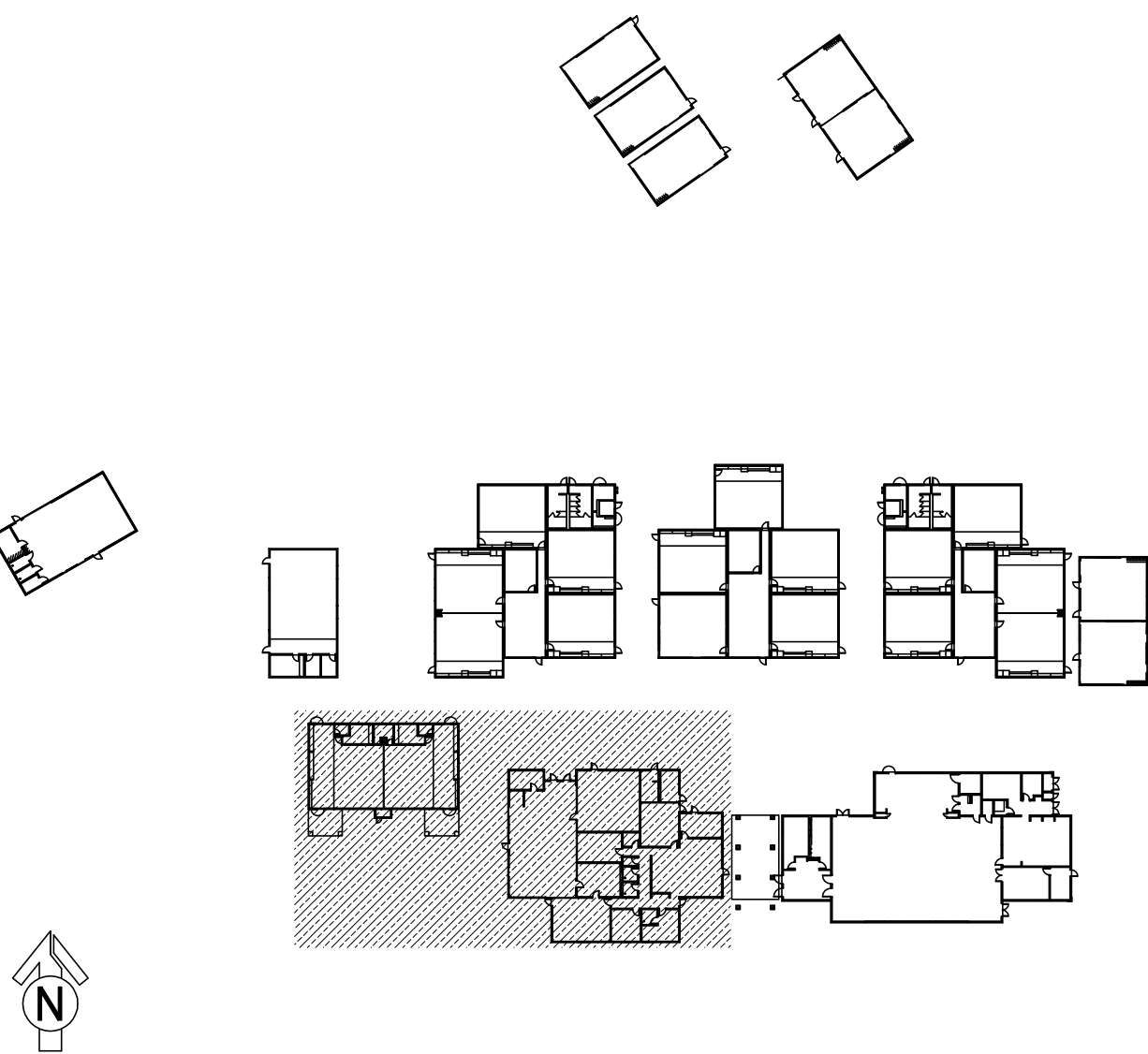
0 4 8 12 16

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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.
 - 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.
- REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
 - 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 ACCOMMODATE 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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 - PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
 - PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V2741). 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.
 - UTILIZE (E) CONDUIT PATHWAY TO STC IN STORAGE 303 AND THEN TO IDF 1.10.
 - UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
 - UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE CEILING.
 - PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.

KEY PLAN



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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



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SHEET REVISIONS		
DELTA	DESCRIPTION	DATE

SITE KEY PLAN

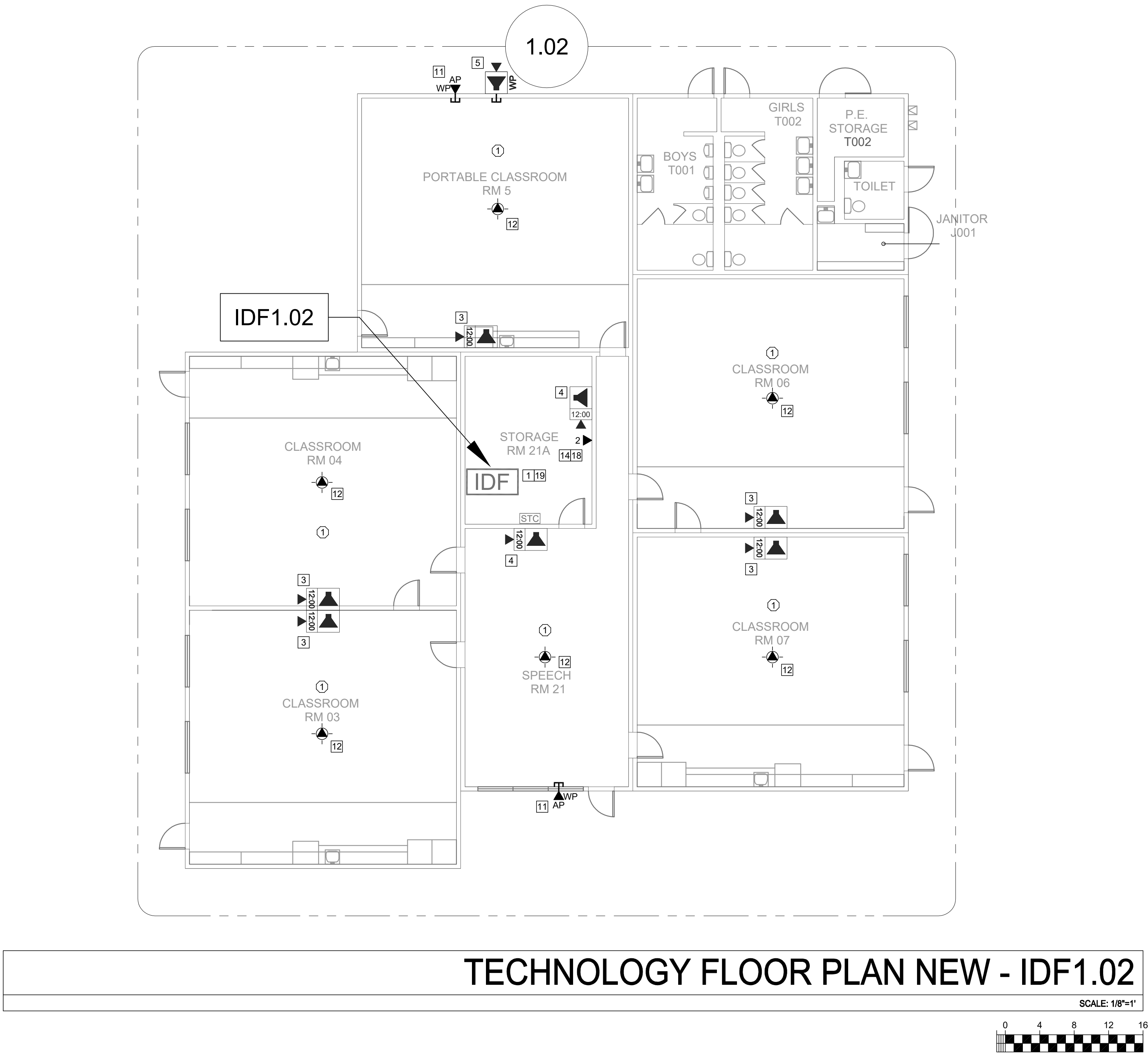
PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES
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7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831

SHEET TITLE
TECHNOLOGY
FLOOR PLAN -
MDF1.00 AND IDF 1.10

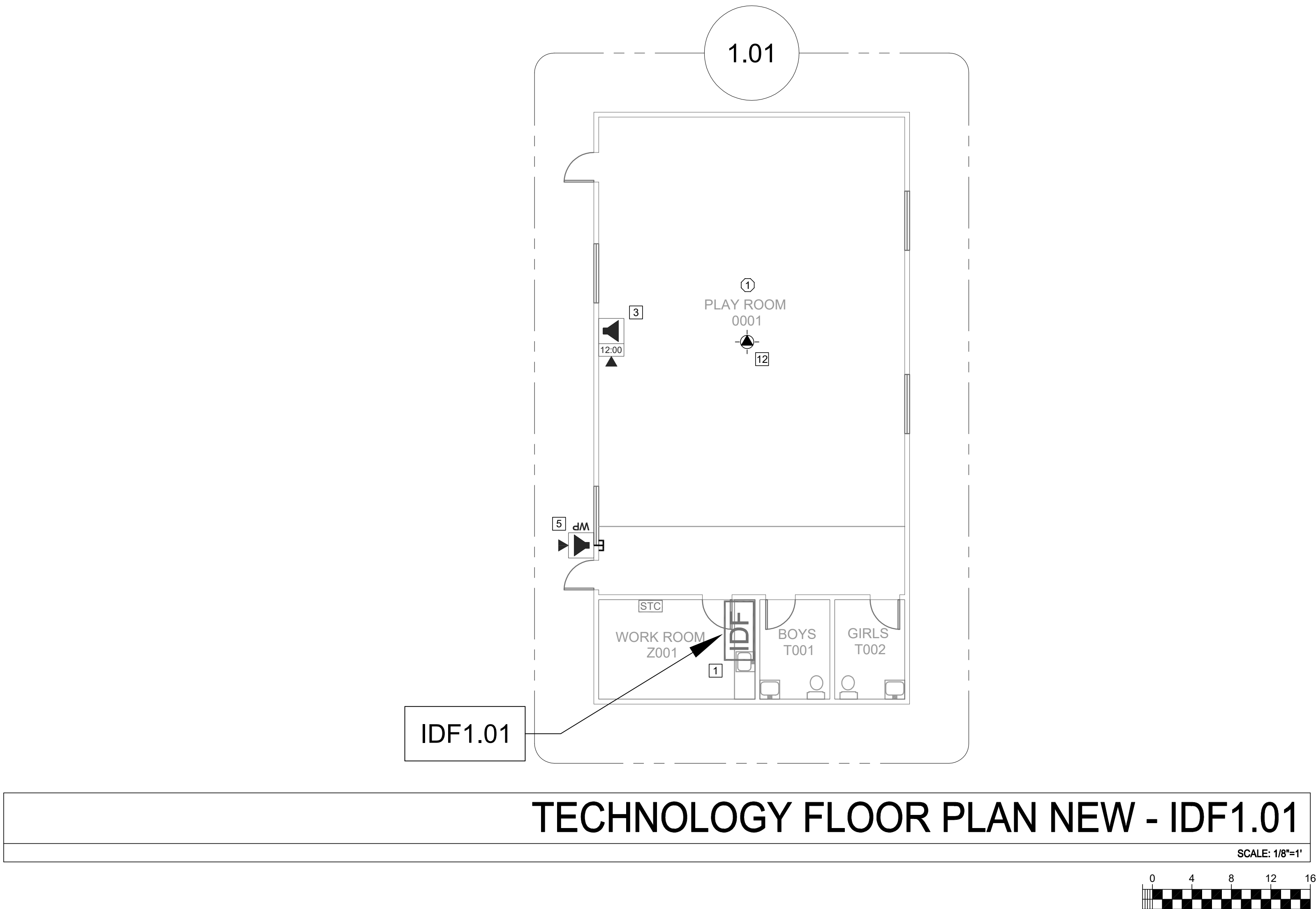
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CONSTRUCTION DOCUMENTS

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REVISION
SHEET
T200



TECHNOLOGY FLOOR PLAN NEW - IDF1.02



TECHNOLOGY FLOOR PLAN NEW - IDF1.01

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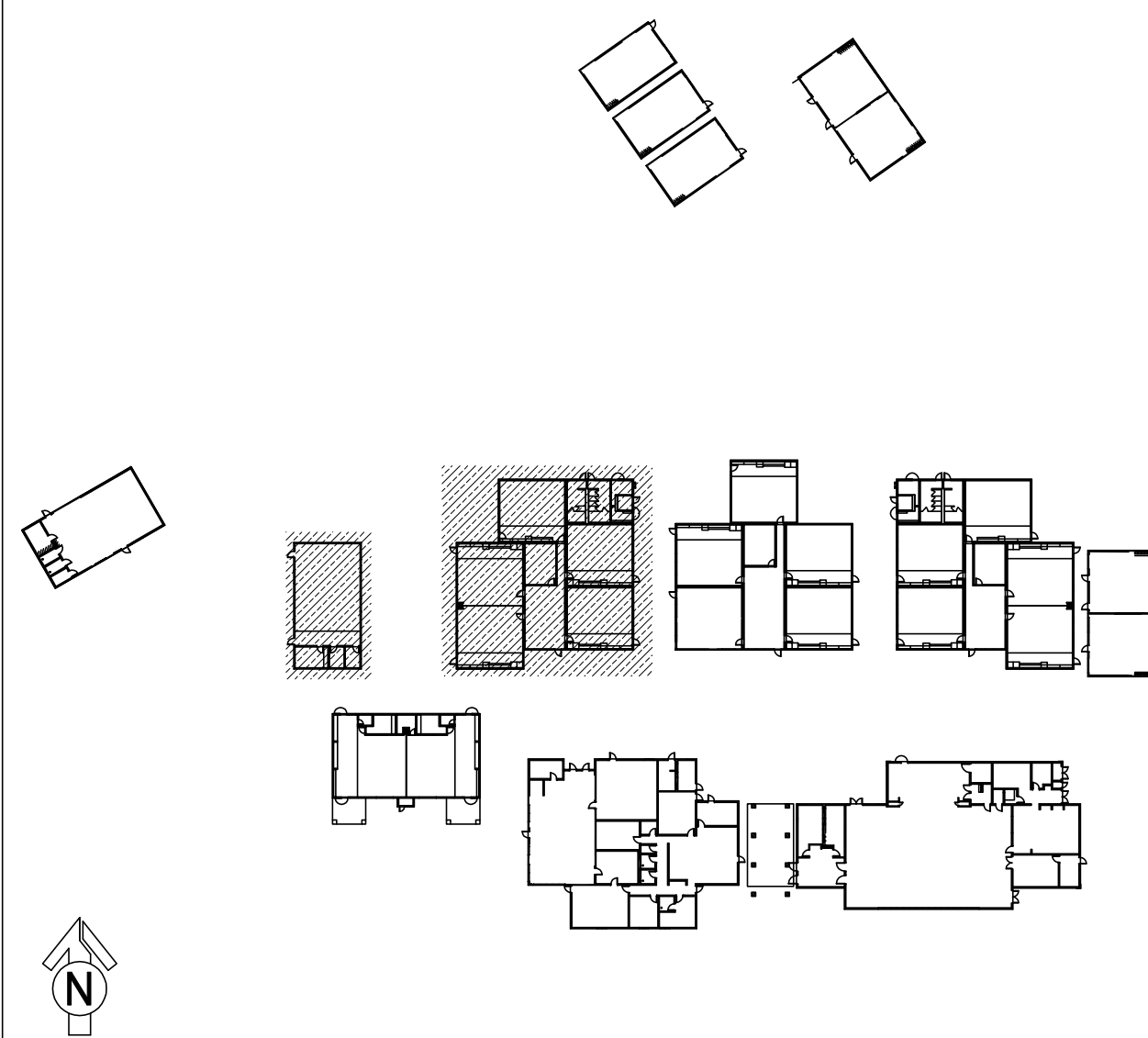
CEILING CONDITION CHART:

- ① 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.
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.
 3. 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.
 4. 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 ACCOMMODATE 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.
 7. 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 ACCOMMODATE CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR AND REWORK INTO (E) BACKBOX VIA (E) CONDUIT STUB TO ACCESSIBLE CEILING.
 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 (PIN 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.
 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 PIN 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 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 CEILING.
 19. PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.

KEY PLAN



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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

SHEET TITLE

TECHNOLOGY
FLOOR PLAN -
IDF1.01 AND 1.02

DRAWING STATUS

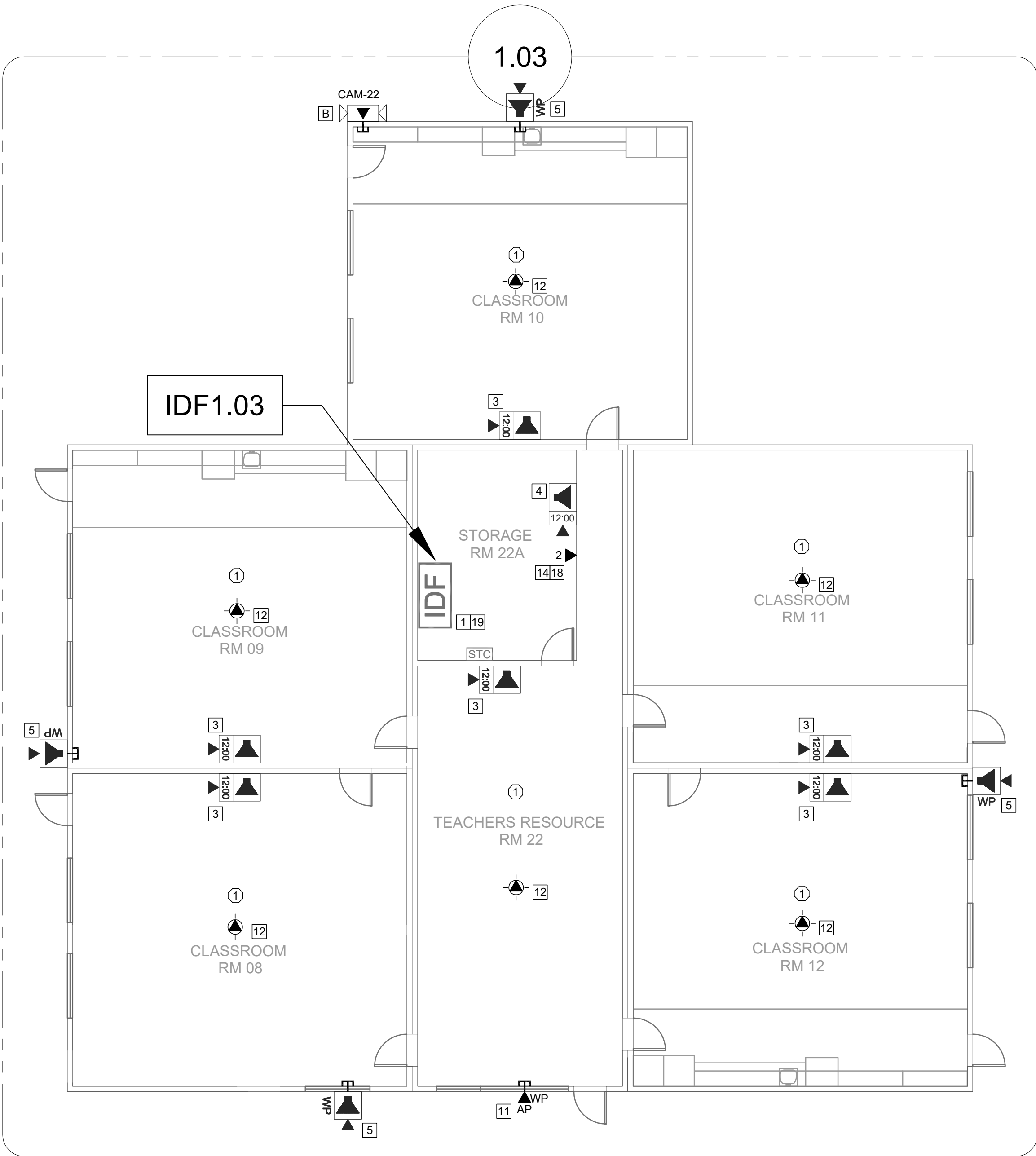
CONSTRUCTION DOCUMENTS

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

REVISION

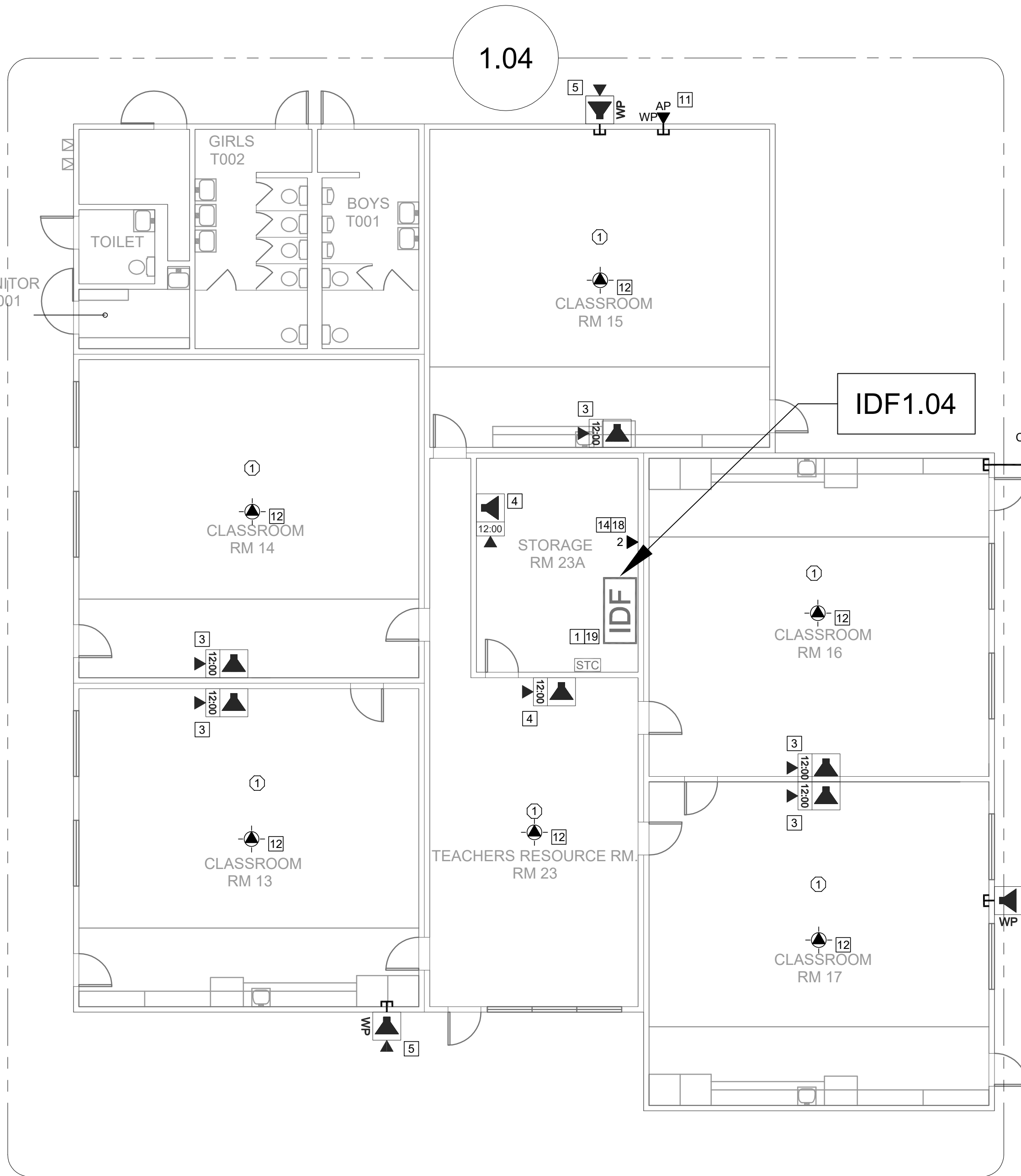
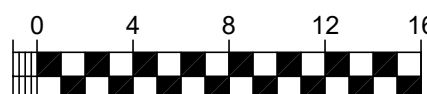
SHEET

T201



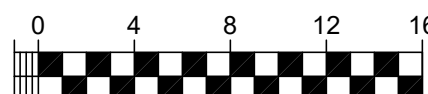
TECHNOLOGY FLOOR PLAN NEW - IDF1.03

SCALE: 1/8"=1'



TECHNOLOGY FLOOR PLAN NEW - IDF1.04

SCALE: 1/8"=1'



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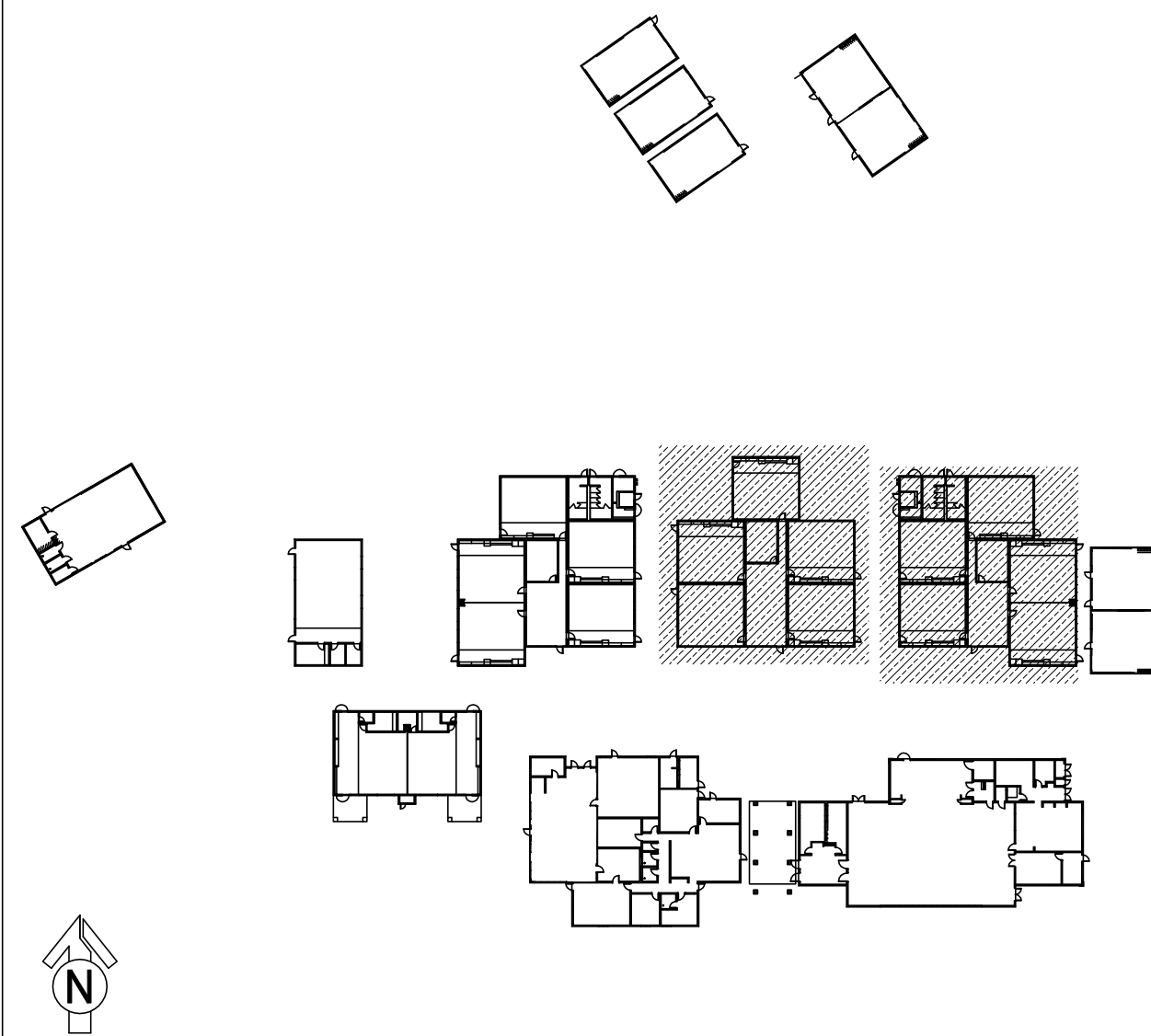
CEILING CONDITION CHART:

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SHEET NOTES:

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 - 2 ESTABLISH (N) IDF WITH (N) FIBER HOMERUN TO MDF. SEE T400 FOR BUILD OUT REQUIREMENTS.
 - 3 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.
 - 4 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 ACCOMMODATE 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 (PIN V2741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
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 - 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 CEILING.
 - 19 PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.

KEY PLAN



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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SITE KEY PLAN

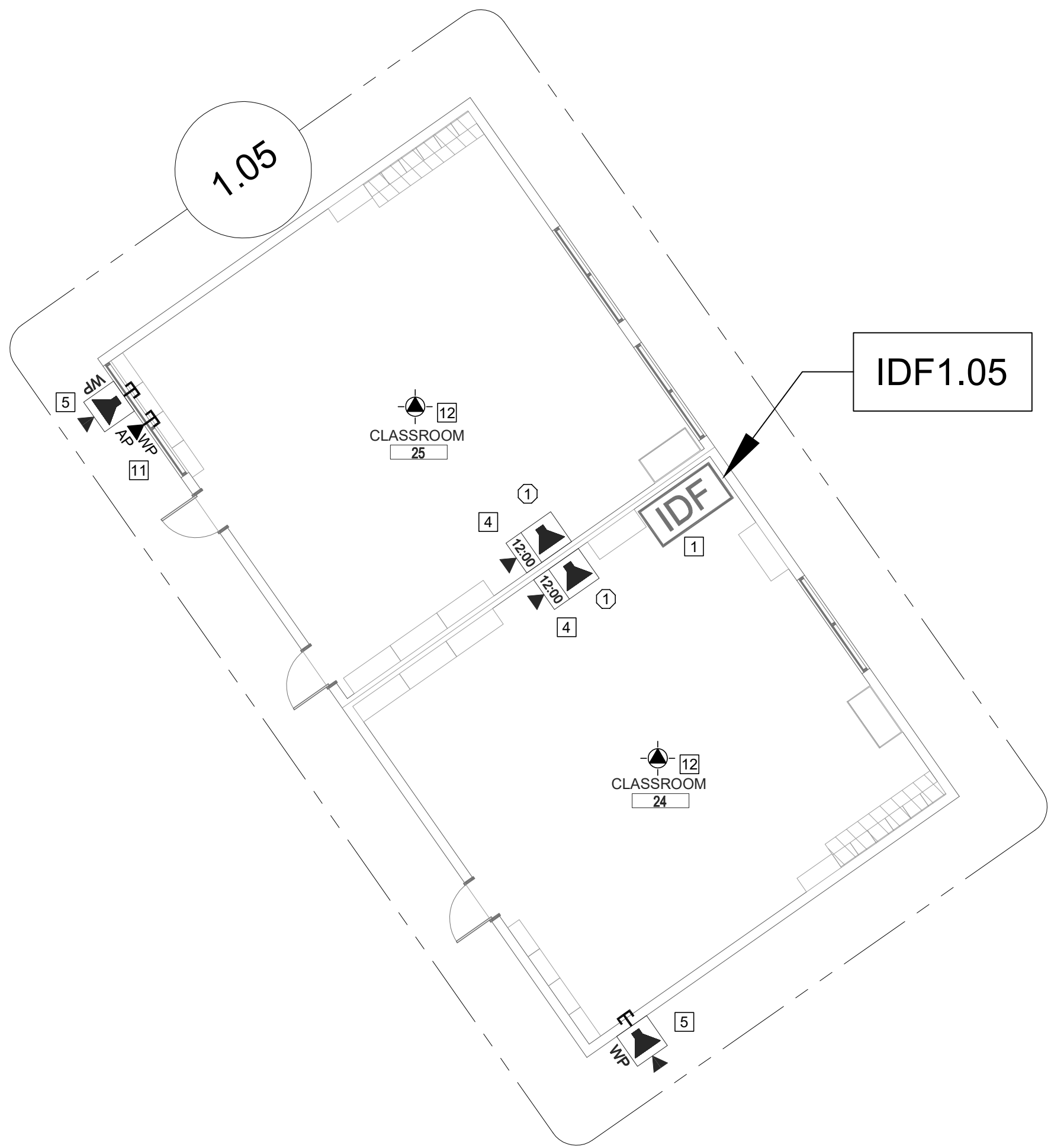
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SHEET TITLE
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FLOOR PLAN -
IDF1.03 AND 1.04

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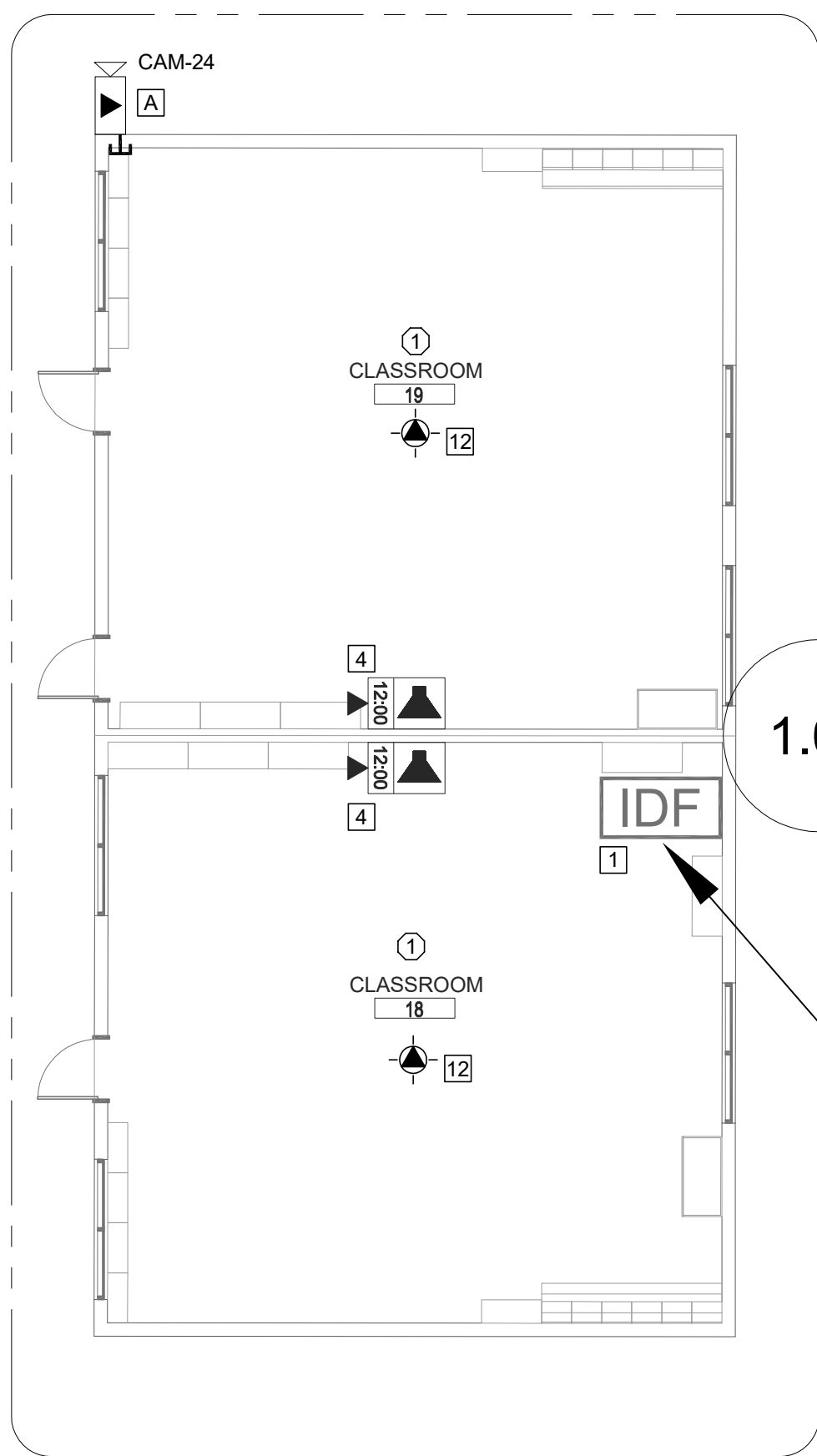
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REVISION
SHEET
T202



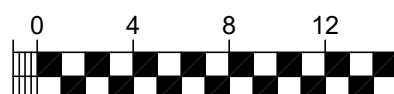
TECHNOLOGY FLOOR PLAN NEW - IDF1.05

SCALE: 1/8"=1'



TECHNOLOGY FLOOR PLAN NEW - IDF1.06

SCALE: 1/8"=1'



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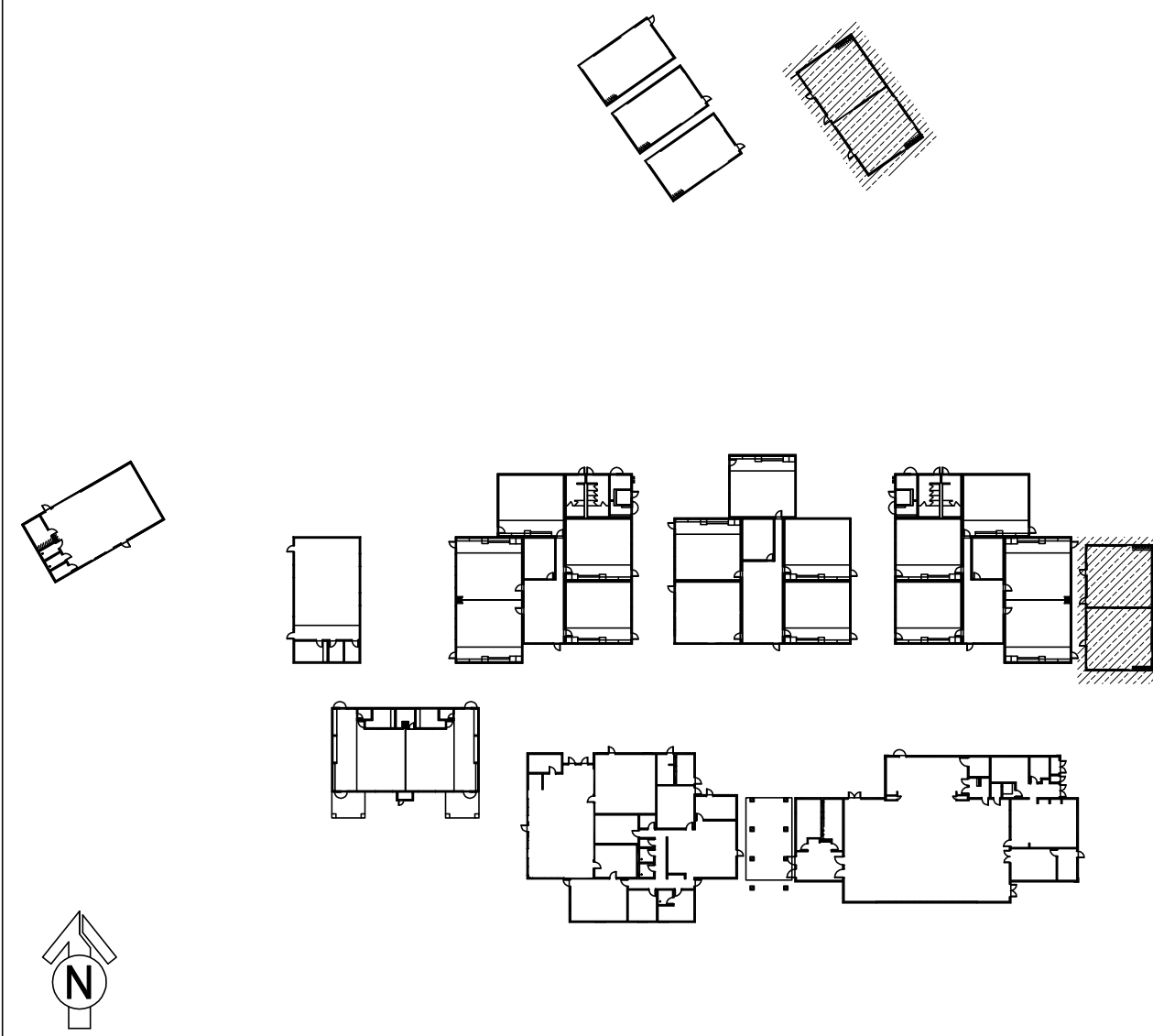
CEILING CONDITION CHART:

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- ② HARD LID CEILING.

SHEET NOTES:

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- REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- 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 ACCOMMODATE 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 ACCOMMODATE 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.
- PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (PIN 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 PIN 1006-COAP9136
- 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.
- UTILIZE (E) CONDUIT PATHWAY FROM FLOOR BOX TO STC IN UT 111 AND THEN TO MDF.
- UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE CEILING.
- PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.

KEY PLAN



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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

SHEET TITLE
TECHNOLOGY
FLOOR PLAN -
IDF1.05 AND 1.06

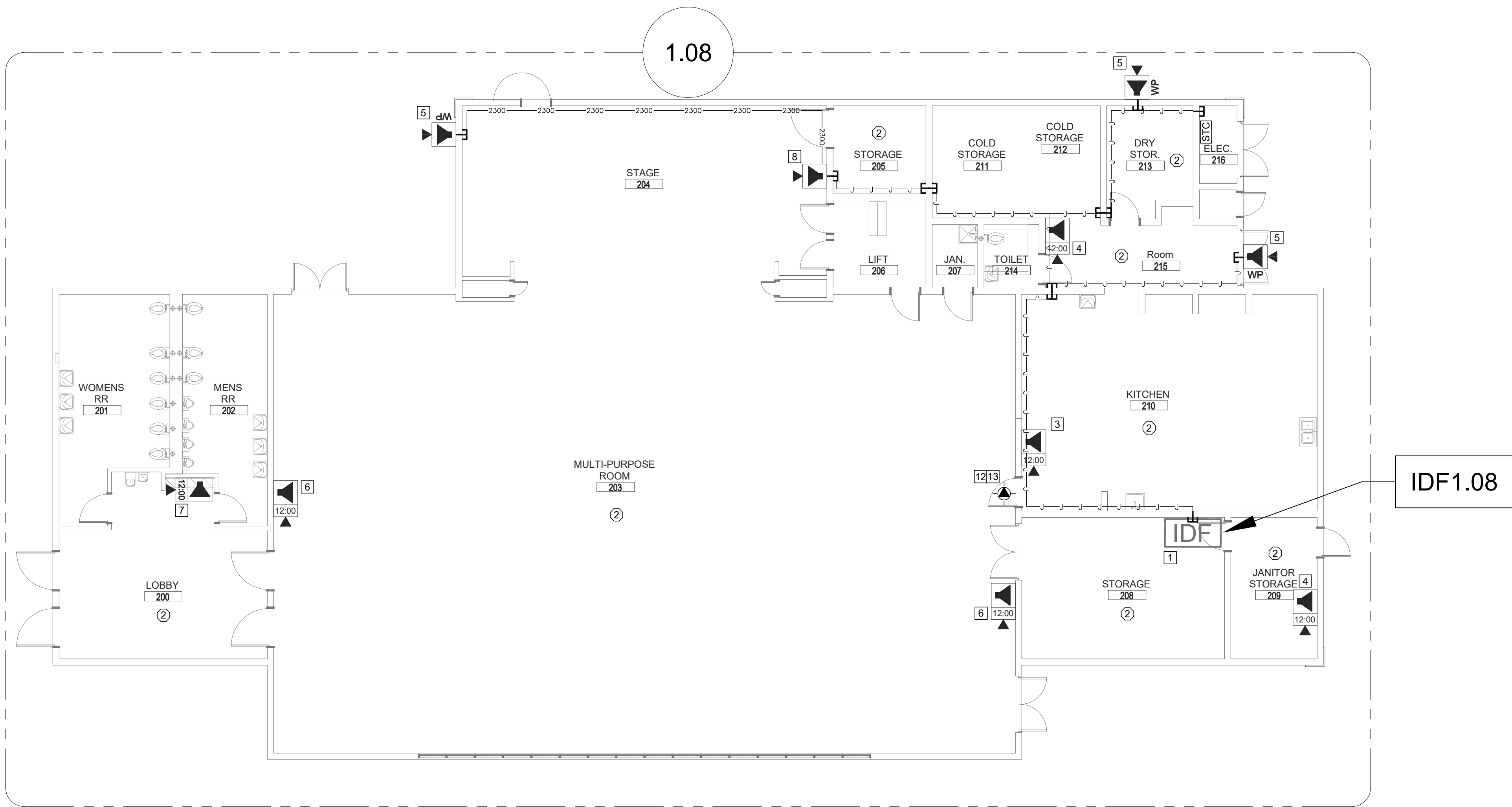
DRAWING STATUS
CONSTRUCTION DOCUMENTS

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

REVISION

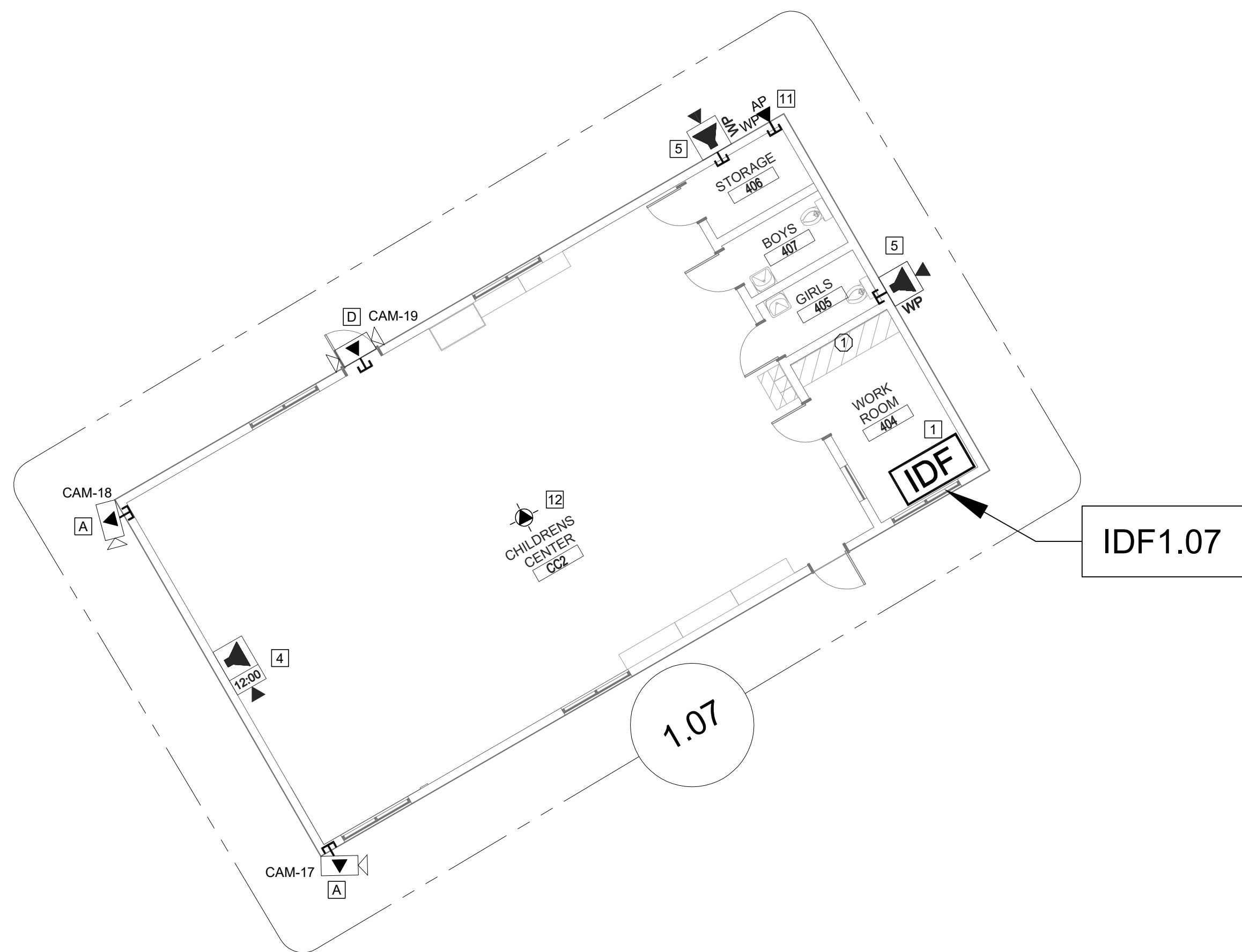
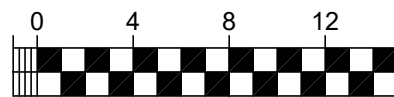
SHEET

T203



TECHNOLOGY FLOOR PLAN NEW - IDF1.08

SCALE: 1/8"=1'



TECHNOLOGY FLOOR PLAN NEW - IDF1.07

SCALE: 1/8"=1'



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

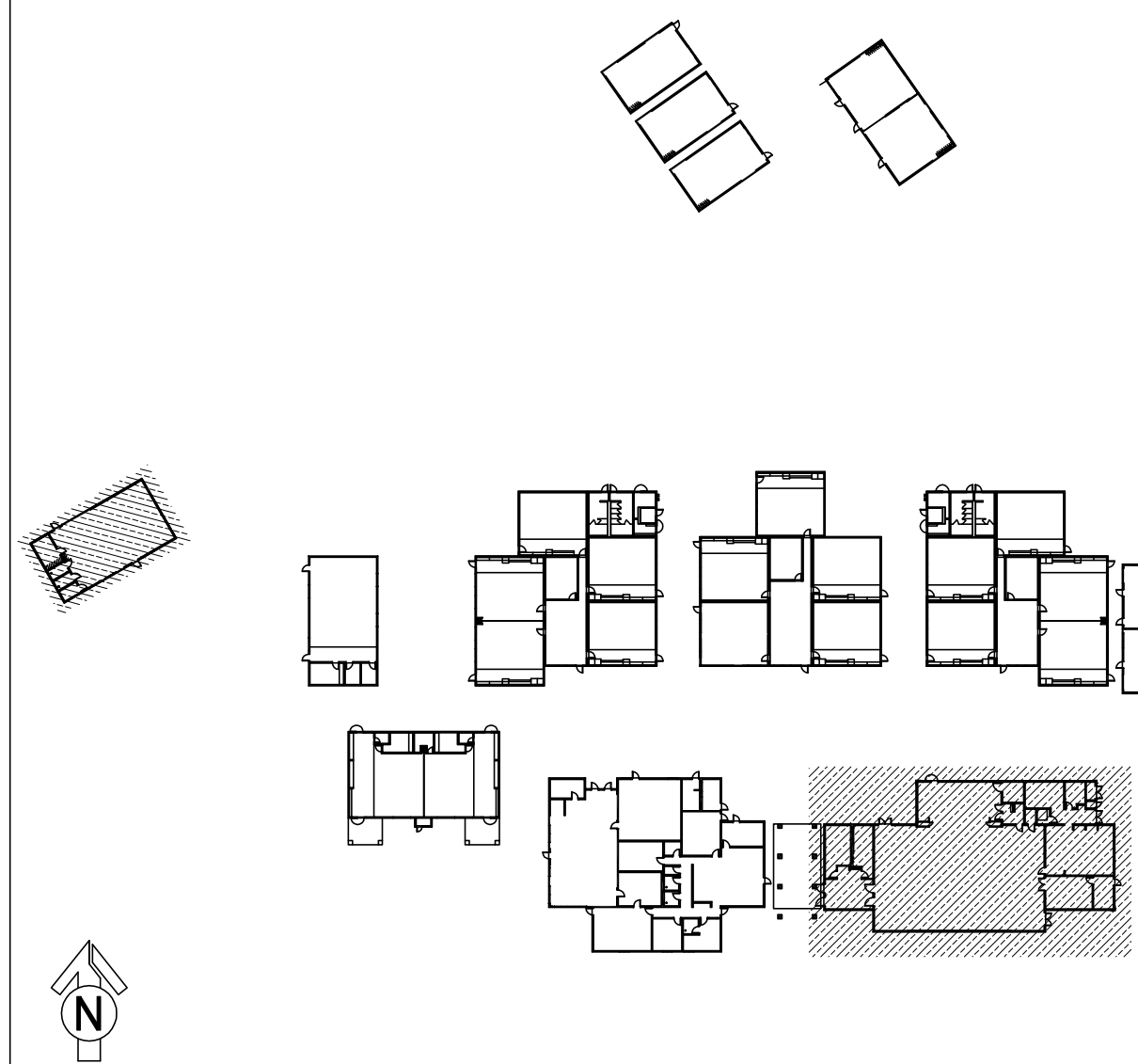
CEILING CONDITION CHART:

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

SHEET NOTES:

- 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.
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- 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.
 - 3 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.
 - 4 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.
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 - 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 ACCOMMODATE 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 (PIN 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.
 - 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 PIN 1006-COAP9136
 - 14 PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
 - 15 PROVIDE CUT-IN BOX AND FISH TO ACCESSIBLE 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 CEILING.
 - 19 PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.

KEY PLAN



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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
FLOOR PLAN -
IDF1.07 AND 1.08

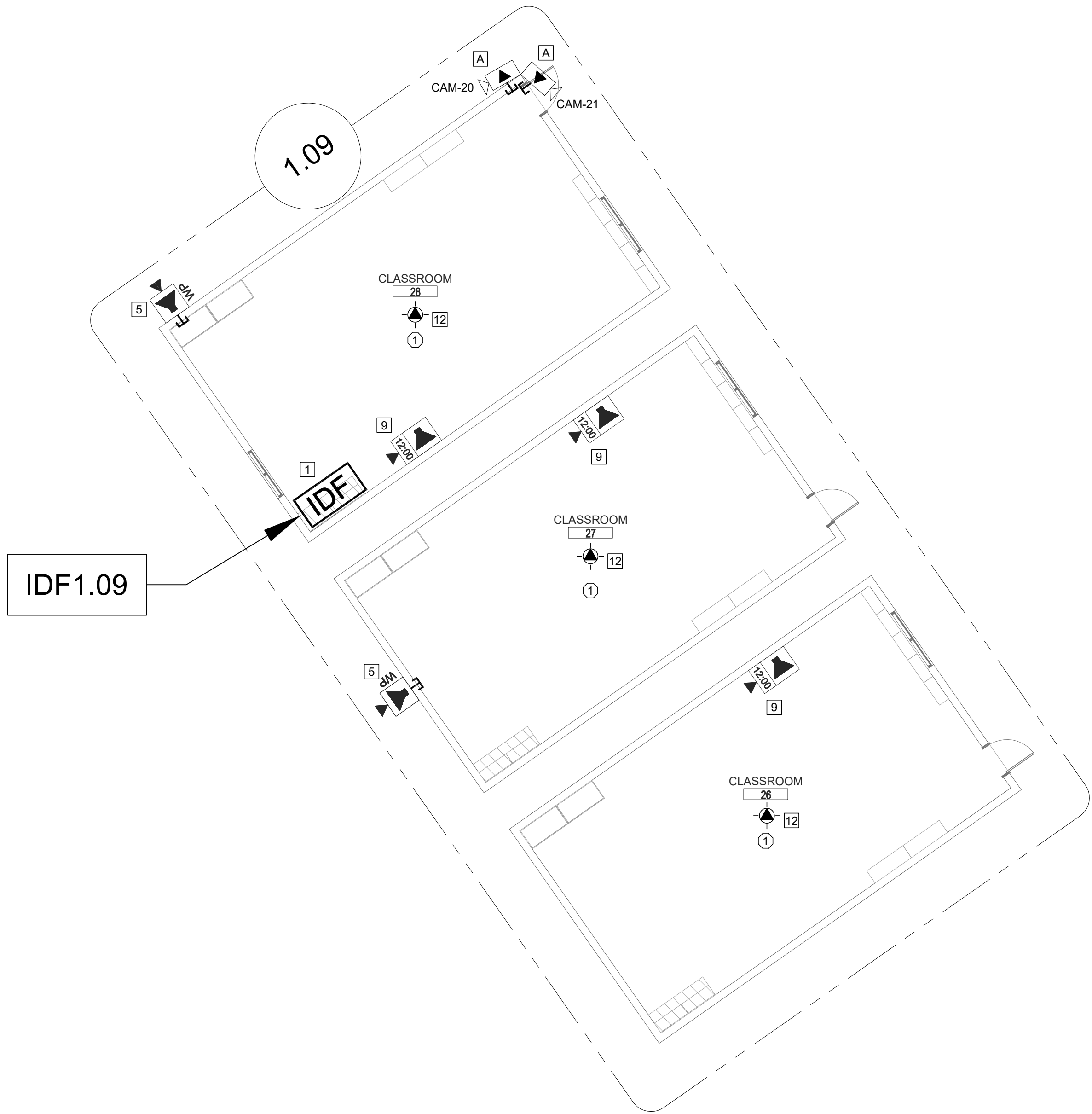
DRAWING STATUS
CONSTRUCTION DOCUMENTS

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

REVISION

SHEET

T204

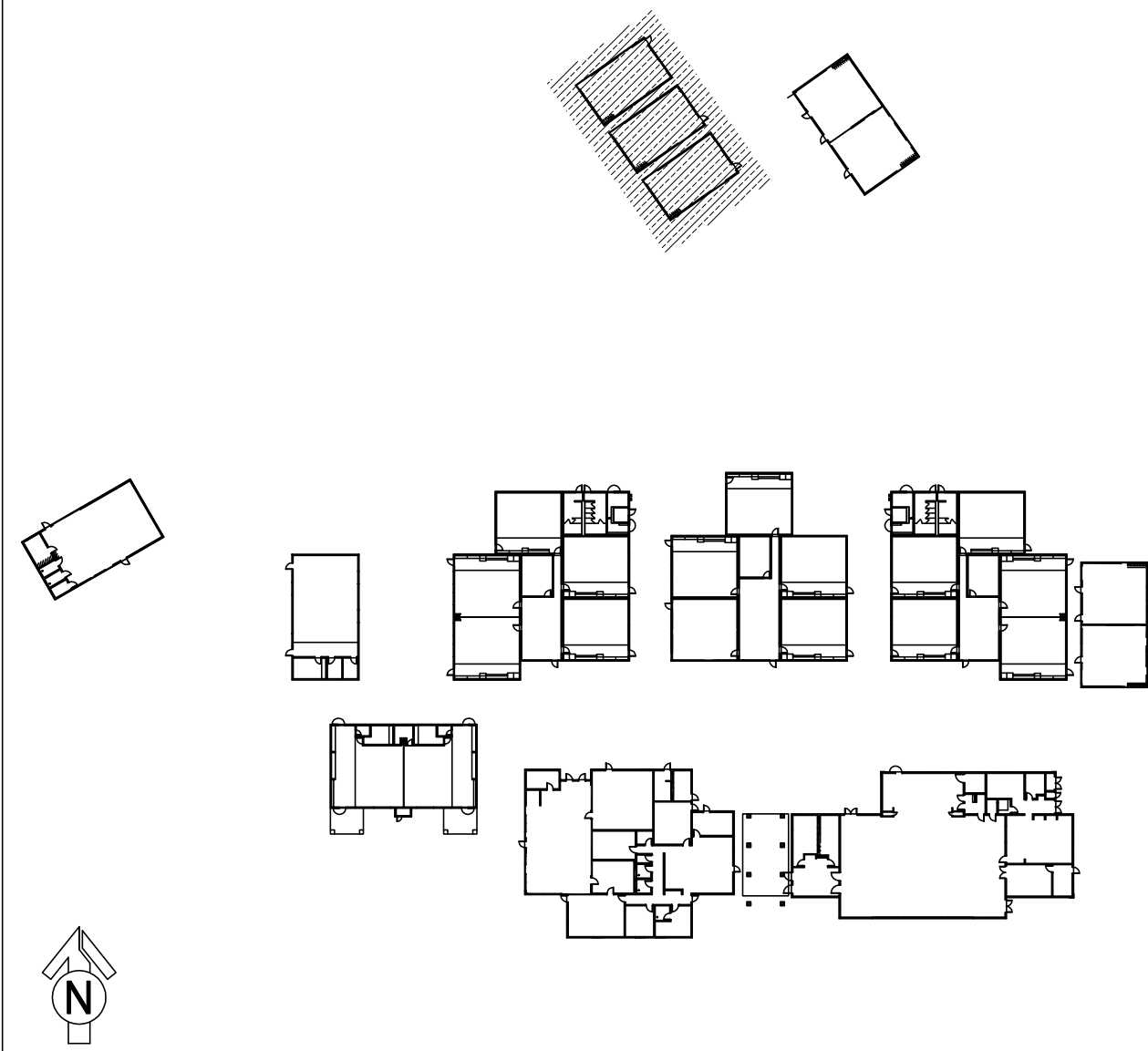


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- CEILING CONDITION CHART:
- | | |
|---|------------------------|
| ① | DROP IN CEILING TILES. |
| ② | HARD LID CEILING. |

- 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.
- [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.
- [3] 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.
- [4] 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 ACCOMMODATE 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.
- [7] 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 ACCOMMODATE CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR AND REWORK INTO (E) BACKBOX VIA (E) CONDUIT STUB TO ACCESSIBLE CEILING.
- [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 (PIN 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.
- [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 PIN 1006-COAP9136
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- [18] UTILIZE (E) BACKBOX AND CONDUIT PATHWAY TO ACCESSIBLE CEILING.
- [19] PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (E) IDF RACK.

KEY PLAN



TECHNOLOGY FLOOR PLAN NEW - IDF1.09

SCALE: 1/8\"/>



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TECHNOLOGY & FIRE LIFE SAFETY

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IF DRAWING IS NOT 30\"/>

SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES
TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831

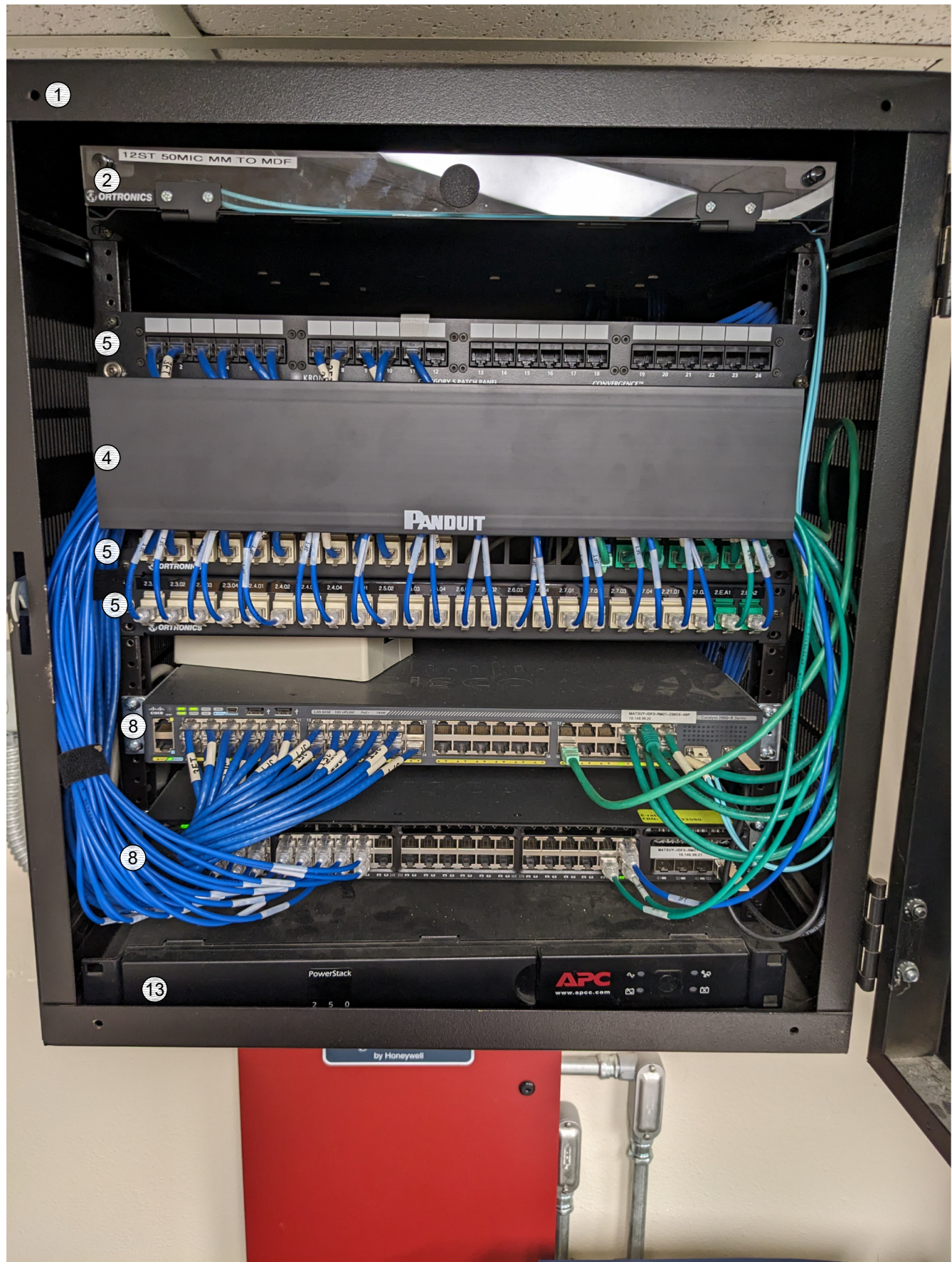
SHEET TITLE
TECHNOLOGY
FLOOR PLAN -
IDF 1.09

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

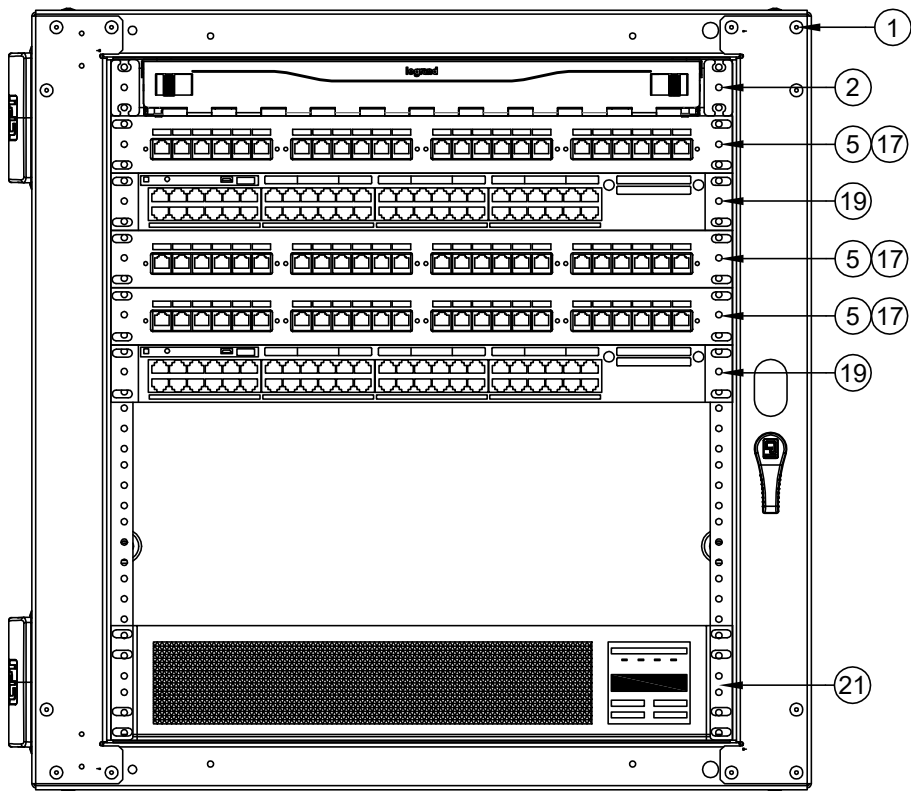
REVISION
SHEET
T205

SCOPE OF WORK - IDF 1.02
1. DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.
2. DEMO (E) UPS #13.
3. 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

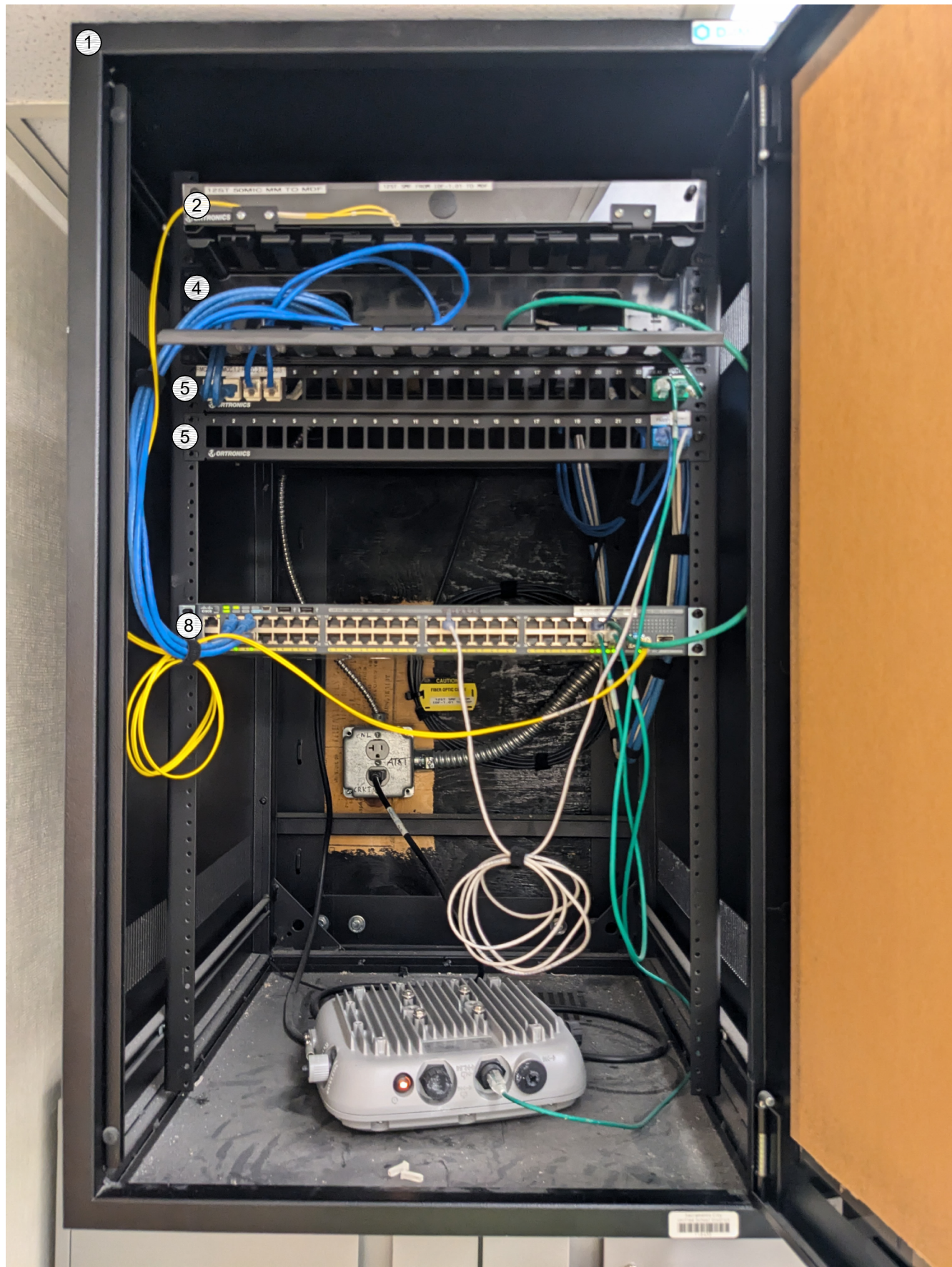
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RACK - FINAL LAYOUT

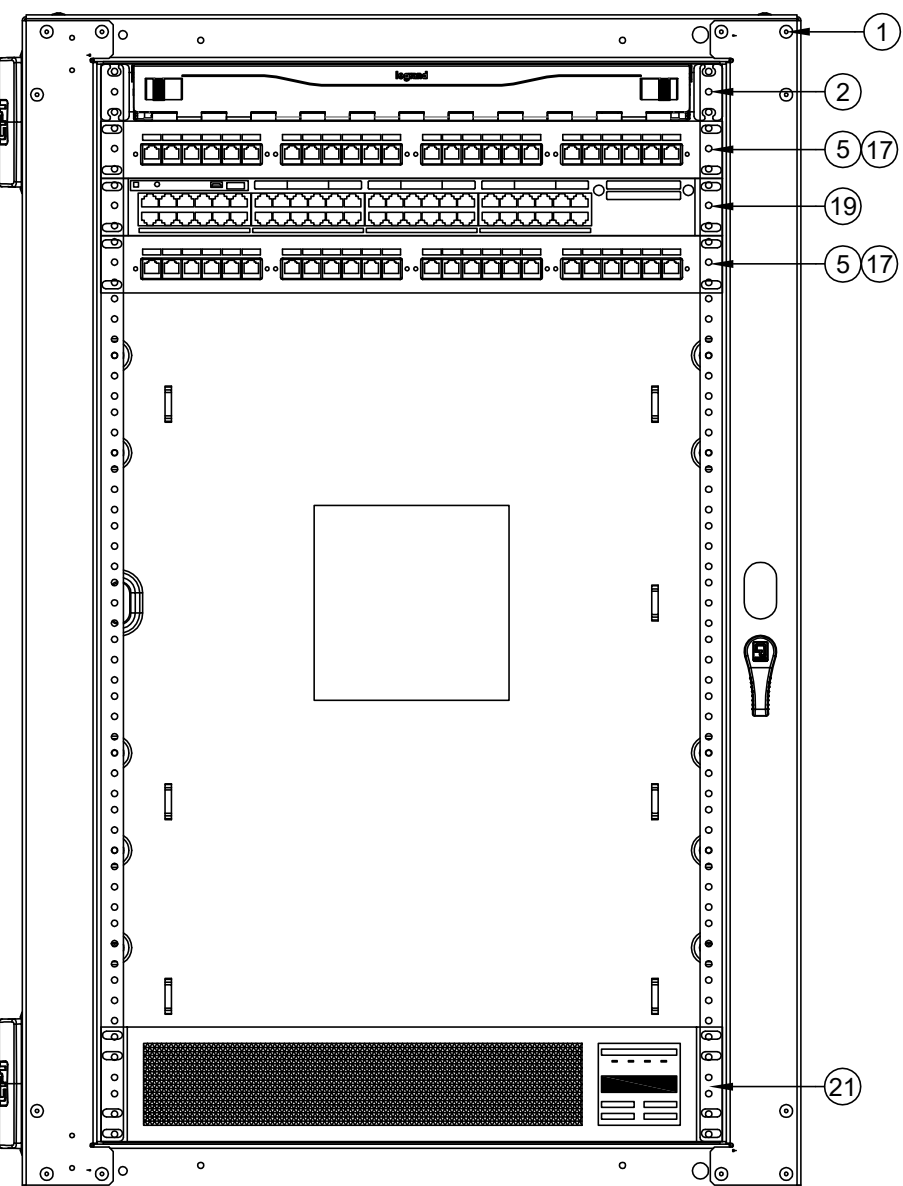
SCALE: NONE

SCOPE OF WORK - IDF 1.01
1. 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

SCALE: NONE



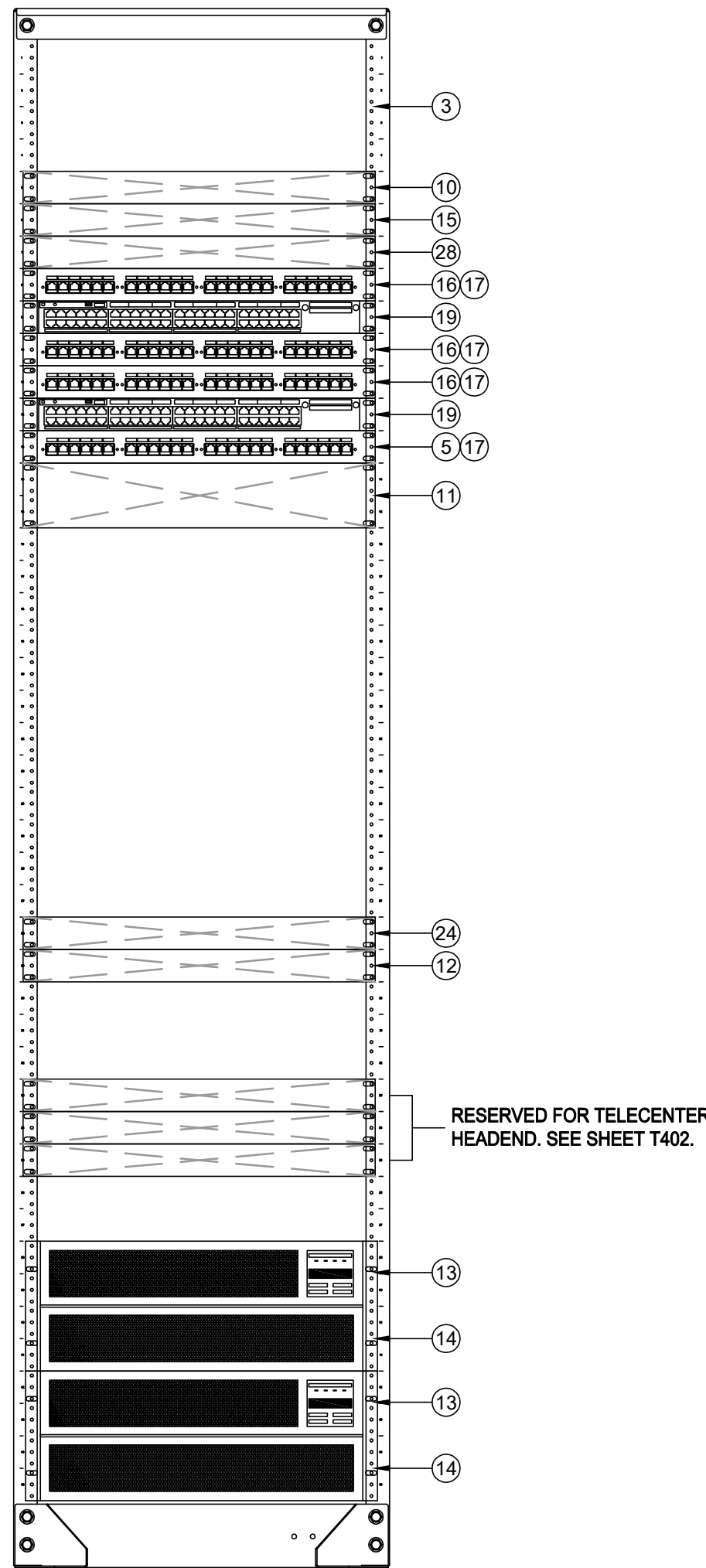
RACK - FINAL LAYOUT

SCALE: NONE

GENERAL SCOPE OF WORK: (ALL IDF/MDF)
1. REMOVE ALL (E) RACK-MOUNTED CABLE MANAGER(S).
2. PROVIDE (N) REAR CABLE MANAGEMENT BAR(S) AT EACH PATCH PANEL AND DRESS (E) CABLES FOR STRAIN RELIEF PER 11/7800.
3. RELOCATE (E) DEVICES PER THE ELEVATION.
4. INSTALL (N) OWNER-FURNISHED SWITCHES PER THE ELEVATION.
5. PROVIDE (N) 12" SLIMLINE CAT6A PATCH CABLES TO REPLACE ALL (E) PATCH CABLES AND FOR ALL (N) DROPS, COLOR CODED TO DISTRICT STANDARD.

SCOPE OF WORK - MDF 1.00
1. THE (E) MDF MUST BE PROTECTED AND KEPT OPERATIONAL UNTIL THE (N) MDF CAN BE BROUGHT ONLINE.
2. DEMO THE UPPER TWO KRONE PATCH PANELS AND ALL ASSOCIATED CABLING.
3. PROVIDE (N) 24P PATCH PANELS PER THE ELEVATION.
4. RE-LABEL ALL (E) DROPS PER 11/7800 AT BOTH PATCH PANEL AND FIELD AND BOTH ENDS OF CABLE.
5. DEMO ALL MM FIBER CABLES TERMINATED IN THE ORTRONICS FIBER LIU.
6. ROUTE POWER FOR ALL RACK COMPONENTS SO THEY ARE PROTECTED BY THE UNINTERRUPTIBLE POWER SUPPLIES.

EQUIPMENT SCHEDULE: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MFG	PART NUMBER	NOTES / DETAIL REFERENCES
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) CWM 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	OFCl	N/A
⑲	(N) 48P SWITCH	CISCO	OFCl	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 FIBER 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



RACK - FINAL LAYOUT

SCALE: NONE



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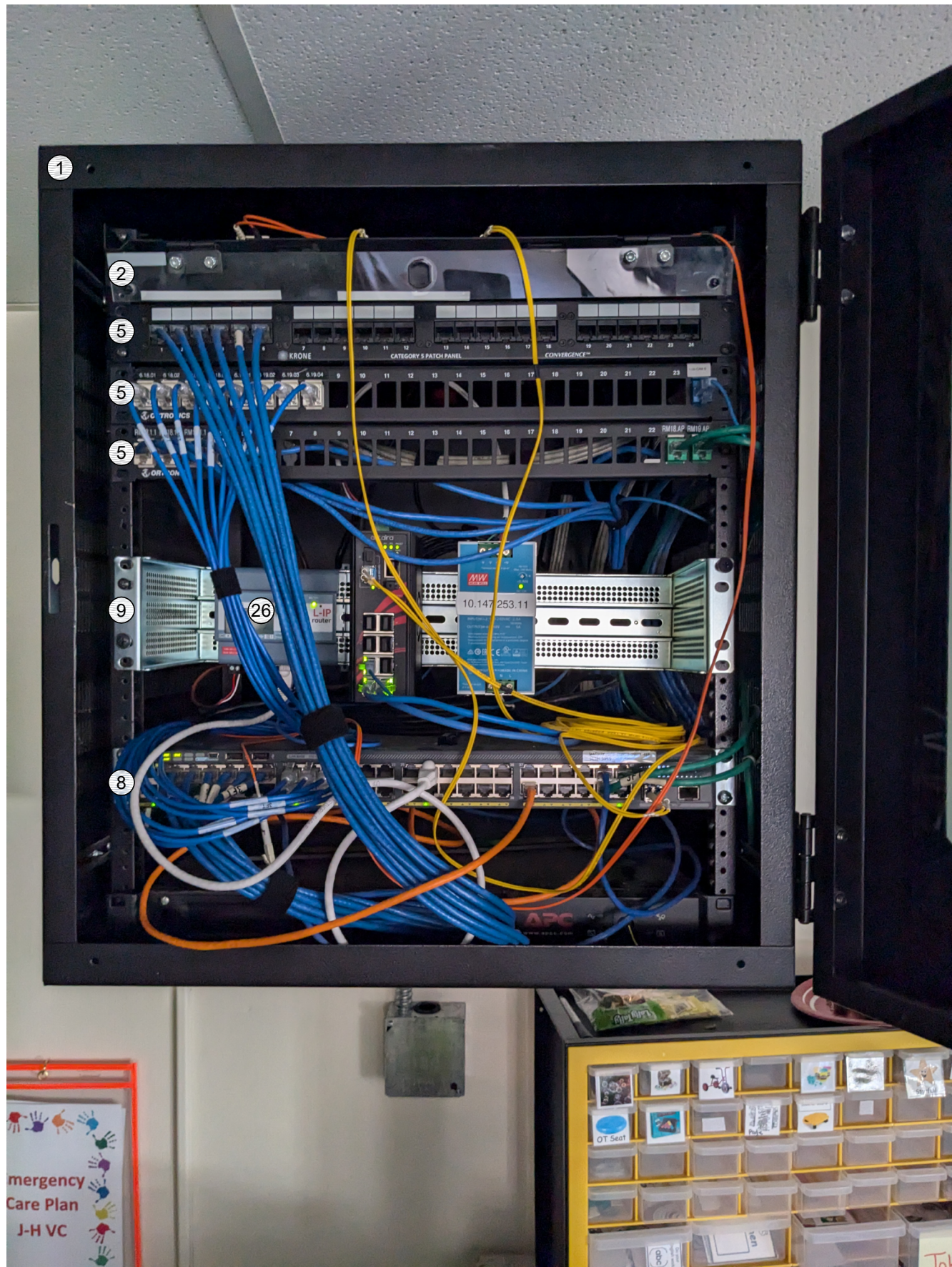
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DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07

REVISION

SHEET

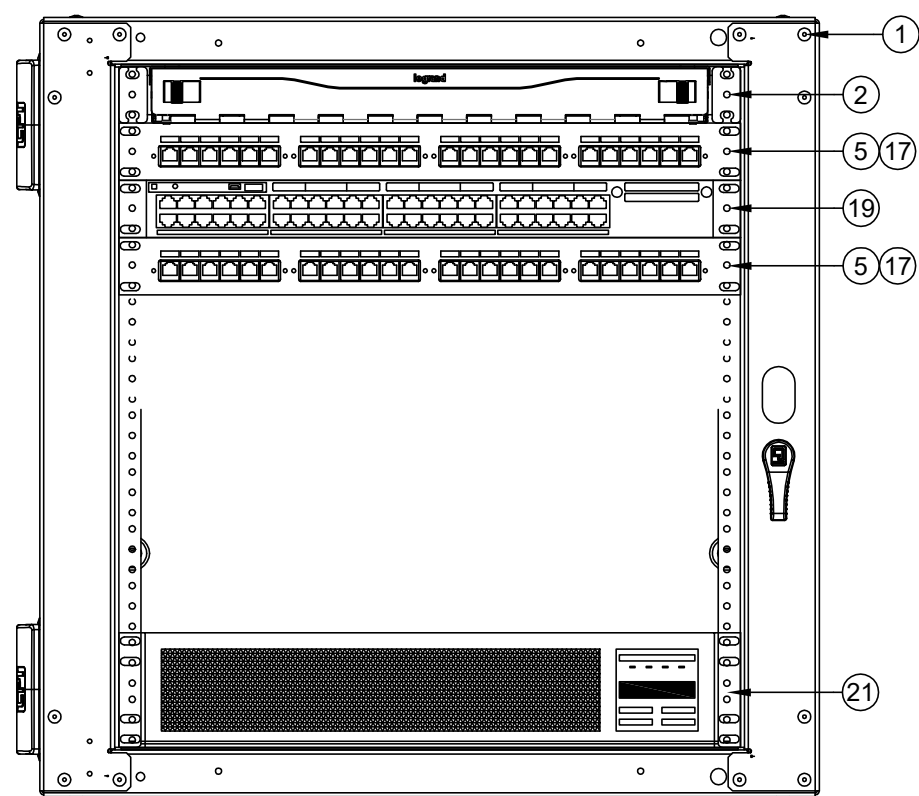
T700

- SCOPE OF WORK - IDF 1.06
1. 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

SCALE: NONE



RACK - FINAL LAYOUT

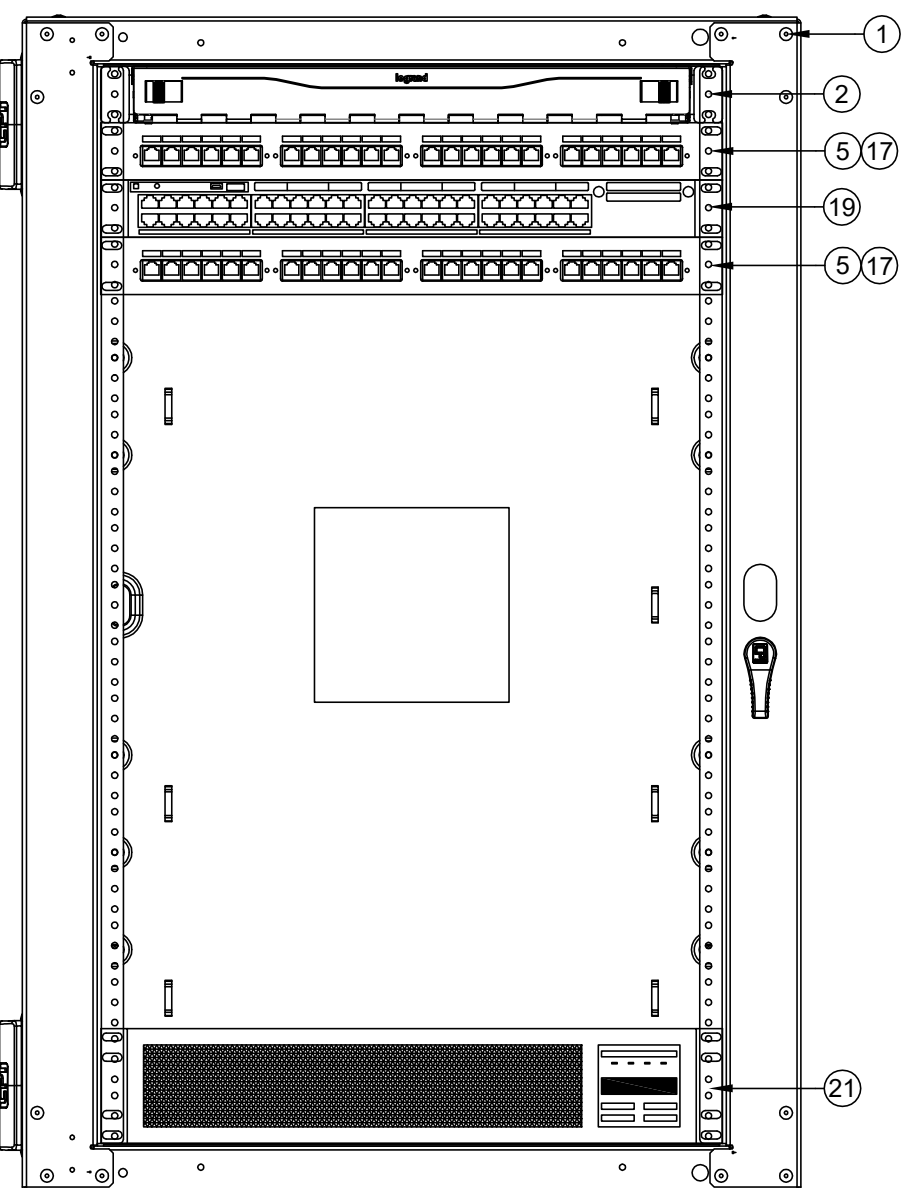
SCALE: NONE

- SCOPE OF WORK - IDF 1.05
1. DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.
 2. TERMINATE 2 EA. (E) CCTV DATA DROPS ON (N) BLUE KEYSTONES.
 3. DEMO (E) CCTV SWITCH AND POWER SUPPLY AND RETURN TO DISTRICT.



RACK - EXISTING CONDITION

SCALE: NONE



RACK - FINAL LAYOUT

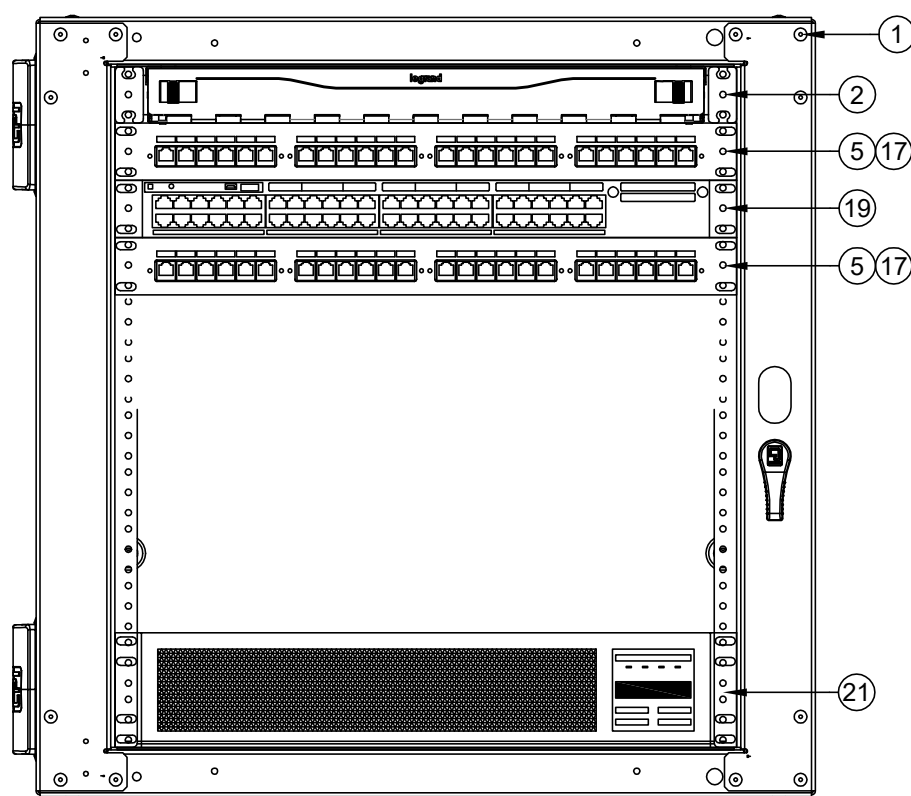
SCALE: NONE

- SCOPE OF WORK - IDF 1.04
1. DEMO (E) 24P KRONE PATCH PANEL AT TOP OF RACK AND ALL ASSOCIATED CABLING TO FIELD.
 2. DEMO (E) UPS #13.
 3. 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

SCALE: NONE



RACK - FINAL LAYOUT

SCALE: NONE

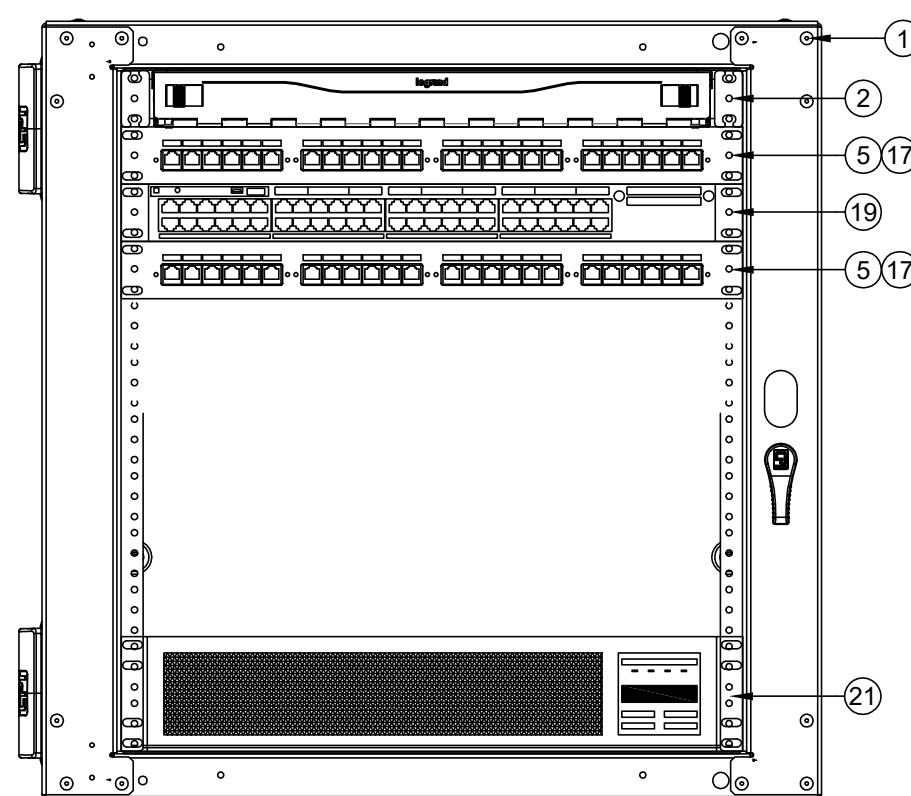
REFER TO SYMBOL LEGEND ON T400 FOR ALL DEVICES ON THIS SHEET

- SCOPE OF WORK - IDF 1.03
1. 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.
 4. 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

SCALE: NONE



RACK - FINAL LAYOUT

SCALE: NONE



KMM SERVICES, INC
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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

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

REVISION

SHEET
T701

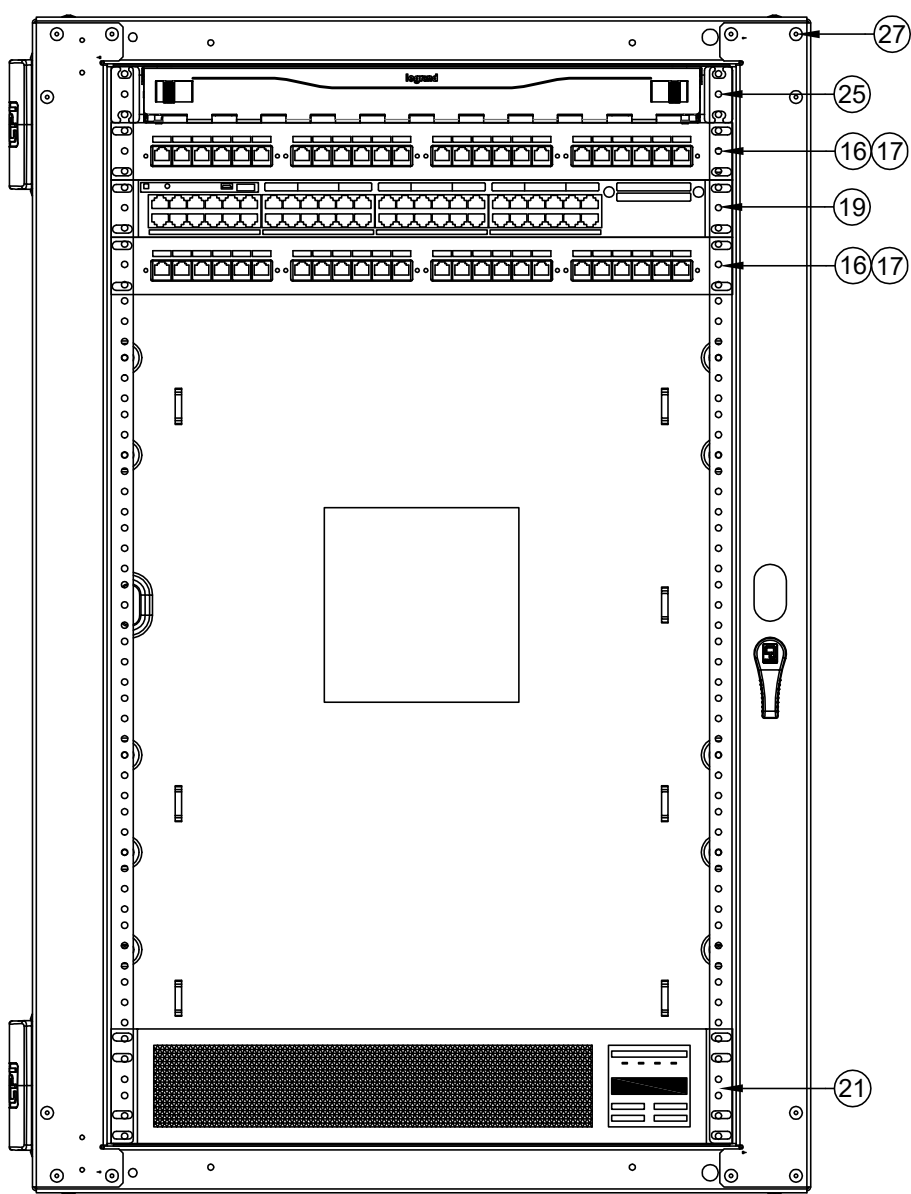
- SCOPE OF WORK - IDF 1.10
1. PROVIDE (N) 19U RACK MOUNT CABINET.
 2. PROVIDE (N) 24-STRAND SM FIBER TO MDF.
 3. PROVIDE (N) PATCH PANELS PER THE ELEVATION.
 4. PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (N) CABINET.
 5. PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.

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



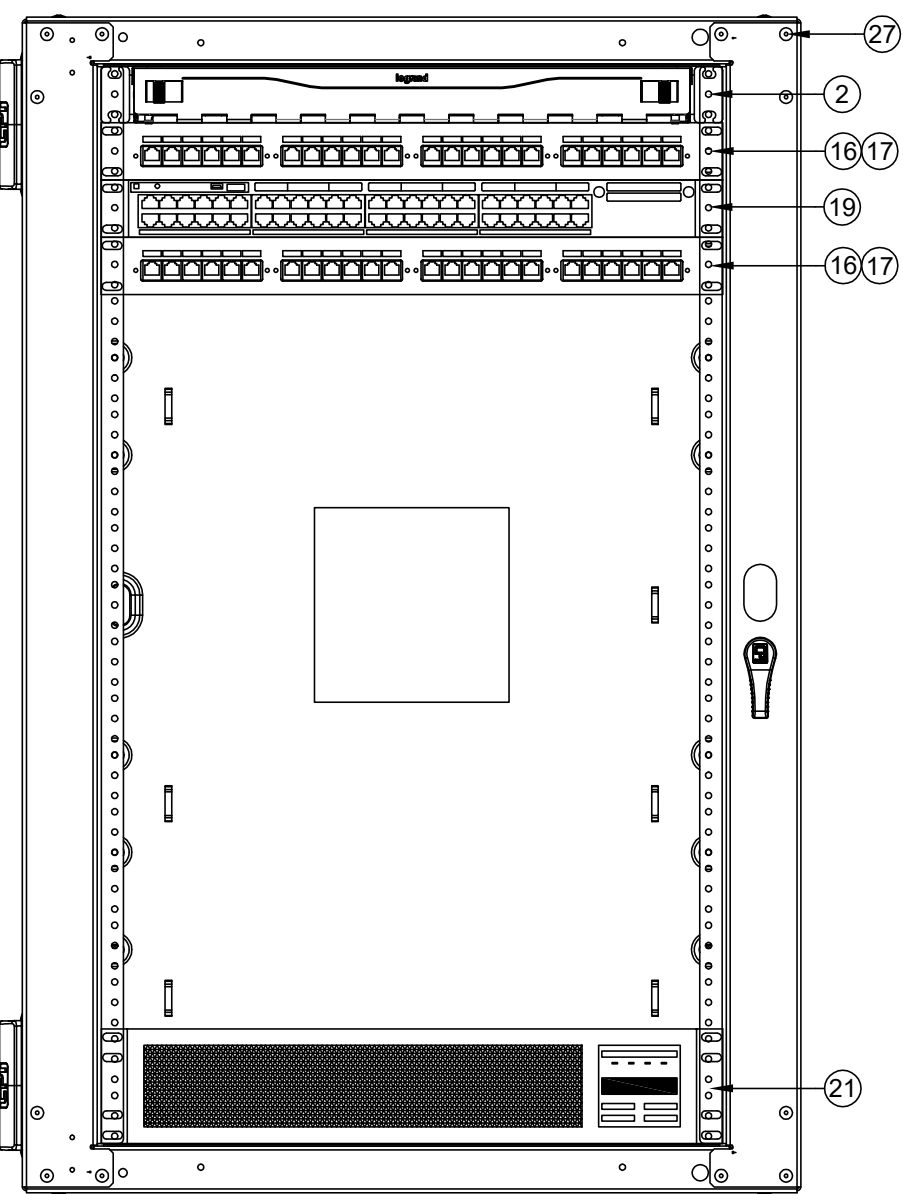
RACK - EXISTING CONDITION

SCALE: NONE



RACK - FINAL LAYOUT

SCALE: NONE



RACK - FINAL LAYOUT

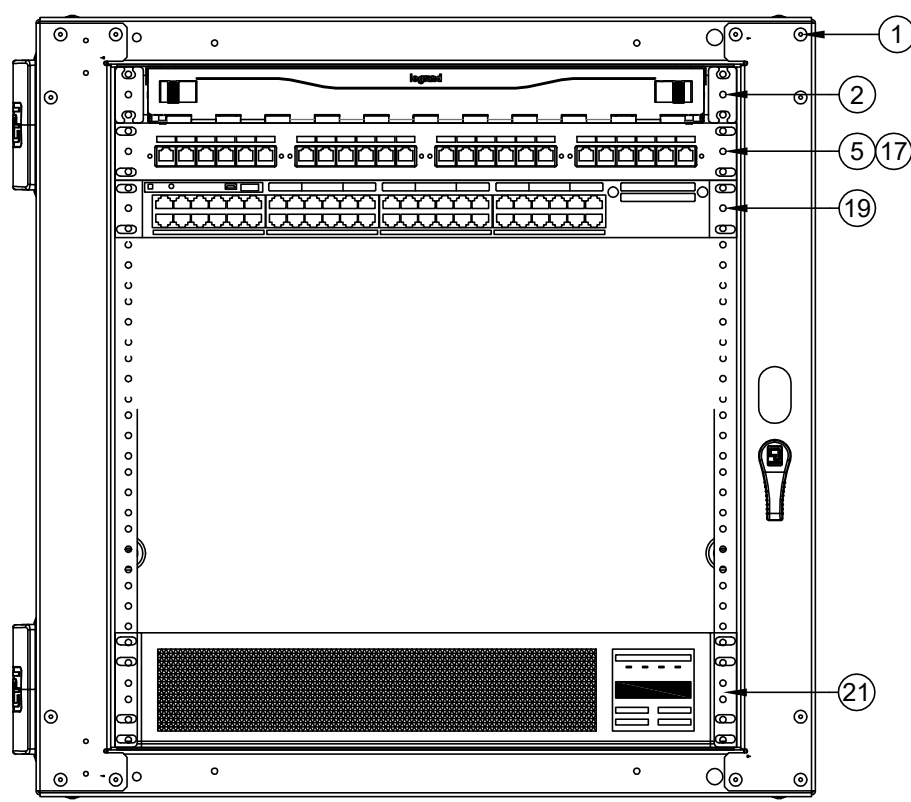
SCALE: NONE

- SCOPE OF WORK - IDF 1.08
1. 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

SCALE: NONE

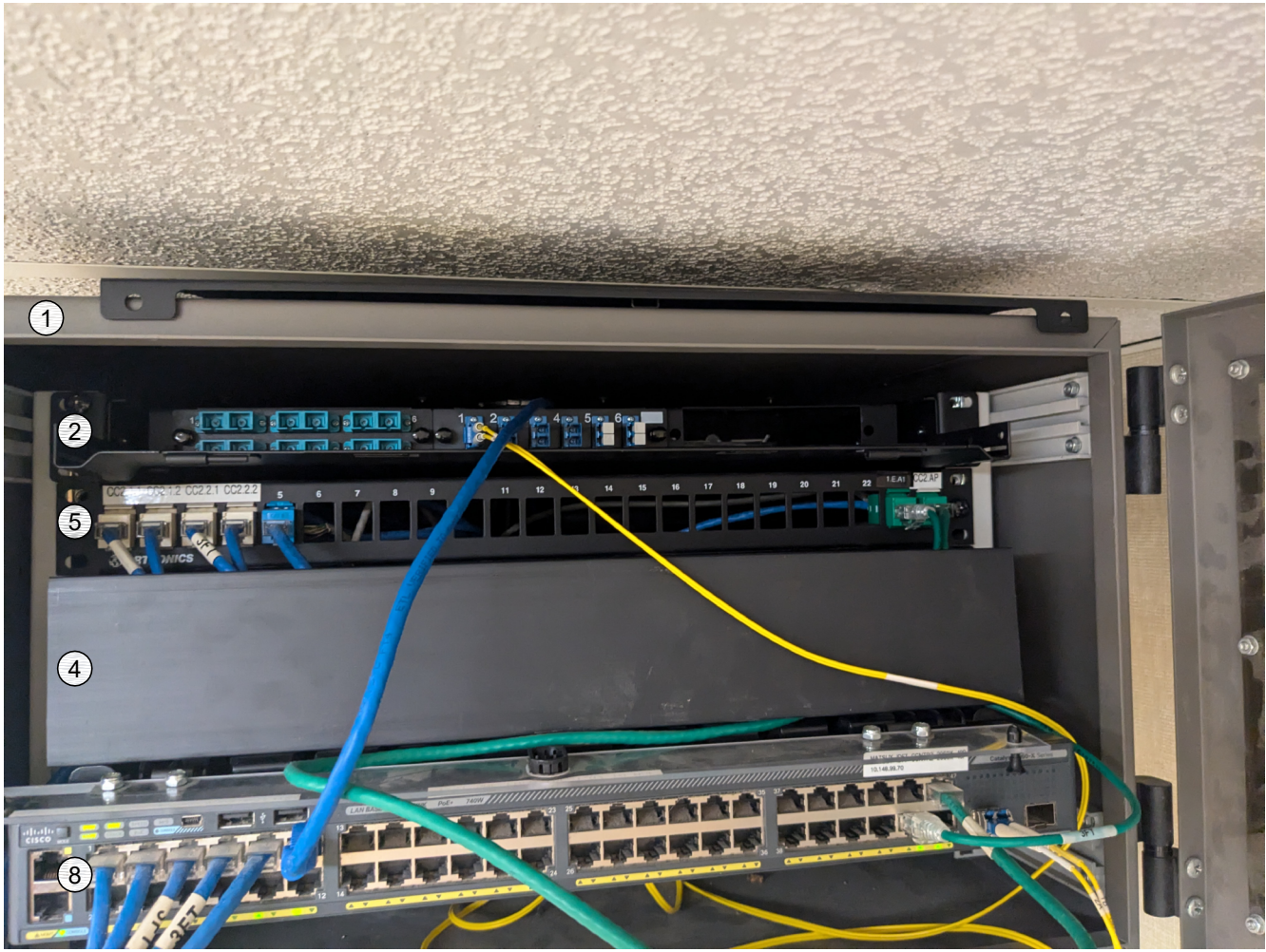


RACK - FINAL LAYOUT

SCALE: NONE

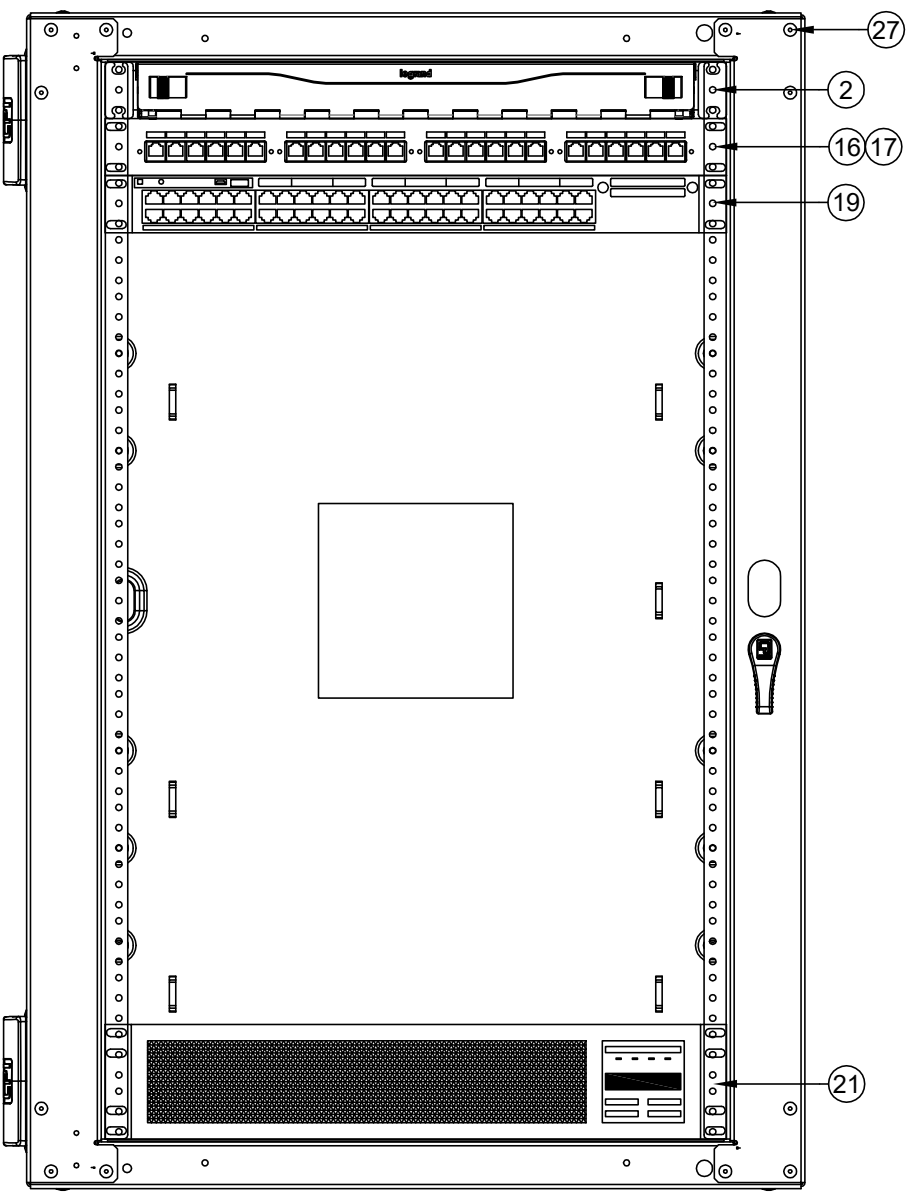
REFER TO SYMBOL LEGEND ON T400 FOR ALL DEVICES ON THIS SHEET

- SCOPE OF WORK - IDF 1.07
1. PROVIDE (N) 19U RACK MOUNT CABINET. INSTALL AT SAME LOCATION AS (E) CABINET.
 2. REWORK (E) SM FIBER AND LIU INTO (N) CABINET.
 3. REWORK (E) 7 EA. COPPER DATA DROPS INTO (N) CABINET.
 4. PROVIDE (N) 1 EA. DEDICATED 120V 20A CIRCUIT IN QUAD BOX ON REAR PAN OF (N) CABINET.
 5. 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

SCALE: NONE



RACK - FINAL LAYOUT

SCALE: NONE



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SHEET REVISIONS		
DELTA	DESCRIPTION	DATE

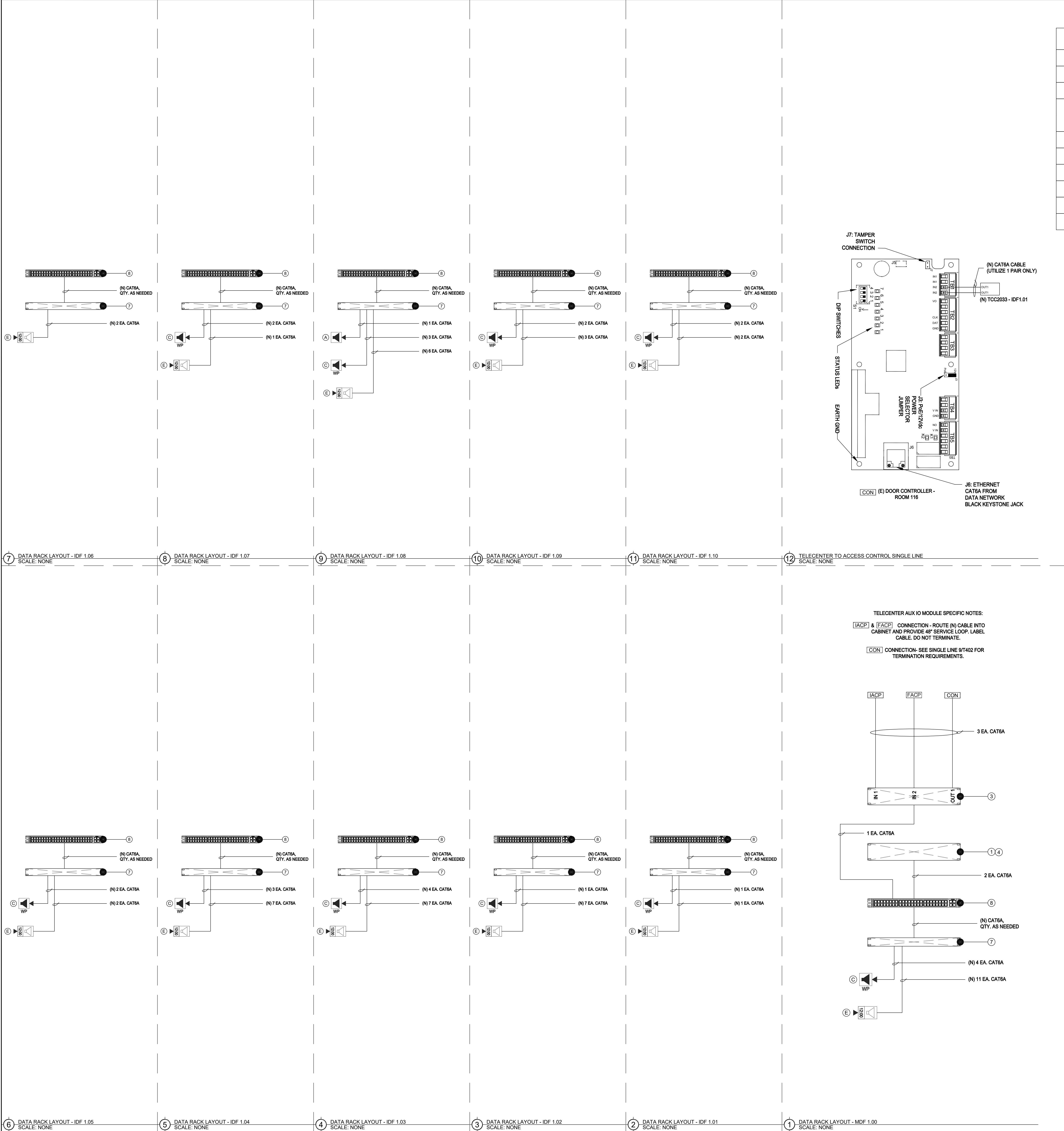
SITE KEY PLAN	

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES
TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831

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
SHEET
T702



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

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

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

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

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



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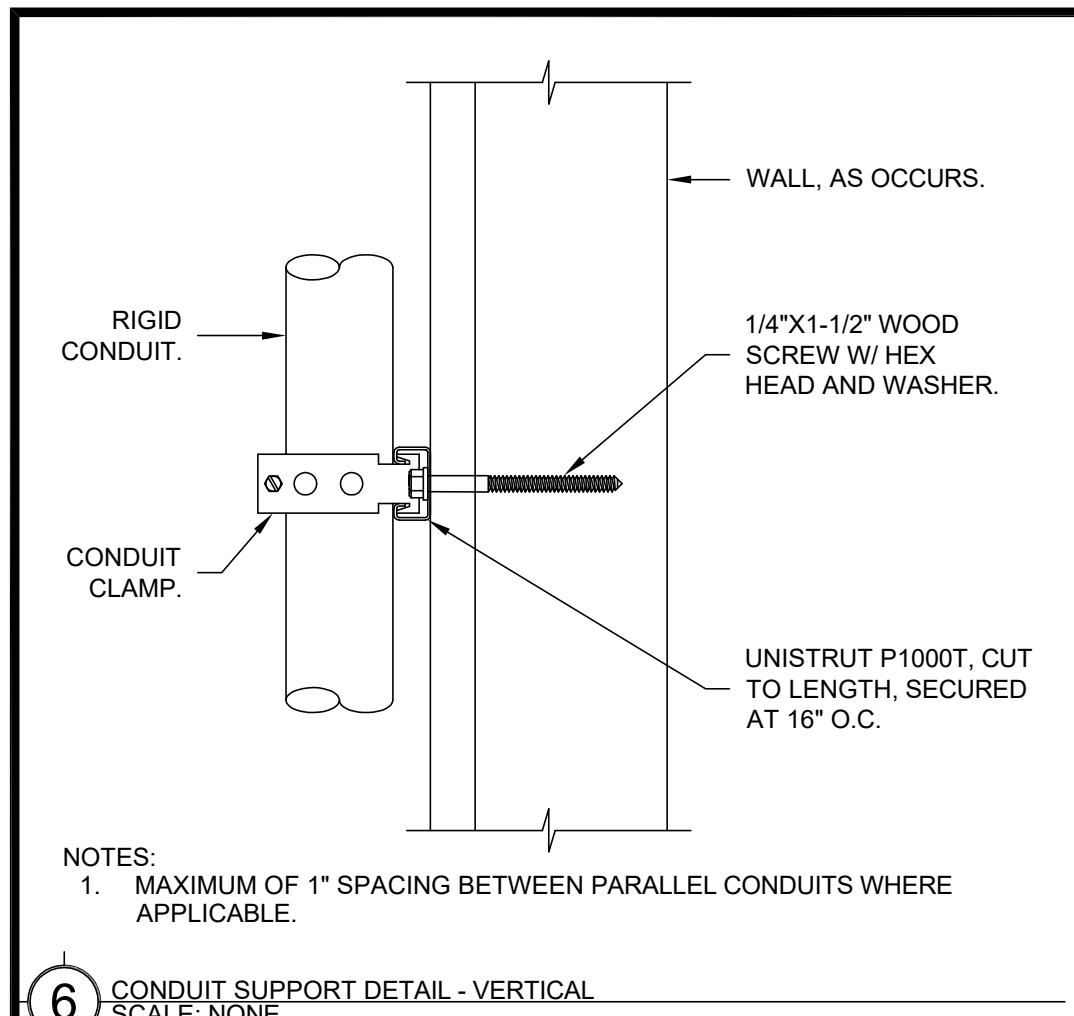
SHEET REVISIONS		
DELTA	DESCRIPTION	DATE

SITE KEY PLAN	

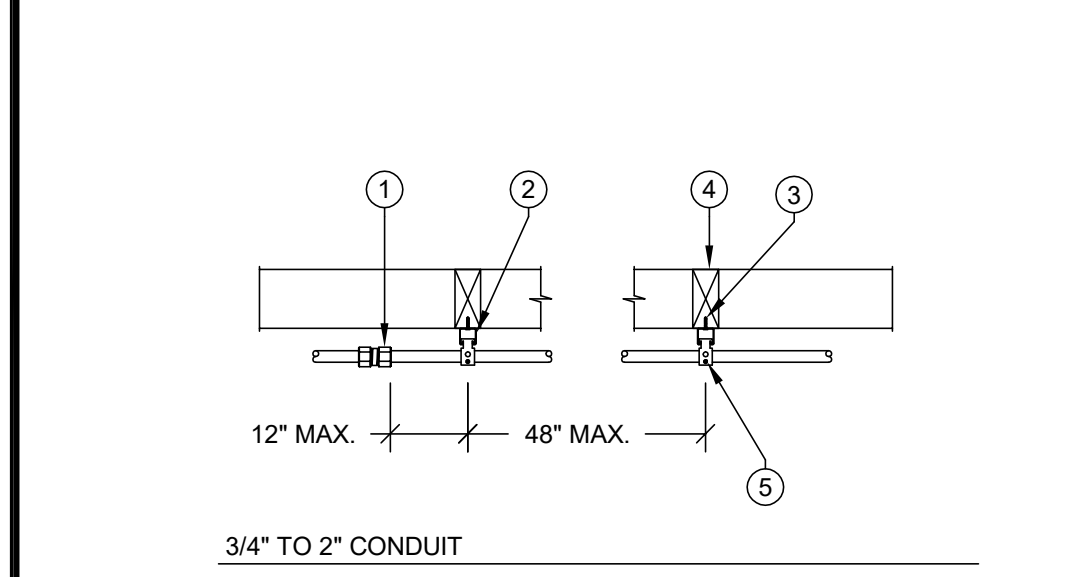
PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
MATSUYAMA ES
TELECENTER UPGRADE
7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831

SHEET TITLE
TECHNOLOGY
SINGLE LINE DIAGRAMS

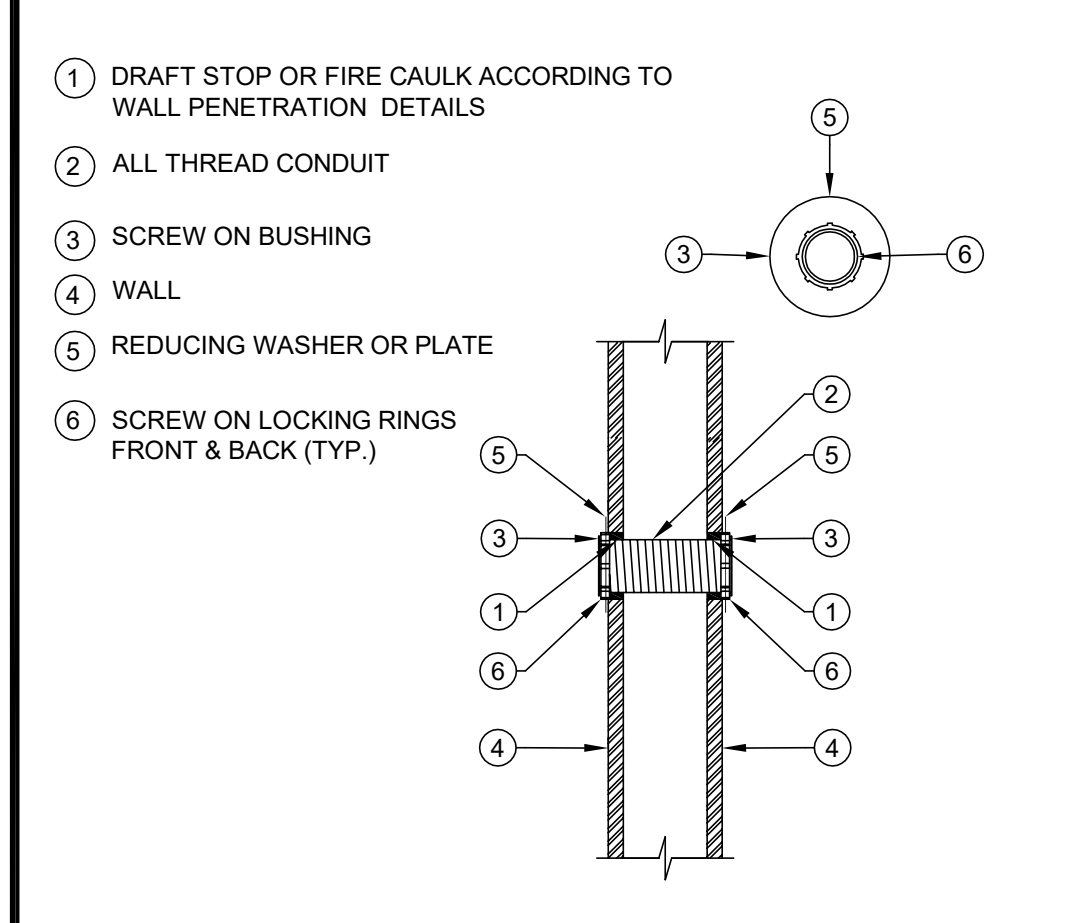
DRAWING STATUS CONSTRUCTION DOCUMENTS	
PROJECT NO:	
BID PACKAGE:	0242-411
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-07-07
WORKING DATE:	2025-07-07
REVISION	
SHEET	T703



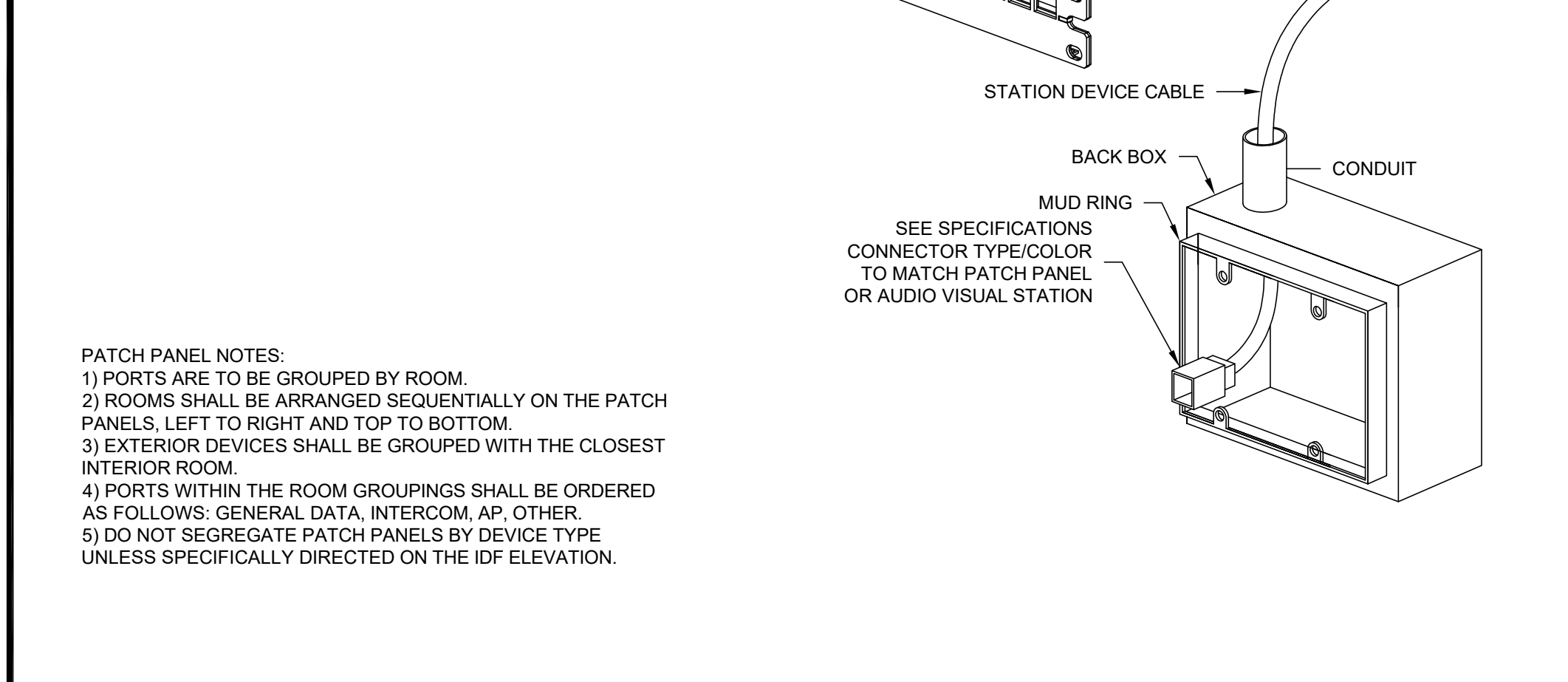
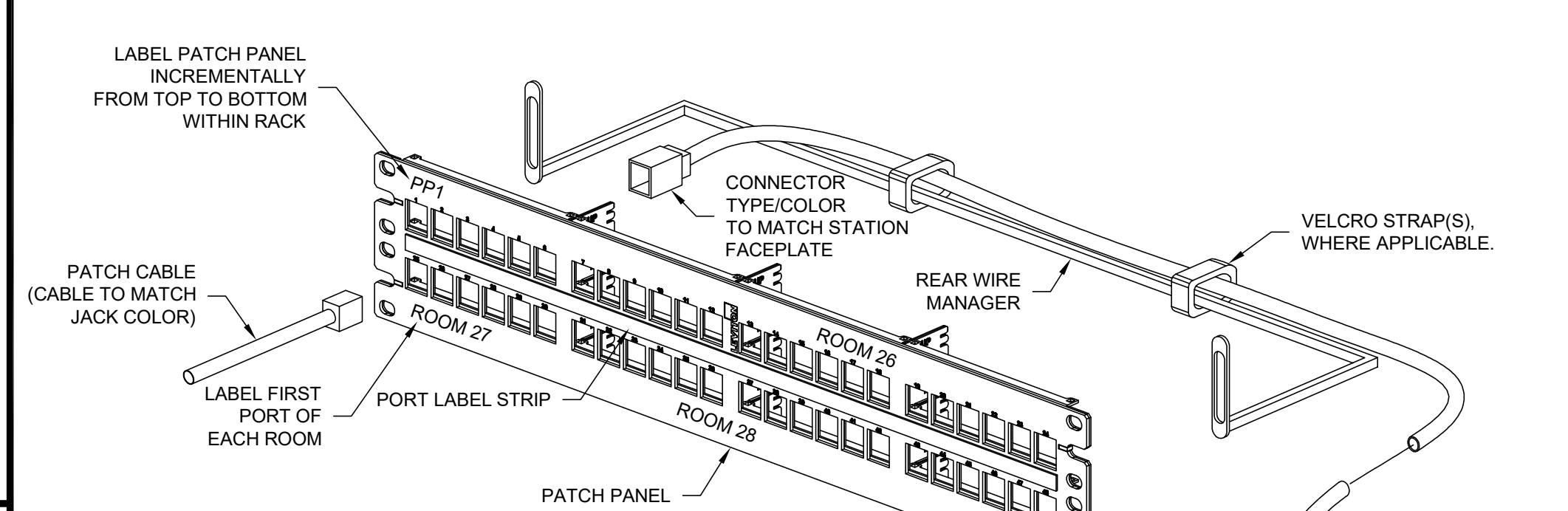
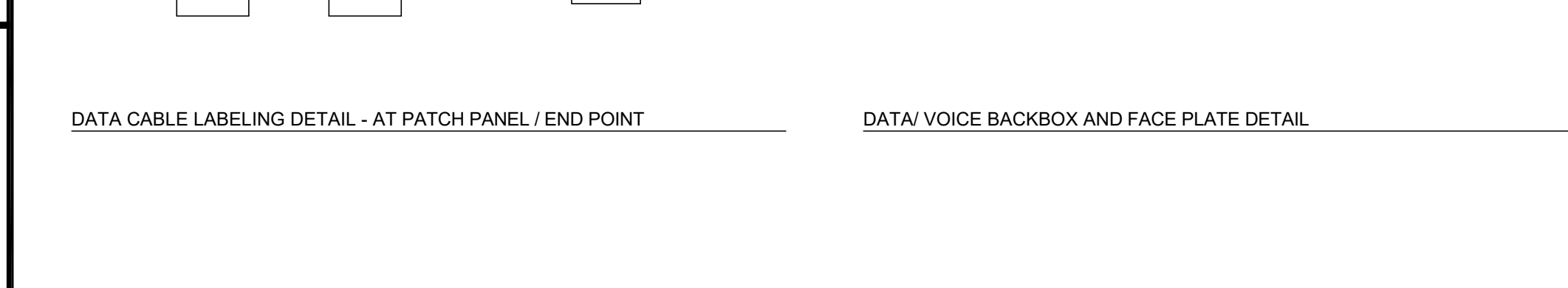
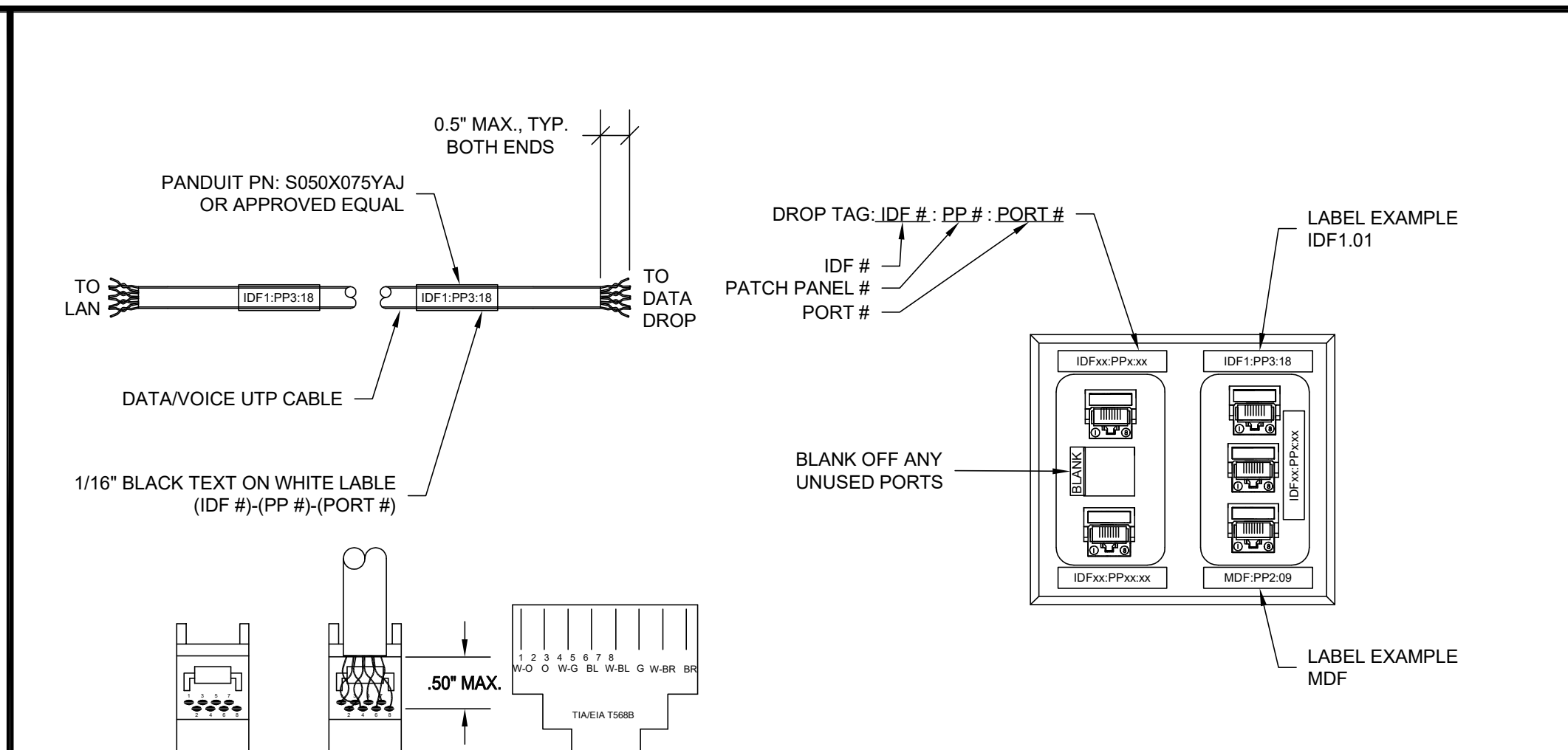
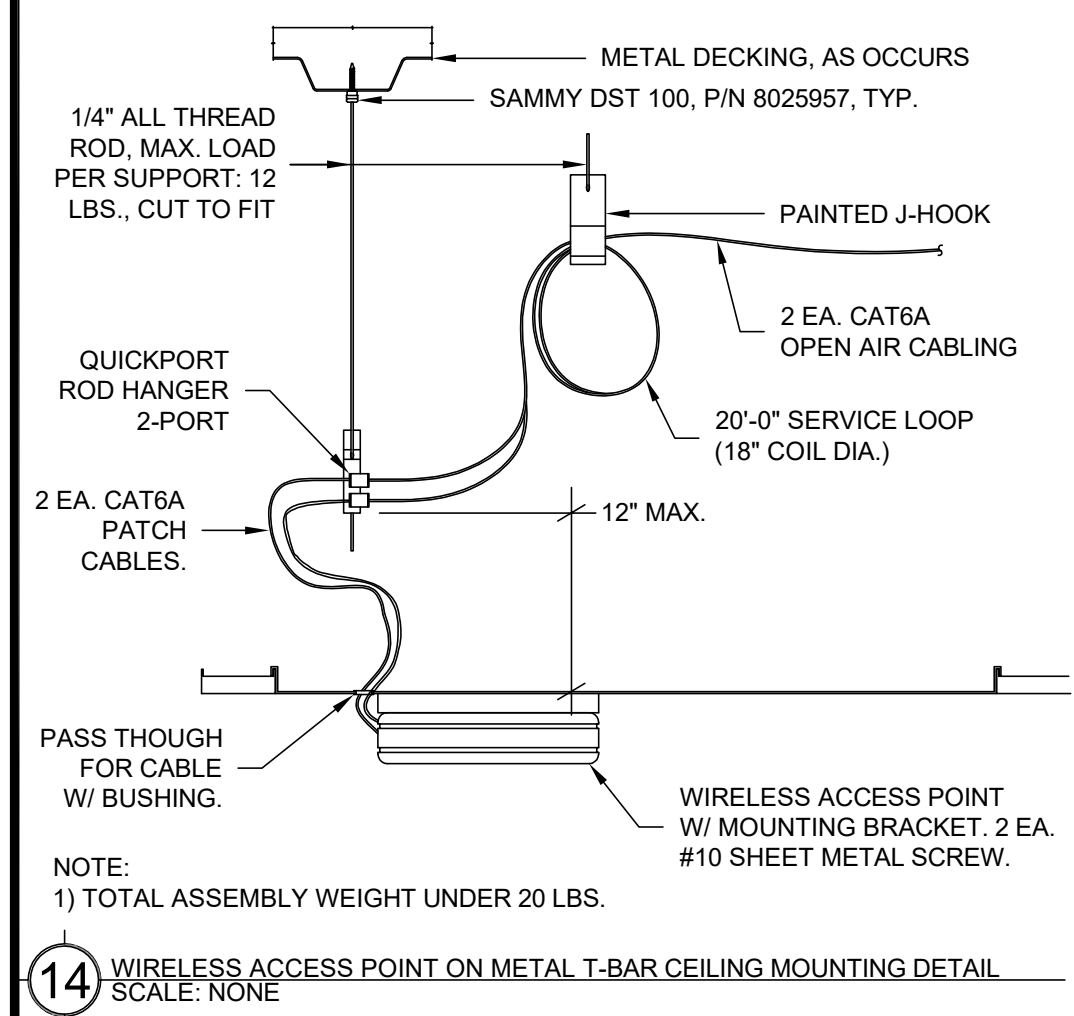
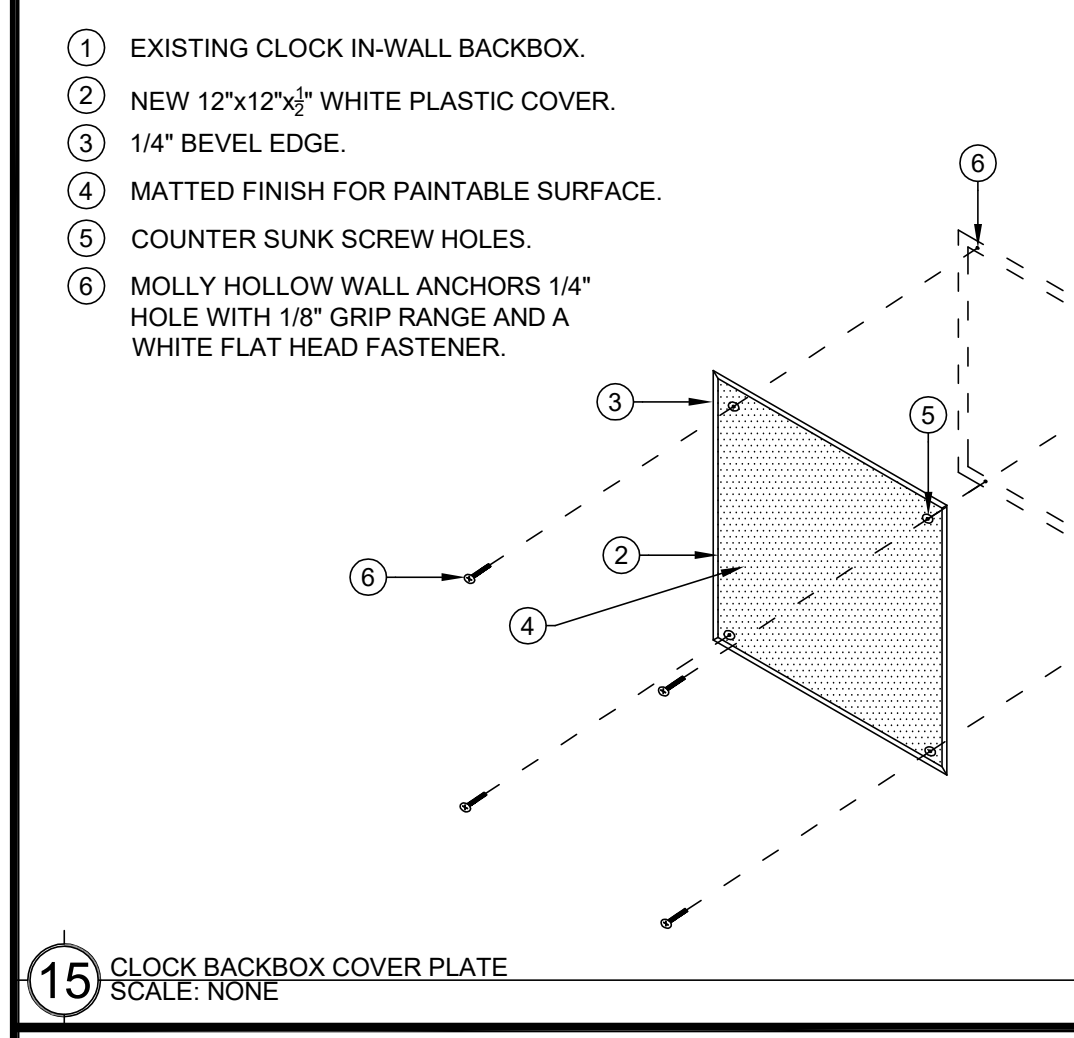
- NOTES:
1. MAXIMUM OF 1" SPACING BETWEEN PARALLEL CONDUITS WHERE APPLICABLE.



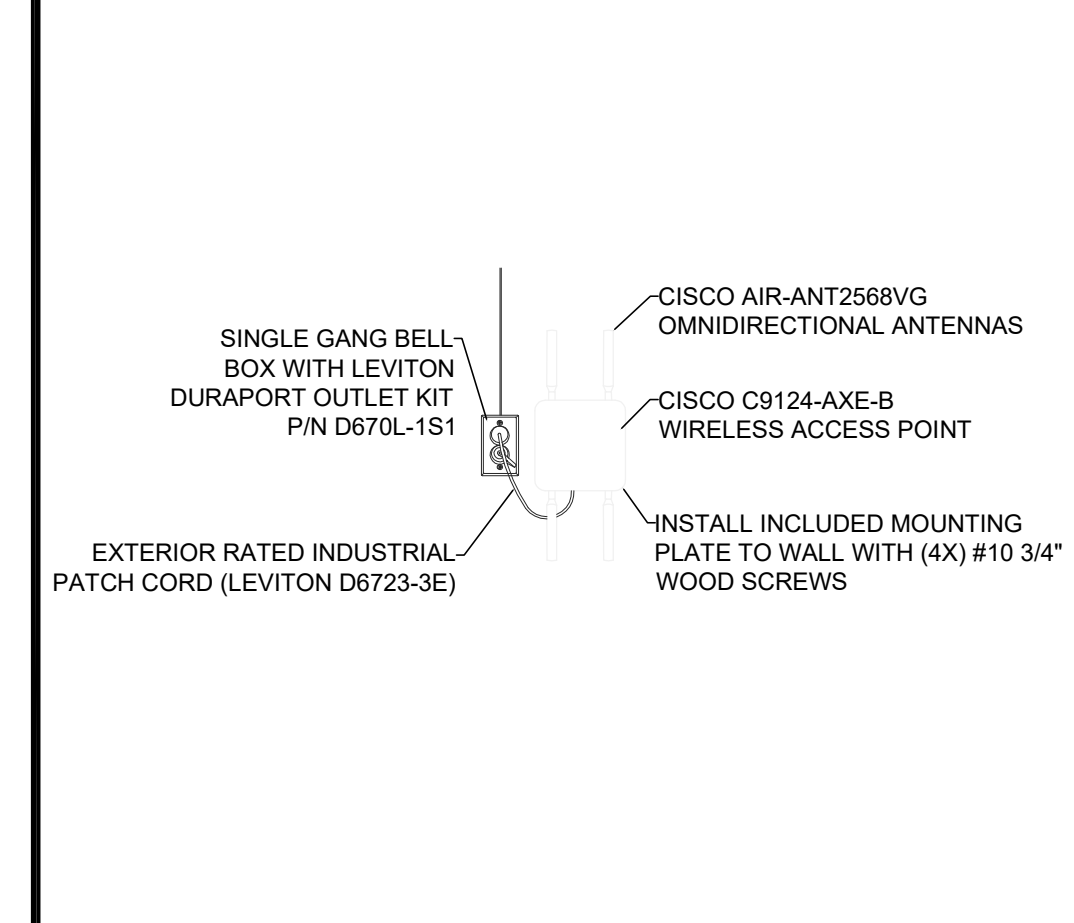
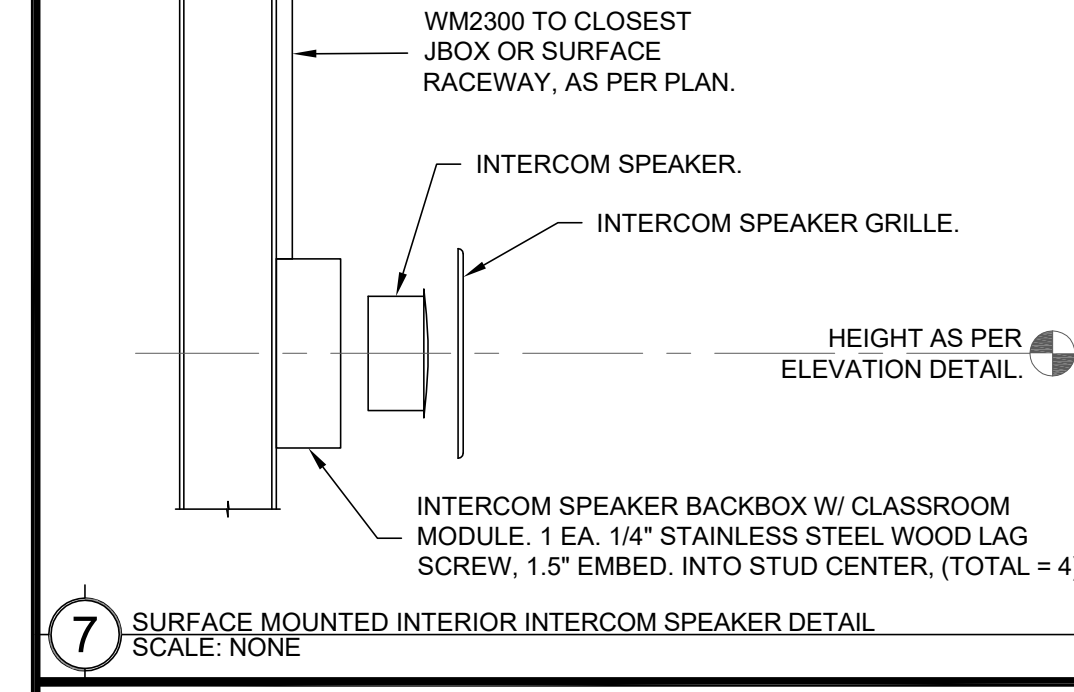
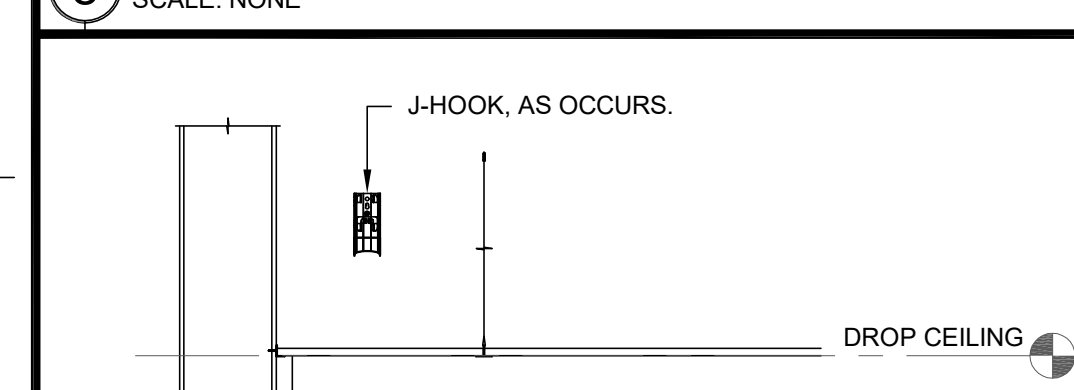
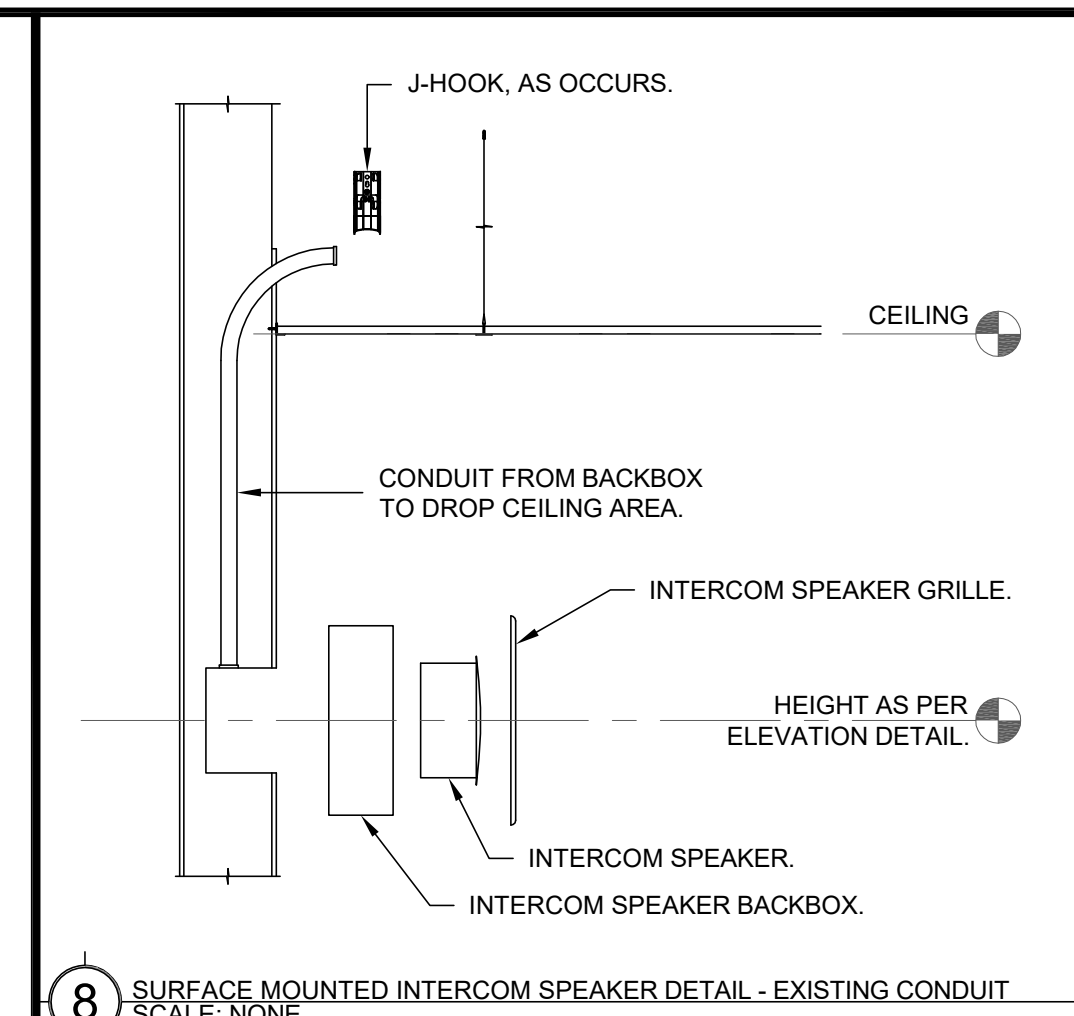
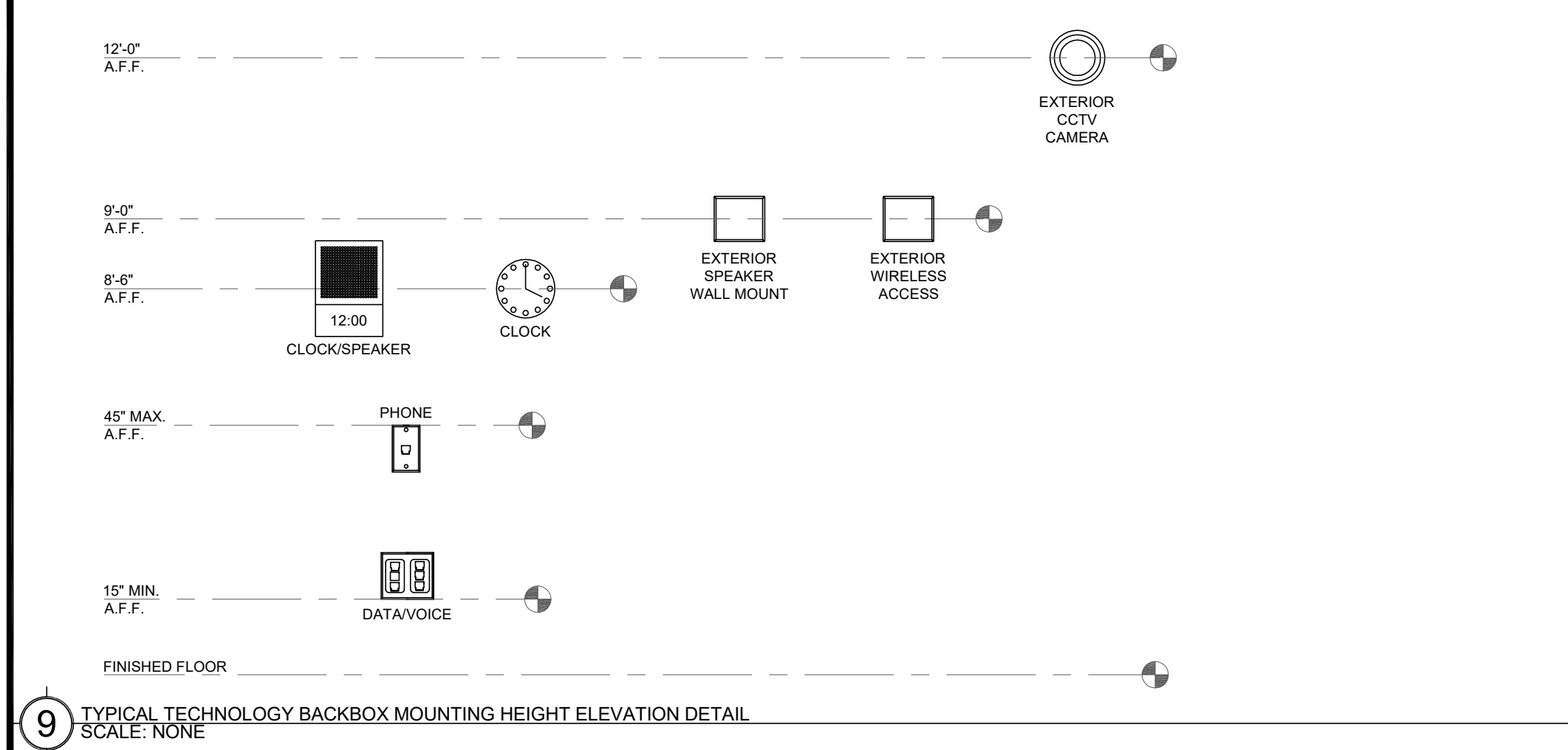
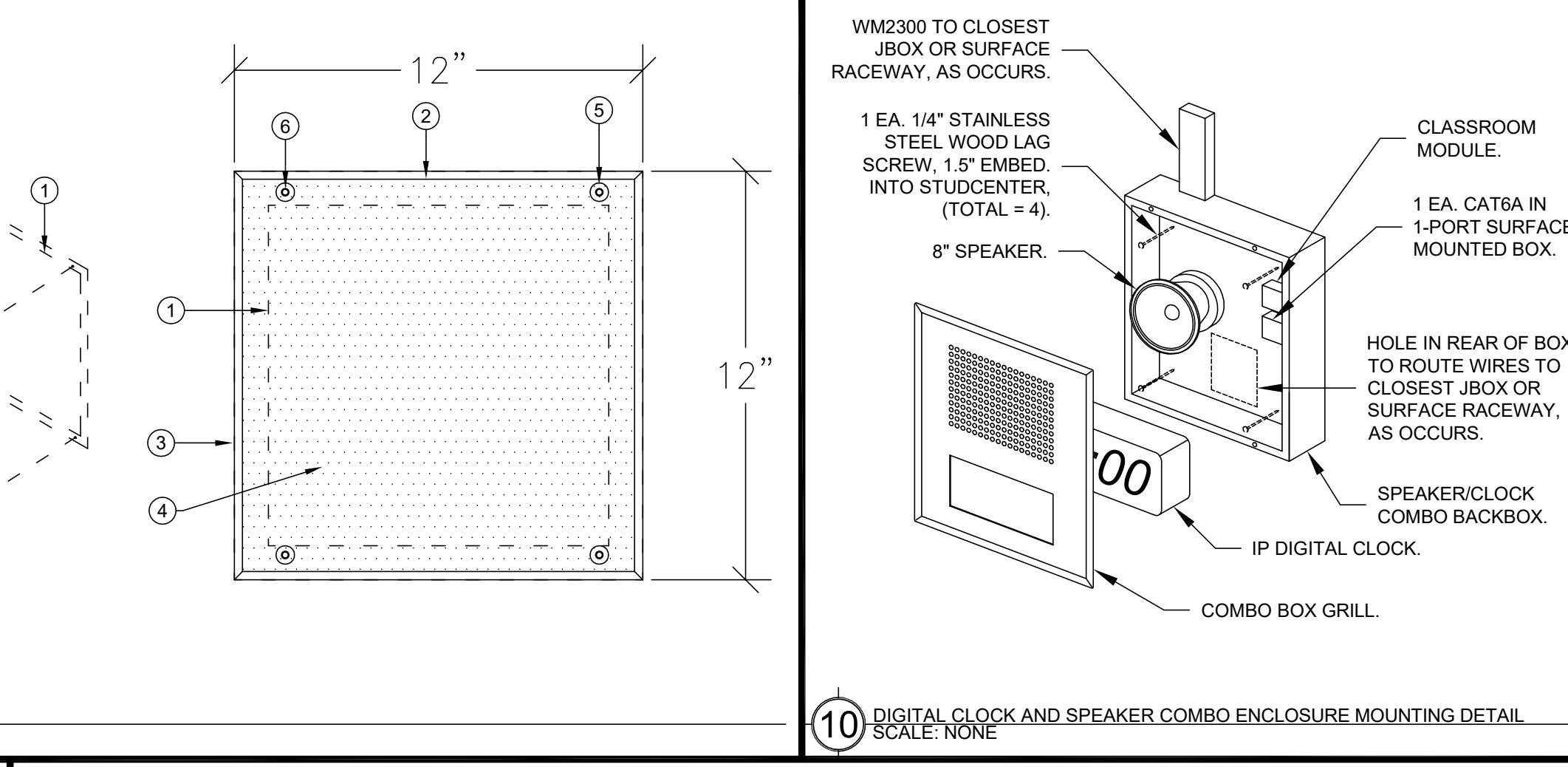
1. DRAFT STOP OR FIRE CAULK ACCORDING TO WALL PENETRATION DETAILS



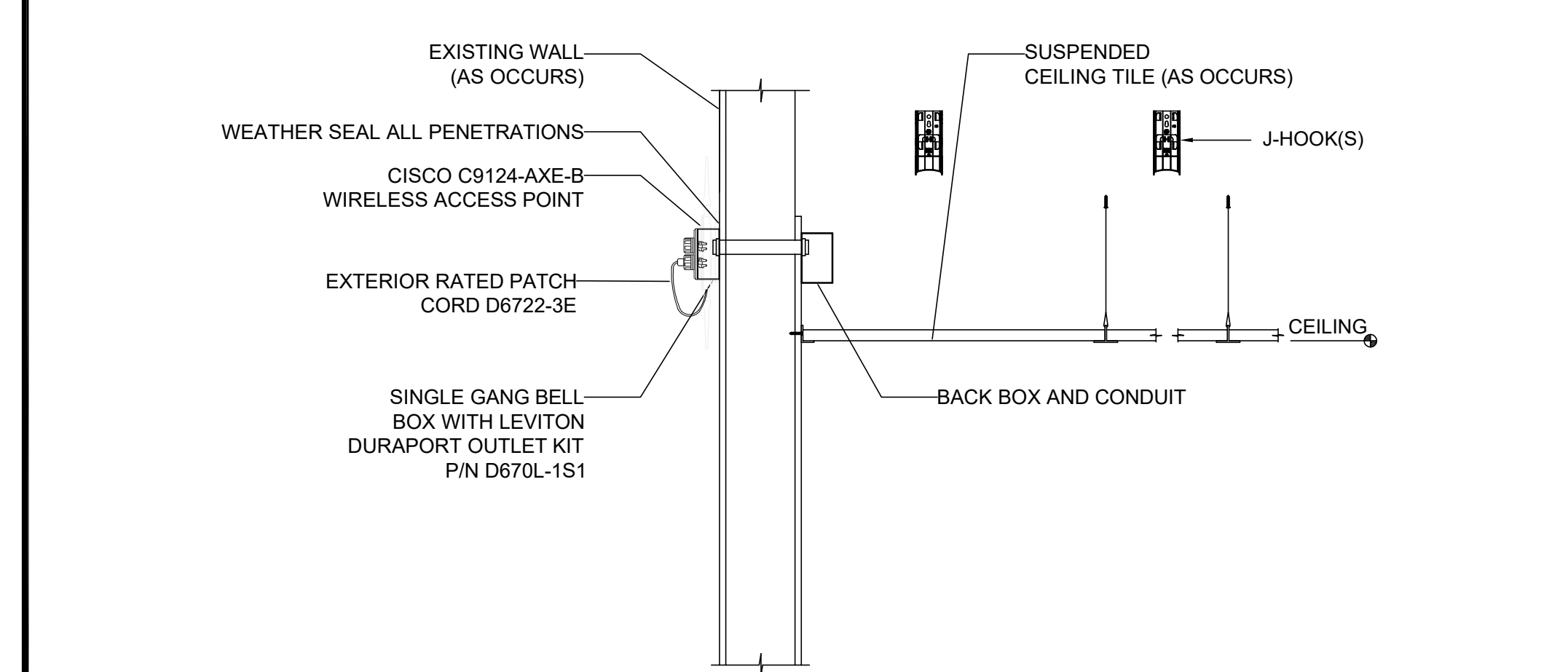
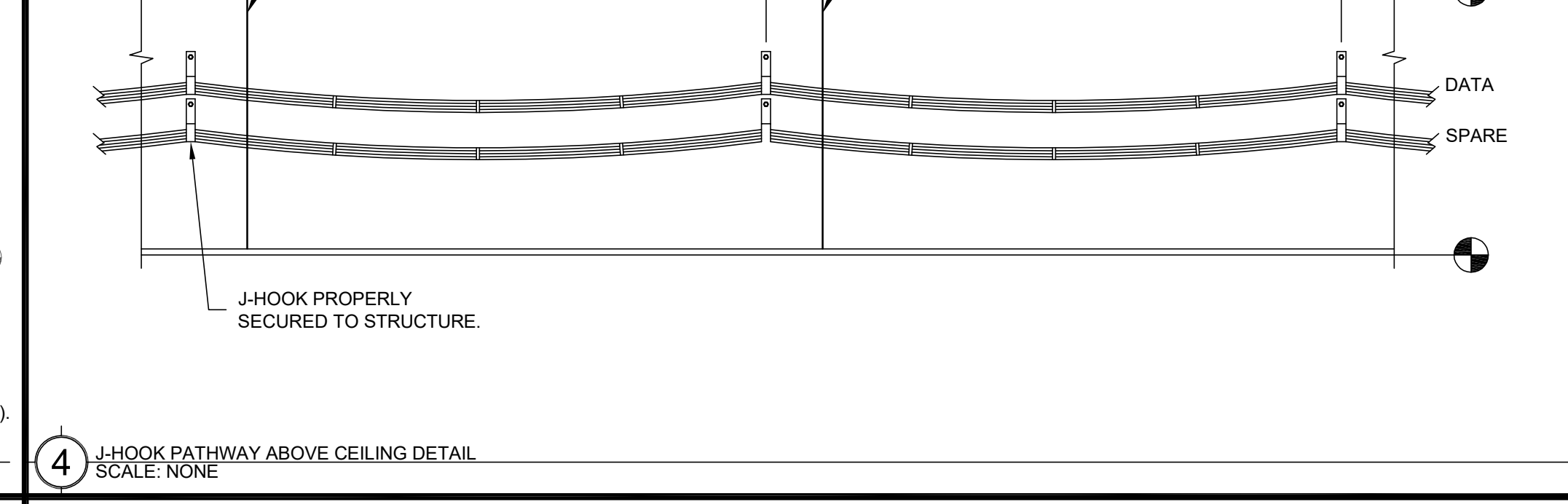
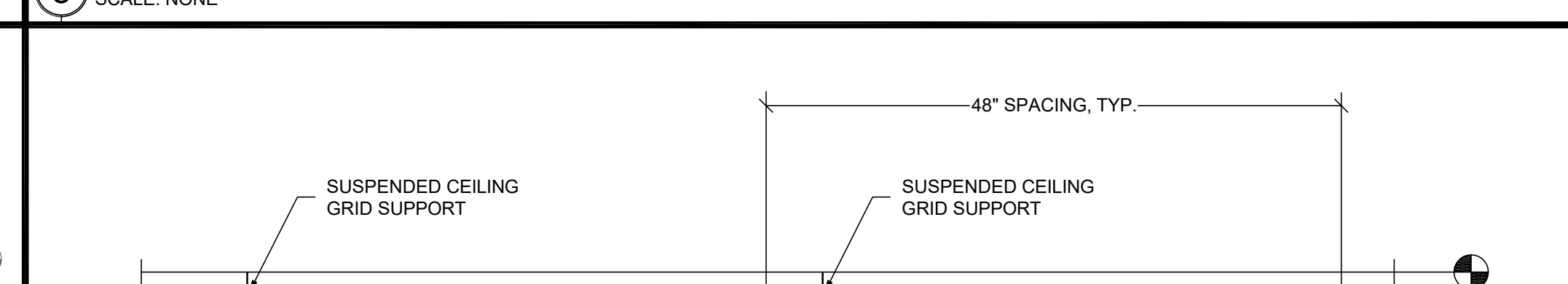
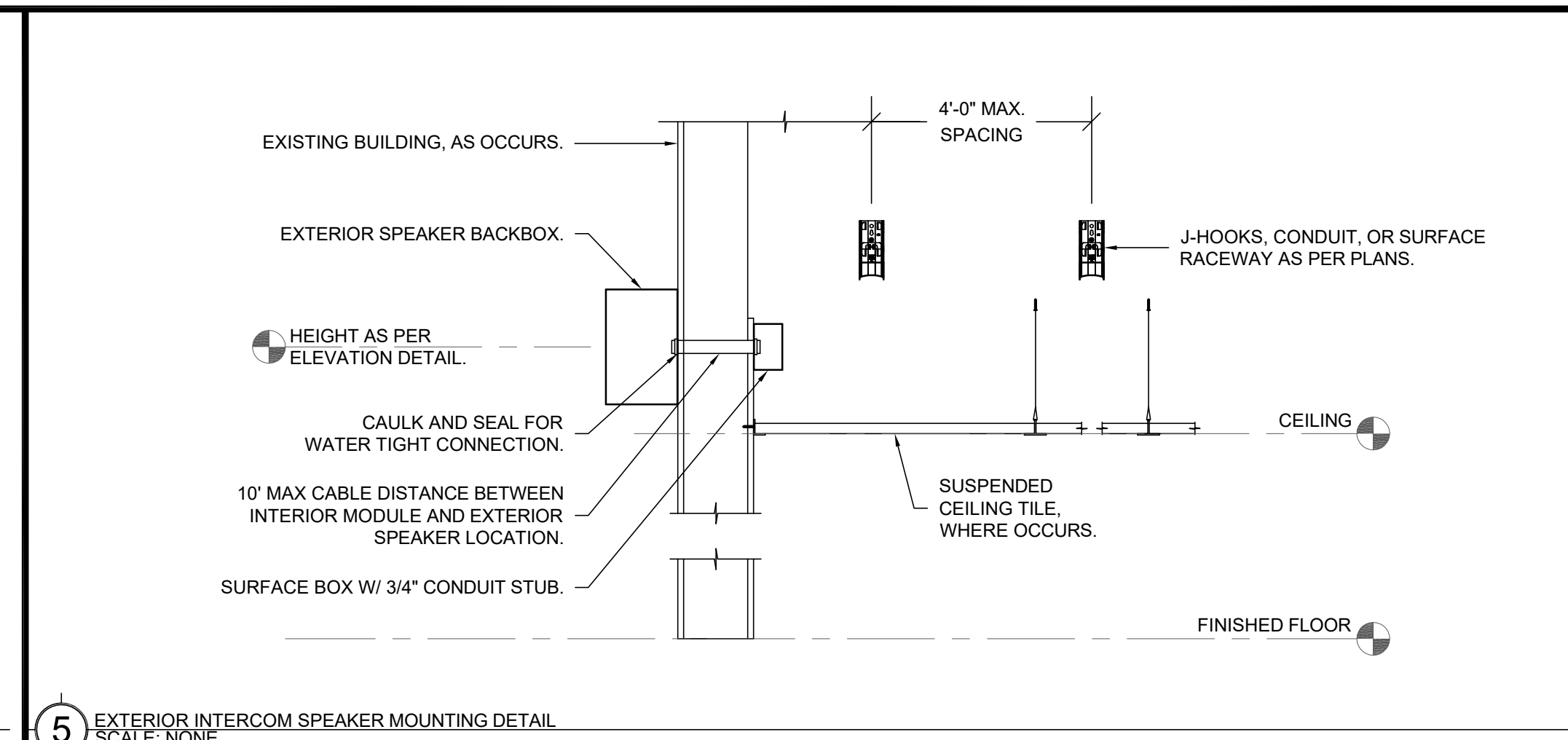
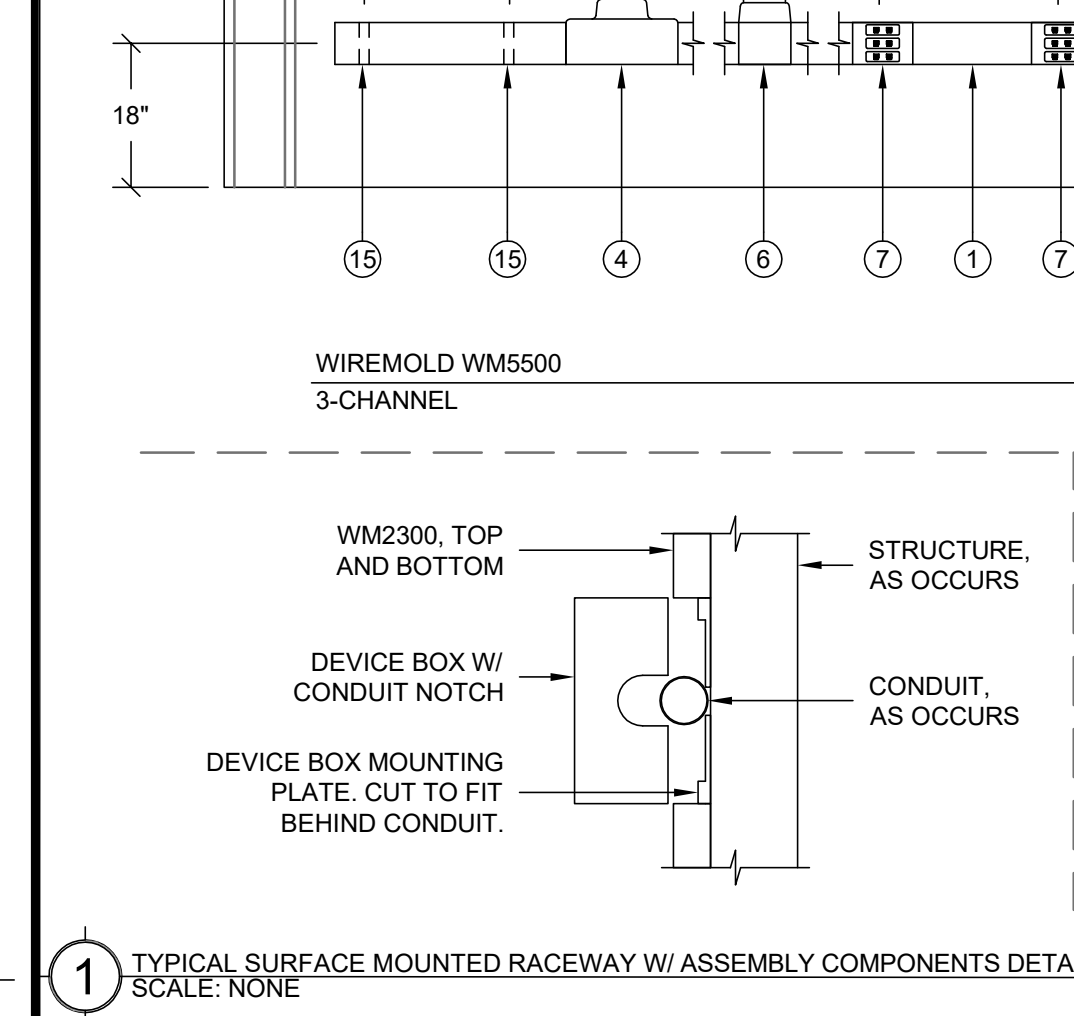
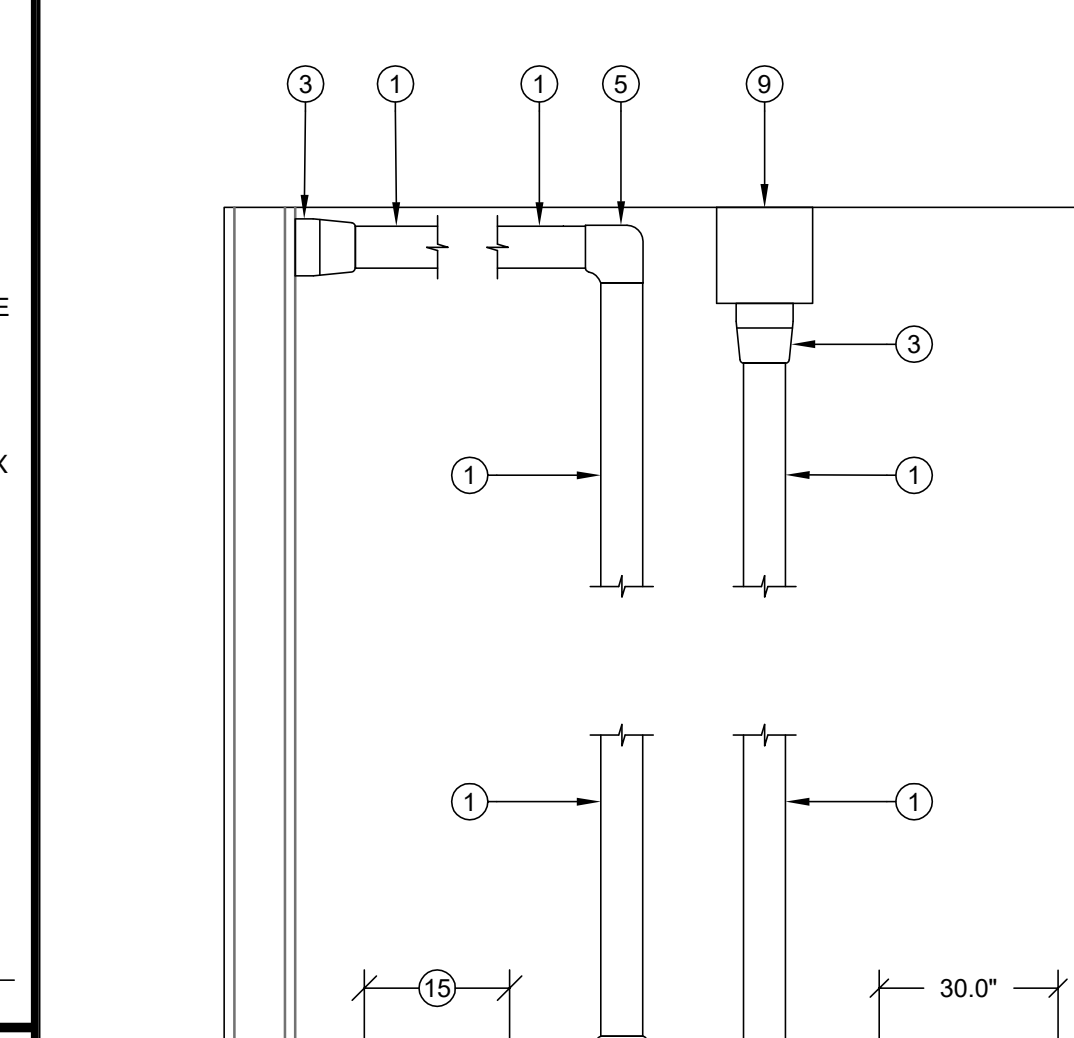
1. EXISTING CLOCK IN-WALL BACKBOX.



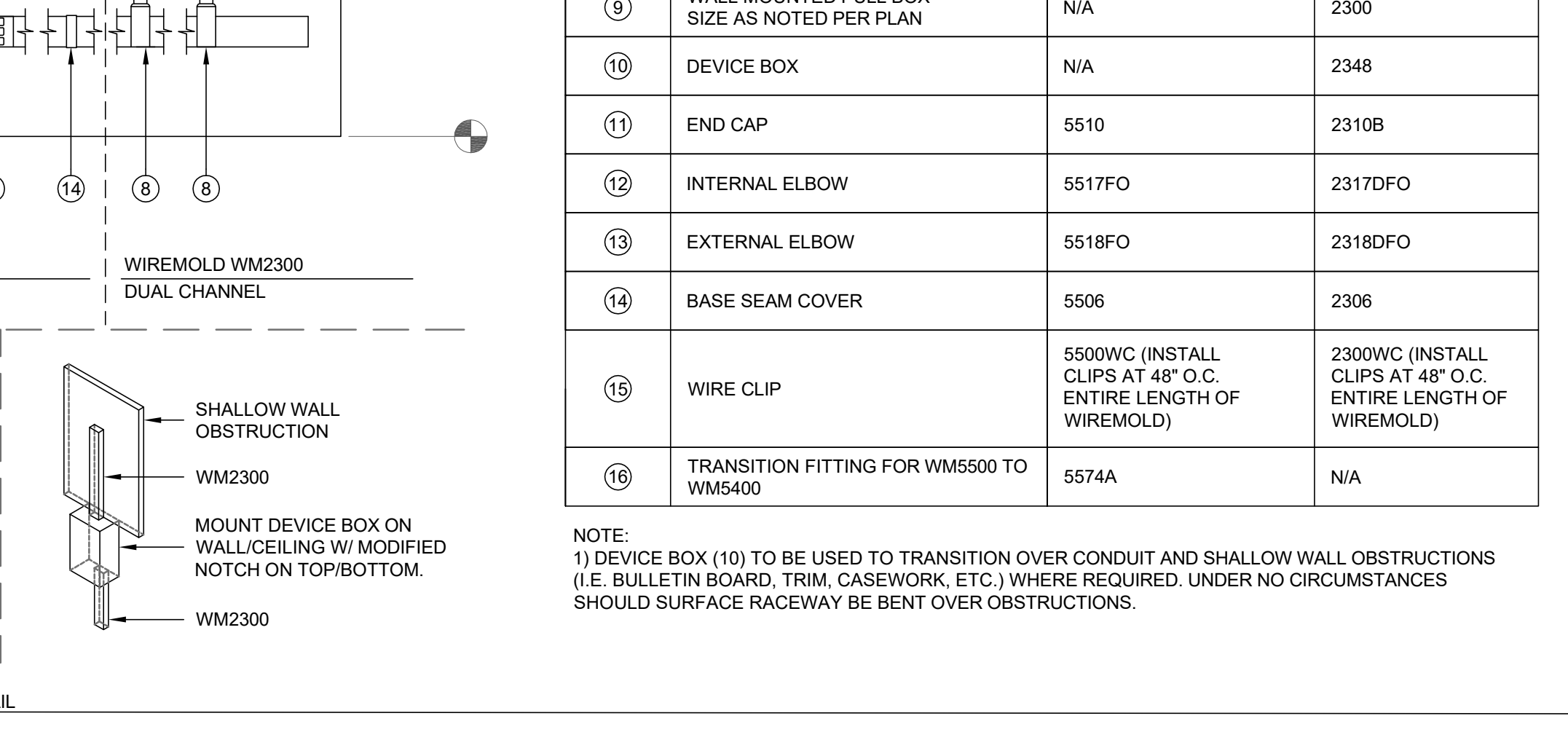
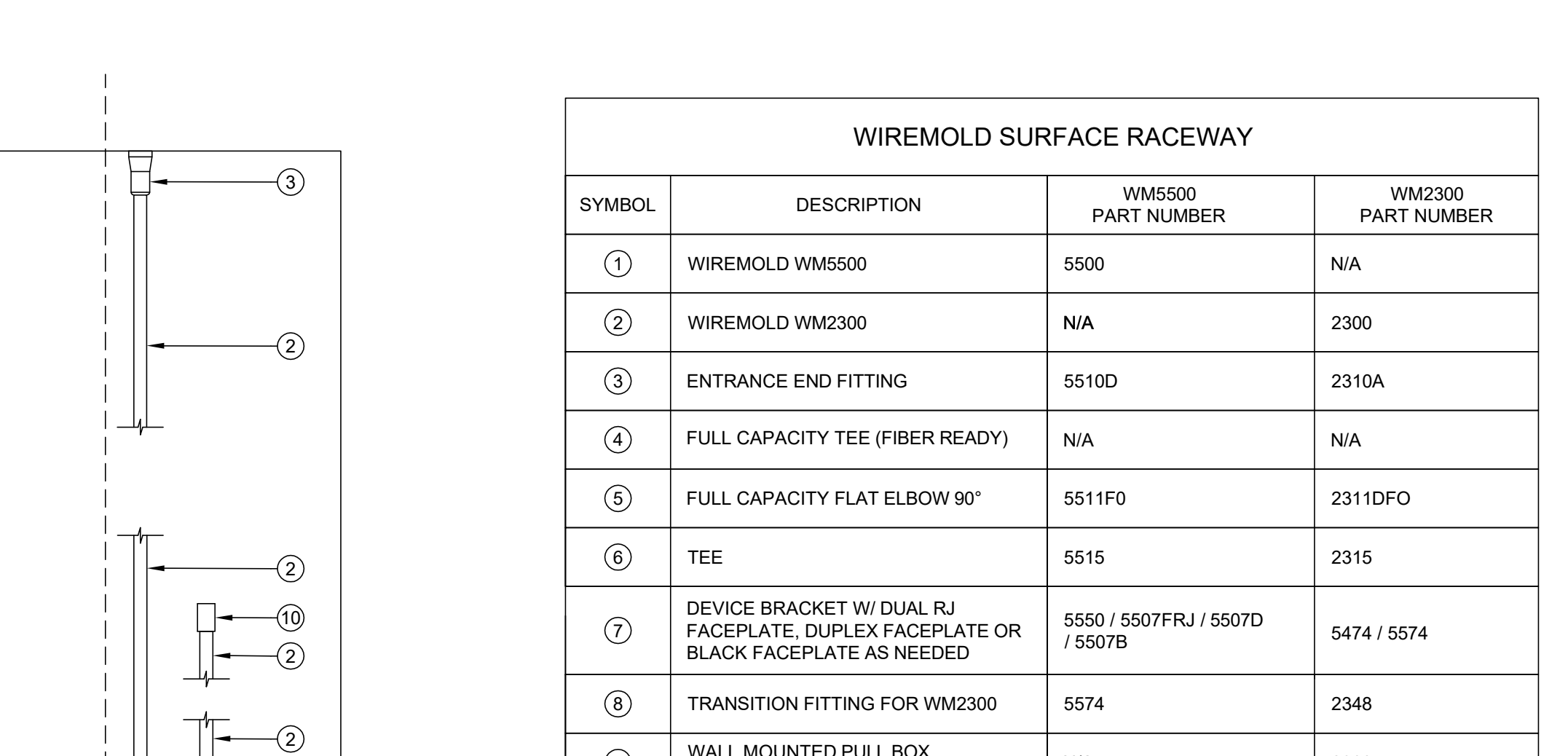
1. TOTAL ASSEMBLY WEIGHT UNDER 20 LBS.



1. TOTAL ASSEMBLY WEIGHT UNDER 20 LBS.



1. TOTAL ASSEMBLY WEIGHT UNDER 20 LBS.



WIREMOLD SURFACE RACEWAY			
SYMBOL	DESCRIPTION	WM5500 PART NUMBER	WM2300 PART NUMBER
①	WIREMOLD WM5500	5500	N/A
②	WIREMOLD WM2300	N/A	2300
③	ENTRANCE END FITTING	5510D	2310A
④	FULL CAPACITY TEE (FIBER READY)	N/A	N/A
⑤	FULL CAPACITY FLAT ELBOW 90°	5511FO	2311DFO
⑥	TEE	5515	2315
⑦	DEVICE BRACKET W/ DUAL RJ FACEPLATE, DUPLEX FACEPLATE OR BLACK FACEPLATE AS NEEDED	5550 / 5507FRJ / 5507D / 5507B	5474 / 5574
⑧	TRANSITION FITTING FOR WM2300	5574	2348
⑨	WALL MOUNTED PULL BOX SIZE AS NOTED PER PLAN	N/A	2300
⑩	DEVICE BOX	N/A	2348
⑪	END CAP	5510	2310B
⑫	INTERNAL ELBOW	5517FO	2317DFO
⑬	EXTERNAL ELBOW	5518FO	2318DFO
⑭	BASE SEAM COVER	5506	2306
⑮	WIRE CLIP	5500WC (INSTALL CLIPS AT 48" O.C. ENTIRE LENGTH OF WIREMOLD)	2300WC (INSTALL CLIPS AT 48" O.C. ENTIRE LENGTH OF WIREMOLD)
⑯	TRANSITION FITTING FOR WM5500 TO WM5400	5574A	N/A

NOTE:
1) DEVICE BOX (10) TO BE USED TO TRANSITION OVER CONDUIT AND SHALLOW WALL OBSTRUCTIONS (I.E. BULLETIN BOARD, TRIM, CASEWORK, ETC.) WHERE REQUIRED. UNDER NO CIRCUMSTANCES SHOULD SURFACE RACEWAY BE BENT OVER OBSTRUCTIONS.



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IF DRAWING IS NOT 30\"/>

SHEET REVISIONS		
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
DETAILS**

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	

SHEET
T800

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

2300 ENTRANCE END FITTING

2300 ENTRANCE END FITTING

CAMERA DOME

FREE AIR CABLE IN ABOVE CEILING SPACE

CEILING

2300 WIREMOLD, COLOR = WHITE

INSIDE WALL, AS OCCURS.

5

CCTV CAMERA WALL MOUNTING - INTERIOR

SCALE = NONE

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

Attach the sunshade to the upper side of the camera and fix it on the sunshade mount bracket with the screws on the left and right of the sunshade using the bit (accessory). Recommended tightening torque: 0.78 N·m (0.58 lbf·ft)

Sunshade

Camera

Sunshade mount bracket (accessory)

Screws on the left and right of the sunshade

4

CCTV CAMERA SUN SHADE MOUNTING DETAIL

SCALE = NONE

NOT USED

NOT USED

NOT USED

NOT USED

NOTE: PAINT ALL CONDUIT AND UNISTRUT TO MATCH WALLS.

EXTERIOR CEILING

(N) 1 EA. 3/4" CONDUIT

UNISTRUT P1000T W/ 1/4"x1-1/2" WOOD SCREW, EMBED INTO CEILING FRAMING MEMBER

180° / 360° EXTERIOR RATED, VANDAL RESISTANT PANORAMIC CAMERA W/ IR

EXTERIOR CEILING

(N) 1 EA. 3/4" CONDUIT

UNISTRUT P1000T W/ 1/4"x1-1/2" WOOD SCREW, EMBED INTO CEILING FRAMING MEMBER

EXTERIOR RATED, VANDAL RESISTANT DOME CAMERA W/ IR

6

CCTV EXTERIOR CEILING TO EXTERIOR HORIZONTAL BACKBONE DETAIL

SCALE = NONE

GROMMET.

FREE AIR CABLE ABOVE T-BAR.

411 BACKBOX.

T-BAR TILE BRIDGE.

T-BAR TILE.

2 GANG MUD-RING.

CCTV CAMERA.

3

CCTV CAMERA T-BAR SUPPORT DETAIL

SCALE = NONE

NOT USED

NOT USED

NOT USED

NOT USED

EXISTING BUILDING FRAMING SHOWN FOR REFERENCE ONLY

EXTERIOR LIGHT AS OCCURS PER LOCATION

CAULK AND SEAL FOR WATER TIGHT CONNECTION.

BACK BOX AND CONDUIT.

4'-0" MAX. SPACING

J-HOOK(S)

CEILING

SUSPENDED CEILING TILE

FINISHED FLOOR.

2

CCTV EXTERIOR WALL MOUNTING DETAIL

SCALE = NONE

NOT USED

NOT USED

NOT USED

NOT USED

EXTERIOR CORNER WALL, AS OCCURS.

CAMERA, MOUNTING ARM AND CORNER MOUNT, AS PER PLAN. INSTALL AS PER MFG'S INSTRUCTIONS.

HEIGHT AS PER PLAN

3/4" FLEX CONDUIT, WEATHER SEAL ALL OPENINGS.

FINISHED FLOOR

SURFACE-MOUNTED SINGLE GANG BOX WITH 5 3/4" OUTLETS AND BLANK SINGLE GANG COVER PLATE. WEATHER SEAL ALL OPENINGS.

WEATHERPROOF CONNECTION.

CAMERA MOUNTING SIDE VIEW

NOTE: TOTAL ASSEMBLY WEIGHT = 18.8 LBS.

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MULTI-SENSOR CAMERA EXTERIOR CORNER WALL MOUNTING DETAIL

SCALE = NONE



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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Office: (916) 359-4000 www.kmm-services.com

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DISTRIBUTION DESIGNER

RONNY KAGSROM
Signature
EXPIRES 12/31/2027
Regis. No. 163629

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SHEET REVISIONS		
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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

CCTV
DETAILS

DRAWING STATUS

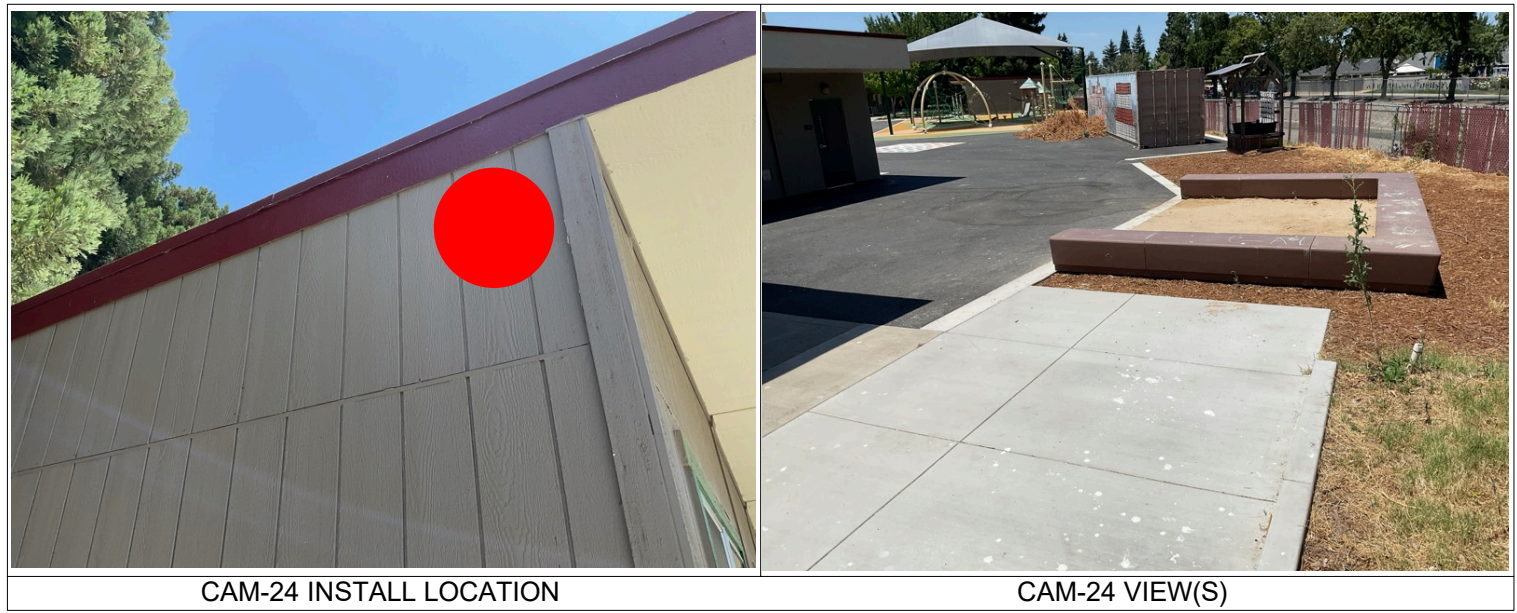
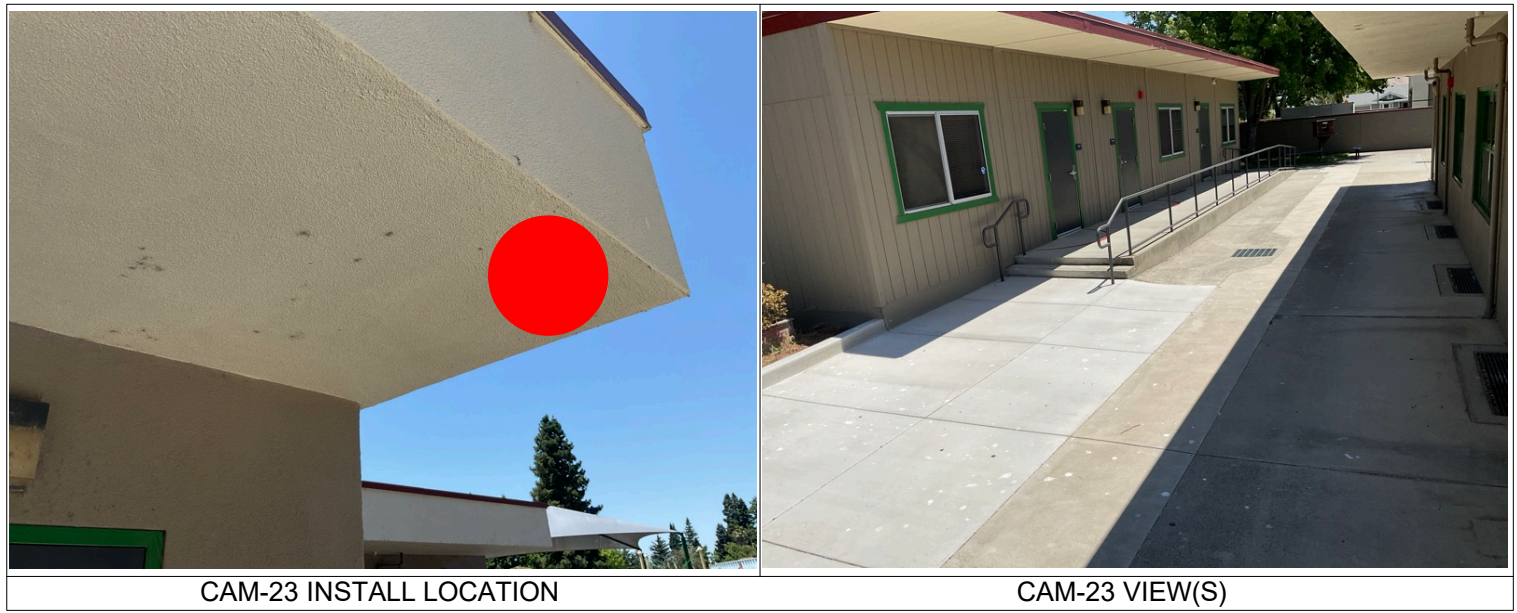
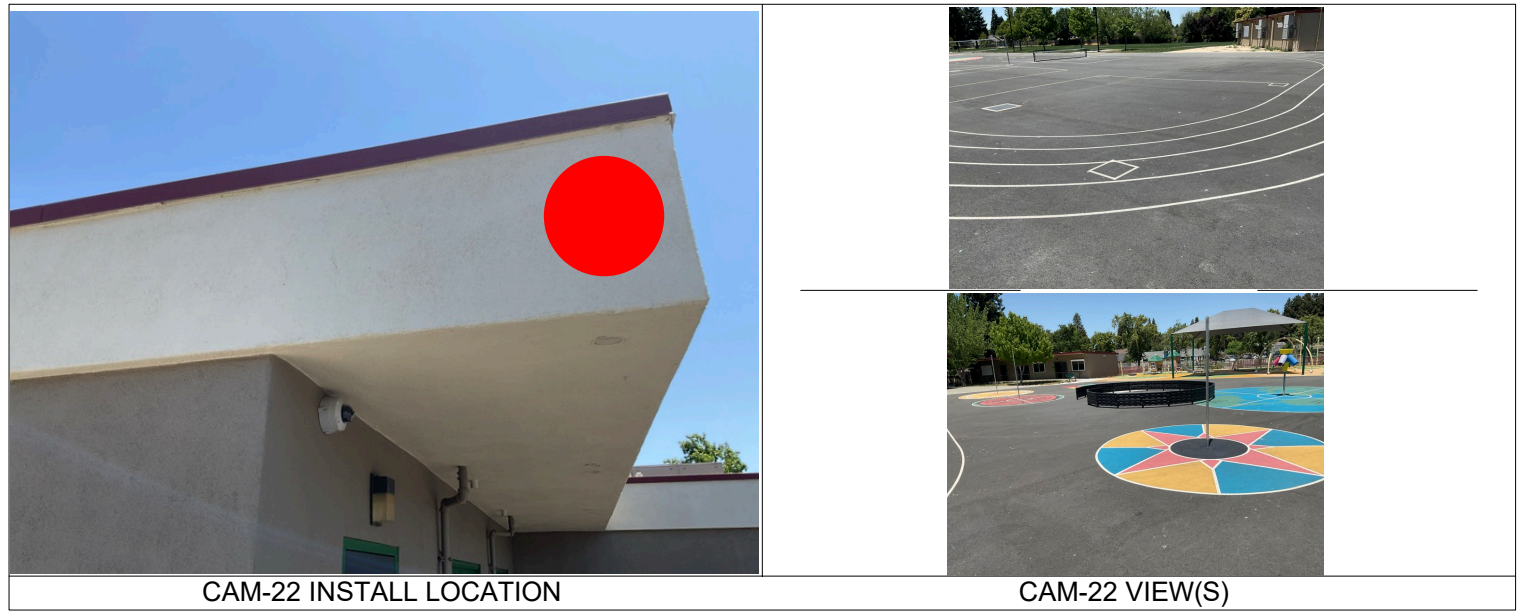
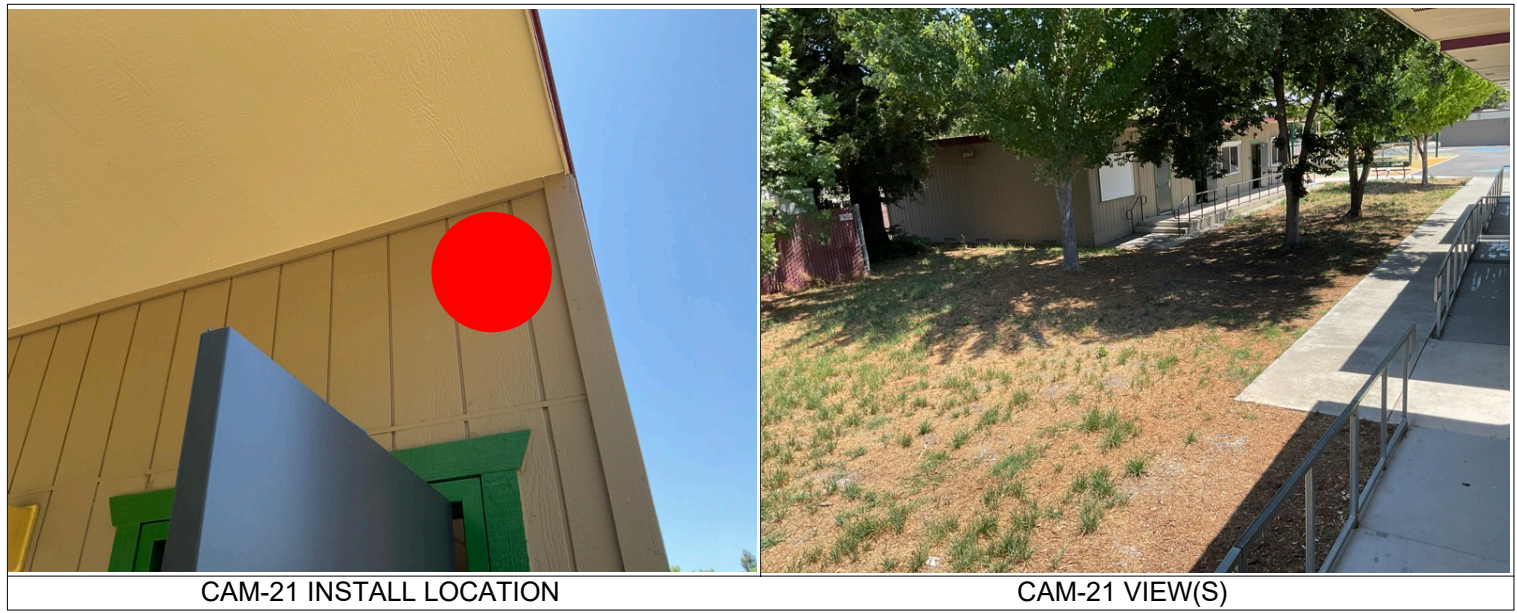
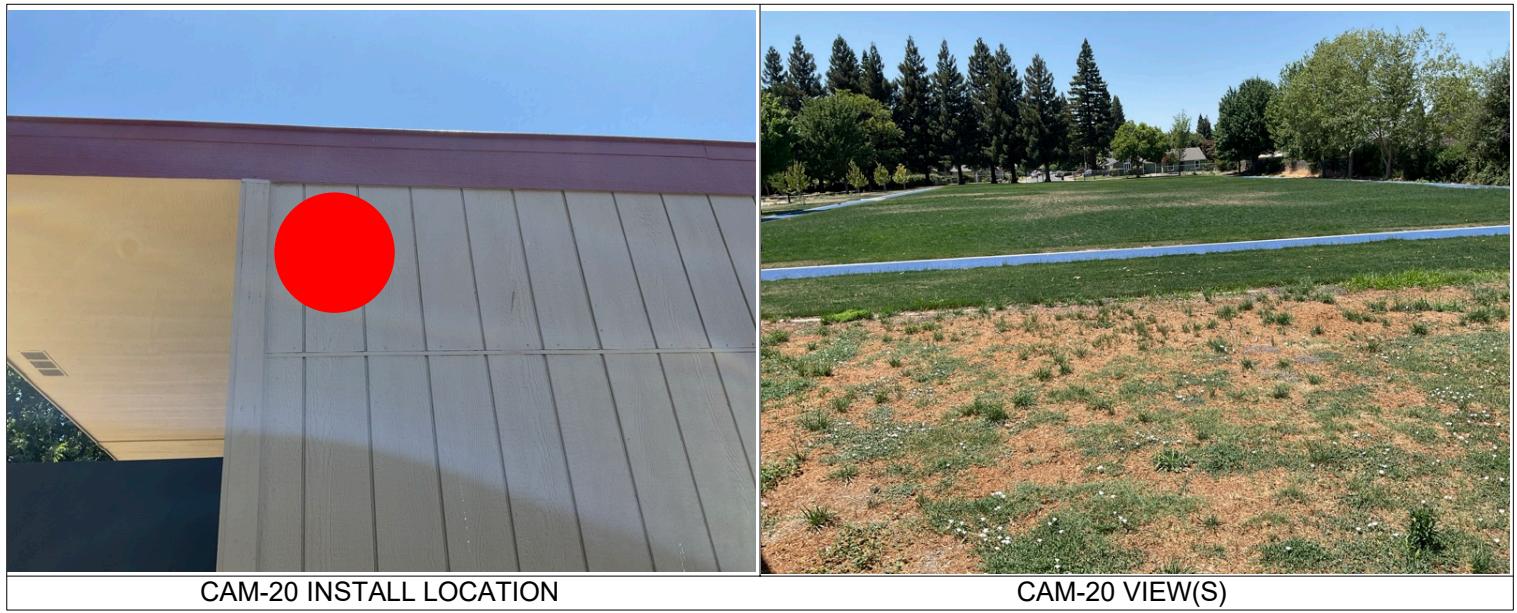
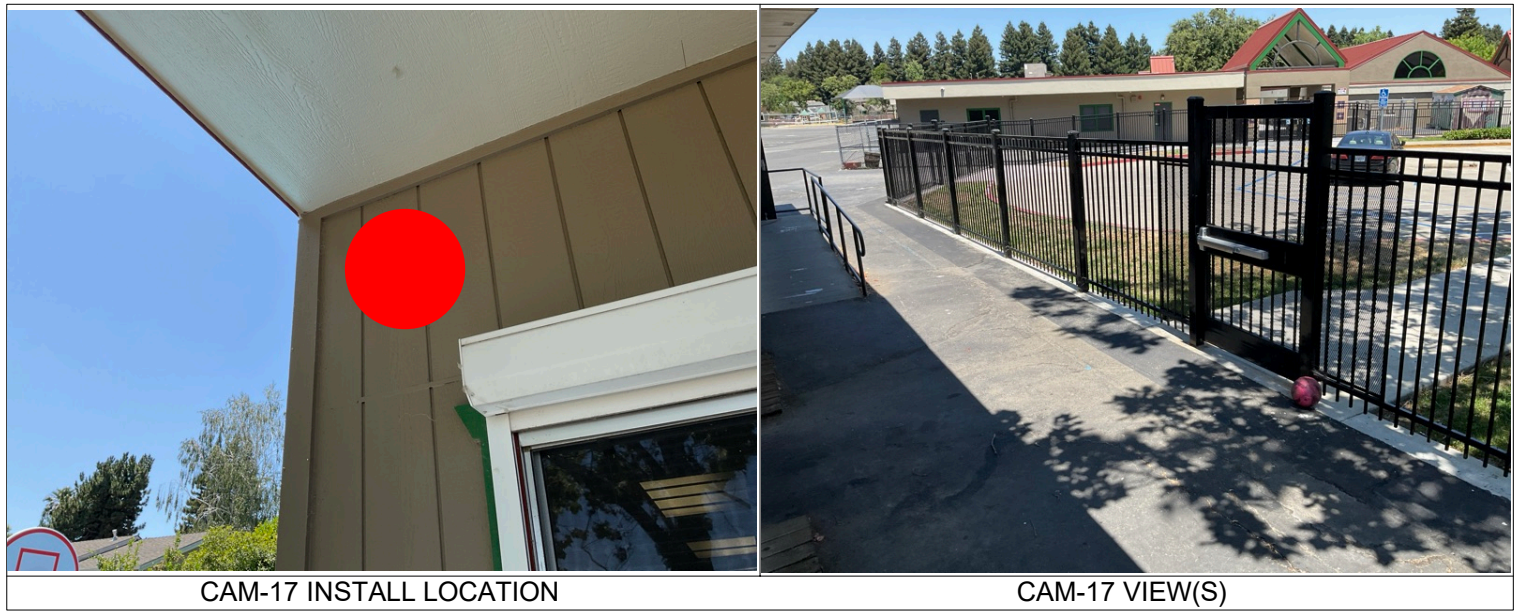
CONSTRUCTION DOCUMENTS

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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SHEET TITLE
CCTV PICTURES

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REVISION
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