	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
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CL	CENTER LINE
CO	CARBON MONOXIDE
DN	DOWN
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EOL FA FACP FTC GRC G OR GE	
IACP	INTRUSION ALARM CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
J OR JB	JUNCTION BOX
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MDF	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
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OSP	OUTSIDE PLANT
PVC	POLYVINYL CHLORIDE
RCDD	REGISTERED COMMUNICATION DISTRIBUTION DESIGNER
RCWY	RACEWAY
RM	ROOM
SR	SURFACE RACEWAY
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRIGHTERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATT
WP	WEATHERPROOF

	TECHNOLC	OGY SYMBOL LE	-	ONFIGURED (UNO)
SYMBOL	DESCRIPTION	MANUFACTURER	PART NUMBER	NOTES / DETAIL REFERENCES
	(N) SURFACE MOUNTED CONDUIT	GRC	GENERIC	GREY = EXISTING
	(E) UNDERGROUND CONDUIT	N/A	N/A	N/A
	(N) HIGH CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	5500 SERIES	GREY = EXISTING
2300	(N) MEDIUM CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	2300 SERIES	GREY = EXISTING
_JJ	(N) J-HOOK PATHWAY	COMMERCIAL GENERIC	N/A	GREY = EXISTING
MDF / IDF	(E) DATA RACK	DAMAC	SEE SHEET T400	GREY = EXISTING
G	(E) GROUND BOX	N/A	N/A	N/A
J	(E) JUNCTION BOX	N/A	N/A	N/A
/ J	(E) SURFACE MOUNTED 4-SQUARE JUNCTION BOX, WALL / CEILING	N/A	N/A	N/A
	(E) INTERCOM SPEAKER/CLOCK COMBO	N/A	N/A	16" = 16" CLOCK
	(E) INTERIOR INTERCOM SPEAKER	N/A	N/A	N/A
	(E) EXTERIOR INTERCOM SPEAKER	N/A	N/A	N/A
	(E) FLUSH MOUNTED CLOCK	N/A	N/A	N/A
	(N) CAT6A DATA DROP LOCATION - IP CLOCK	LOWELL & SAPLING	SEE SHEET T400	16" = 16" CLOCK
	(N) CAT6A DATA DROP LOCATION (QTY = 2) -IP CLOCK/SPEAKER/IP MODULE COMBO BOX	LOWELL, SAPLING, RAULAND & TCU	SEE SHEET T400	N/A
	(N) CAT6A DATA DROP LOCATION - WALL MOUNTED SPEAKER/IP MODULE	RAULAND & TELECENTER U	SEE SHEET T400	N/A
	(N) CAT6A DATA DROP LOCATION - DROP CEILING INTERCOM SPKR/IP MOD	RAULAND & TELECENTER U	SEE SHEET T400	N/A
	(N) CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	LOWELL, RAULAND & TELECENTER U	SEE SHEET T400	N/A
4G	(N) SURFACE MOUNTED 4 GANG BACKBOX - WHITE	FSR	SEE SHEET T400	N/A
DIG	(N) SURFACE MOUNTED DIGITAL CLOCK	SAPLING	SBP-31S-254-OW	N/A
TEL	(N) ADMIN. CONSOLE PHONE	RAULAND	SEE SHEET T400	N/A

CONTRACTOR FURNISHED DOCUMENTS: PROJECT CODES AND STANDARDS: (SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS) PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023: ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1 STARTED UNTIL THE FOLLOWING: 2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 1.1. CONTRACTOR FURNISHED SHOP DRAWINGS ARE RECEIVED AND INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 APPROVED BY THE DESIGNER. 1.2. PRODUCT SUBMITTAL DOCUMENTS ARE RECEIVED AND NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS) 2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 APPROVED BY THE DESIGNER. UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS) 1.3. APPLICABLE QUALIFICATION DOCUMENTATION ARE RECEIVED 2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 AND APPROVED BY THE DESIGNER. 2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDER INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS) 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, REQUESTS ARE TO BE ADDRESSED AT TIME OF SHOP DRAWING PART 11 CREATION. CHANGE ORDERS AFTER APPROVED SHOP DRAWINGS 2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. 2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL ALTERNATIVE PRODUCTS ARE TO SUBMITTED WITH A FORMAL FIRE PROTECTION ASSOCIATION 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 ANCHORAGE AND BRACING NOTES: DIAGRAMMATIC. INFORMATION PRESENTED IN DESIGN DRAWINGS APPLICABLE CODE: 2019 CBC REVISED: 02/14/2020 ARE AS ACCURATE AS POSSIBLE, BUT ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION, OF ALL DIMENSIONS, MEP COMPONENT ANCHORAGE NOTE ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED. 5. DRAWINGS AND SPECIFICATIONS ARE PROVIDED TO SHOW THE ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE INTENT OF THE DESIGN TO ASSIST THE CONTRACTOR IN SUBMITTING ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED AN ACCURATE BID. CONTRACTOR IS DIRECTED TO MAKE FIELD CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE SURVEYS AS PART OF THEIR WORK PRIOR TO SUBMITTING SYSTEM ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 THRU 30: MAKE ALLOWANCE IN THE PROPOSAL TO COMPLY WITH THE INTENT OF THE DESIGN. . ALL PERMANENT EQUIPMENT AND COMPONENTS. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY . TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. DESIGNER OR OWNER PRIOR TO BID. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND FULLY FUNCTIONING SYSTEM. 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 **TECHNOLOGY GENERAL PROJECT NOTES:** POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS . UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, THE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST OF THE PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT ENTIRE SYSTEMS IN THE PRESENCE OF THE ARCHITECT/DESIGNER, IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: INSPECTOR, AND THE OWNER. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A A STAMPED SET OF APPROVED SYSTEM DESIGN DOCUMENTS, AND CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT CONTRACTOR FURNISHED SHOP DRAWINGS SHALL BE ON THE JOB FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE SITE AND USED FOR INSTALLATION. THE CONTRACTOR SHALL COMPONENTS. INCORPORATE ANY AND ALL REDLINES TO DRAWINGS SETS AS 3. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE REQUIRED. ANY DEVIATION FROM APPROVED DESIGN DOCUMENTS, OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM BY THE ARCHITECT/DESIGNER AND THE OWNER PRIOR TO A WALL. INSTALLATION. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING 3. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL OF THE ARCHITECT/DESIGNER PRIOR TO INSTALLATION. ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND 4. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE OPENING PROTECTION SHALL BE PROVIDED WITH THROUGH REQUIREMENTS. PENETRATION FIRST STOP SYSTEMS WITH A "T" RATING EQUAL TO THE ASSEMBLY PENETRATED, SEE DETAILS ON SHEET T801 FOR PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION MORE INFORMATION. SYSTEM BRACING NOTE: 5. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH DEVICE. DO PIPING, DUCTWORK, AND ELECTRICAL SYSTEMS SHALL BE BRACED TO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE FROM THE BOX TO THE DEVICE. 7-16 SECTIONS 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND ALL CLOCK, BELL AND INTERCOM CIRCUITS SHALL BE IN CONDUIT. 1617A.1.26 SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE INDICATED ON DESIGN DOCUMENTS. EXPOSED CABLES ARE ONLY STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE A NOTED PERMITTED IF INDICATED ON DESIGN DOCUMENTS AS "EXPOSED". BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LOW VOLTAGE PANELS, REMOTES, AND COMPONENTS SHALL BE LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR SECURED TO MOUNTING SURFACES PER MANUFACTURER'S MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION FOR 20 lbs., WITHOUT SPECIAL MOUNTING DETAILS. SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE 8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/DESIGNER AT A LOADS. MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO FINAL INSPECTION FOR FINAL PUNCH ALL ITEMS ON PUNCH LIST MUST BE COMPLETE MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPES FOR JOB TO FINAL. (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE MP 🛛 MD 🗆 PP 🗆 E 💢 🔹 OPTION 1: DETAILED ON THE APPROVED ALL PROJECT AS-BUILT DRAWINGS AND MANUALS PER DRAWINGS WITH PROJECT SPECIFIC NOTES AND SPECIFICATIONS. DETAILS. MP | MD | PP | E | OPTION 2: SHALL COMPLY WITH THE APPLICABLE 10. THE CONTRACTOR SHALL ALSO PROVIDE A TYPED RECORD OF OSHPD PRE-APPROVED (OPM #) 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. SHEET INDEX: SHEET DESCRIPTION

SCOPE OF WORK:

1. THE CONTRACTOR SHALL PROVIDE ALL CLOCK, BELL AND INTERCOM EQUIPMENT, LICENSES, SOFTWARE AND ACCESSORIES FOR COMPLETE AND FULLY OPERATIONAL SYSTEMS.

2. THE CONTRACTOR SHALL PROVIDE ALL DATA NETWORK EQUIPMENT, LICENSES, SOFTWARE AND ACCESSORIES FOR COMPLETE AND FULLY OPERATIONAL DATA NETWORK SYSTEM.

3. THE CONTRACTOR SHALL REMOVE OLD OR ABANDONED CLOCK, BELL AND INTERCOM COMPONENTS (INCLUDING WIRE AND PATHWAY) AND PLATE OVER ANY OPENINGS.

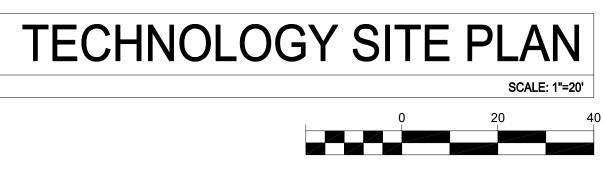
4. THE CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR NEW LOCATIONS FOR INSTALL OR AREAS OF DEMOLITION.

TECHNOLOGY COVER SHEET T000 T100 TECHNOLOGY SITE PLAN T101 **TECHNOLOGY SITE PLAN - EXTERIOR INTERCOM** SPEAKERS T200 TECHNOLOGY FLOOR PLANS - MDF T201 **TECHNOLOGY FLOOR PLANS - IDF 1.01** T202 TECHNOLOGY FLOOR PLANS - IDF 1.02 T203 TECHNOLOGY FLOOR PLANS - IDF 1.03 T400 TECHNOLOGY DATA RACK ELEVATIONS AND INTERCOM AND CLOCK SINGLE LINES T800 TECHNOLOGY DETAILS T801 **TECHNOLOGY DETAILS**

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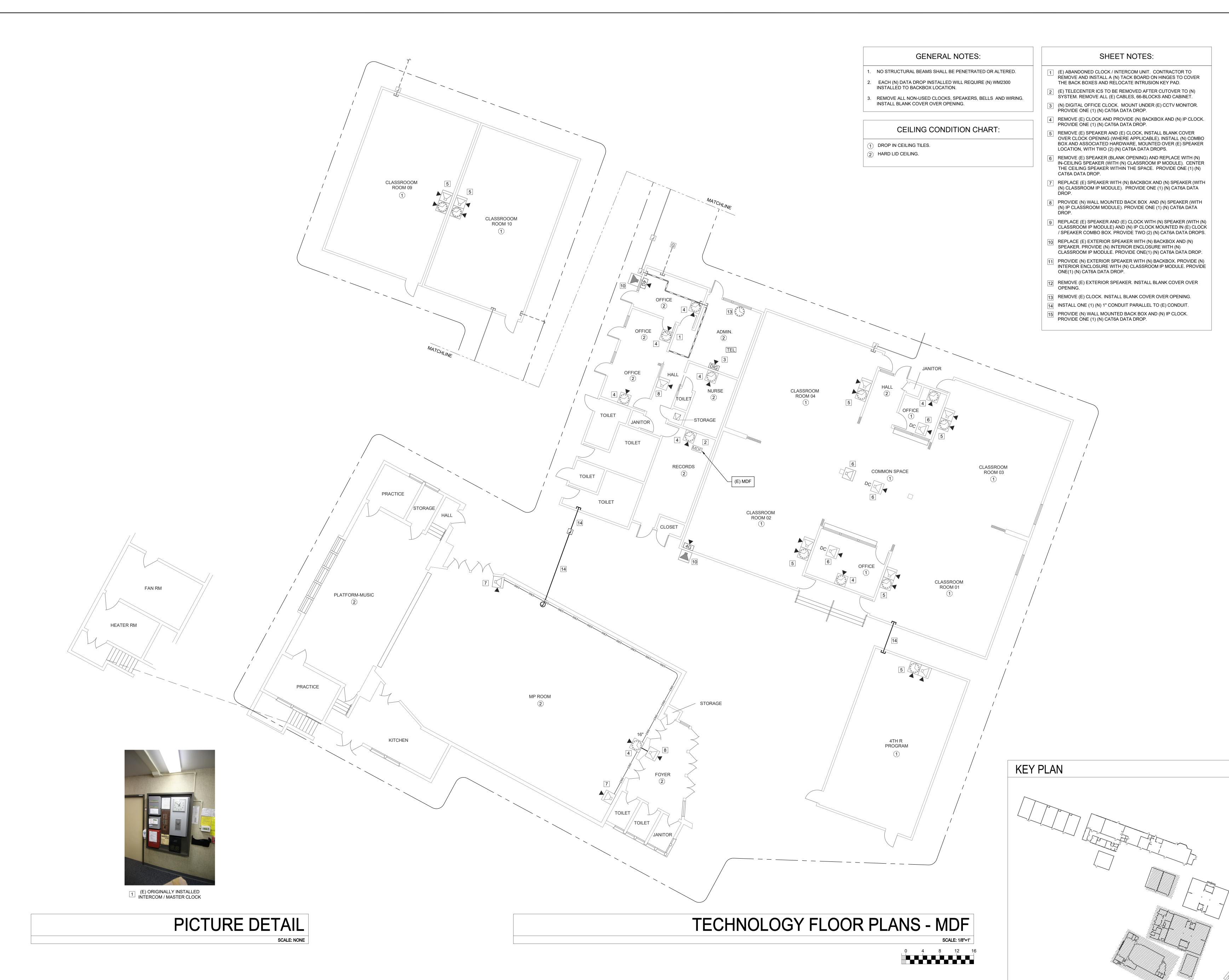


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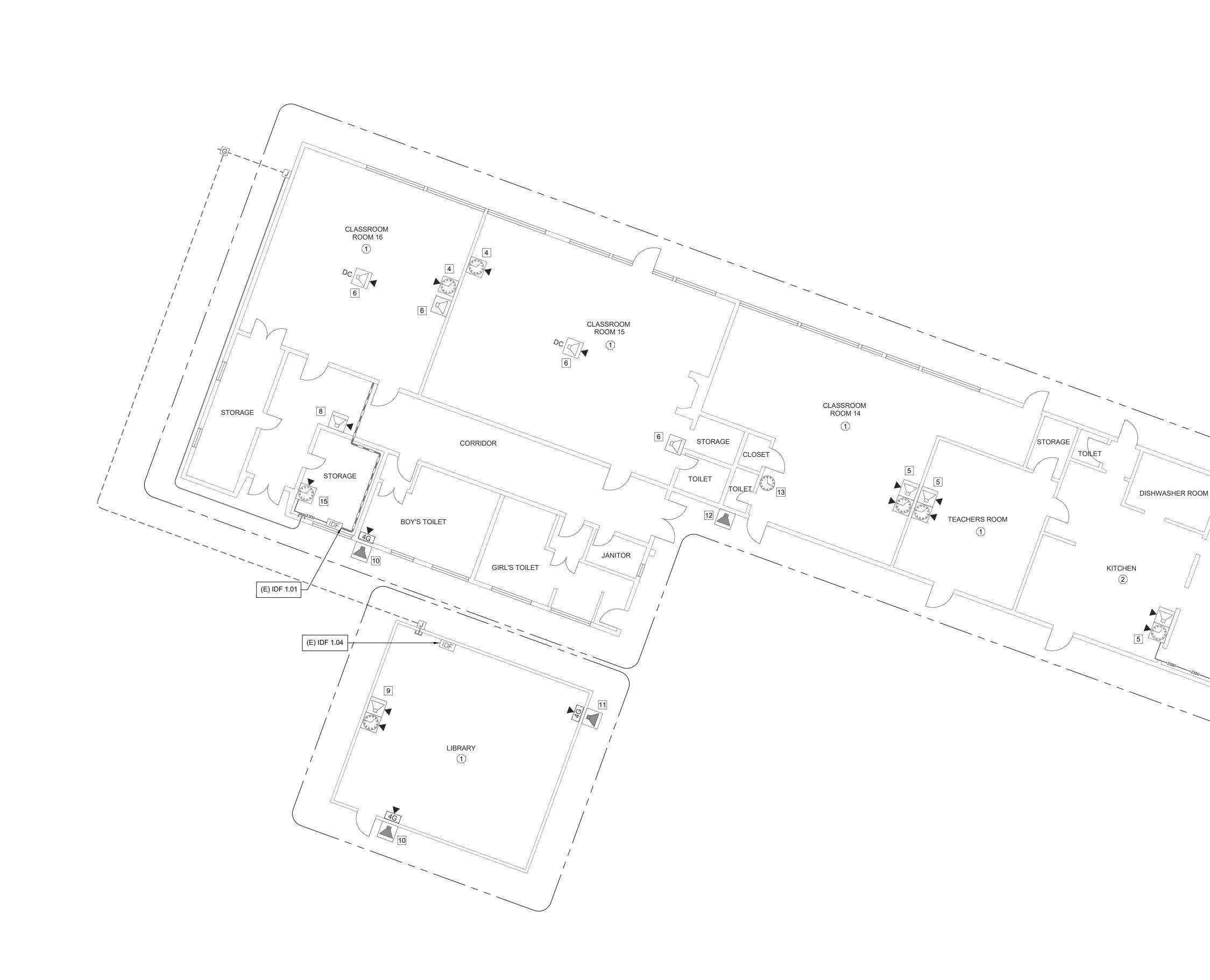


SHEET FOR REFERENCE ONLY **TECHNOLOGY SITE PLAN - EXTERIOR INTERCOM SPEAKERS** SCALE: 1"=20'

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GENERAL	NOTES

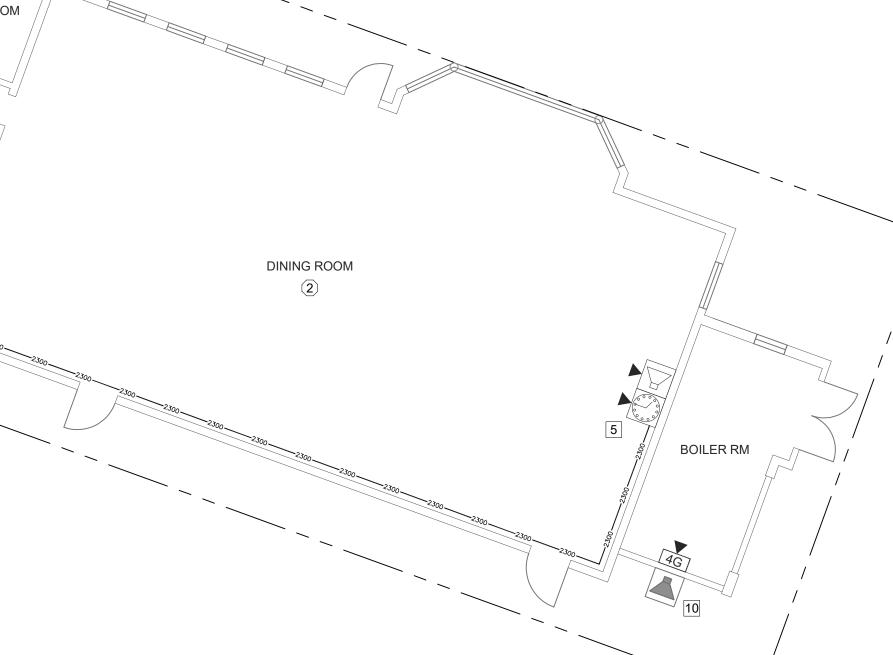
- 1. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED. EACH (N) DATA DROP INSTALLED WILL REQUIRE (N) WM2300
- INSTALLED TO BACKBOX LOCATION.
- 3. REMOVE ALL NON-USED CLOCKS, SPEAKERS, BELLS AND WIRING. INSTALL BLANK COVER OVER OPENING.

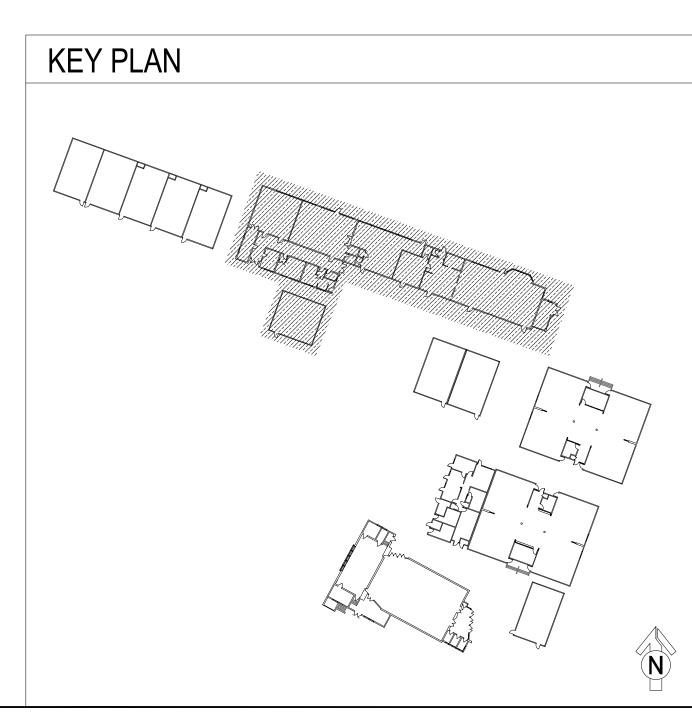
SHEET NOTES:

(E) ABANDONED CLOCK / INTERCOM UNIT. CONTRACTOR TO REMOVE AND INSTALL A (N) TACK BOARD ON HINGES TO COVER THE BACK BOXES AND RELOCATE INTRUSION KEY PAD. 2 (E) TELECENTER ICS TO BE REMOVED AFTER CUTOVER TO (N) SYSTEM. REMOVE ALL (E) CABLES, 66-BLOCKS AND CABINET. (N) DIGITAL OFFICE CLOCK. MOUNT UNDER (E) CCTV MONITOR. PROVIDE ONE (1) (N) CAT6A DATA DROP. [4] REMOVE (E) CLOCK AND PROVIDE (N) BACKBOX AND (N) IP CLOCK. PROVIDE ONE (1) (N) CAT6A DATA DROP. 5 REMOVE (E) SPEAKER AND (E) CLOCK, INSTALL BLANK COVER OVER CLOCK OPENING (WHERE APPLICABLE). INSTALL (N) COMBO BOX AND ASSOCIATED HARDWARE, MOUNTED OVER (E) SPEAKER LOCATION, WITH TWO (2) (N) CAT6A DATA DROPS. 6 REMOVE (E) SPEAKER (BLANK OPENING) AND REPLACE WITH (N) IN-CEILING SPEAKER (WITH (N) CLASSROOM IP MODULE). CENTER THE CEILING SPEAKER WITHIN THE SPACE. PROVIDE ONE (1) (N) CAT6A DATA DROP. 7 REPLACE (E) SPEAKER WITH (N) BACKBOX AND (N) SPEAKER (WITH (N) CLASSROOM IP MODULE). PROVIDE ONE (1) (N) CAT6A DATA DROP. 8 PROVIDE (N) WALL MOUNTED BACK BOX AND (N) SPEAKER (WITH (N) IP CLASSROOM MODULE). PROVIDE ONE (1) (N) CAT6A DATA DROP. 9 REPLACE (E) SPEAKER AND (E) CLOCK WITH (N) SPEAKER (WITH (N) CLASSROOM IP MODULE) AND (N) IP CLOCK MOUNTED IN (E) CLOCK / SPEAKER COMBO BOX. PROVIDE TWO (2) (N) CAT6A DATA DROPS. 10 REPLACE (E) EXTERIOR SPEAKER WITH (N) BACKBOX AND (N) SPEAKER. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE ONE(1) (N) CAT6A DATA DROP. PROVIDE (N) EXTERIOR SPEAKER WITH (N) BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE ONE(1) (N) CAT6A DATA DROP. 12 REMOVE (E) EXTERIOR SPEAKER. INSTALL BLANK COVER OVER OPENING. [13] REMOVE (E) CLOCK. INSTALL BLANK COVER OVER OPENING. 14 INSTALL ONE (1) (N) 1" CONDUIT PARALLEL TO (E) CONDUIT. 15 PROVIDE (N) WALL MOUNTED BACK BOX AND (N) IP CLOCK. PROVIDE ONE (1) (N) CAT6A DATA DROP.

CEILING CONDITION CHART:

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

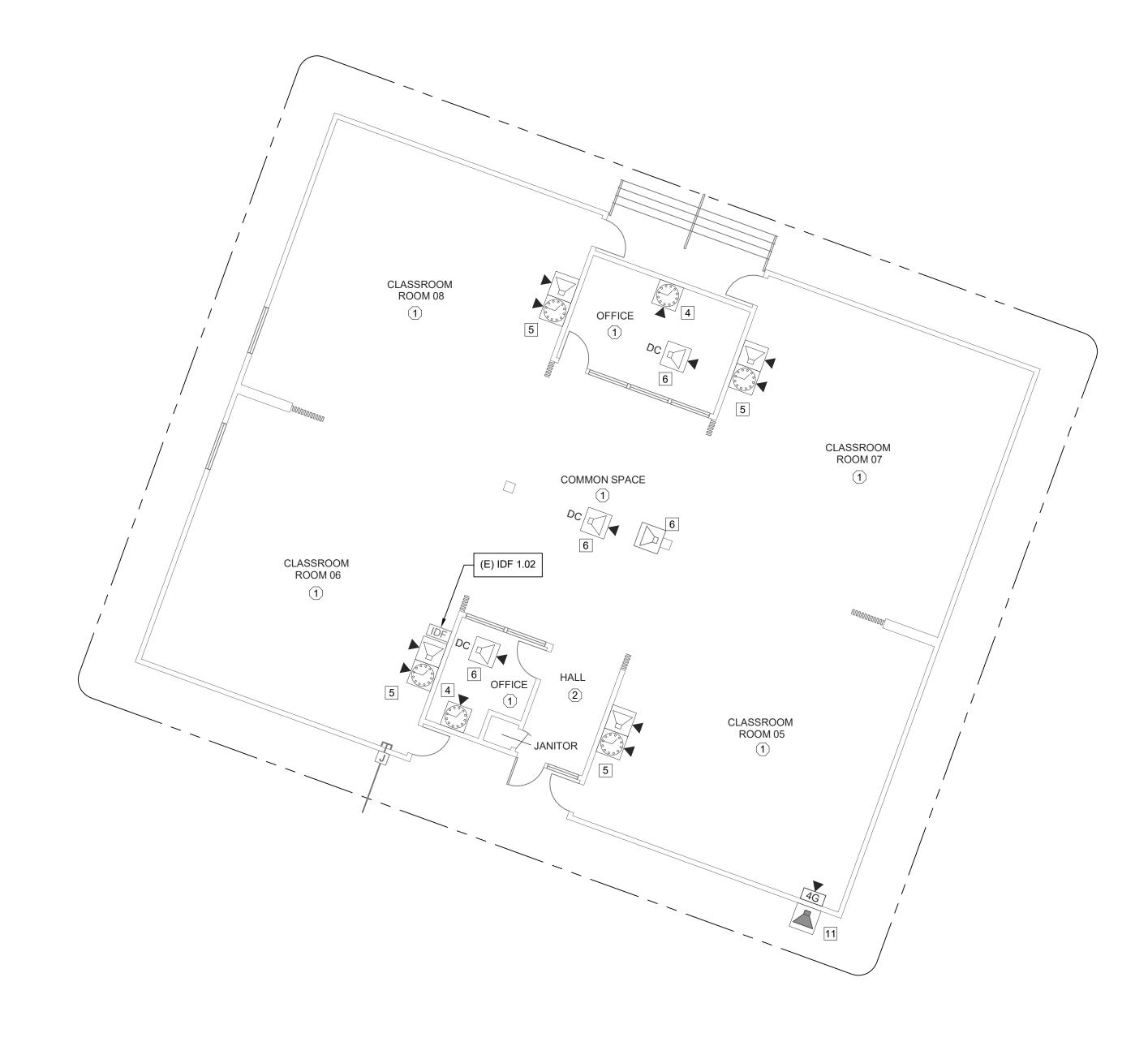




SCALE: 1/8"=1'

0 4 8 12 16

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GENERAL	NOTES

- 1. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED. 2. EACH (N) DATA DROP INSTALLED WILL REQUIRE (N) WM2300 INSTALLED TO BACKBOX LOCATION.
- 3. REMOVE ALL NON-USED CLOCKS, SPEAKERS, BELLS AND WIRING. INSTALL BLANK COVER OVER OPENING.

SHEET NOTES:

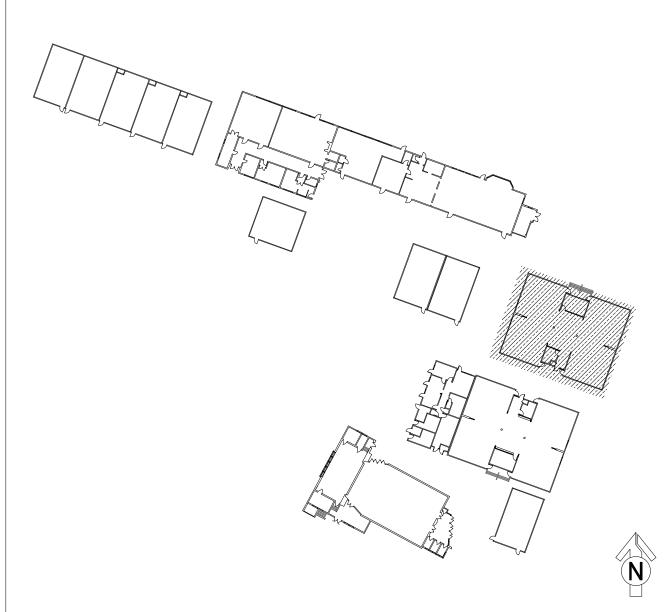
1	(E) ABANDONED CLOCK / INTERCOM UNIT. CONTRACTOR TO REMOVE AND INSTALL A (N) TACK BOARD ON HINGES TO COVER THE BACK BOXES AND RELOCATE INTRUSION KEY PAD.
2	(E) TELECENTER ICS TO BE REMOVED AFTER CUTOVER TO (N) SYSTEM. REMOVE ALL (E) CABLES, 66-BLOCKS AND CABINET.
3	(N) DIGITAL OFFICE CLOCK. MOUNT UNDER (E) CCTV MONITOR. PROVIDE ONE (1) (N) CAT6A DATA DROP.
4	REMOVE (E) CLOCK AND PROVIDE (N) BACKBOX AND (N) IP CLOCK. PROVIDE ONE (1) (N) CAT6A DATA DROP.
5	REMOVE (E) SPEAKER AND (E) CLOCK, INSTALL BLANK COVER OVER CLOCK OPENING (WHERE APPLICABLE). INSTALL (N) COMBO BOX AND ASSOCIATED HARDWARE, MOUNTED OVER (E) SPEAKER LOCATION, WITH TWO (2) (N) CAT6A DATA DROPS.
6	REMOVE (E) SPEAKER (BLANK OPENING) AND REPLACE WITH (N) IN-CEILING SPEAKER (WITH (N) CLASSROOM IP MODULE). CENTER THE CEILING SPEAKER WITHIN THE SPACE. PROVIDE ONE (1) (N) CAT6A DATA DROP.
7	REPLACE (E) SPEAKER WITH (N) BACKBOX AND (N) SPEAKER (WITH (N) CLASSROOM IP MODULE). PROVIDE ONE (1) (N) CAT6A DATA DROP.
8	PROVIDE (N) WALL MOUNTED BACK BOX AND (N) SPEAKER (WITH (N) IP CLASSROOM MODULE). PROVIDE ONE (1) (N) CAT6A DATA DROP.
9	REPLACE (E) SPEAKER AND (E) CLOCK WITH (N) SPEAKER (WITH (N) CLASSROOM IP MODULE) AND (N) IP CLOCK MOUNTED IN (E) CLOCK / SPEAKER COMBO BOX. PROVIDE TWO (2) (N) CAT6A DATA DROPS.
10	REPLACE (E) EXTERIOR SPEAKER WITH (N) BACKBOX AND (N) SPEAKER. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE ONE(1) (N) CAT6A DATA DROP.
11	PROVIDE (N) EXTERIOR SPEAKER WITH (N) BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE ONE(1) (N) CAT6A DATA DROP.
12	REMOVE (E) EXTERIOR SPEAKER. INSTALL BLANK COVER OVER OVER OPENING.
13	REMOVE (E) CLOCK. INSTALL BLANK COVER OVER OPENING.
14	INSTALL ONE (1) (N) 1" CONDUIT PARALLEL TO (E) CONDUIT.
15	PROVIDE (N) WALL MOUNTED BACK BOX AND (N) IP CLOCK. PROVIDE ONE (1) (N) CAT6A DATA DROP.

CEILING CONDITION CHART:

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







Services, Inc. KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFETY 5433 El Camino Ave. Suite 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 COMMI. **⇒BiCSi** RONNY KAGST Regis. No.163629 **Copyright © 2023** These drawings and specifications and the ideas, designs and arrangements represented thereby are and shall remain the property of KMM Services, Inc. and no part thereof shall be copied disclosed to others, or used in connection with any other work or project other than the specific project for which they have been prepared and developed without the written consent of KMM Services, Inc. Visual contact with these drawings or specifications shall constitute conclusive evidence of these restrictions. IF DRAWING IS NOT 30"X42" IT IS A REDUCED PRINT SHEET REVISIONS DELTA DESCRIPTION DATE SITE KEY PLAN PROJECT SACRAMENTO CITY USD CROCKER RIVERSIDE **TELE-CENTER** UPGRADE PROJECT 2970 RIVERSIDE BLVD. SACRAMENTO, CA. 95818 SHEET TITLE TECHNOLOGY FLOOR PLAN - IDF 1.02 DRAWING STATUS CONSTRUCTION DOCUMENTS PROJECT NO: 0300-464 TBD BID PACKAGE: DESIGNED BY: RK/CC CHECKED BY: JG ISSUE DATE: 2023-05-09 2023-04-17 WORKING DATE: REVISION T202 SHEET



- 1. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED. EACH (N) DATA DROP INSTALLED WILL REQUIRE (N) WM2300 INSTALLED TO BACKBOX LOCATION.
- 3. REMOVE ALL NON-USED CLOCKS, SPEAKERS, BELLS AND WIRING. INSTALL BLANK COVER OVER OPENING.

SHEET NOTES:

(E) ABANDONED CLOCK / INTERCOM UNIT. CONTRACTOR TO REMOVE AND INSTALL A (N) TACK BOARD ON HINGES TO COVER THE BACK BOXES AND RELOCATE INTRUSION KEY PAD. 2 (E) TELECENTER ICS TO BE REMOVED AFTER CUTOVER TO (N) SYSTEM. REMOVE ALL (E) CABLES, 66-BLOCKS AND CABINET. (N) DIGITAL OFFICE CLOCK. MOUNT UNDER (E) CCTV MONITOR. PROVIDE ONE (1) (N) CAT6A DATA DROP. 4 REMOVE (E) CLOCK AND PROVIDE (N) BACKBOX AND (N) IP CLOCK. PROVIDE ONE (1) (N) CAT6A DATA DROP. 5 REMOVE (E) SPEAKER AND (E) CLOCK, INSTALL BLANK COVER OVER CLOCK OPENING (WHERE APPLICABLE). INSTALL (N) COMBO BOX AND ASSOCIATED HARDWARE, MOUNTED OVER (E) SPEAKER LOCATION, WITH TWO (2) (N) CAT6A DATA DROPS. 6 REMOVE (E) SPEAKER (BLANK OPENING) AND REPLACE WITH (N) IN-CEILING SPEAKER (WITH (N) CLASSROOM IP MODULE). CENTER THE CEILING SPEAKER WITHIN THE SPACE. PROVIDE ONE (1) (N) CAT6A DATA DROP. 7 REPLACE (E) SPEAKER WITH (N) BACKBOX AND (N) SPEAKER (WITH (N) CLASSRÓOM IP MODULE). PROVIDE ONE (1) (N) CAT6A DATA DROP. 8 PROVIDE (N) WALL MOUNTED BACK BOX AND (N) SPEAKER (WITH (N) IP CLASSROOM MODULE). PROVIDE ONE (1) (N) CAT6A DATA DROP. 9 REPLACE (E) SPEAKER AND (E) CLOCK WITH (N) SPEAKER (WITH (N) CLASSROOM IP MODULE) AND (N) IP CLOCK MOUNTED IN (E) CLOCK / SPEAKER COMBO BOX. PROVIDE TWO (2) (N) CAT6A DATA DROPS. 10 REPLACE (E) EXTERIOR SPEAKER WITH (N) BACKBOX AND (N) SPEAKER. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE ONE(1) (N) CAT6A DATA DROP. PROVIDE (N) EXTERIOR SPEAKER WITH (N) BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE ONE(1) (N) CAT6A DATA DROP. 12 REMOVE (E) EXTERIOR SPEAKER. INSTALL BLANK COVER OVER OPENING. [13] REMOVE (E) CLOCK. INSTALL BLANK COVER OVER OPENING. 14 INSTALL ONE (1) (N) 1" CONDUIT PARALLEL TO (E) CONDUIT. 15 PROVIDE (N) WALL MOUNTED BACK BOX AND (N) IP CLOCK. PROVIDE ONE (1) (N) CAT6A DATA DROP.

CEILING CONDITION CHART:

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

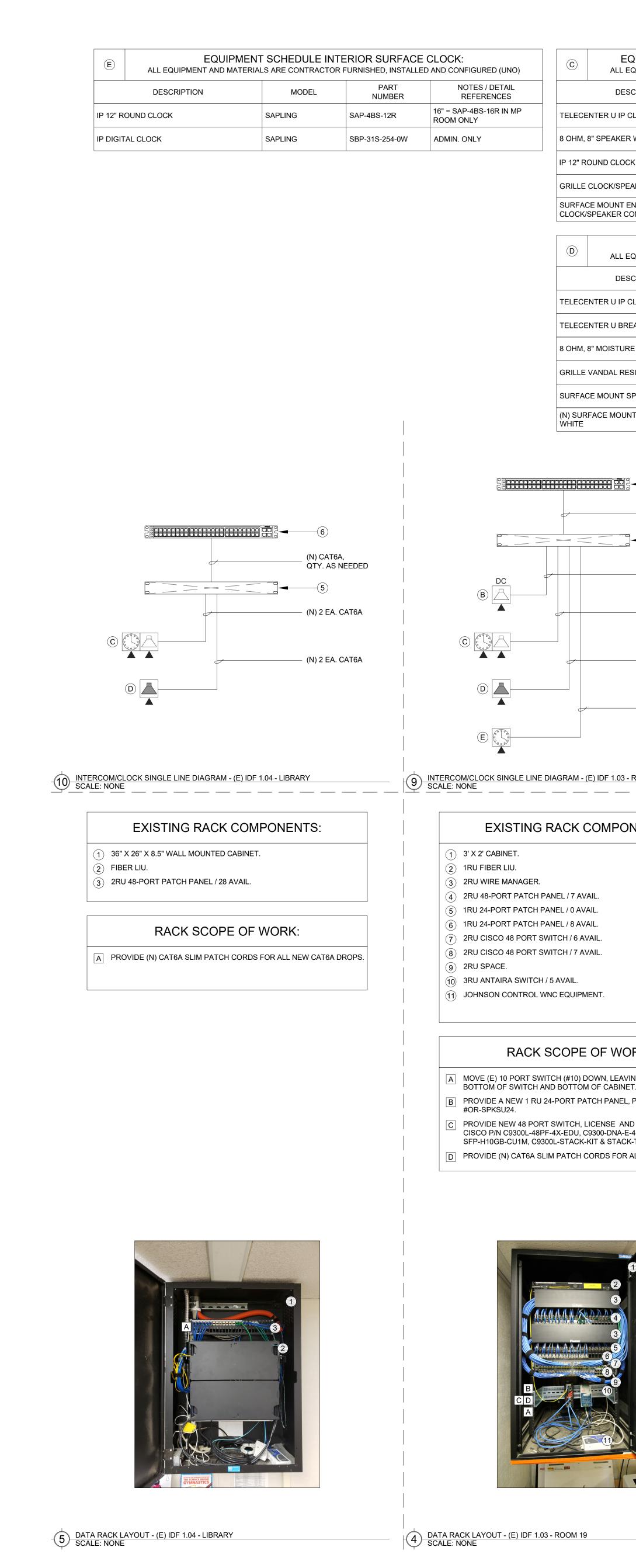
KEY PLAN

SCALE: 1/8"=1'

151

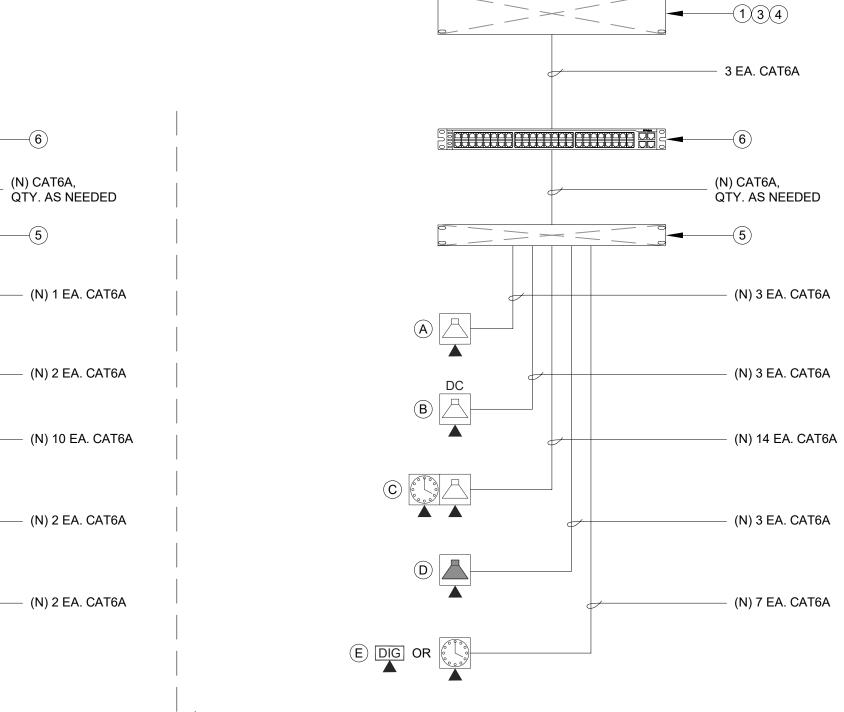
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Services, Inc. KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFETY 5433 El Camino Ave. Suite 5 Carmichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com n COMM/, **BICSI** ^{Sution} des RONNY KAGSTRON Regis. No 163629 Copyright © 2023 These drawings and specifications and the ideas, designs and arrangements represented thereby are and shall remain the property of KMM Services, Inc. and no part thereof shall be copied disclosed to others, or used in connection with any other work or project other than the specific project for which they have been prepared and developed without the written consent of KMM Services, Inc. Visual contact with these drawings or specifications shall constitute conclusive evidence of these restrictions. IF DRAWING IS NOT 30"X42" IT IS A REDUCED PRINT SHEET REVISIONS DELTA DESCRIPTION DATE SITE KEY PLAN PROJECT SACRAMENTO CITY USD CROCKER RIVERSIDE **TELE-CENTER** UPGRADE PROJECT 2970 RIVERSIDE BLVD. SACRAMENTO, CA. 95818 SHEET TITLE TECHNOLOGY FLOOR PLAN - IDF 1.03 DRAWING STATUS CONSTRUCTION DOCUMENTS PROJECT NO: 0300-464 BID PACKAGE: TBD DESIGNED BY: RK/CC CHECKED BY: JG ISSUE DATE: 2023-05-09 WORKING DATE: 2023-04-17 REVISION T203 SHEET



EQUIPMENT SCHEDU						A	ALL EQU				ERIOR SURFACE	SPEAKER: ED AND CONFIGURED (UNO))
DESCRIPTION	МО	DEL	PART NUMBER		TES / DETAIL FERENCES		DESCR	IPTION		MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
IP CLASSROOM MODULE	RAULAND	Т	CC2011A	MOUNT IN	ENCLOSURE	TELEO	ENTER U IP CLA	SSROOM M	ODULE	RAULAND	TCC2011A	MOUNT INSIDE ENCLOS	URE
KER WITH RJ45 CONNECTOR	RAULAND	U	S0880	N/A		8 OHN	I, 8" SPEAKER WI	ITH RJ45 CC	CONNECTOR RAULAND		US0880	N/A	
LOCK	SAPLING	S	AP-4BS-12R	N/A		SPEAI	KER BAFFLE			RAULAND	ACC1003	N/A	
SPEAKER COMBO	LOWELL	A	P-700	N/A		SURF	ACE MOUNT SPE	AKER ENCL	OSURE	RAULAND	ACC1112	N/A	
NT ENCLOSURE R COMBO	LOWELL	P	C712	N/A							IOR DROP CEILIN		
EQUIPMENT						B	ALL EQU					ED AND CONFIGURED (UNO))
LL EQUIPMENT AND MATERIA			RNISHED, INSTALL				DESCR	IPTION		MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
DESCRIPTION	MO	DEL	PART NUMBER		TES / DETAIL FERENCES	_	ENTER U IP CLA			RAULAND	TCC2011A	MOUNT TO SPEAKER	
IP CLASSROOM MODULE	RAULAND	Т	CC2011A	MOUNT IN	SIDE BUILDING		OHM DROP-IN S ECTOR	PEAKER WI	TH RJ45	RAULAND	BAFKIT2X2L8RJ	N/A	
BREAKOUT MODULE	RAULAND	60	03101	MOUNT IN	SIDE BUILDING								
TURE RESISTANT SPEAKER	LOWELL	8	C10MRB	N/A		_							
RESISTANT	RAULAND	A	CC1012	N/A		_							
NT SPEAKER ENCLOSURE	RAULAND	A	CC1113	N/A		_							
OUNTED 4 GANG BACKBOX -	FSR	S	MWB-4G-WHT	MOUNT IN	SIDE BUILDING								
												— 6	
											Ċ	(N) CAT6A, QTY. AS NEEDED	
6						6						(5)	
(N) CAT6A, QTY. AS NEEDED				-		_ (N) CAT6/ QTY. AS							
5						5						——— (N) 1 EA. CAT6A	
						(1) - -						<i></i>	
(N) 4 EA. CAT6A			B A			— (N) 3 EA	CAT6A					——— (N) 2 EA. CAT6A	
(N) 12 EA. CAT6A	\ \					— (N) 4 EA	CAT6A					——— (N) 10 EA. CAT6A	
		(c							\bigcirc				
(N) 2 EA. CAT6A				<i>J</i>		— (N) 1 EA	CAT6A					(N) 2 EA. CAT6A	
			D 🔼 —										
(N) 4 EA. CAT6A				c	1	— (N) 2 EA	CAT6A					(N) 2 EA. CAT6A	
.03 - ROOM 19			//CLOCK SINGLE I	LINE DIAGRAM	<u>- (E) IDF 1.02 - ROOM</u>	VI 06			ERCOM/CLO	DCK SINGLE LINE DIA	GRAM - (E) IDF 1.01 - CI	JST. ROOM NEAR ROOM 16	
		B SCALE: NO	DNE						ALE: NONE				
PONENTS:		EXISTING RACK COMPONENTS:									ACK COMPON	FNITS	
						1 10.							
			2' X 2' CABINET. 1RU FIBER LIU.						\bigcirc	' CABINET. FIBER LIU.			
			1RU SPACE. 1RU 24 PORT PAT	CH PANEL / 8 A	VAIL.					SPACE. 24 PORT PATCH PANE	EL / 11 AVAIL.		
			1RU 24 PORT PAT	CH PANEL-CAT					5 2RU	WIRE MANAGER.			
			2RU WIRE MANAG 2RU 48-PORT PAT		AVAIL.				Ċ	SPACE. 48-PORT PATCH PAN	EL-CAT5 / 10 AVAIL.		
			2RU CISCO 48 PO 2RU CISCO 48 PO						\bigcirc	CISCO 48 PORT SWIT CISCO 48 PORT SWIT			
			1RU 8 PORT ANTA	AIRA SWITCH / 5	AVAIL.				10 2RU		NT.		
									(<u>11</u>) 4RU	UPS UNITS.			
			RAC			•							
VORK:					CORDS FOR ALL N						COPE OF WOR		
EAVING 1 EA. RU BETWEEN BINET.					OURDON ON ALL N				A MOV (#07)	E (E) 48 PORT SWITCI	H (#08) DIRECTLY BELC	W PATCH PANEL	
NEL, P/N ORTRONICS										ACE THE FOLLOWING PATCH CORDS. BLUE - 37 EA., LENG	G QTY. OF PATCHORDS	WITH (N) CAT6 SLIM	
AND ACCESSORIES, IA-E-48-3Y,									2. 3.	WHITE - 1 EA., LENG GREEN - 1 EA., LENG	TH 36" GTH 24"		
OR ALL NEW CAT6A DROPS.									C PRO	YELLOW - 1 EA., LEN /IDE A NEW 48 PORT	IGTH 24" PATCH PANEL, P/N OR ⁻	TRONICS	
OR ALL NEW CATOR DROP 3.									#OR-	SPKSU48.	PATCH CORDS FOR AL		
											11		
											.2		
										ANN A	s 4	and the second s	
					1								
					2					A C D	8		
					3								
				WALLS AN	5								
						1	4					22	
						9 B	Ť			··· · ··			
						BUT BEAM							
		I						·					
		3 DATA RAC SCALE: NO	<u>K Layout - (e) ID</u> Dne	F 1.02 - ROOM	06				TA RACK LA ALE: NONE	YOUT - (E) IDF 1.01 - (CUSTODIAL ROOM SOU	TH OF ROOM 16	

	EQUIPMENT ALL EQUIPMENT AND MATERIALS ARE CON	INTERCOM SCHE TRACTOR FURNISHED,		GURED (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
3	UNIVERSAL RACK MOUNTING KIT		TCC2099	N/A
4	TELECENTER U PROGRAM LINE INPUT MODULE		TCC2055	N/A
(5)	24-PORT OR 48-PORT PATCH PANEL	SEE DATA SINGLE LINE BELOW FOR MORE INF		(N) OR (E) AS NOTED
6	48-PORT NETWORK SWITCH	SEE DATA SINGLE LINE BELOW FOR MORE INF		(N) OR (E) AS NOTED



(1) 7' X 3' CABINET.

(8) 1RU SPACE.

ARU FIBER LIU.

(3) 2RU WIRE MANAGER.

(4) 2RU 48-PORT PATCH PANEL / 15 AVAIL.

5 2RU 48-PORT PATCH PANEL / 28 AVAIL

(6) 1RU 24 PORT PATCH PANEL / 0 AVAIL.

(7) 2RU CISCO 48 PORT SWITCH / 0 AVAIL.

(9) 1RU CISCO 48 PORT SWITCH / 9 AVAIL.

(11) 2RU WJ-NV300 NVR W. 16 CAMERAS.

(12) 1RU FIBER LIU (CARRIER?).

(13) 7RU CCTV MONITOR. (14) 8RU UPS UNITS.

(10) 2RU SPACE / SHELF WITH "FUSUS EQPT".

INTERCOM/CLOCK SINGLE LINE DIAGRAM - (E) MDF 1.0

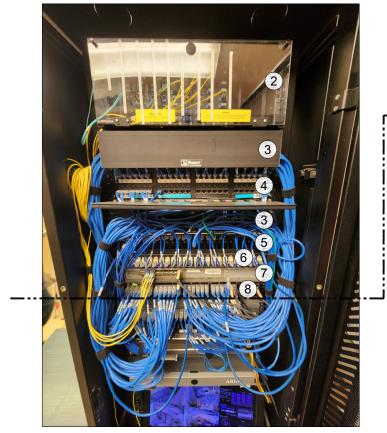


RACK SCOPE OF WORK:

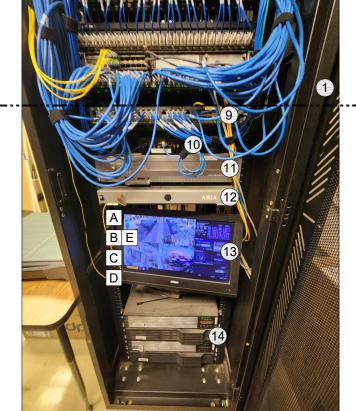
EXISTING RACK COMPONENTS:

A REPLACE (E) CCTV MONITOR WITH NEW KEYBOARD / MONITOR, P/N

- TRIPPLITE #B021-000-19-HD2. PROVIDE A NEW 48 PORT PATCH PANEL, P/N ORTRONICS
- #OR-SPKSU48.
- PROVIDE NEW 48 PORT SWITCH, LICENSE AND ACCESSORIES, CISCO P/N C9300L-48PF-4X-EDU, C9300-DNA-E-48-3Y,
- SFP-H10GB-CU1M, C9300L-STACK-KIT & STACK-T3-3M. MOUNT NEW INTERCOM HEAD END EQUIPMENT. SEE INTERCOM
- SINGLE LINE FOR COMPONENT INFORMATION.
- PROVIDE (N) CAT6A SLIM PATCH CORDS FOR ALL NEW CAT6A DROPS.



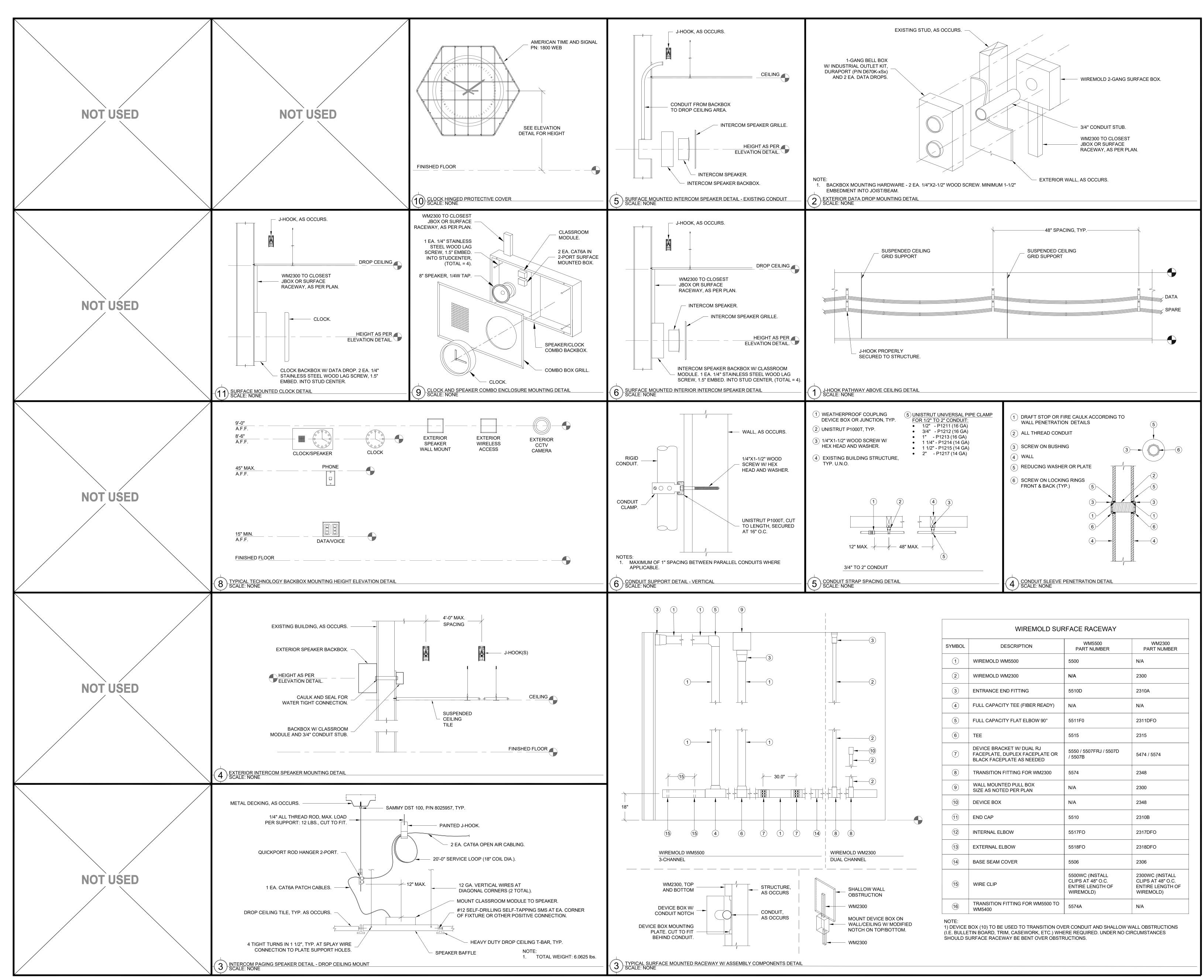
TOP HALF OF RACK



BOTTOM HALF OF RACK

DATA RACK LAYOUT - (E) MDF 1.0 SCALE: NONE

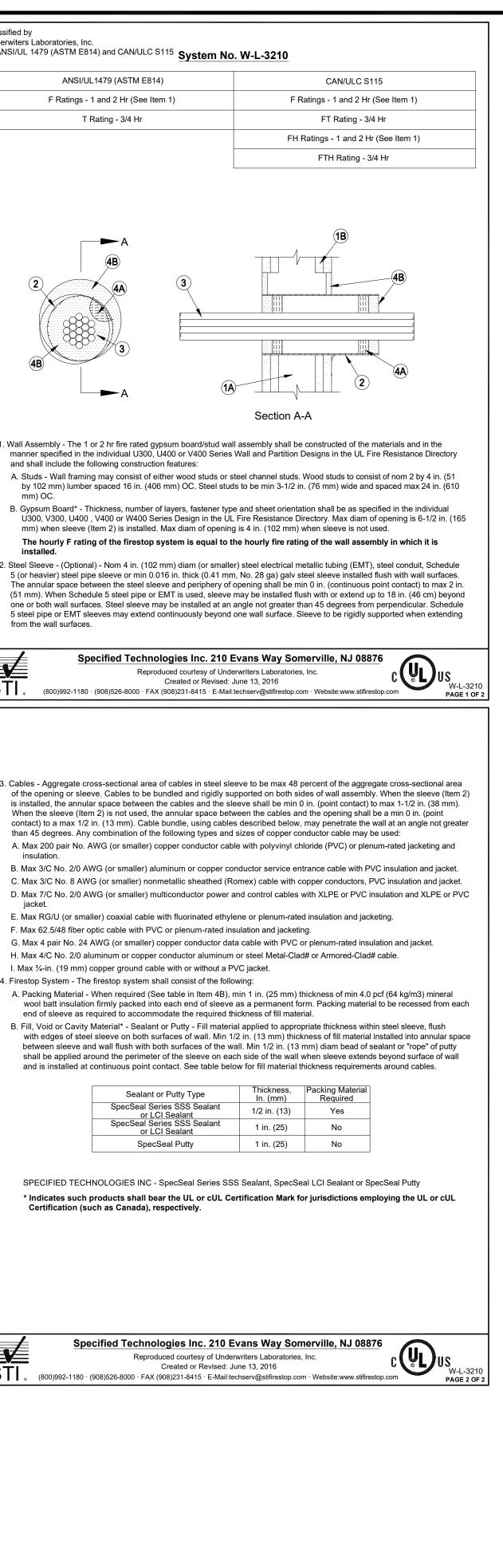
Services, Inc. KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFETY 5433 El Camino Ave. Suite 5 Carmichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com ⇒BIC2 UTION RONNY KAGST Regis. No.163629 Copyright © 2023 These drawings and specifications and the ideas, designs and arrangements represented thereby are and shall remain the property of KMM Services, Inc. and no part thereof shall be copied disclosed to others, or used in connection with any other work or project other than the specific project for which they have been prepared and developed without the written consent of KMM Services, Inc. Visual contact with these drawings or specifications shall constitute conclusive evidence of these restrictions. IF DRAWING IS NOT 30"X42" IT IS A REDUCED PRINT SHEET REVISIONS DELTA DESCRIPTION DATE SITE KEY PLAN PROJECT SACRAMENTO CITY USD CROCKER RIVERSIDE **TELE-CENTER** UPGRADE PROJECT 2970 RIVERSIDE BLVD. SACRAMENTO, CA. 95818 SHEET TITLE TECHNOLOGY DATA RACK ELEVATIONS AND INTERCOM AND CLOCK SINGLE LINES DRAWING STATUS CONSTRUCTION DOCUMENTS PROJECT NO: 0300-464 BID PACKAGE: TBD DESIGNED BY: RK/CC CHECKED BY: JG 2023-05-09 ISSUE DATE: WORKING DATE: 2023-05-09 REVISION SHEET **F400**

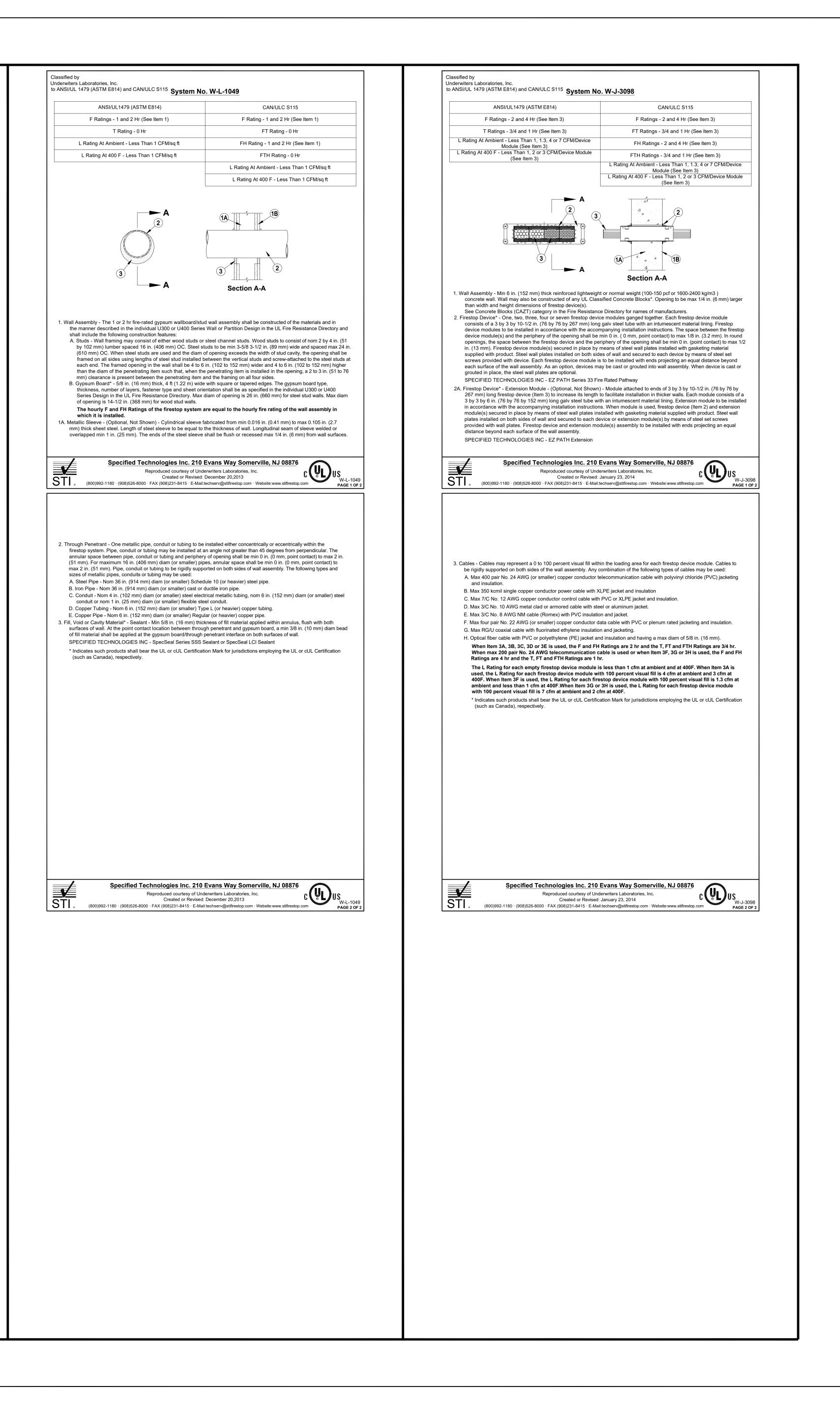


Services, inc. KMM SERVICES, INC TECHNOLOGY&FIRE LIFE SAFET 5433 El Camino Ave. Suite armichael, CA 95608 Office: (916) 359-4000 www.kmmservices.com **⇒BiCSi** UTION D RONNY KAGST Regis. No.163629 Copyright © 2023 These drawings and specifications and the ideas, designs and arrangements represented thereby are and shall remain the property of KMM Services, Inc. and no part thereof shall be copied disclosed to others, or used in connection with any other work or project other than the specific project for which they have been prepared and developed without the written consent of KMM Services, Inc. Visual contact with these drawings or specifications shall constitute conclusive evidence of these restrictions. IF DRAWING IS NOT 30"X42" IT IS A REDUCED PRINT SHEET REVISIONS DELTA DESCRIPTION DATE SITE KEY PLAN PROJECT SACRAMENTO CITY USD **CROCKER RIVERSIDE TELE-CENTER** UPGRADE PROJECT 2970 RIVERSIDE BLVD. SACRAMENTO, CA. 95818 SHEET TITLE TECHNOLOGY DETAILS DRAWING STATUS CONSTRUCTION DOCUMENTS PROJECT NO: 0300-464 BID PACKAGE: TBD DESIGNED BY: RK/CC CHECKED BY: JG ISSUE DATE: 2023-05-09 2023-04-17 WORKING DATE: REVISION **T800** SHEET

to ANSI/UL 14	aboratories, Inc. 479 (ASTM E814) 263 (ASTM E119)	Wall	CLIV.R14288							
with steel directed, t that the bo box dimen	Power Shield Box Inserts, mud rings in framed wall a he horizontal separation be oxes are not installed back isions, hourly rating, type o	ssemblies. Whe etween outlet bo -to-back. Installa of stud, use of st	en protective material exes on opposite side ation shall comply wit ud cavity insulation a	is used in out s of the wall n th the National	let boxes on b nay be less tha l Electrical Coo	oth sides of an 24 in. (6 [.] le (NFPA 7	the wall as 0 mm) pro 0). The ma	s vided x outlet		
A. Studs - B. Stud Ca	onstruction features shall co Unless otherwise specified avity Insulation - Where ind ass (min 0.5 pcf or 8 kg/m3 mal.	d, the minimum licated in the tat	stud width is 3-1/2 in. ble below, stud cavity	insulation to o						
or V40 D. Pad Dir	esign - Stud composition is 0 Series Wall and Partition nensions - The minimum d sions shown in table and pa	Design in the F limensions of the	ire Resistance Directore insert pad are show	ory. vn in the table		nay be cut t	o achieve			
Produ EP 23 EP 23	3 2 x 3 x 2-1/4 (51 x 76 x 57) deep 2 x 3 x 2-1/4 (51 x 76 x 57) deep		Outlet Pad Size, 30x Mfr (mm) - 1-7/8 x 2-3 (48 x 70) - 1-7/8 x 2-3 (48 x 70)	hr ⁶⁷ 3/4 2 3/4 2	Stud Cav Insula Steel No Steel Ye	ation Ty o Ste es Pla	pe Ba eel - stic -	11		
EP 23 EP 24 EP 24	$\begin{array}{c} (51 \times 76 \times 57) \text{ deep} \\ 2-1/8 \times 4 \times 2-1/8 \\ (54 \times 102 \times 54) \text{ deep} \\ 4 \\ (54 \times 102 \times 54) \text{ deep} \\ (54 \times 102 \times 54) \text{ deep} \end{array}$	- -	- 1-7/8 x 2-3 (48 x 70) - 1-7/8 x 3-3 (48 x 95) - 1-7/8 x 3-3 (48 x 95) - (48 x 95)) 1 5/4 2 5/4 2	Steel or Ye Wood Ye Steel Ne Steel Ye	o Ste es Pla	eel - eel - stic -			
EP 24 EP 44 EP 44	$\begin{array}{c} (34 \times 102 \times 54) \text{ deep} \\ 4 \times 4 \times 2-1/8 \\ (102 \times 102 \times 54) \text{ deep} \\ 4 \times 4 \times 2-1/8 \\ (102 \times 102 \times 54) \text{ deep} \end{array}$	_	- 1-7/8 x 3-3 (48 x 95) 3-3/4 x 3-5 (95 x 95) - 3-3/4 x 3-3 (95 x 95) - 3-3/4 x 3-3) 1 3/4 2 3/4 2	Steel or Ye Wood Ye Steel Ne Steel Ye	o Ste	eel - eel - stic -			
EP 44 EP 44 EP 44	$ \begin{array}{c} (102 \times 102 \times 34) \text{ deep} \\ 5 \\ (119 \times 119 \times 54) \text{ deep} \\ 5 \\ (119 \times 119 \times 54) \text{ deep} \\ 5 \\ (114 \times 127 \times 60) \text{ deep} \\ (114 \times 127$	/8 _)	Steel or Ye Wood Ye Steel or Ye Wood Ye Steel or Ye	es Ste es Plast es Plast es Plast Ste	el ic or el ic or el			
Nonmetall	⁵ (114 x 356 x 64) deep Putty Pads, for use with flu ic Outlet Boxes in framed v he horizontal separation be	ush device UL L vall assemblies.	isted Metallic Outlet I When protective ma	9) 1012 Boxes installed	Wood Te d with steel mu on outlet boxes	d rings or l on both si	el JL Listed des of the v			
mm) thick the outlet pads to be the conne	oxes are not installed back moldable putty pads are to box against the stud) and t overlapped approx 1/2 in. ctor securing the end of ea	be installed to completely se (13 mm) at the ch Type MC ca	completely cover the al against the stud w seam. An additional ble, electrical metallio	exterior surfa ithin the stud 3/16 in. (5 mn c tube (EMT) o	ces of the outl cavity. Adjoinir n) thickness of or conduit to th	et box (exc ng pieces o putty to be e box. Whe	ept for the s moldable formed arc n nonmeta	side of putty ound Ilic box		
extending are tabula A. Studs -	th Type NM cable, a 3/16 in a min of 1 in. (25 mm). The ted below. Additional gene Unless otherwise specified avity Insulation - Unless inc	e box compositi ral construction d, the minimum	on, max device dime features shall comply stud width is 3-1/2 in.	nsions, hourly v as follows: (89 mm).	rating, type of	stud and ty	pe of face	olate		
mm) th C. Wall De	ick fiberglass (min 0.5 pcf esign - Stud composition is 0 Series Wall and Partition	or 8 kg/m3) or n indicated in the	nineral fiber (min 4 pc table below. Wall cc	f or 64 kg/m3) Instruction sha			,			
STI.	Specified T (800)992-1180 · (908)526-80	Reproduced co Created	Inc. 210 Evans urtesy of Underwriters I d or Revised: October 3 8415 · E-Mail:techserv@	_aboratories, In 30, 2013	С.			CLIV PAGE 1 OF	F 3	
				41-41						
interconr electrical interconr E. Nonmeta	Dutlet Boxes - Except as indi nected by means of electrica I metallic tube (EMT) or conc nected, the ball of putty is no llic Outlet Boxes - The box n	I metallic tube or duit within the ou ot required. nanufacturer is ir	conduit, a ball of putt tlet box. When MC ca ndicated in the table b	y is to be insta ble is used and elow. Boxes sh	lled to plug the d/or when the o nall bear a 2 hr	open end o outlet boxes	are not			
Model	Max Outlet Box in. (mm) 4 x 4 x 2-1/8 102 x 102 x 54) deep	Outlet Box Type Steel	Outlet Box Mfr N.A.	Pad Size Rat in. (mm) h	ng, Stud r Steel or Wood	Cavity Insulation -	Face Plate Type Steel	Putty Ball No		
- 4- (4 x 4 x 2-1/8 102 x 102 x 54) deep 11/16 x 4-11/16 x 2-1/8 119 x 119 x 54) deep 4-1/2 x 5 x 2-3/8 114 x 127 x 60) deep 4-1/2 x 14 x 2-1/2	Steel Steel Steel	N.A. N.A. N.A.	- 1 - 1 o - 1 o	r 2 Steel or Wood r 2 Steel or Wood Steel or		Plastic Steel Steel	Yes Yes Yes		
- (4-1/2 X 14 X 2-1/2 114 X 127 X 60) deep 3-3/4 X 4 X 3 (95 X 102 X 76) deep 3-3/4 X 4 X 3 (95 X 102 X 76) deep 3-3/4 X 4 X 3	Steel Polyvinyl Chloride Phenolic	N.A. Lamson & Sessions or Carlon Allied Moulded Prods	- 10 - 10	r 2 Wood r 2 Wood	-	Steel Plastic or Steel Plastic or Steel Plastic or	N.A.		
	(95 x 102 x 76) deep 3-3/4 x 4 x 3 (95 x 102 x 76) deep 2-1/4 x 3-3/4 x 2-3/4 (57 x 95 x 70) deep	Polycarbonate Phenolic Polyvinyl Chloride	Thomas & Betts Thomas & Betts Pass & Seymour	- 10 - 10 - 10		-	Plastic or Steel Plastic or Steel Steel	N.A.		
Outlet Boxe constructed kg/m3) or m	utty Pads , for use with maxi s installed with steel mud rin with min 5-1/2 in. (140 mm) ineral fiber (nom 4 pcf or 64 cted, the boxes may be insta	igs and with stee wide wood or st kg/m3) insulatio	I faceplates in 1 hr or eel studs and with stu n. When protective ma	2 hr fire rated d cavities filled aterial is used	gypsum board with fiberglass on outlet boxes	wall assem s (nom 0.5 p s on both sig	blies ocf or 8 les of the			
Installation s installed to c completely s mm) at the s	ted with conduit or, when into shall comply with the Nationa completely cover the exterior seal against the stud within t seam. An additional 3/16 in.	al Electrical Code r surfaces of the the stud cavity. A (5 mm) thicknes	e (NFPA 70). Min 3/16 outlet box (except for djoining pieces of mo s of putty to be formed	in. (5 mm) thie the side of the ldable putty pa	ck moldable pu outlet box aga ds to be overla	tty pads are inst the stu pped appro	e to be d) and to ox 1/2 in. (1	3		
SpecSeal E or 2-1/8 in. (with steel or wood or ste	ble, electrical metallic tube (P23, EP24 and EP44 Powe (102 by 102 by 38 or 54 mm plastic faceplates in 1 hr or el studs. When both protecti	er Shield Box In) deep flush devi 2 hr fire rated g ive materials are	serts and SpecSeal ice UL Listed Metallic ypsum board wall asso used with outlet boxe	Outlet Boxes in emblies constru- s on both side:	nstalled with st ucted with min s of the wall as	eel mud ring 3-1/2 in. (8 directed, th	gs and 9 mm) wide e boxes			
boxes are no moldable pu box against overlapped	alled back-to-back provided i of interconnected. Installatio itty pads are to be installed t the stud) and to completely approx 1/2 in. (13 mm) at th ecuring the end of each Typ	n shall comply w to completely cov seal against the e seam. An addi	ith the National Electr ver the exterior surface stud within the stud ca tional 3/16 in. (5 mm)	ical Code (NFF es of the outlet avity. Adjoining thickness of p	PA 70). Min 3/1 box (except fo pieces of mole utty to be forme	6 in. (5 mm the side o dable putty daround th) thick f the outlet pads to be e			
	completely cover the back in		,	,						
	Specifie		es Inc. 210 Evan		•) <u>8876</u>	<u>(</u>)	_	
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Boxes or UL	utty Pads, for use with max Listed Communications-C	ircuit Accessori	es manufactured by I	Randl Industri	es Inc for use i	n 1 hr or 2	nr fire rated	I		
individual U3 to be provide are to be ins unless other	rd wall assemblies framed 300, U400, or V400 or W40 ed with UL Listed Signal Ap stalled to completely cover i wise noted) including nailir pay the installed on an artic	00 Series Wall a opliance with ste the exterior surf ng tabs and to c	nd Partition Designs eel cover plate manu aces of the outlet bo ompletely seal again	in the Fire Re factured by Co x (except for t st the stud with	sistance Direct oper Wheeloo he side of the o hin the stud ca	tory. Metall k Inc. Mold outlet box a vity. Multipl	c outlet bo: able putty gainst the s e moldable	xes bads stud		
used to seal material is re moldable pu between out	hay be installed on an outle around each conduit and/o equired on the exterior surf tty pad outlet box protective let boxes on opposite sides the to back, except as noted.	or cable fitting of aces of flush de e material is use s of the wall may	n the exterior of each vice boxes in 1 and 2 ed on boxes on both	box. A min 3 2 hr fire rated v sides of wall a	(16 in. (4.8 mm Wall and Partit is directed, the) thickness ion Design: horizontal	of putty s. When the separation	e		
SpecSeal El Listed Metal hr or 2 hr fire specified in f	P55 Power Shield Box Inse lic Outlet Boxes or UL Liste e rated gypsum board wall the individual U300, U400,	erts, for use with ed Communicati assemblies fran or V400 or W40	ons-Circuit Accessor ned with min 3-5/8 in 00 Series Wall and Pa	ies manufactu . (92 mm) wide artition Design	ired by Randl I e wood or stee is in the Fire R	ndustries lı I studs and esistance [nc for use in constructe Directory.	d as		
Power Shield accessories between out	et boxes to be provided wit d Box Insert is to be applied . When the Power Shield B let boxes on opposite sides & to back, except as noted.	d to the back su lox Insert is use s of the wall may	rface of the box and d on boxes on both s	may be slit to ides of wall as	accommodate directed, the	communic horizontal s	ations-circu eparation			

Login Name: jgoodin Plot Date: May 09, 2023 - 2:12 pm File Name: L:\23-818_Crocker Riverside ES_CBI_SCUSD\4_ACAD\T800_Details XRFFS: XBorder





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