- . REFER TO THE MOUNTING HEIGHT DIAGRAM FOR MOUNTING HEIGHTS UNO. REFER TO DETAIL SHEETS FOR DEVICE SPECIFICATIONS AND INSTALLATION REQUIREMENTS. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATION SECTION 270524, DIVISION 7 SPECIFICATIONS,
- CONTRACTOR(S) SHALL COORDINATE LOCATIONS OF ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, DETAILS AND FINISHES. ANY MODIFICATION THAT WOULD EFFECT PERFORMANCE OF THE DEVICE OR RELATED SYSTEM WHICH CANNOT BE ADJUSTED TO AN ACCEPTABLE LEVEL SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

AS WELL AS ALL APPLICABLE CODES AND REGULATIONS.

- VOICE AND/OR DATA CONNECTIONS TO MECHANICAL, ELECTRICAL, ELEVATOR OR OTHER EQUIPMENT PROVIDED BY OTHERS SHALL BE VERIFIED WITH THE VARIOUS MANUFACTURERS PRIOR TO INSTALLATION. THE INSTALLATION AS INDICATED ON THE DRAWINGS SHALL BE ADAPTED TO ACCOMMODATE SUCH MANUFACTURER REQUIRED OR SUGGESTED INSTALLATION PRACTICES AND METHODS, BUT SHALL BE DONE TO ALLOW ALL REQUIRED TESTING AND CERTIFICATION, AS WELL AS BEING COMPLETED IN COMPLIANCE WITH ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- ALL RACKS, CABINETS, CABLE TRAY, CABLE RUNWAY OR OTHER NON-CURRENT CARRYING EQUIPMENT SHALL BE GROUNDED TO THE TELECOMMUNICATIONS GROUNDING BUSBAR SERVICING THIS AREA IN ACCORDANCE WITH SPECIFICATION SECTION 27 05 26. UTILIZATION OF THE PHRASE "PROVIDED BY" WITHIN THE CONTEXT OF THESE DOCUMENTS
- SHALL EXPLICITLY REPRESENT "FURNISHED AND INSTALLED BY". THE CONTRACTOR(S) SHALL ASSUME RESPONSIBILITY FOR REMOVING EXISTING CEILING TILES AND REPLACE WITH EXISTING TILES AS REQUIRED FOR EXECUTION OF THEIR SCOPE OF WORK. THIS INCLUDES SPACES IN THE NEW WORK AS INDICATED ON THE DRAWINGS AND AREAS NOT SHOWN WHERE THE CONTRACTOR IS REQUIRED TO AFFECT EXISTING CONDITIONS WHILE EXECUTING THEIR SCOPE OF WORK. DAMAGED TILES SHALL BE REPLACED BY THE CONTRACTOR(S) AT NO COST TO THE OWNER OR THE OWNER'S REPRESENTATIVES.
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF NEW WORK WITHIN THEIR RESPECTIVE SCOPE. CUTTING OF A STRUCTURAL MEMBER IS PROHIBITED WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE ARCHITECT. ALL CUTTING AND PATCHING SHALL BE PERFORMED BY QUALIFIED TRADESMEN.
- 0. WHENEVER NOT OTHERWISE SPECIFIED, THE FINAL LOCATIONS FOR VISIBLE ITEMS IN PUBLIC AREAS SHALL BE VERTICALLY AND OR HORIZONTALLY ALIGNED WITH OTHER DEVICES IN THE FIELD OF VIEW OR AS DIRECTED BY THE ARCHITECT. WHENEVER POSSIBLE CONTRACTOR SHALL SIMILARLY COORDINATE WITH THE DEVICE LOCATIONS OF OTHER TRADES. ITEMS OF SPECIAL CONCERN INCLUDE ANY DEVICE WITH A FACEPLATE INCLUDING BUT NOT LIMITED TO RECEPTACLES, SWITCHES, AND TECHNOLOGY OUTLETS ETC.
- 11. ALL DEVICES IN INACCESSIBLE CEILINGS SHALL HAVE CONDUIT STUB IN NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE APPROPRIATE CABLE ROUTE, UON.

SLEEVE REQUIREMENT NOTE:

. THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL NECCESSARY SLEEVES REQUIRED FOR ALL DEVICE LOCATIONS AND, AS REQUIRED, TO TRAVERSE THE BUILDING(S) WITH ANY/ALL HORIZONTAL AND BACKBONE CABLING. SLEEVES SHALL BE LOCATED SO AS TO PROVIDE A READY PATHWAY FROM EACH DEVICE AND/OR EQUIPMENT LOCATION TO THE PATHWAY DEFINED ON THESE DRAWINGS. FURTHERMORE ALL PATHWAYS SHALL BE CREATED BETWEEN THE CORRIDOR OR OTHER MAJOR PATHWAY AND THE DESTINATION TERMINATION POINT, E.G. PATCH PANEL IN RACK AT A RATE OF (1) 4" CONDUIT PER (50) CABLES, UON. PROVIDE PENETRATIONS DOWN MAJOR PATHWAYS THROUGH FIRE/SMOKE BARRIER AT A RATE OF (1)4" CONDUIT PER (50) CABLES, UON. ALL CONTRACTORS SHALL MAINTAIN ALL SMOKE BARRIER AND FIRE WALL RATINGS FOR ALL PENETRATIONS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THESE SLEEVES WITH THE TECHNOLOGY CONTRACTOR PRIOR TO INSTALLATION. MINIMUM SLEEVE SHALL BE 2".

PLENUM USAGE NOTE:

IT IS INCUMBENT ON THE BIDDER TO REVIEW THE MECHANICAL PLANS TO DETERMINE THE EXACT LOCATION OF PLENUM CABLE REQUIREMENTS AND PROVIDE THAT CABLE AS NECCESSARY, INCLUDING ANY CHANGES THAT WOULD BE MADE BY POTENTIAL ADDENDA OR BULLETINS OR OTHER DOCUMENT CHANGES.

SCOPE CLARIFICATION NOTE:

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 26 SCOPE OF WORK, ALL CONDUIT, JUNCTION BOXES, HANDHOLES, MANHOLES, BACKBOXES, RACEWAYS, PLASTER RINGS AND RELATED HARDWARE REQUIRED FOR ALL ROUGH IN, AND CONDUIT PATHWAYS INDICATED ON THE DIVISION 27 DRAWINGS.
- THE TECHNOLOGY CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 27/28 SCOPE OF WORK, BLANK FACEPLATES FOR ALL TECHNOLOGY ROUGH-INS INDICATED ON DIVISION 27 DRAWINGS AS BEING ROUGH-IN ONLY, FOR FUTURE USE, OR OTHERWISE LEFT UNUSED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE, UNDER THE SCOPE OF THE DIVISION 26 SCOPE OF WORK, ALL PLYWOOD BACKBOARDS INDICATED ON THE DIVISION 27/28 DRAWINGS,
- INCLUDING, BUT NOT LIMITED TO, ALL PREPARATIONS, SUCH AS TWO COATS OF FIRE RETARDANT PAINT ON ALL SIDES, AND ALL OTHER REQUIREMENTS LISTED IN SPECIFICATION THE ELECTRICAL CONTRACTOR SHALL PROVIDE. UNDER THE DIVISION 26 SCOPE OF WORK.
- ONLY THOSE UPS'S AND/OR OTHER POWER QUALITY DEVICES INDICATED ON THE DIVISION 26 DOCUMENTS. THE TECHNOLOGY CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 27 SCOPE OF WORK, ALL UPS'S AND/OR POWER QUALITY DEVICES INDICATED ON THE DIVISION 27 AND/OR 28 DOCUMENTS.

. THE ELECTRICAL CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 26 SCOPE OF WORK,

- ALL CABLE TRAY AND CABLE RUNWAY INDICATED ON THE DIVISION 27/28 DOCUMENTS NOT CONTAINED IN ROOMS INDICATED AS BEING TECHNOLOGY ROOMS, OR TR's.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 26 SCOPE OF WORK, ALL CONDUIT SLEEVES. CONDUIT SLEEVES SHALL BE AS INDICATED ON THE DRAWINGS, AND/OR REQUIRED BY THE SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT SLEEVING REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO INSTALLATION. MINIMUM SLEEVE SHALL BE 2", UON. SLEEVING SHALL BE LOCATED SO AS TO BE WITH THE DIRECTION OF CABLE ROUTING.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 26 SCOPE OF WORK, ALL BUSBARS. CABLING AND RELATED HARDWARE INDICATED ON THE DIVISION 27/28 DOCUMENTS, REQUIRED TO PROVIDE THE ENTIRE TECHNOLOGY GROUNDING SYSTEM.
- THE TECHNOLOGY CONTRACTOR SHALL PROVIDE ALL BONDING JUMPERS REQUIRED TO BOND ALL EQUIPMENT PROVIDED BY THE TECHNOLOGY CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 26 SCOPE OF WORK, ALL BONDING JUMPERS REQUIRED TO BOND THE CABLETRAY SYSTEM SO AS TO ASSURE THAT THE ENTIRE CABLETRAY SYSTEM IS ELECTRICALLY CONTINUOUS AND BONDED TO THE ELECTRICAL GROUNDING SYSTEM.
- 10. THE TECHNOLOGY CONTRACTOR SHALL PROVIDE, UNDER THE DIVISION 27 SCOPE OF WORK, ALL OTHER CABLING. CONNECTORS. PATHWAY HARDWARE AND OTHER EQUIPMENT REQUIRED TO COMPLETE THE INSTALLATION OF THE SYSTEMS AND CABLE PLANT AS INDICATED ON THE DIVISION 27 DOCUMENTS.

EMPORARY CABLING NOTE:

TECHNOLOGY CONTRACTOR SHALL PROVIDE ALL TEMPORARY TECHNOLOGY CABLING FOR TEMPORARY FACILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION TRAILERS. TECHNOLOGY CONTRACTOR SHALL ALSO REMOVE ALL TEMPORARY CABLING AT THE END OF

THE PROJECT WHEN DIRECTED BY THE CONSTRUCTION MANAGER.

ADDDEVIATIONS

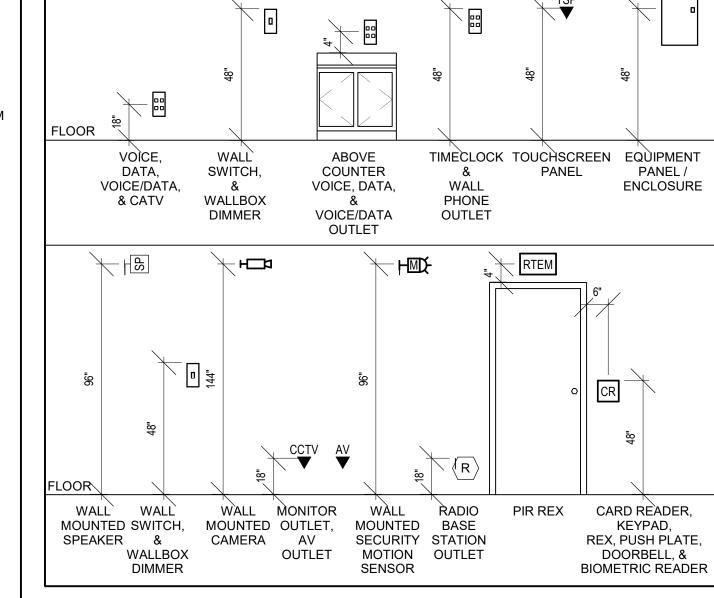
	ABBRE\	/IATIONS		
A AAC AC ADA AFF	AMPERE ABOVE ACCESSIBLE CEILING ALTERNATING CURRENT AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR	MATV MAX MC MECH MFR	MASTER ANTENNA TELEVISION MAXIMUM MAIN CROSS-CONNECT MECHANICAL MANUFACTURER	
AFG AGL AHJ AL	ABOVE FINISHED GRADE ABOVE GRADE LEVEL AUTHORITY HAVING JURISDICTION ALUMINUM	MH MIN MM MTD	MANHOLE MINIMUM MULTIMODE MOUNTED	
ARCH ATM AV AWG	ARCHITECT AUTOMATIC TELLER MACHINE AUDIOVISUAL AMERICAN WIRE GAUGE	MTG MTR N/A	MOUNTING MAIN TELECOMMUNICATIONS ROOM NOT APPLICABLE	
BAS BFG BICSI	BUILDING AUTOMATION SYSTEM BELOW FINISHED GRADE BUILDING INDUSTRY CONSULTING	NEC NEX NFPA	NATIONAL ELECTRICAL CODE NEW DEVICE IN EXISTING BACKBOX NATIONAL FIRE PROTECTION ASSOCIATION	
BKBD BLDG BMS	SERVICE INTERNATIONAL BACKBOARD BUILDING BUILDING MANAGEMENT SYSTEM	NIC NTS	NOT IN CONTRACT NOT TO SCALE OHIO BUILDING CODE	
C CAM CAT	CONDUIT CAMERA CATEGORY	OC OD OFCI	ON CENTER OUTSIDE DIAMETER OWNER FURNISHED CONTRACTOR INSTALLED	
CATV CCTV CFCI	COMMUNITY ANTENNA TELEVISION / CABLE TELEVISION CLOSED CIRCUIT TELEVISION CONTRACTOR FURNISHED	OFE OFOI OSP	OWNER FURNISHED EQUIPMENT OWNER FURNISHED OWNER INSTALLED OUTSIDE PLANT	
CKT CLG CONC	CONTRACTOR INSTALLED CIRCUIT CEILING CONCRETE	PA PB PBX	PUBLIC ADDRESS PULL BOX PRIVATE BRANCH EXCHANGE	
CO CP CONT CU	CONDUIT ONLY CONSOLIDATION POINT CONTINUATION COPPER	PIR PLBG P/N POC POE	PASSIVE INFRARED PLUMBING PART NUMBER POINT OF CONNECTION POWER OVER ETHERNET	
DAS DB DIV DIA DP DPDT	DISTRIBUTED ANTENNA SYSTEM DECIBEL DIVISION DIAMETER DEMARCATION POINT DOUBLE POLE DOUBLE THROW	POS PP PR PTZ PVC PWR	POINT OF SALE PATCH PANEL PAIR PAN/TILT/ZOOM POLYVINYL CHLORIDE POWER	
DWG	DRAWING	QTY	QUANTITY	
EA EAC EC EF EIA ELEC EM EMT EP EQUIP ER ETR EXIST EXT	EACH ELECTRONIC ACCESS CONTROL ELECTRICAL CONTRACTOR ENTRANCE FACILITY ELECTRONICS INDUSTRIES ASSOCIATION ELECTRICAL EMERGENCY ELECTRICAL METALLIC TUBING EXPLOSION PROOF EQUIPMENT EQUIPMENT ROOM EXISTING TO REMAIN EXISTING EXTERIOR	RCDD RD REC RECPT REF REX RF RGS RR RTE RU SM	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER RELOCATED DEVICE RECESSED RECEPTACLE REFRIGERATOR REMOVE EXISTING DEVICE RADIO FREQUENCY RIGID GALVANIZED STEEL REMOVE AND RELOCATE REQUEST TO EXIT RACK UNIT (1 3/4") SINGLE MODE	
FA FAAP FACP FATC FIXT FO	FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET FIXTURE FIBER OPTIC	SP SPD SPEC STP SYM SYS	SPEAKER SURGE PROTECTIVE DEVICE SPECIFICATION SHIELDED TWISTED PAIR SYMMETRICAL SYSTEM	
FT G GC	FEET GROUND GENERAL CONTRACTOR	TBD TC TELECOM TGB	TO BE DETERMINED TECHNOLOGY CONTRACTOR TELECOMMUNICATIONS TELECOMMUNICATIONS GROUNDING	
HC HP HZ	HORIZONTAL CROSS-CONNECT HORSEPOWER HERTZ (CYCLES/SECOND)	TMGB TR TV	BUSBAR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TELECOMMUNICATIONS ROOM TELEVISION	
INTERCOM IP IR ISP	INTERCOMMUNICATION INTERNET PROTOCOL INFRARED INTERNET SERVICE PROVIDER	TYP UG UGPS	TYPICAL UNDERGROUND UNDERGROUND PULL SECTION	
JB	JUNCTION BOX	UNO UON UPS	UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY	
KCMIL KO KVM KW	THOUSAND CIRCULAR MILS KNOCKOUT KEYBOARD/VIDEO/MOUSE KILOWATT	UTP V VLAN VMS	UNSHIELDED TWISTED PAIR VOLTS VIRTUAL LOCAL AREA NETWORK VIDEO MANAGEMENT SOFTWARE	
LAN LCP LTG LV LVC	LOCAL AREA NETWORK LIGHTING CONTROL PANEL LIGHTING LOW VOLTAGE LOW VOLTAGE CONTRACTOR	VOIP W WAN WAP WG WLAN WP	WATTS WIDE AREA NETWORK WIRELESS ACCESS POINT WIRE GUARD WIRELESS LOCAL AREA NETWORK WEATHERPROOF	

WEATHERPROOF

TRANSFORMER

DEVICE MOUNTING HEIGHT DIAGRAM

NOTE: MOUNTING HEIGHTS FOR DEVICES UNLESS OTHERWISE NOTED



INTRUSION DETECTION SYSTEM IDCP INTRUSION CONTROL PANEL GLASS BREAK SENSOR SECURITY MOTION SENSOR, SECURITY MOTION SENSOR, WALL-+M \searrow -CEILING-MOUNTED MOUNTED

DEVICE NOTES:

1. PROVIDE A SINGLE GANG 1-1/2" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO. PROVIDE A 1/2" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.

CATV SYSTEM

XX ▼ TV	TELEVISION OUTLET, WALL- MOUNTED
TV	TELEVISION OUTLET, CEILING- MOUNTED

IDM = INTERCOM MASTER STATION

IDS = INTERCOM DOOR STATION

IDV = INTERCOM DOOR VIDEO

WP = WEATHER PROOF

CM = CORNER MOUNT

PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX AT EACH LOCATION, UNO. PROVIDE A 3/4" CONDUIT ROUTED BETWEEN BACK BOX AND NEAREST CABLE . TERMINATE COAXIAL CABLING ON A F-TYPE CONNECTOR, UNO

XX = DEVICE TYPE V = VIDEO OUTLET

INTERCOM SYSTEM

XX ▼	INTERCOM STATION
2. PROVID	TES: DE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX AT EACH LOCATION, UNO. DE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST PATHWAY, UNO.
ICP	INTERCOM CONTROL PANEL

VIDEO SURVEILLANCE SYSTEM

H□□	VIDEO SURVEILLANCE CAMERA, WALL-MOUNTED	⊕ _{xx}	VIDEO SURVEILLANCE CAMERA, CEILING-MOUNTED			
H III I	VIDEO SURVEILLANCE CAMERA, PAN-TILT-ZOOM, WALL-MOUNTED	₽ _{xx}	VIDEO SURVEILLANCE CAMERA, PAN-TILT-ZOOM, CEILING- MOUNTED			
DEVICE NOTES: 1. REFER TO CAMERA SCHEDULE FOR DEVICE TYPE AND MOUNTING INFORMATION.						
XX = DEVICE DESCRIPTION 360 = 360 DEGREE CAMERA 180 = 180 DEGREEE CAMERA PTZ = PAN/TILT ZOOM CAMERA						
HDR = HIGH DYNAMIC RANGE CAMERA						

CLOCK SYSTEM

Фхх		ANALOG SYSTEM CLOCK, WALL MOUNTED	1:23 XX	DIGITAL SYSTEM CLOCK, WALL MOUNTED
	IQI xx	ANALOG SYSTEM CLOCK, DOUBLE SIDED, WALL MOUNTED	1:23 XX	DIGITAL SYSTEM CLOCK, DOUBLE SIDED, WALL MOUNTED
	WG = W	E DESCRIPTION TIREGUARD APSED TIME		

DISTRIBUTED ANTENNA SYSTEM (DAS)

		CEILING MOUNTED ANTENNA		POWER SPLITTER		
	Y	WALL MOUNTED ANTENNA	<u>_</u> A	COUPLER		
		DONOR ANTENNA		DAS HEADEND EQUIPMENT		
		ICA12-50JPL 0 PLENUM RATED COAX CABLE	<u> </u>	CABLE FLOOR TO FLOOR TRANSITION POINT		
		CXTA42A-3 COAX JUMPER CABLE				
ļ					'	

ELECTRONIC ACCESS CONTROL SYSTEM

CR XX	PROXIMITY / CARD READER	KP	KEYPAD	
BR XX	BIOMETRIC READER	РВ	PUSH BUTTON	
PP	PUSH PLATE	RTEM	REQUEST TO EXIT MOTION SENSOR	
DEVICE NOTES:				

PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO. PROVIDE A 3/4" CONDUIT ROUTED TO THE ACCESS CONTROL JUNCTION BOX LOCATED ABOVE THE DOOR, UNO. DOOR RELEASE BUTTON SHALL BE SURFACE-MOUNTED TO UNDERSIDE OF COUNTER/DESK. MOUNT THE BACK BOX DIRECTLY BELOW THE COUNTER/DESK AND PROVIDE SURFACE-MOUNTED RACEWAY FROM THE BACK BOX TO THE DOOR RELEASE BUTTON LOCATION, UNO.

PROVIDE A SINGLE GANG 1-1/2" DEEP BACK BOX AT EACH LOCATION, UNO.

2. PROVIDE A 1/2" CONDUIT ROUTED TO THE ACCESS CONTROL JUNCTION BOX LOCATED ABOVE THE DOOR UNO.				
MLXX	ML XX MAGNETIC LOCK DC XX DC		DOOR CONTACT	
ELXX	ELECTRIFIED LOCKSET (STAND ALONE BATTERY POWERED LOCK W/ INTEGRATED READER)	ESXX	ELECTRIC STRIKE	
ACP XX	ACCESS CONTROL PANEL	RXX	ELECTRONIC ACCESS CONTROL RELAY	
(J)	ACCESS CONTROL JUNCTION BOX	ACPS XX	ACCESS CONTROL POWER SUPPLY	
		EPB XX	ELECTRIFIED PANIC BAR	

DEVICE NOTES:

1. PROVIDE A 1/2" CONDUIT ROUTED TO ACCESS CONTROL JUNCTION BOX LOCATED ABOVE DOOR

XX = DEVICE TYPE SM = SMART CARD READER KP = PROXIMITY CARD READER / KEYPAD COMBINATION BR = PROXIMITY CARD READER / BIOMETRIC READER COMBINATION MU = MULLION-MOUNTED CARD READER FP = FINGERPRINT READER HND = HAND READER IS = IRIS SCANNER UC = UNDER COUNTER MOUNTED REQUEST TO EXIT BUTTON / DOOR RELEASE BUTTON DL = DELAY EGRESS MAGNETIC LOCK

ACCESS CONTROL NOTE: ACCESS CONTROL CONTRACTOR SHALL COORDINATE WITH AUTOMATIC DOOR PROVIDER FOR ALL DOORS BEING CONTROLLED BY ACCESS CONTROL SYSTEM. ACCESS CONTROL CONTRACTOR SHALL PROVIDE ANY REQUIRED RELAY INTERFACE. TIME DELAY CIRCUIT AND/OR OTHER RELATED DEVICES AND CABLING TO FULLY AND SUCCESSFULLY INTERFACE THE ACCESS CONTROL SYSTEM WITH THE AUTO DOORS. ACCESS CONTROL CONTRACTOR SHALL

COORDINATE SEQUENCE OF OPERATION WITH DOOR VENDOR TO ASSURE PROPER OPERATION.

RF WIRELESS COMMUNICATION SYSTEM

COMMONICATION STOTEM					
MR	PRIVATE LAND MOBILE RADIO ANTENNA, CEILING-MOUNTED	TA ▼	TELEMETRY ACCESS POINT, CEILING-MOUNTED		
$\langle R \rangle$	RADIO BASE STATION, WALL- MOUNTED	D	DISTRIBUTED ANTENNA SYSTEM ANTENNA, CEILING-MOUNTED		

<u>DEVICE NOTES</u>:

1. PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE

AUDIOVISUAL SYSTEM

	ADDIOVIOUAL OTOTLIN						
SP XX	SPEAKER, CEILING-MOUNTED	$(AV)^{XX}$	AV DEVICE, CEILING-MOUNTE				
(PA)XX	PA SYSTEM SPEAKER, CEILING- MOUNTED						

—SCHEDULE DESIGNATION

PATHWAY, UNO.

AUDIO ZONE (IF APPLICABLE) <u>DEVICE NOTES:</u> 1. PROVIDE A 3/4" CONDUIT ROUTED BETWEEN EACH SPEAKER BACK BOX FOR SPEAKERS WITHIN A ZONE AND A 3/4" CONDUIT BETWEEN THE SPEAKER ZONE AND THE ASSOCIATED POWER AMPLIFIER OR NEAREST ACCESSIBLE CABLE PATHWAY, UNO. INSTALL CEILING-MOUNTED SPEAK FLUSH TO CEILING, UNO, PROVIDE ALL NECESSARY

MOUNTING HARDWARE AND TIE OFF ACCESSORIES TO PROPERLY SUPPORT THE SPEAKER PER MANUFACTURER'S MOUNTING INSTRUCTIONS. PROVIDE SPEAKER GRILLES TO MATCH THE ADJACENT CEILING / WALL COLOR, UNO. SP XX SPEAKER WALL-MOUNTED

PA SYSTEM SPEAKER WALL-MOUNTED DEVICE NOTES:

1. PROVIDE A 3/4" CONDUIT BETWEEN BACK BOX AND NEAREST CABLE PATHWAY UNO. PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION UNO

AUDIO / VISUAL WALLPLATE EVICE NOTES:
PROVIDE (2)1" CONDUITS ROUTED BETWEEN BACK BOX AND NEAREST CABLE PATHWAY UNO.

PROVIDE À 2-GANG 2-1/8" DEEP BACK BOX AT EACH LOCATION UNO. REFER TO DETAILS FOR AUDIO/VISUAL WALLPLATE DETAILS AND REQUIREMENTS. AUDIO / VISUAL DEVICE, FLOOR MOUNTED

> MOUNT OUTLET IN FLOOR BOX PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO THE ELECTRICAL PLANS AND SPECIFICATIONS FOR FLOOR BOX DETAILS, UNO. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.

TOUCHSCREEN PANEL

PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX AT EACH LOCATION UNO. PROVIDE A 1" CONDUIT ROUTED BETWEEN BACK BOX AND NEAREST CABLE PATHWAY UNO. PROVIDE THE TOUCHSCREEN MANUFACTURERS BACK BOX TO ELECTRICAL CONTRACTOR FOR INSTALĻATION UNO.

PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX AT EACH LOCATION UNO. 2. PROVIDE A 1" CONDUIT ROUTED BETWEEN BACK BOX AND NEAREST CABLE PATHWAY UNO.

NO COORDINATION NOTE:

ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT AND BACKBOX REQUIREMENTS AND EXACT LOCATIONS WITH A/V CONTRACTOR PRIOR TO PROCUREMENT. PTXX PROJECTOR, CEILING MOUNTED PROJECTOR, CEILING MOUNTED

AV COORDINATION NOTE:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT AND BACKBOX REQUIREMENTS

1. PROCLIREMENT. AND EXACT LOCATIONS WITH A/V CONTRACTOR PRIOR TO PROCUREMENT.

WP = WEATHERPROOF, OUTDOOR RATED ACCESS POINT PE = NON-METALLIC PROTECTIVE ENCLOSURE

VIDEO MONITOR OUTLET, CEILING MOUNTED

TAGS AND CALLOUT SYMBOLS

SECTION CALLOUT DETAIL CALLOUT SECTION NUMBER X \— DETAIL NUMBER XXXXX/ → SHEET NUMBER XXXXX/ SHEET NUMBER **REVISION CALLOUT** KEYNOTE CALLOUT 3/4" AC GRADE FIRE INDICATES PANELBOARD. DISTRIBUTION SWITCH-BOARD OR RESISTANT PLYWOOD DISTRIBUTION PANELBOARD TO 9'-0" AFF CABLE TRAY PATHWAYS

> -INDICATES HEIGHT OF —INDICATES HEIGHT OF CABLE TRAY CABLE TRAY -INDICATES WIDTH OF -INDICATES WIDTH OF CABLE TRAY CABLE TRAY J-HOOK PATHWAYS

DEVICE NOTES: REFER TO DETAILS FOR MOUNTING REQUIREMENTS.

< X >

< R > | EXISTING COMPLE < RR > EXISTING EXISTING < NEX > | NEW DE\

MISCELLANEOUS JUNCTION BOX, FLOOR-MOUNTED JUNCTION BOX, WALL-MOUNTED JUNCTION BOX, CEILING-MOUNTED TELECOMMUNICATIONS BONDING - -

FRONT	FLOOR-MOUNTED TWO-POST EQUIPMENT RACK	FRONT	FLOOR-MOUNTED EQUIPMENT/SERVER ENCLOSURE
FRONT	WALL-MOUNTED EQUIPMENT RACK	FRONT	FLOOR-MOUNTED FOUR-POST EQUIPMENT RACK
NOTES:			

TELECOMMUNICATIONS SYSTEM — VV | DATA OLITLET WALL MOLINTED | — VV | DATA OLITLET WALL MOLINTED

	▼ xx	DATA OUTLET, WALL MOUNTED	▼ XX	DATA OUTLET, WALL MOUNTI
	RING AT 2. PROVID	<u>res:</u> E A 4-11/16" SQUARE BY 2-1/8" DEE E EACH LOCATION, UNO. E A 1" CONDUIT ROUTED BETWEEN AY, UNO.		
	▼ xx	DATA OUTLET, FLOOR MOUNTED	▼ xx	DATA OUTLET, FURNITURE MOUNTED
	DEVICE NO	TES:		

. MOUNT OUTLET IN FLOOR BOX PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO THE ELECTRICAL PLANS AND SPECIFICATIONS FOR FLOOR BOX DETAILS, UNO. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.

XX DATA OUTLET, CEILING MOUNTED <u>DEVICE NOTES:</u>
1. PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION

PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO. B. FLUSH MOUNT OUTLET FACEPLATE TO CEILING, UNO. XX = ATTRIBUTE

(NO SUBSCRIPT) = (1) DATA 2 = (2) DATA3 = (3) DATA4 = (4) DATA5 = (5) DATA6 = (6) DATAAL = ANALOG VOICE LINE

CABINET INFORMATION.

ATM = AUTOMATIC TELLER MACHINE DS = DIGITAL SIGNAGE E = ELEVATOR PHONE EP = EMERGENCY ANALOG VOICE LINE H = HOUSE PHONE POS = POINT OF SALE LOCATION TC = TIME CLOCK

W = WALL PHONE XX DATA OUTLE MOUNTED DATA OUTLET, CEILING XX | DATA OUTLI WIRELESS DROP INSTALLATION NOTE:

FOR ALL WIRELESS DATA DROPS. THE CONTRACTOR SHALL PROVIDE CABLING TO THE LOCATION INDICATED AND TO THE EXTENT THAT IT DOES NOT EXCEED THE EIA/TIA DISTANCE LIMITATIONS, PROVIDE A 25' SERVICE LOOP. CABLING SHALL BE TERMINATED ONTO JACKS. JACKS SHALL BE MOUNTED IN A PLENUM RATED SURFACE MOUNTED BACKBOX. CONTRACTOR SHALL LABEL CABLE AND DROP. DROPS SHALL BE BAGGED FOR PROTECTION UNTIL READY TO SURVEY AND DEPLOY ACCESS POINTS. CONTRACTOR SHALL EXTEND SERVICE LOOP CABLING TO A LOCATION AS DIRECTED BY OWNER'S VENDOR.

WP = WEATHERPROOF, OUTDOOR RATED ACCESS POINT PE = NON-METALLIC PROTECTIVE ENCLOSURE

BACKBOARD - MOUNTED 1'-0" LADDER CABLE TRAY PATHWAYS

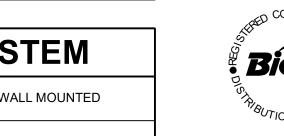
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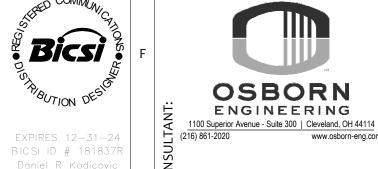
DEMOLITION						
G TO BE REMOVED ETE TO SOURCE	< RD >	EXISTING AT NEW LOCATION				
G TO BE RELOCATED	< RED >	REMOVE EXISTING DEVICE AND CABLING, EXISTING BACKBOX TO REMAIN				
G TO REMAIN		CONDUIT AND CABLE TO BE DEMOLISHED				
VICE IN EXISTING BACKBOX	[][[]	EQUIPMENT TO BE DEMOLISHED				

XX = DEVICE DESCRIPTION SFF = STRUCTURED FURNITURE FEED

EQUIPMENT RACKS AND CABINETS

	FRONT ☆	FLOOR-MOUNTED TWO-POST EQUIPMENT RACK		FLOOR-MOUNTED EQUIPMENT/SERVER ENCLOSURE	
	FRONT	WALL-MOUNTED EQUIPMENT RACK	FRONT	FLOOR-MOUNTED FOUR-POS' EQUIPMENT RACK	
	NOTES: 1. REFER TO ENLARGED FLOOR PLANS AND DETAILS FOR SPECIFIC EQUIPMENT RACK AND				





PROJECT NO

2203-2

PROJECT NO 2203-2 DRAWN BY DRK CHECKED BY AMW 07/12/23

TECHNOLOGY AND NOTES

SCALE: 12" = 1'-0"