



## IDEA PUBLIC SCHOOLS BOARD OF DIRECTORS 2023

**COLLIN SEWELL** ED RIVERA RYAN VAUGHAN **REBA CARDENAS McNAIR** DAVID EARL ERICH HOLMSTEN MICHAEL ADAMS GARY LINDGREN THERESA BARRERA-SHAW NANETTE COCERO

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# **IDEA PUBLIC SCHOOLS** Public Schools IDEA CARVER - SAFETY & SECURITY UPGRADES - CARVER ACADEMY

217 ROBINSON PLACE SAN ANTONIO, TX 78202

## **ISSUE FOR BID**

08/28/2023



CHAIR VICE-CHAIR & TREASURER SECRETARY MEMBER MEMBER MEMBER MEMBER MEMBER MEMBER MEMBER

OWNER **IDEA PUBLIC SCHOOLS** 2155 W. PIKE BLVD. WESLACO, TX 78596 T 956-337-8000

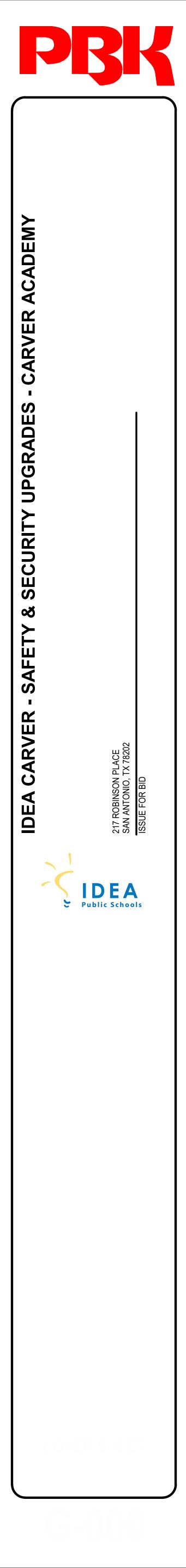
ARCHITECT **PBK ARCHITECTS** 610 NW LOOP 410 Ste 400 SAN ANTONIO, TX 78216 T 210-829-0123

ADMINISTRATION

MICHAEL BURKE DAVID EARL NICOLE MCALISTER DEBORAH RIFFENBURG DAVID ROBINSON ROSE MARY SLAGLE YAIRY MENDEZ

**OWNER'S REPRESENTATIVE** PSMI 1822 W. BRAKER LANE, #81734 AUSTIN, TX 78708

MEMBER
MEMBER



## SHEET INDEX

### ARCHITECTURAL GENERAL G-000 G-002 COVER SHEET GENERAL PROJECT INFORMATION

AS101 ARCHITECTURAL SITE PLAN AS101.1 ENLARGED ARCHITECTURAL SITE PLAN AS101.2 ENLARGED ARCHITECTURAL SITE PLAN





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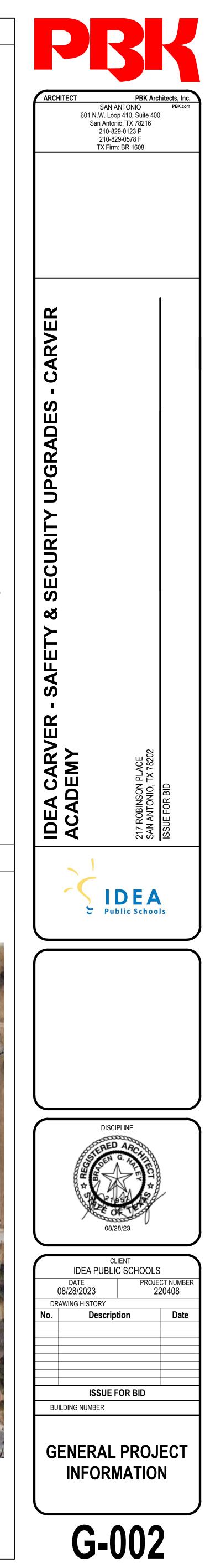
REFER T	REVIA					۱			
					ND KEYS	)			
REFER D		AND LEGENDS FOR PLINES FOR ADDIT		-					
A			FG	finish group		PG	paint grade	TE	I
ABV ACOUS ACT	above acoustical acoustical ceiling ti	lo	FH FHC FIN	fire hydrant fire hose cabine finish	et	PLAM PLAS PLYWD	plastic laminate plaster plywood	TE TH TH	K thick
AD AD	area drain adjustable		FLR FLUOR	floor fluorescent		PR PT	pair paint	TO TY	top of
AFF	above finished floo alternate	r	FT FUR	foot or feet furring		PTD	painted	U	r typicai
ALT	aluminum		G	lunng		R R	riser	UC	undercut FIN unfinished
ARCH	architect		G GAL GALV	gallon galvanized		RAD RCP	radius reflected ceiling plan	UN UO	O unless noted otherwise
B B.O.	bottom of		GB GC	grab bar general contrac	tor	RD RE	roof drain refer	UT	
BALC BD	balcony board		GL GND	glass ground		REF	refrigerator reinforced	V VC	T vinyl compostion tile
BET BLDG	between building		GWB GYP	gypsum board gypsum		REQD	required resilient	VE VE	RT vertical
BLKG BLW	blocking below		Н	gypsum		RM	room	VTI VM	R vent termination pipe
BM BOT	beam bottom		H.W.H. HC	hot water heate handicapped	r	S RO	rough opening	W	
BRKT	bracket bulkhead		HDWD HDWR	hardwood hardware		RTU S	root top unit (mech) south	W W/	west with
BUR	built up roof		HM HORIZ	hollow metal horizontal		SAFB SC	sound attenunation fiber		O without
C C.G.	corner guard		HR	hour height		SCHED SEAL	schedule sealant	WI	N window
CAB CALK	cabinet caulking		1	noight		SECT SF	section square foot	WS	S wetstack
CEM	cement		ID INCAN	inner diameter incandescent		SHT SIM	sheet similar	WT	
CJ CLG	control joint ceiling		INSUL	insulation		SPEC SQ	specification		
CLOS	closet clear		J	Interior		SQ SS STD	square stainless steel standard		
CO	cased opening		JAN	janitor		STL	steel		
COL	column concrete		JST JT	joist joint		STOR STRUCT	storage structural		
CONT CPT	continous carpet		L			SUSP SYM	suspended symmetrical		
CT CTR	ceramic tile center		LAM LAV	laminate lavatory		Т			
D			LB(S) LDG	pounds landing		T T&G	tread tongue & groove		
DBL DET	double detail		LT	light					
DIA DIM	diameter dimension		M MAX	maximun		PR		<b>GRAPHIC</b>	REFERENCES
DN DR	down door		MECH MEMB	mechanical membrane					
DS DW	down spout dishwasher		MFR MIN	manufacturer minimum				SHEE NUME	
DWG	drawing		MISC MO	miscellaneous masonry openir	ng				
E	east		MTD MTL	mounted metal	-		A-201A1		
EA EIFS	each exterior insulation	& finish system	N					FLIP \$	<u>SHEET</u> (Schedules)
ELEC	electric(al) elevation		N NIC	north not in contract				BUILD	DING AREA
EMER	emergency enclosure		NO NOM	number nominal					<u>L REFERENCE</u> T <u>SERIES TYPE</u>
EOS	edge of slab equal		NTS	not to scale		DIO		SUBDISCIPLINE 0	GENERAL
EQUIP	equipment existing to remain		0 0.P.	overflow pipe		G	GENERAL r	ARCH SITE 1 DEMO 2	PLANS: (Site, Floor, Finish, Graphics) CEILING
EW EXP. JT.	each way expansion joint		OA OC	overall on center		C CA SA	CIVIL I SPORTS CIVIL L	INTERIOR 3 LIFE SAFETY 4	ROOF ENLARGED PLANS ELEVATIONS (Exterior & Interior)
EXST	existing		OD OFF	outside diamete	er	S L	STRUCTURAL F	S SILE	SECTIONS: (Bldg & Wall) BLDG DETAILS
F F.O.	face of		OH OPG	opposite hand		D A	ARCHITECTURAL	8 BOIFMENT	DIAGRAMS/COMPILED SCHEDULES: (Partition Types, Casework/Millwork,
FA	fire alarm		OPG	opening opposite		M E P	MECHANICAL ELECTRICAL PLUMBING	9	Door & Panel/Frame Types, Window Types) MISCELLANEOUS
FAP FD FE	fire annunciuator p floor drain	anei	P			T FS	TECHNOLOGY FOOD SERVICE		
FE	fire extinguisher fire extinguisher ca	binet	PART PERM	partition perimeter		AV TH	ACOUSTICAL THEATRICAL		
PRC		GRAPHI							
					PROJECT SYMBO				
	<u>PROJECT</u>	<u>SYMBOLS</u>					TVDE	CONSTRUCTION	I TYPE SYMBOLS
	<u>PROJECT</u>	<u>SYMBOLS</u>			ACT-1	<u>_s</u> —ceiling —ceiling			
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### VICINITY MAP

217 ROBINSON PLACE SAN ANTONIO, TX 78202

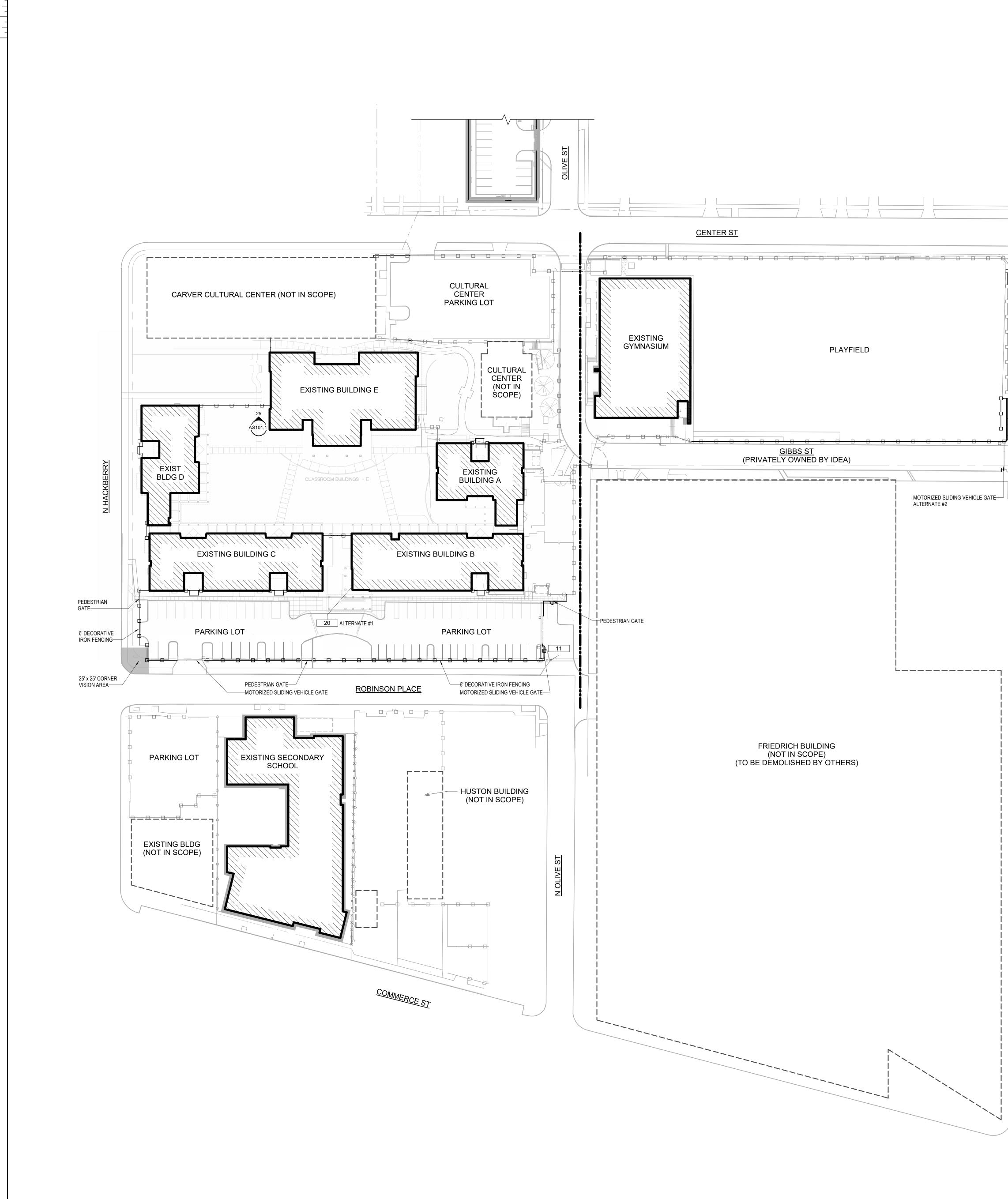




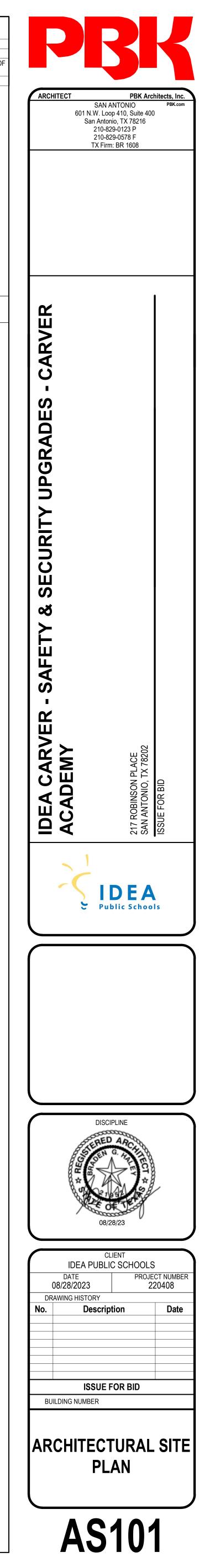
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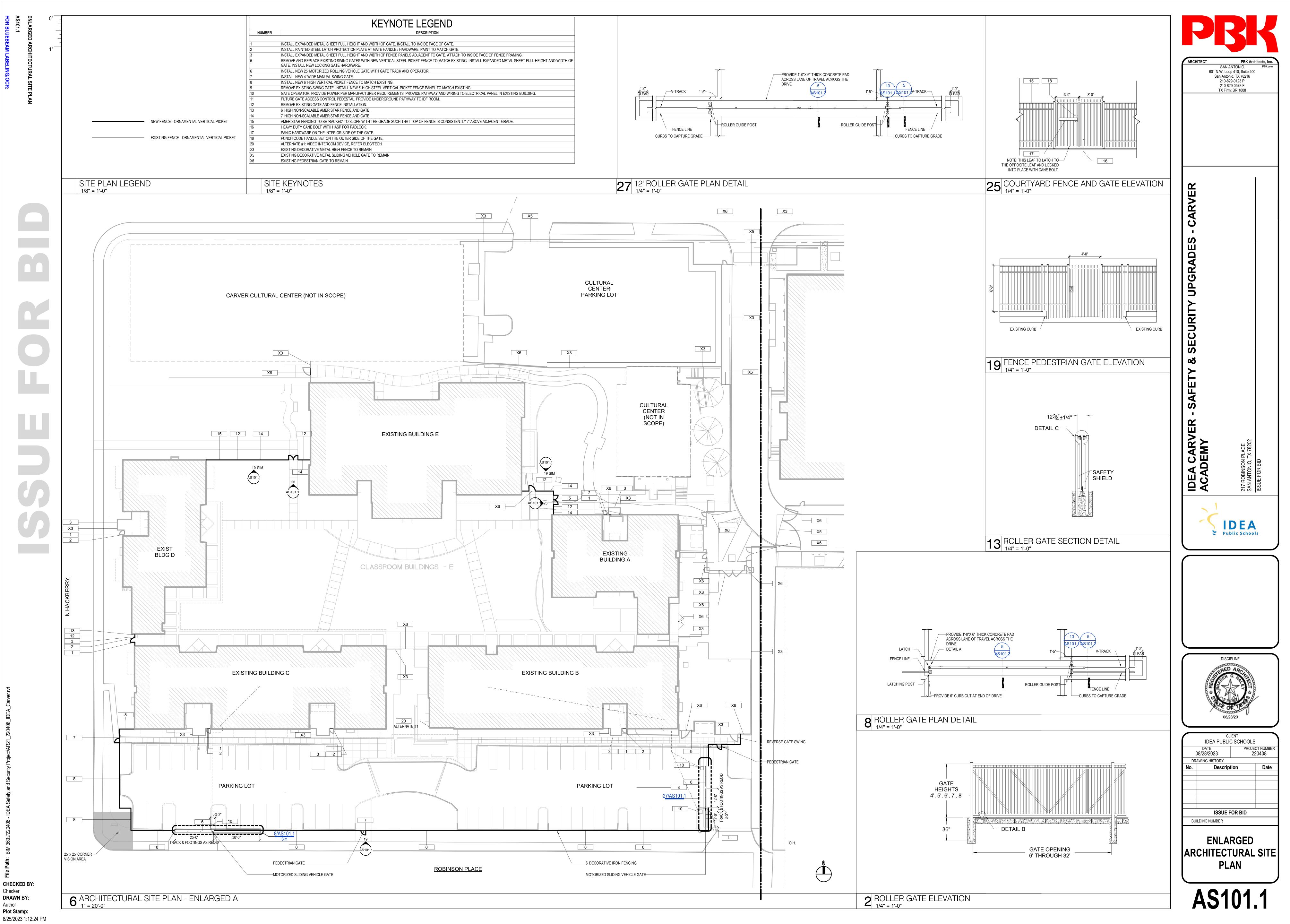
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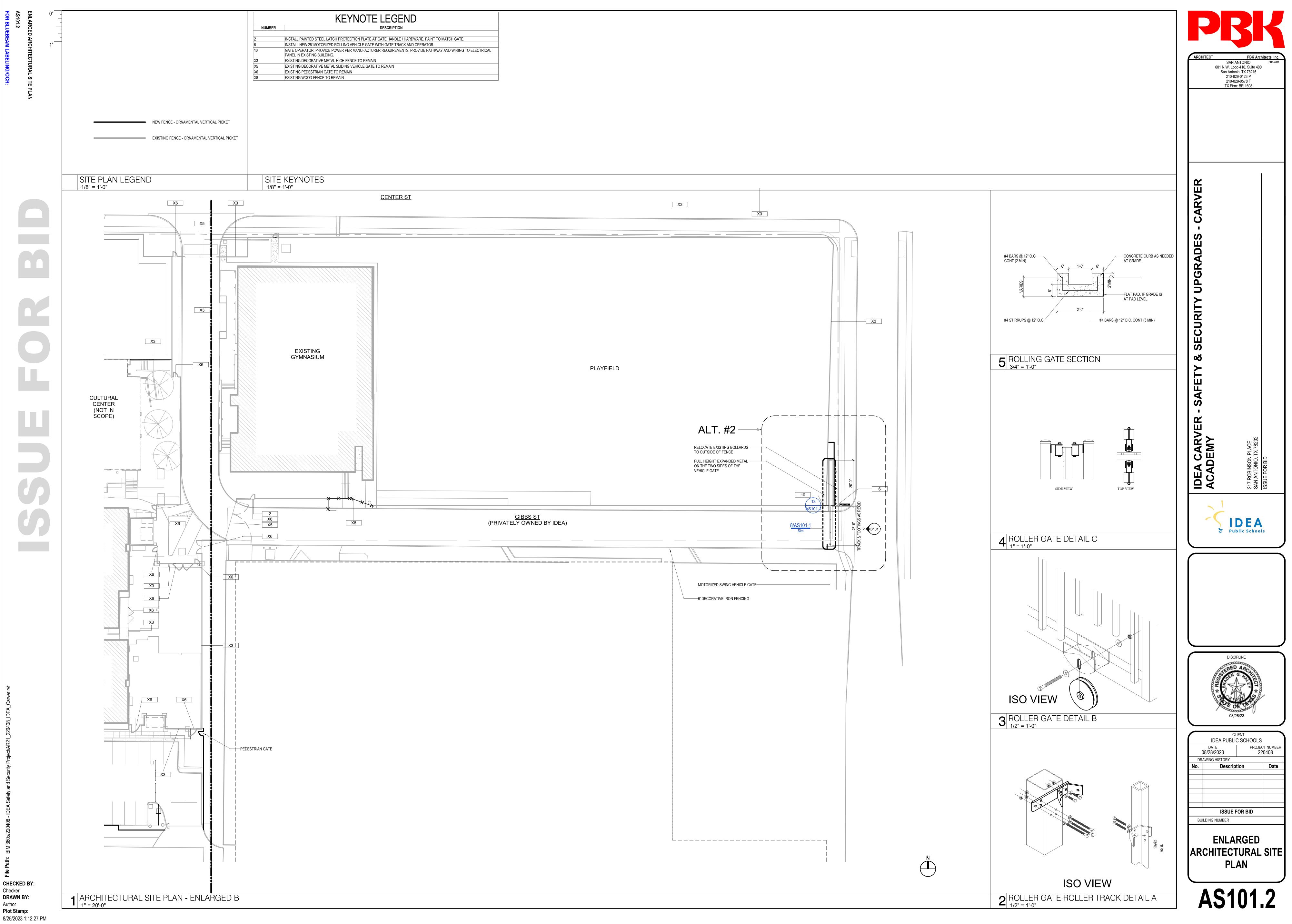


KEYNOTE LEGEND       NUMBER   Description
11 FUTURE GATE ACCESS CONTROL PEDESTAL. PROVIDE UNDERGROUND PATHWAY TO IDF ROOM.
20 ALTERNATE #1: VIDEO INTERCOM DEVICE, REFER ELEC/TECH
×—————————————————————————————————————
O-O-O CHAIN LINK FENCE
SITE PLAN LEGEND 1/8" = 1'-0"





Checker Author

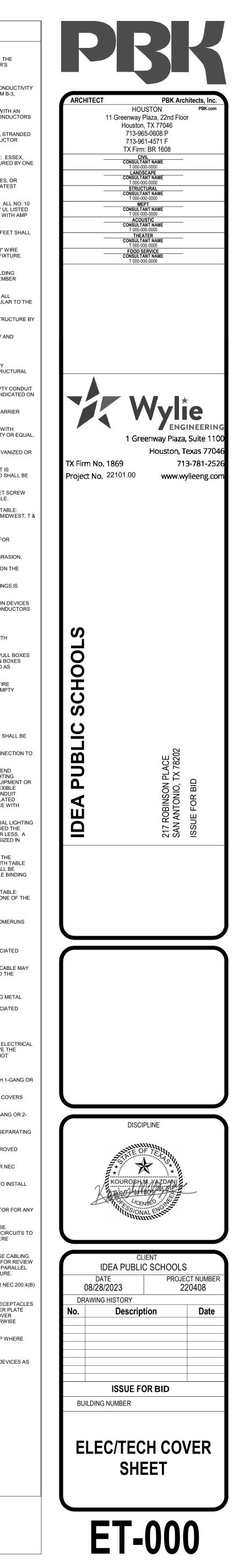


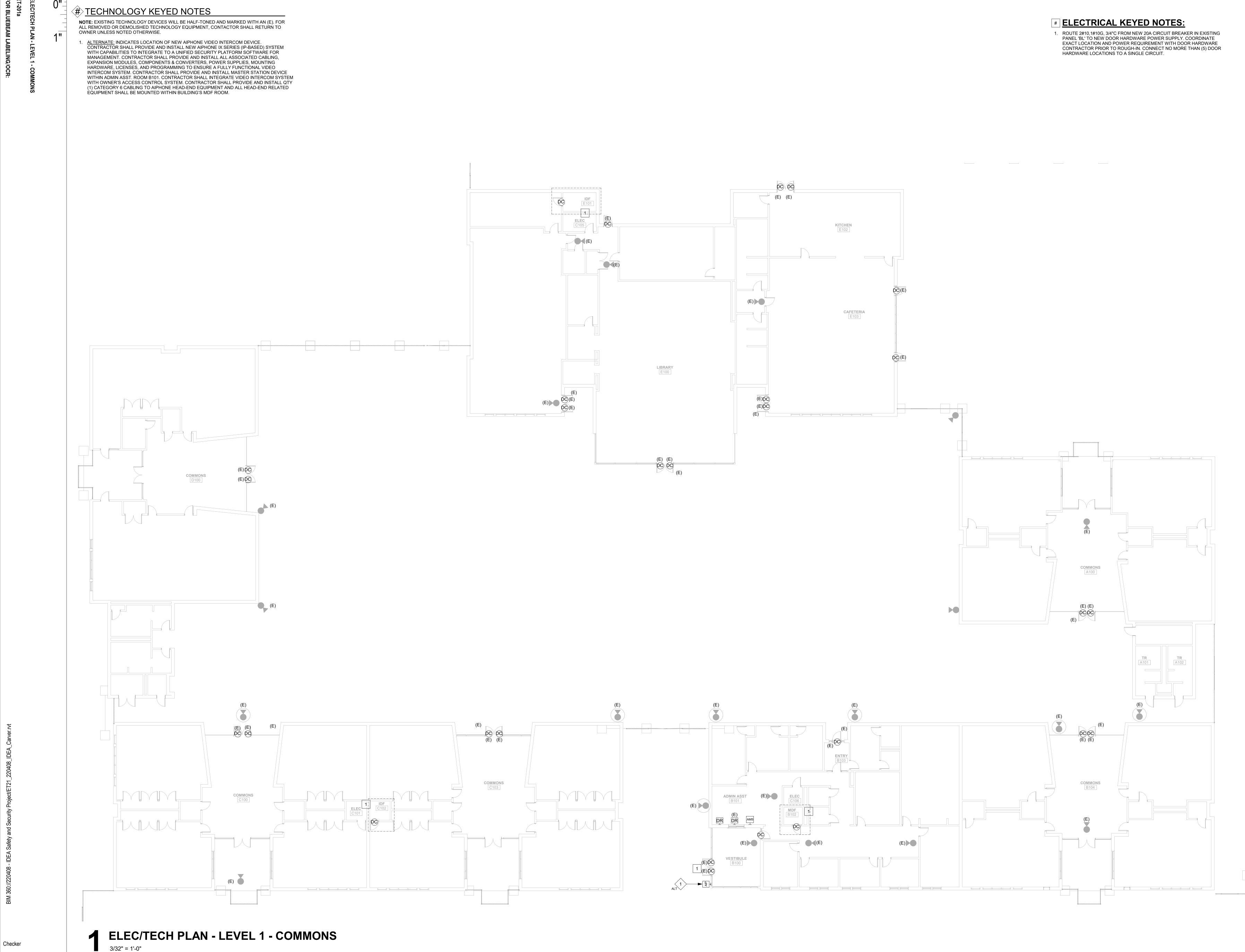
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	SECURITY GENERAL NOTES	TECHNOLOGY PLAN GENERAL NOTES	B TECHNOLOGY LEGEND	ELECTRICAL GENERAL NOTES	ELECTRICAL SPECIFICATIONS
	ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL) A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL). ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT. SLEEVES, AND	<ol> <li>ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AND VIDEO EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND 0N EMERGENCY POWER WHEN AVAILABLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL)</li> <li>CONTRACTOR SHALL COORDINATING WITH PBK TECHNOLOGY DEPARTMENT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE PROPOSED LOCATIONS.</li> </ol>	Og B       SYMBOL       DESCRIPTION         INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" EMT CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. SOME EXISTING BUILDINGS MAY REQUIRE SURFACE MOUNTED RACEWAY. ELECTRICAL CONTRACTOR	<ol> <li>FURNISH AND INSTALL ALL ITEMS, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO, MATERIALS, LABOR, SUPERVISIONS, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING/RIGGING, STORAGE, UTILITIES, AND ALL REQUIRED PERMITS AND LICENSES.</li> <li>DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT NECESSARILY REFLECT ALL WORK REQUIRED TO COMPLETE PROJECT. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT AS REQUIRED TO COMPLETE PROJECT. USIN INTENT AT NO ADDITIONAL COST TO [OWNER/OWNER &amp; TENANT/TENANT]. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION IN CASES OF DOUBT.</li> <li>WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS, AND ORDINANCES OF ALL FEDERAL, STATE, AND LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL ENFORCING AUTHORITY, THE LATTER SHALL RULE. ANY MODIFICATION RESULTING</li> </ol>	<ul> <li><u>CONDUCTORS</u></li> <li>ALL CONDUCTORS FURNISHED AND INSTALLED SHALL COMPLY WITH THE REQUIREMENTS AND LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE (NESC), STANDARDS OF THE UNDERWRITER'S LABORATORIES (UL), NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).</li> <li>ALL COPPER FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, HAVING A CONDUCTIV OF NOT LESS THAN 98% OF THAT OF PURE COPPER, AND MEETING BEFORE STRANDING, THE REQUIREMENTS OF ASTM B-3, "STANDARD SPECIFICATIONS FOR SOFT OR ANNEALED COPPER WIRE FOR ELECTRICAL PURPOSES", LATEST EDITION.</li> <li>UNLESS OTHERWISE SPECIFIED OR NOTES, ALL CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID COPPER THHN WITH AN INSULATING OUTER JACKET SUITABLE FOR CONDUCTOR TEMPERATURES OF 90°C, EXCEPT FOR NEC CLASS 1, 2, 3, CONDUCTOR WHICH MAYBE STRANDED IF TERMINATED AS REQUIRED HEREIN.</li> </ul>
	PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.	<ol> <li>THE PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, BACK BOXES, AND OTHER RACEWAY REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR THE SCS SHALL BE THE RESPONSIBILITY OF THE SCS INSTALLER.</li> <li>THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT</li> </ol>	TO PROVIDE AND INSTALL RACEWAY AS SPECIFIED IN DIVISON 26. SYSTEM INSTALLER TO PROVIDE AND INSTALL A PLASTIC PROTECTIVE BUSHING, ON EACH CONDUIT STUB-OUT, TO PREVENT CABLE DAMAGE. INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER	<ul> <li>THEREFROM SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE THEIR APPROVAL BEFORE PROCEEDING. SHOULD THE REQUIREMENTS OF THE CONTRACT DUCMENTS EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE PROVIDED THEY ARE NOT IN CONFLICT WITH THOSE CODES.</li> <li>4. AREAS OF THE EXISTING BUILDING WILL BE OCCUPIED DURING CONSTRUCTION OF THIS PROJECT. NOISY, DUSTY, AND/OR OTHER CONSTRUCTION OPERATIONS REQUIRED FOR WORK WHICH DISTURB OR CAUSE COMPLAINTS BY THE EXISTING BUILDING OCCUPANTS SHALL NOT BE ACCEPTABLE. ALL AFTER-HOUR OR OVERTIME WORK REQUIRED BY THE CONTRACTOR TO AVOID DISRUPTION OF EXISTING OCCUPANTS WILL BE PROVIDED AT NO COST TO THE OWNER/TENANT. THE CONTRACTOR SHALL USE CONSTRUCTION METHODS AND MATERIALS WHICH SHALL NOT ADVERSELY AFFECT THE INDOOR AIR QUALITY OF THE EXISTING OCCUPIED AREAS.</li> </ul>	<ol> <li>UNLESS OTHERWISE SPECIFIED OR NOTED, ALL CONDUCTORS NO. 8 AND LARGER SHALL BE THWN-2/THHN, 600 VOLT, STRANDI WITH A THERMOPLASTIC INSULATING COMPOUND AND AN OUTER JACKET (THWN-2/THHN ONLY) SUITABLE FOR CONDUCTOR TEMPERATURES OF 90°C. STRANDED WIRE SHALL BE TERMINATED AS SPECIFIED HEREIN.</li> <li>IF IT COMPLIES WITH THESE SPECIFICATIONS, THE FOLLOWING CONDUCTOR MANUFACTURERS WILL BE ACCEPTABLE: ESSEX, GENERAL CABLE, ENCORE, SOUTHWIRE OR APPROVED EQUAL. CABLE LUGS AND TERMINATION FITTINGS MANUFACTURED BY COF THE FOLLOWING WILL BE ACCEPTABLE: BLACKBURN, BURNDY, IDEAL, THOMAS &amp; BETTS OR APPROVED EQUAL.</li> <li>NO SPLICES OR TAPS SHALL BE MADE IN ANY CONDUCTOR EXCEPT IN OUTLET BOXES, JUNCTION BOXES, SPLICE BOXES, OR OTHER DEVICES AND EQUIPMENT IN EXPOSED AND ACCESSIBLE LOCATIONS APPROVED FOR THE PURPOSE BY THE LATEST EDITION OF THE NEC.</li> </ol>
6	ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4" PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.	<ul> <li>AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.</li> <li>5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.</li> <li>6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.</li> <li>7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN</li> </ul>	TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ELECTRICAL CONTRACTOR SHALL ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO ENSURE MINIMAL SWAY MOVEMENT.	<ol> <li>CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED. TENDER OF A PROPOSAL CONVEYS FULL CONTRACTOR AGREEMENT OF THE ITEMS AND CONDITIONS SPECIFIED AND/OR INDICATED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS, AND/OR REQUIRED BY THE NATURE OF THIS WORK.</li> <li>IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE GREATER AMOUNT OF TOTAL COST SHALL BE PRICED. BRING THE CONFLICT TO THE ATTENTION OF THE ENGINEER AND REQUEST DIRECTION.</li> <li>PRE-CONSTRUCTION</li> <li>BEFORE SUBMITTING A BID, IT WILL BE NECESSARY FOR EACH CONTRACTOR WHOSE WORK IS INVOLVED TO VISIT THE SITE AND ASCERTAIN FOR THEMSELVES THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN THEIR FINAL PRICE. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS REQUIREMENT</li> </ol>	<ol> <li>ALL NO. 10 AWG AND SMALLER SOLID CONDUCTORS SHALL BE SPLICED WITH PRE-INSULATED SPRING CONNECTORS. ALL NO. AWG AND SMALLER STRANDED CONDUCTORS FOR NEC CLASS 1, 2, 3 WIRING SHALL BE TERMINATED WITH AMP 'PIDG' UL LISTE PREMIUM GRADE INSULATED FORK CONNECTORS, OR APPROVED EQUAL, AND SHALL BE SPLICES IN A JUNCTION BOX WITH AMI "PLASTIC-GRIP" UL LISTED STANDARD GRADE INSULATED BUTT SPLICES, OR APPROVED EQUAL.</li> <li>ALL 120 VOLT, 20 AMP HOME RUNS LONGER THAN 50 FEET AND ALL 277 VOLT, 20 AMP HOME RUNS LONGER THAN 100 FEET SHA BE #10 MINIMUM.</li> <li>CONDUCTORS SHALL BE TWISTED AND TERMINATED WITH APPROVED WIRE NUT CONNECTION. THE USE OF "PUSH-IN" WIRE CONNECTORS ARE ACCEPTABLE ONLY WHEN PROVIDED BY MANUFACTURER AND PRE-TERMINATED WITHIN A LIGHT FIXTURE.</li> </ol>
	<ul> <li>NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.</li> <li>ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.</li> <li>ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.</li> <li>ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.</li> </ul>	<ol> <li>ALL INDUSTRY STANDARD CATEGORY 6A CABLING PRACTICES MUST BE FOLLOWED FOR ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.</li> <li>ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.</li> <li>ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS.</li> </ol>	SUDA       INDICATES THE LOCATION OF A FLOOR MOUNTED TECHNOLOGY OUTLET. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A FLOOR BOX WITH (2) 2" CONDUIT ROUTED FROM THE FLOOR BOX TO THE NEAREST ACCESSABLE CEILING. THE '#' SHALL BE REPLACED WITH NUMERIC TEXT THAT IDENTIFIES THE TOTAL NUMBER OF CATEGORY 6, NETWORK CABLES THAT ARE TO BE INSTALLED AT THE TECHNOLOGY OUTLET LOCATION. CONTRACTOR TO PROVIDE AND INSTALL CATEGORY 6 NETWORK CABLES, AND ALL CONNECTIVITY AS SPECIFIED IN DIVISION 27.	<ul> <li>SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.</li> <li>2. THIS CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR THEIR WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS, LICENSES AND INSPECTIONS.</li> <li>C. DEMOLITION</li> <li>1. ALL EXISTING CONDUIT AND CONDUCTORS SERVING THE AREA UNDER CONTRACT NOT TO BE RE-USED SHALL BE TERMINATED AT LAST PORTION OF CIRCUIT REQUIRING ENERGIZATION BEFORE THE DEMOLITION AREA. IF A CIRCUIT SERVICES ONLY THE DEMOLITION AREA, REMOVE ALL CONDUITS AND CONDUCTORS BACK TO THE PANELBOARD OR BASE BUILDING GRID BOX AND DE-ENERGIZE THE CIRCUIT BREAKER, MAKING IT A SPARE. NOTE "SPARE" OR "GRID-SPARE" ACCORDINGLY ON PANELBOARD DIRECTORY.</li> <li>2. REMOVE ALL ABANDONED "LOW VOLTAGE" CABLING INCLUDING FIRE ALARM CABLING, TELEPHONE/DATA CABLING, AND SECURITY CABLING. REMOVE ALL EXISTING CONDUIT AND WIRING THAT IS SUPPORTED FROM THE CEILING GRID. REMOVE ALL EXISTING UNUSED ELECTRICAL EQUIPMENT, CONTROLS, CONDUIT, HANGERS, WIRING, ETC.</li> </ul>	<ol> <li>CONDUIT</li> <li>ALL CONDUITS SHALL BE CONCEALED IN PIPE CHASES, WALLS, FURRED SPACED, OR ABOVE THE CEILING OF THE BUILDING UNLESS OTHERWISE INDICATED. CONDUIT SHALL NOT BE EMBEDDED IN ANY STRUCTURAL SLAB OR STRUCTURAL MEMBER UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.</li> <li>CONDUIT MAY BE RUN EXPOSED IN MECHANICAL ROOMS, DUCT AND PIPING CHASES, BUT ONLY WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE RUN IN THE NEATEST, MOST INCONSPICUOUS MANNER, AND PARALLEL OR PERPENDICULAR TO T BUILDING LINES.</li> <li>ALL CONDUIT AND SURFACE RACEWAYS SHALL BE ADEQUATELY AND PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE MEANS RECOMMENDED BY THE MANUFACTURER, OR BY THE USE OF HANGER RODS OR CLAMPS.</li> <li>ALL CONDUITS THROUGHOUT THE BUILDING SHALL BE SUPPORTED AT MINIMUM 10 FEET ON CENTERS HORIZONTALLY AND SUPPORTED 6 FEET ON CENTERS VERTICALLY. SUPPORT CONDUIT WITHIN 3' OF ALL CONNECTIONS TO BOXES.</li> <li>CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, OR EQUIPMENT.</li> </ol>
	<ol> <li>CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD- END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.</li> <li>CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.</li> <li>CONTRACTOR SHALL INTEGRATE THE INSTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.</li> <li>CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.</li> </ol>	<ul> <li>LABEL ALL CABLES PER TS DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND PBK.</li> <li>12. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.</li> <li>13. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.</li> <li>14. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED NOTED OTHERWISE.</li> <li>15. TECHNOLOGY CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH ALL CMU AND RATED WALLS. ALL</li> </ul>	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A NETWORK CONNECTION. THE '#' SHALL BE REPLACED WITH NUMERIC TEXT THAT IDENTIFIES THE TOTAL NUMBER OF CATEGORY 6, NETWORK CABLES THAT ARE TO BE INSTALLED AT THE TECHNOLOGY OUTLET LOCATION. CONTRACTOR TO PROVIDE AND INSTALL CATEGORY 6 NETWORK CABLES, AND ALL CONNECTIVITY AS SPECIFIED IN DIVISION 27. ALL FACEPLATES PROVIDED SHALL CONTAIN A MINIMUM 4-PORTS AND SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE THE NUMBER OF CIRCUITS BEING INSTALLED AT THIS TECHNOLOGY OUTLET LOCATION.	<ol> <li>RELOCATE AND RECONNECT ACTIVE PORTIONS OF THE ELECTRICAL SYSTEM OUTSIDE OF THE SCOPE OF DEMOLITION, AS REQUIRED TO MAINTAIN A COMPLETE AND OPERATING SYSTEM THAT IS FUNCTIONALLY EQUIVALENT TO THE PRE-EXISTING SYSTEM PRIOR TO DEMOLITION.</li> <li>ELECTRICAL PLANS INDICATE FINAL WIRING DEVICE, DATA/COMMUNICATIONS OUTLET AND SWITCH LOCATIONS. ALL OTHER EXISTING WIRING DEVICES, DATA/COMMUNICATIONS OUTLETS AND SWITCHES SHALL BE REMOVED AND WALLS SHALL BE PATCHED, UNLESS OUTSIDE OF SCOPE OR NOTED AS (E).</li> <li>ALL EXISTING JUNCTION BOXES, OUTLETS, PULL BOXES, ETC., LOCATED ABOVE NON-ACCESSIBLE CEILINGS INSTALLED UNDER THIS TENANT IMPROVEMENT PROJECT SHALL BE RELOCATED AS NECESSARY TO A LOCATION ABOVE AN ACCESSIBLE CEILING. WHERE EXISTING JUNCTION BOXES ARE NOT PRACTICAL TO RE-LOCATE, ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER PRIOR TO SUBSTANTIAL START OF CONSTRUCTION.</li> <li>REMOVE ALL EXISTING UNUSED ELECTRICAL EQUIPMENT, CONTROLS, CONDUIT, HANGERS, WIRING, ETC FROM ABOVE CEILINGS.</li> <li>REFER TO ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURES TO BE RELOCATED. RELOCATE AND RECIRCUIT FIXTURES AS SHOWN. PROVIDE ADDITIONAL FIXTURES TO MATCH FIXTURE TO BE RELOCATED. RELOCATE AND RECIRCUIT FIXTURES AS SHOWN. PROVIDE ADDITIONAL FIXTURES TO MATCH FIXTURE OF DEMOLYCE. CONVENTIONS OF THE ADDITIONS.</li> </ol>	<ol> <li>THE LOAD AND SPACING ON EACH HANGER AND/OR INSERT SHALL NOT EXCEED THE SAFE ALLOWABLE LOAD FOR ANY COMPONENT OF THE SUPPORT SYSTEM, INCLUDING THE CONCRETE WHICH HOLDS THE INSERTS. CONFIRM WITH STRUCTURA ENGINEER WHERE REQUIRED.</li> <li>ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT, OR SURFACE METAL RACEWAYS. IN ADDITION, EMPTY COND OR SURFACE METAL RACEWAYS SHALL BE INSTALLED FOR THE VOICE/DATA SYSTEM, AND FOR OTHER SYSTEMS AS INDICATED THE DRAWINGS.</li> <li>GALVANIZED RIGID METAL CONDUIT (RMC) SHALL BE USED WHERE CONDUIT IS IN A CONCRETE SLAB WITH A VAPOR BARRIER (PROVIDE TAPE WRAP), WHERE SUBJECT TO PHYSICAL DAMAGE, OR IN SIZES GREATER THAN 4" IN DIAMETER.</li> <li>RMC CONDUIT SHALL BE JOINED WITH THREADED COUPLINGS AND SHALL BE SECURED IN CABINETS, OUTLETS, ETC., WITH DOUBLE LOCK NUTS AND SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AS MANUFACTURED BY STEEL CITY OR EQI COUPLINGS, ETC., SHALL BE THREADED.</li> <li>RIGID STEEL CONDUIT SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUT. FULL LENGTHS OF PIPE SHALL HAVE GALVANIZED ZINC-COATED THREADS ON BOTH ENDS.</li> <li>EMT MAY BE USED INDOORS WHERE CONCEALED OR EXPOSED ABOVE GRADE, EXCEPT WHERE RIGID STEEL CONDUIT IS REQUIRED. ELECTRICAL METALLIC TUBING SHALL BE MADE OF THIN-WALL STEEL TUBING UP TO 4" CONDUIT SIZE, AND SHALL BE</li> </ol>
	5. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE. SECURITY SYSTEMS LEGEND	<ul> <li>TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.</li> <li>16. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.</li> <li>17. CONTRACTOR SHALL ROUTE ALL FIBER/VOICE/DATA AND CATV CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS ENTER INTO ALL ROOMS ABOVE</li> </ul>	'AP' DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A WIRELESS ACCESS POINT CONNECTION. CONTRACTOR TO PROVIDE AND INSTALL (2) CATEGORY 6 NETWORK CABLES, AND ALL CONNECTIVITY AS SPECIFIED IN DIVISION 27. PROVIDE (2) 10' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PATCH CABLE TO BE INSTALLED AND ROUTED BY OWNER.	<ol> <li>REFER TO ARCHITECTURAL PLANS FOR WALL AND PARTITIONS TO BE REMOVED. CONTRACTOR SHALL PROVIDE ELECTRICAL DEMOLITION AS PREVIOUSLY DESCRIBED.</li> <li>REFER TO ARCHITECTURAL DRAWINGS FOR RECEPTACLES AND VOICE/DATA OUTLETS TO BE REMOVED. FIELD VERIFY EXISTING CONDITIONS.</li> <li>CONTRACTOR SHALL REMOVE AND REPLACE ALL WIRING DEVICES NOT CONFORMING TO BUILDING STANDARDS.</li> <li>REMOVE ALL EXISTING CONDUIT AND WIRING THAT IS SUPPORTED FROM THE CEILING GRID VIA CADDY CLIPS, ETC. AND REPLACE EXISTING CONDUIT THAT IS TO BE REUTILIZED WITH MATCHING CONDUIT AND WIRING PROPERLY SUPPORTED FROM STRUCTURE ABOVE.</li> </ol>	<ul> <li>GALVANIZED INSIDE AND OUTSIDE.</li> <li>12. EMT SHALL BE JOINED WITH STEEL SET SCREW TYPE COUPLINGS AND CONDUITS SHALL BE SECURED WITH STEEL SET SCREW TYPE CONNECTORS AT PANELS, JUNCTION BOXES, OUTLETS, ETC. DIE-CAST TYPE CONNECTORS ARE NOT ACCEPTABLE.</li> <li>13. IF IT COMPLIES WITH THESE SPECIFICATIONS, CONDUIT MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: ALLIED, REPUBLIC, WHEATLAND. CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: MIDWEST B.</li> <li><u>CONDUIT INSTALLATION</u></li> <li>1. ALL HORIZONTAL RUNS OF BRANCH CIRCUITS ABOVE CEILING LINE SHALL BE EMT CONDUIT. RE: MC CABLE SECTION FOR</li> </ul>
	SYMBOL         DESCRIPTION           INDICATES THE LOCATION OF AN INTERIOR VIDEO SURVEILLANCE CAMERA. ALL CAMERAS SHALL POE, IP BASED CAMERAS UNLESS NOTED OTHERWISE. CABLING CONTRACTOR SHALL PROVIDE AND INSTALL NEW (1) CATEGORY6 CABLE TO EACH LOCATION SHOWN. CONTRACTOR SHALL ROUTE CABLING TO NEAREST MDF/IDF NETWORK RACK, NOT EXCEEDING 300FT. CONTRACTOR SHALL PROVIDE AND PROGRAM ALL NECESSARY LICENSING.	<ul> <li>THE MAIN DOORWAY.</li> <li>18. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.</li> <li>19. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM CABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT,</li> </ul>	'#MP'       INDICATES THE LOCATION OF A VIDEO PROJECTOR # TO BE REPLACED         '#MP'       WITH "C" OR "W". "C" INDICATES THAT THE DEVICE IS A CEILING         MOUNTED DEVICE AND "W" INDICATES IT IS TO BE WALL MOUNTED.         CONTRACTOR TO PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA         CABLE, ALL AUDIO/VIDEO CABLING, AUDIO/VIDEO COMPONENTS AND         EQUIPMENT AS SPECIFIED IN DIVISION 27.         INDICATES THE LOCATION OF A LED VIDEO DISPLAY. CONTRACTOR TO         PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA CABLE, ALL	<ol> <li>RE-SUPPORT AND/ RE-ROUTE ANY REMAINING PIPING OR DEVICES THAT WERE SUPPORTED BY DEMOLISHED WALLS.</li> <li>SUBMITTALS</li> <li>ALL EQUIPMENT AND MATERIAL TO BE FURNISHED AND INSTALLED ON THIS PROJECT SHALL BE UL OR ETL LISTED, IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION, AND SUITABLE FOR ITS INTENDED USE ON THIS PROJECT.</li> <li>THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL NEW EQUIPMENT, CONTROLS, DEVICES, AND FIXTURES TO BE PROVIDED. SUBMIT MINIMUM ELECTRONIC SUBMITTALS FOR APPROVAL.</li> <li>MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD CONDITION. THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES INDICATED ARE INTENDED TO IDENTIFY STANDARDS OF QUALITY AND PERFORMANCE NECESSARY FOR THE PROPER FUNCTIONING OF THE WORK. MATERIALS AND EQUIPMENT, WHICH ARE FOUND TO HAVE FACTORY DEFECTS SHALL BE REPLACED OR REPAIRED IN A MANNER ACCEPTABLE TO THE [OWNER/TENANT] AND ENGINEER AT NO</li> </ol>	<ol> <li>EXCEPTIONS.</li> <li>CONDUIT SHALL BE OF AMPLE SIZE TO PERMIT THE EASY INSERTION OR WITHDRAWAL OF CONDUCTORS WITHOUT ABRASION.</li> <li>CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE PERCENT FILL REQUIREMENTS OF THE NEC AND AS INDICATED ON THE DRAWINGS.</li> <li>GROUPING OF "HOME RUNS" IS ACCEPTABLE ONLY WHERE THE NUMBER OF CONDUCTORS INDICATED ON THE DRAWINGS IS MAINTAINED.</li> <li>NEC DE-RATING FACTORS ARE APPLIED BASED ON <u>FULL RATING</u> OF THE BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE FOR 20 AMP CIRCUITS, NOT MORE THAN NINE(9) - #12 THHN OR #10 THHN CURRENT CARRYING (PHASE &amp; NEUTRAL) CONDUCTOR SHALL BE INSTALLED IN EACH RACEWAY.</li> </ol>
	INDICATES THE LOCATION OF A WEATHER PROOF (IP66) RATED, EXTERIOR         SECURITY CAMERA. ALL CAMERAS SHALL POE, IP BASED CAMERAS UNLESS         NOTED OTHERWISE. CABLING CONTRACTOR SHALL PROVIDE AND INSTALL (1)         CATEGORY6 CABLE TO EACH LOCATION SHOWN. CONTRACTOR SHALL ROUTE         CABLING TO NEAREST MDF/IDF NETWORK RACK, NOT EXCEEDING 300FT.         CONTRACTOR SHALL PROVIDE AND PROGRAM ALL NECESSARY LICENSING.         WALL MOUNTED MOTION DETECTOR. MOUNT AT 12'-0" A.F.F.	<ul> <li>PIPING, OR DUCTWORK. PANDUIT J-MOD SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATION WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.</li> <li>20. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CABLING AND COMPONENTS TO FURNISH TWO (2) CATEGORY CABLES TO THE FIRE ALARM CONTROL PANEL AND ELEVATOR</li> </ul>	'LCD'       PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA CABLE, ALL         AUDIO/VIDEO CABLING, AUDIO/VIDEO COMPONENTS AND EQUIPMENT         AS SPECIFIED IN DIVISION 27.         'AV'         'AV'         INDICATES THAT THE DESIGNATED TECHNOLOGY OUTLET IS INTENDED         FOR AN AUDIO/VIDEO (A/V) INPUT. CONTRACTOR TO PROVIDE AND         INSTALL ONE (1) 1900 BOX WITH TWO (2) 1" CONDUITS ROUTED INTO         THE NEAREST ACCESSIBLE CEILING WITHIN THE SAME ROOM.	<ul> <li>ADDITIONAL COST TO THE [OWNER/TENANT].</li> <li>4. THE FOLLOWING SUBMITTAL DATA SHALL BE FURNISHED AND SHALL INCLUDE BUT NOT BE LIMITED TO: <ul> <li>A. EQUIPMENT AND MATERIALS SHOP DRAWINGS</li> <li>B. COORDINATION DRAWINGS</li> <li>C. RECORD DRAWINGS</li> <li>D. OPERATING AND MAINTENANCE MANUALS</li> <li>E. FIRE STOP MATERIALS AND DETAILS</li> </ul> </li> <li>E. PRE-CONSTRUCTION FUNCTIONAL TEST</li> <li>1. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL FUNCTIONALLY TEST ALL ELECTRICAL AND FIRE ALARM EQUIPMENT THAT IS EXISTING TO REMAIN OR RELOCATED IN THIS PROJECT. THE CONTRACTOR SHALL PROVIDE A WRITTEN DESCRIPTION OF ANY AND ALL DEFICIENCIES TO THE OWNER/TENANT. ANY DEFICIENCIES FOUND AFTER THE START OF</li> </ul>	<ol> <li>EMT CONDUIT SHALL NOT BE SMALLER THAN 1/2".</li> <li>WHERE CONDUIT OPENINGS ARE EXPOSED TO CONSTRUCTION DEBRIS, CONDUIT SHALL BE CAPPED OR PLUGGED WITH STANDARD ACCESSORIES AS SOON AS INSTALLATION IS COMPLETE.</li> <li>METAL CONDUIT FOR SIGNAL, COMMUNICATION, AND TEMPERATURE CONTROL SYSTEMS SHALL BE PROVIDED WITH PULL BOXE OF APPROVED SIZES AT INTERVALS NOT EXCEEDING 100 FEET IN LENGTH OR AFTER THREE (3) 90° BENDS. JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE PERCENT FILL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND AS INDICATED ON THE DRAWINGS.</li> <li>ALL EMPTY CONDUIT SYSTEM SHALL HAVE A 1/8" BRAIDED POLYPROPYLENE ROPE OR #14 GALVANIZED STEEL PULL WIRE INSTALLED. AT LEAST 12" OF PROPERLY SECURED ROPE OR WIRE SHALL BE FOLDED BACK INTO EACH END OF THE EMPTY</li> </ol>
	360 DEGREE CEILING MOUNTED MOTION DETECTOR.         INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER.         Image: Comparison of the system arm/disarm keypad with locking vandal resistant cover.         Image: Comparison of the system arm/disarm keypad with locking vandal resistant cover.         Image: Comparison of the system arm/disarm keypad with locking vandal resistant cover.         Image: Comparison of the system arm/disarm keypad with locking vandal resistant cover.         Image: Comparison of the system arm/disarm keypad with locking vandal resistant cover.         Image: Comparison of the system arm/disarm keypad with locking vandal resistant cover.         Image: Comparison of the system arm of the system a	<ul> <li>CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.</li> <li>21. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.</li> <li>22. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING</li> </ul>	<ul> <li>NOTE:</li> <li>1. FOR EXISTING DEVICES AND EQUIPMENT, SYMBOLS ON DRAWINGS WILL BE SHOWN AS HALF- TONE AND WITH AN "E" TAG. IF A DISCREPANCY OCCURS WITH NOTATION, CONTRACTOR SHALL ASSUME THE HIGHER-PRICED OPTION.</li> <li>2. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.</li> <li>3. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.</li> </ul>	<ul> <li>CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER/TENANT. THE EQUIPMENT TO BE TESTED INCLUDES, BUT IS NOT LIMITED TO: RECEPTACLES, LIGHT FIXTURES, EXIT SIGNS, OCCUPANCY SENSORS, PANEL BOARDS, TRANSFORMERS, EMERGENCY LIGHTING BATTERY UNITS, AND SWITCHES.</li> <li><u>FOR EXISTING LIGHT FIXTURES AND EXIT SIGNS WITH BATTERY PACKS, ELECTRICAL CONTRACTOR SHALL ASSUME NEW</u> <u>BATTERY PACKS WILL BE REQUIRED UNLESS FUNCTIONAL TEST PROVES OTHERWISE.</u></li> <li>CONSTRUCTION</li> <li>ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL SERVICES SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE EASY ACCESS AND ARRANGE ENTIRE WORK WITH ADEQUATE ACCESS FOR OPERATION AND MAINTENANCE, AND FOR PROPER CODE AND/OR MANUFACTURERS CLEARANCES.</li> </ul>	<ul> <li>CONDUITS.</li> <li>10. CONDUIT SYSTEMS SHALL BE PROPERLY SUPPORTED PER RESPECTIVE NEC REQUIREMENTS .</li> <li>11. ALL HOMERUNS SHALL BE INSTALLED IN EMT CONDUIT. TYPE MC CABLE IS NOT ACCEPTABLE.</li> <li>FLEXIBLE METAL CONDUIT</li> <li>1. FLEXIBLE METAL CONDUIT SHALL BE HOT-DIPPED GALVANIZED STEEL STRIP, SPIRAL WOUND AND INTERLOCKED, AND SHALL BE PROVIDED WITH INSULATED ANTI-SHORT BUSHINGS AT ALL TERMINATIONS.</li> <li>2. FLEXIBLE METAL CONDUIT SHALL BE SECURED WITH GALVANIZED OR SHERADIZED CONNECTORS SUITABLE FOR CONNECTION THE ASSOCIATED BOXES AND CONDUITS. DIE CAST CONNECTORS ARE NOT ACCEPTABLE.</li> </ul>
	ACCESS CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH OWNERS I.T. DEPT FOR ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS.         IDP       INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH OWNERS I.T. DEPT FOR ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS.         INDICATES LOCATION OF VIDEO MANAGEMENT SYSTEMS HEADEND EQUIPMENT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SERVERS, ONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SERVERS	BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.	<ol> <li>COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.</li> <li>ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.</li> <li>FOR ALL NEWLY ADDED DEVICES AND EQUIPMENT BEING INTEGRATED INTO EXISTING SYSTEMS, CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ADAPTORS, CONVERTERS, MOUNTING KITS, CABLING, SOFTWARE, AND PROGRAMMING TO ENSURE FULLY FUNCTIONAL SYSTEMS.</li> </ol>	<ol> <li>2. DAMAGE CAUSED DURING CONSTRUCTION TO EXISTING MATERIALS/EQUIPMENT WILL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO OWNER. RE-SUPPORT ANY REMAINING PIPING OR DEVICES THAT WERE SUPPORTED BY WALLS BEING REMOVED.</li> <li>3. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT, AND THE STRUCTURE. PROVIDE ADDITIONAL RISES AND OFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING, CONDUIT, CABLE, ETC., IS FOUND TO BE IN CONFLICT WITH THE ARCHITECTURE, STRUCTURE OR OTHER TRADE WORK, WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENTS, THE DUCTWORK, PIPING, CONDUIT, CABLE, ETC., SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER/TENANT. COORDINATE ALL WORK COMPLETELY WITH ALL OTHER TRADES PRIOR TO INSTALLATION.</li> <li>4. ALL BUILDING SERVICES, UTILITIES, POWER, FIRE PROTECTION, AND DOMESTIC COLD AND HOT WATER MAY NOT BE DISRUPTED FOR ANY REASON WITHOUT PRIOR COORDINATION WITH A REPRESENTATIVE OF BUILDING OPERATIONS.</li> <li>5. THIS BUILDING MAY HAVE A STRUCTURAL SYSTEM UTILIZING POST-TENSIONED CABLES. THE CONTRACTOR SHALL</li> </ol>	<ol> <li>FLEXIBLE METAL CONDUIT SHALL BE USED INDOORS AT ANY HEIGHT, IN LENGTHS NOT TO EXCEED 48 INCHES, TO EXTEND CONDUIT CONNECTIONS TO MOTORS, TRANSFORMERS, BUSWAY SWITCHES, AIR DISTRIBUTION TERMINAL UNITS, LIGHTING FIXTURES NOT CONNECTED BY RIGID CONDUIT, CONTROL EQUIPMENT AND DEVICES, PERMANENTLY CONNECTED EQUIPMENT ( APPLIANCES, OR FOR EQUIPMENT AND DEVICES REQUIRING ADJUSTMENT AND/OR REMOVAL FOR MAINTENANCE. FLEXIBLE METAL CONDUIT SHALL NOT BE USED FOR CONNECTIONS IN ELEVATOR MACHINE ROOMS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED IN ALL OF THE ABOVE AREAS WHERE FLEXIBLE METAL CONDUIT IS NOT PERMITTED, A "GREEN" INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE CIRCUIT CONDUCTORS AND SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.</li> <li>FLEXIBLE METAL CONDUIT (MINIMUM 3/8" DIAMETER) MAY BE USED FOR FIXTURE-TAILS, FOR CONNECTION OF INDIVIDUAL LIGHT FIXTURES TO THEIR ASSOCIATED LIGHTING SYSTEM JUNCTION BOXES LENGTHS NOT TO EXCEED 6 FEET, AND PROVIDED THE CIRCUIT CONDUCTORS CONTAINED THEREIN ARE PROTECTED BY OVER CURRENT DEVICES RATED AT 20 AMPERES OR LESS. A "GREEN" INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE CIRCUIT CONDUCTORS AND SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE LATEST EDITION OF THE LATEST EDITION OF THE NATION ELECTRICAL CODE.</li> <li>CONTINUITY OF THE EQUIPMENT GROUND ACROSS FLEXIBLE METAL CONDUIT CONNECTIONS SHALL BE MAINTAINED. THE</li> </ol>
	Image: Components, Mounting Kits, Licenses, Cabling, and Programming to Ensure a Fully Functional video Surveillance System. Contractor Shall coordinate Server Size and Licensing With Manufacturer Per Site Requirements.         Image: Requirements in the server of the server size and licensing with manufacturer per Site Requirements.         Image: Requirement in the server size and licensing with manufacturer per Site Requirements.         Image: Requirement in the server size and licensing with manufacturer per Site Requirements.         Image: Requirement in the server size and licensing with manufacturer per Site Requirements.         Image: Requirement in the server size and licensing with manufacturer per Site Requirements.         Image: Requirement in the server size and licensing with manufacturer per Site Requirement in the server size and licensing with th	INTERCOM SYSTEMS LEGEND           SYMBOL         DESCRIPTION           SPEAKER, FLUSH MOUNTED IN CEILING. "12" INDICATES HIGH VOLUME IP	LEGEND OF ELECTRICAL SYMBOLS       ELEC. ABBREVIATIONS         SYMBOL       DESCRIPTION       (E)       EXISTING TO REMAIN         V       ID       BOLD DEVICE/CIRCUITING INDICATES NEW DEVICE/CIRCUITING       (B)       ITEM NOTED TO BE RELOCATED	<ul> <li>F. PROJECT CLOSE OUT</li> <li>1. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE SET OF "AS BUILT" DRAWINGS PORTRAYING ACTUAL SITE CONDITIONS OF THE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK. SUBMISSION SHALL CONSIST OF ONE SET OF PDF AND ONE SET OF CAD FILES IN AUTOCAD V. 2016 OR REVIT V. 2018</li> </ul>	<ul> <li>CONTINUITY SHALL BE MAINTAINED BY INSTALLING A BARE COPPER BONDING CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250-95 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE BARE COPPER BONDING CONDUCTOR SHALL BE INSTALLED OUTSIDE THE FLEXIBLE AND SHALL BE CONNECTED ON ONE END OF THE FLEXIBLE CONDUIT BY A SUITABLE BINDING POST AN SIMILARLY CONNECTED ON THE OPPOSITE END WITH ANOTHER SUITABLE BINDING POST.</li> <li>IF IT COMPLIES WITH THESE SPECIFICATIONS, CONDUIT MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: AMERICAN FLEXIBLE CONDUIT COMPANY, ANACONDA, CERRO, OR ELECTRI-FLEX. CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: MIDWEST, APPLETON.</li> <li><u>TYPE "MC" METAL CLAD CABLE</u></li> </ul>
_	Image: Door Release Button (to be connected to door indicated.         Image: Door Contact.         NOTE:         1. FOR EXISTING DEVICES AND EQUIPMENT, SYMBOLS ON DRAWINGS WILL BE SHOWN AS	Image: Speaker for intercom system. Cabling contractor shall provide one drop per device. Provide 20' service loop at device location. Terminate and certify per specifications. Subscript "L" indicates connection to local sound system.         Image: Big: Big: Big: Big: Big: Big: Big: Big	Image: Construction of the construc	<ul> <li>OR NEWER FORMAT WITH THE OWNER'S STANDARD LAYERING SCHEME.</li> <li>2. EXISTING CIRCUITRY IS SHOWN FOR INFORMATION ONLY. EXISTING CIRCUITRY INFORMATION TAKEN FROM COMBINATION OF FIELD SURVEY AND PREVIOUS TENANT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXACT CIRCUITRY AND INDICATE ANY DEVIATIONS ON THE "AS BUILT" DRAWINGS. "AS BUILT" DRAWINGS SHALL ACCURATELY INDICATE THE LOCATION OF ALL NEW AND EXISTING JUNCTION BOXES WITH THE RESPECTIVE PANEL AND CIRCUIT NUMBERS.</li> <li>3. SUBMIT "AS-BUILT" RECORD DRAWINGS INDICATING ACTUAL AS-BUILT CONDITIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. RECORD DRAWINGS SHALL BE STAMPED "AS-BUILT" AND SHALL HAVE THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CONTRACTOR. ALL ENGINEERS' SEALS SHALL BE REMOVED FROM THE DRAWINGS. PROVIDE BLACK AND WHITE DIGITAL COPIES AND ONE (1) ELECTRONIC FILE.</li> </ul>	<ol> <li>TYPE MC CABLE SHALL NOT BE USED FOR HOMERUN WIRING OR HORIZONTAL BRANCH CIRCUIT RUNS OVER 12'-0". HOMERUNS AND HORIZONTAL RUNS SHALL BE HARD PIPED WITH METAL CONDUIT.</li> <li>TYPE MC CABLE SHALL BE PROVIDED WITH INSULATED ANTI-SHORT BUSHINGS AT ALL TERMINATIONS.</li> <li>TYPE MC CABLE CONNECTORS SHALL BE STEEL GALVANIZED OR SHERADIZED, SUITABLE FOR CONNECTION TO ASSOCIATED BOXES. DIE CAST CONNECTORS ARE NOT ACCEPTABLE.</li> <li>WHERE PERMITTED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND APPROVED BY OWNER/CLIENT - TYPE MC CABLE MA BE UTILIZED INDOORS IN FINISHED AREAS FOR THE CONNECTION OF LIGHT FIXTURES AND WIRING DEVICES PROVIDED THE FOLLOWING CONDITIONS ARE MET:</li> </ol>
	<ul> <li>HALF-TONE AND WITH AN "E" TAG. IF A DISCREPANCY OCCURS WITH NOTATION, CONTRACTOR SHALL ASSUME THE HIGHER-PRICED OPTION.</li> <li>2. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.</li> <li>3. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.</li> </ul>	Image: Speaker volume control, flush mounted in wall         Image: Speaker	INDICATES HOMERUN TO PANEL. CONDUCTOR DESIGNATIONS ARE AS FOLLOWS: LONG HATCH INDICATES NEUTRAL, SHORT HATCH INDICATES PHASE, "DOT" INDICATES INSULATED OR ISOLATED GROUND, AND NO HATCHES INDICATES TWO CONDUCTORS.       DC       DIRECT CURRENT         INDICATES PHASE, "DOT" INDICATES INSULATED OR ISOLATED GROUND, AND NO HATCHES INDICATES TWO CONDUCTORS.       DC       DIRECT CURRENT         INDICATES PHASE, "DOT" INDICATES INSULATED OR ISOLATED GROUND, AND NO HATCHES INDICATES TWO CONDUCTORS.       DC       DIRECT CURRENT         INDICATES PHASE, "DOT" INDICATES INDICATES TWO CONDUCTORS.       EMERGENCY POWER OFF       EMERGENCY POWER OFF         INDICATES PHASE, "DOT" INDICATES TWO CONDUCTORS.       CONDUIT RUN CONCEALED IN FLOOR SLAB, BELOW FLOOR SLAB OR BELOW GRADE. WIRING SAME AS ABOVE.       EMERGENCY POWER OFF         INDICATES PHASE, "DOT" INDICATES INDICATES TWO CONDUCTORS.       SIMPLEX RECEPTACLE OUTLET; 20 AMP, 125V., 3 WIRE, GROUNDED TYPE OR SPECIAL RECEPTACLE OUTLET; 20 AMP, 125V., 3 WIRE, GROUNDED TYPE OR SPECIAL RECEPTACLE OUTLET: SEE DRAWIINGS FOR NEMA       FLA       FULL LOAD AMPS	<ol> <li>SUBMIT ELECTRONIC PDF OF OPERATION AND MAINTENANCE MANUALS. THE MANUALS SHALL INCLUDE RATINGS, CAPACITIES, PARTS LISTS, WIRING DIAGRAMS, SERVICE/MAINTENANCE RECOMMENDATIONS, AND WARRANTIES.</li> <li>THE ELECTRICAL CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS UPON PROJECT COMPLETION. ALL REQUIRED REPORTS AND AS-BUILTS SHALL BE SUBMITTED WITHIN TWO (2) WEEKS OF DATE OF SUBSTANTIAL COMPLETION OR OWNER OCCUPANCY.</li> <li>SUBMIT WRITTEN RESPONSE TO ALL FIELD REPORTS INDICATING CORRECTIVE ACTIONS TAKEN AND DATE CORRECTIVE ACTION WAS TAKEN TO THE ARCHITECT/ENGINEER FOR REVIEW.</li> <li>WARRANTY</li> </ol>	<ul> <li>A. FOR INDIVIDUAL CONNECTION TO OUTLETS AND SWITCHES CONCEALED IN WALL AND PARTITIONS:         <ol> <li>THE BRANCH CIRCUIT HOMERUN WIRING SERVING LOAD IS INSTALLED IN ACCESSIBLE CEILING SPACE USING METAL CONDUIT.</li></ol></li></ul>
	<ol> <li>COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.</li> <li>ALL CEILING MOUNTED DEVICES SHALL BE INSTALLED USING TILE BRIDGE SUPPORT OR SUPPORTED FROM THE BUILDING STRUCTURE. NO DEVICES SHALL BE SUPPORTED BY THE CEILING TILE ALONE.</li> <li>FOR ALL NEWLY ADDED DEVICES AND EQUIPMENT BEING INTEGRATED INTO EXISTING SYSTEMS, CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ADAPTORS, ON MUSICE AND PROVIDE AND INSTALL ALL NECESSARY ADAPTORS,</li> </ol>	INDICATE THAT THE OUTLET IS TO BE FLOOR MOUNT. '*' WHEN REPLACED WITH AN 'H' SHALL INDICATE THAT THE OUTLET IS TO BE A HANGING MICROPHONE SUSPENDED FROM ABOVE.         Image: Call BUTTON FOR COMMUNICATIONS MOUNTED AT 42" A.F.F.         INDICATES LOCATION OF IP BASED AIPHONE VIDEO INTERCOM DEVICE WITH BUILT-IN CARD READER. CONTRACTOR SHALL PROVIDE AND	Image: Configuration and voltage.       GROUND         Image: Configuration and voltage.       Ground and voltage.         Image: Configuration and voltage. <t< td=""><td><ol> <li>THE START OF THE CONTRACTOR'S WARRANTY PERIOD SHALL COMMENCE ON THE DATE OF "SUBSTANTIAL COMPLETION" AS AGREED TO BY THE [OWNER/TENANT].</li> <li>THE WARRANTY PERIOD SHALL BE NO LESS THAN ONE (1) FULL YEAR, UNLESS SPECIFIED OTHERWISE AND SHALL INCLUDE AT LEAST ONE (1) FULL HEATING SEASON AND ONE (1) FULL COOLING SEASON. DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL GUARANTEE THE FOLLOWING IN A FORM SATISFACTORY TO THE [OWNER/TENANT]:</li> <li>WORK INSTALLED SHALL BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS.</li> <li>B. APPARATUS WILL DEVELOP CAPACITIES AND PERFORMANCE CHARACTERISTICS SPECIFIED.</li> <li>C. SYSTEMS SHALL OPERATE WITHOUT MALFUNCTION.</li> </ol></td><td><ul> <li>INTENDED FUNCTIONS. ALL CONDUIT SHALL HAVE AN EQUIPMENT GROUND, USE OF CONDUIT FOR GROUND PATH IS NOT ACCEPTABLE.</li> <li>OUTLET BOXES <ol> <li>IN STANDARD PARTITIONS, WHERE 1/2", 3/4", AND 1" CONDUITS ARE EMPLOYED: 4" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG 2-GANG PLASTER COVERS SHALL BE USED UNLESS NOTED OTHERWISE.</li> <li>IN THIN PARTITIONS MEASURING 3-1/2" OR LESS: 4" SQUARE BY 1-1/2" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED OTHERWISE.</li> <li>IN STANDARD PARTITIONS, WHERE 1-1/4" CONDUITS ARE EMPLOYED: 4-11/16" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED UNLESS NOTED OTHERWISE.</li> </ol> </li> </ul></td></t<>	<ol> <li>THE START OF THE CONTRACTOR'S WARRANTY PERIOD SHALL COMMENCE ON THE DATE OF "SUBSTANTIAL COMPLETION" AS AGREED TO BY THE [OWNER/TENANT].</li> <li>THE WARRANTY PERIOD SHALL BE NO LESS THAN ONE (1) FULL YEAR, UNLESS SPECIFIED OTHERWISE AND SHALL INCLUDE AT LEAST ONE (1) FULL HEATING SEASON AND ONE (1) FULL COOLING SEASON. DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL GUARANTEE THE FOLLOWING IN A FORM SATISFACTORY TO THE [OWNER/TENANT]:</li> <li>WORK INSTALLED SHALL BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS.</li> <li>B. APPARATUS WILL DEVELOP CAPACITIES AND PERFORMANCE CHARACTERISTICS SPECIFIED.</li> <li>C. SYSTEMS SHALL OPERATE WITHOUT MALFUNCTION.</li> </ol>	<ul> <li>INTENDED FUNCTIONS. ALL CONDUIT SHALL HAVE AN EQUIPMENT GROUND, USE OF CONDUIT FOR GROUND PATH IS NOT ACCEPTABLE.</li> <li>OUTLET BOXES <ol> <li>IN STANDARD PARTITIONS, WHERE 1/2", 3/4", AND 1" CONDUITS ARE EMPLOYED: 4" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG 2-GANG PLASTER COVERS SHALL BE USED UNLESS NOTED OTHERWISE.</li> <li>IN THIN PARTITIONS MEASURING 3-1/2" OR LESS: 4" SQUARE BY 1-1/2" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED OTHERWISE.</li> <li>IN STANDARD PARTITIONS, WHERE 1-1/4" CONDUITS ARE EMPLOYED: 4-11/16" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED UNLESS NOTED OTHERWISE.</li> </ol> </li> </ul>
	CONVERTERS, MOUNTING KITS, CABLING, SOFTWARE, AND PROGRAMMING TO ENSURE FULLY FUNCTIONAL SYSTEMS.	INSTALL ALL NEW CABLING AND MOUNTING HARDWARE PER MANUFACTURER STANDARDS.         INDICATES LOCATION OF IP BASED AIPHONE VIDEO INTERCOM MASTER STATION DEVICE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW CABLING AND MOUNTING HARDWARE PER MANUFACTURER STANDARDS. TYPICAL LOCATION SHALL BE AT RECEPTION DESK.	Image: Construct of the second sec	BREAK OUT PRICING         THE CONTRACTOR SHALL PROVIDE SEPARATE LINE-ITEM COST FOR ALL WORK AND MATERIALS ASSOCIATED WITH EACH OF THE FOLLOWING:         1. INSTALLATION FOR ONE (1) DEDICATED 20-AMP DUPLEX RECEPTACLE.       2. INSTALLATION FOR ONE (1) DEDICATED 20-AMP QUAD RECEPTACLE.         3. INSTALLATION FOR ONE (1) RING AND STRING ROUGH-IN FOR VOICE/DATA OUTLET.       3. INSTALLATION FOR ONE (1) RING AND STRING ROUGH-IN FOR VOICE/DATA OUTLET.	<ol> <li>OUTLET BOXES SHALL BE SECURELY ATTACHED TO THE PARTITION STUDS, WITH AT LEAST ONE (1) PARTITION STUD SEPARATI THE OUTLET BOXES. IT IS NOT ACCEPTABLE TO SECURE OUTLET BOXES ONLY TO DRYWALL PARTITION.</li> <li>OUTLET, SWITCH AND JUNCTION BOXES FOR VARIOUS USES SHALL BE AS MANUFACTURED BY APPLETON OR AN APPROVED EQUAL.</li> <li>PROVIDE EXTRA DUTY COVERS FOR ALL 15 AND 20 AMP, 125 AND 250 VOLT RECEPTACLES IN ALL WET LOCATIONS PER NEC 406.9(B)(1).</li> <li>WHERE OCCUPANCY SENSORS/LIGHT SWITCHES ARE INSTALLED AT END OF DOOR SWING, GENERAL CONTRACTOR TO INSTAL STUD AT 42" FROM HINGE WALL. INSTALL SWITCHES ON EITHER SIDE OF STUD.</li> </ol>
		NOTE: 1. FOR EXISTING DEVICES AND EQUIPMENT, SYMBOLS ON DRAWINGS WILL BE SHOWN AS HALF- TONE AND WITH AN "E" TAG. IF A DISCREPANCY OCCURS WITH NOTATION, CONTRACTOR SUALL ASSUME THE HIGHER PRICED OPTION	TRANSFORMER W/ NEC CLEARANCES; REFER TO DRAWING       SPEC.       SPECIFICATIONS         FOR VOLTAGE/kVA       SF       SQUARE FEET         TS       TIME SWITCH       TS         TB       TELEPHONE TERMINAL BOARD       TYP         U       U       U       U         U       U       U       U         SURFACE PANELBOARD W/ NEC CLEARANCES.       UG       UNDERGROUND         U       US       UNINTERRUPTIBLE POWER SUPPLY         V       VOLTAGE       VFD         VARIABLE FREQUENCY DRIVE       VFD       VARIABLE FREQUENCY DRIVE         WP       WEATHER PROOF       XFMR	<ol> <li>INSTALLATION FOR ONE (1) DEDICATED 120-VOLT JUNCTION BOX.</li> <li>INSTALLATION FOR ONE (1) LAY-IN 2X4' LIGHT FIXTURE ON AN EXISTING 277-VOLT SWITCHED CIRCUIT WITH 8 FT OF CONDUIT/CONDUCTORS.</li> <li>PRICES SHALL INCLUDE ALL INSTALLATION COST, INCLUDING CONDUIT(S) AND BRANCH CIRCUIT CONDUCTORS AS REQUIRED. ASSUME 100 FT CONDUIT AND CONDUCTOR LENGTH FROM SOURCE TO LOAD U.N.O.</li> <li>IDDENTIFICATION /LABBELLING</li> <li>ALL PANELBOARDS, MOTOR STARTERS, CONTROL PANELS, CONTROL REMOTE STATIONS, DISCONNECT SWITCHES, CIRCUIT BREAKERS OR OTHER EQUIPMENT IN SEPARATE ENCLOSURES SHALL BE EQUIPPED WITH NAMEPLATES. THE NAMEPLATES SHALL BE ENGRAVED RIGID PLASTIC LAMINATE OR APPROVED EQUAL, WHITE LETTERING ON BLACK BACKGROUND FOR EQUIPMENT 208/20 VOLT AND BLACK LETTERING ON WHITE BACKGROUND FOR EQUIPMENT 408/277 VOLT, AND BE ATTACHED TO THE EQUIPMENT SECURELY WITH SCREWS. EACH NAMEPLATE SHALL GIVE THE NUMBER DESIGNATION OF THE EQUIPMENT AS SHOWN ON THE ONE LINE DIAGRAM AND ALSO THE SOURCE. UTILIZE SIMILAR RED AND WHITE NAMEPLATES FOR ALL EMERGENCY POWERED EQUIPMENT.</li> <li>ALL WIRING DEVICES (EXCLUDING LIGHT SWITCHES) SHALL BE LABELED WITH SELF-ADHESIVE, LAMINATED TAPE INDICATING THE CIRCUIT NUMBER AND PANEL DESIGNATIONS. UTILIZE CLEAR TAPE WITH BLACK LETTERS UNLESS NOTED OTHERWISE. PROVIDE SAMPLE OF LABELS TO ARCHITECT AND LANDLOR FOR APPROVAL PRIOR TO INSTALLATION.</li> <li>NEW AND EXISTING CIRCUITRY SHALL BE ACCURATELY IDENTIFIED ON ALL JUNCTION BOX COVERS. CIRCUITS LEAVING PANELBOARDS AND DISTIBUTION PANELS SHALL BE PROVIDED WITH HABEL ON CIRCUITS CONTAINED IN CONDUIT.</li> <li>EXISTING CIRCUITRY IS SHOWN FOR INFORMATION ONLY. EXISTING CIRCUITRY INFORMATION TAKEN FROM COMBINATION OF FIELD SURVEY AND PREVIOUS TENANT DRAWINGS. CONTRACTOR SHALL FLED VIRIPY EXACT CIRCUITRY AND INDICATE ANY DEVIATIONS ON THE 'AS BUILT 'DRAWINGS SHALL ACCURATELY INDICAT THE CONDIDIT.</li> <li>EXISTING CIRCUITRY IS SHOWN FOR INFORMATION ONLY. EXISTING CIRCUITRY INFORMATION TAKEN FROM COMBINATION</li></ol>	<ol> <li>WHERE SEPARATE HOME RUNS ARE INDICATED ON THE PLANS, DO NOT UTILIZE THE NEUTRAL OR GROUND CONDUCTOR FOR A OTHER CIRCUITS. TERMINATE ONLY AT DEVICES AND PANELBOARD AS INDICATED.</li> <li>ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS PER NEC 210.4(B) UNLESS NOTED OTHERWISE. MULTIWIRE BRANCH CIRCUITS MAY BE UTILIZED FOR BREAK ROOM APPLIANCE LOADS, EXISTING MULTIWIRE BRANCH CIRCUITS BE RE-UTILIZED, AND FOR LOADS WHERE DEDICATED NEUTRALS ARE NOT POSSIBLE (I.E. FURNITURE SYSTEMS). WHERE MULTIWIRE BRANCH CIRCUITS ARE UTILIZED, PROVIDE HANDLE-TIES IN LIEU OF MULTI-POLE BREAKERS.</li> <li>AT ALL EXPOSED CEILING AREAS, UTILIZE 3/4" MINIMUM EMT CONDUIT FOR ALL BRANCH CIRCUITING AND LOW VOLTAGE CABLIN COORDINATE ALL CONDUIT ROUTING WITH THE ARCHITECT PRIOR TO INSTALLATION AND PROVIDE A SHOP DRAWING FOR REVI THAT INDICATES ALL PROPOSED CONDUIT ROUTING AT EXPOSED CEILING AREAS. ALL CONDUIT SHALL BE INSTALLED PARALLE AND PERPENDICULAR TO THE LINES OF THE BUILDING AND SHALL BE PAINTED TO MATCH THE FINISH OF THE STRUCTURE.</li> </ol>
		<ul> <li>SHALL ASSUME THE HIGHER-PRICED OPTION.</li> <li>EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.</li> <li>REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.</li> <li>COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.</li> <li>ALL CEILING MOUNTED DEVICES SHALL BE INSTALLED USING TILE BRIDGE SUPPORT OR SUPPORTED FROM THE BUILDING STRUCTURE. NO DEVICES SHALL BE SUPPORTED BY THE CEILING TILE ALONE.</li> <li>FOR ALL NEWLY ADDED DEVICES AND EQUIPMENT BEING INTEGRATED INTO EXISTING</li> </ul>	APPLICABLE CODES & STANDARDS         1. BUILDING CODE - 2015 IBC         2. FIRE CODE - 2015 IFC         3. ELECTRICAL CODE - 2020 NEC         4. OTHER - LIFE SAFETY CODE (NFPA 101)         5. OTHER - FEDERAL DEPARTMENT OF JUSTICE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS.		<ol> <li>NEUTRAL CONDUCTORS SHALL BE PROPERLY GROUPED IN AT LEAST ONE (1) LOCATION WITHIN ANY ENCLOSURE PER NEC 200 <u>WIRING DEVICES</u></li> <li>PROVIDE BUILDING STANDARD WIRING DEVICES. WHERE A BUILDING STANDARD IS NOT ESTABLISHED, ELECTRICAL RECEPTAC SHALL BE LEVITON 120 VOLT, 20 AMP, #16382-W SERIES, DECORATOR STYLE, BACK/SIDE WIRED WITH MATCHING COVER PLATE UNLESS OTHERWISE INDICATED. LIGHTING SWITCHES SHALL BE LEVITON #5621-2W OR #5623-2W WITH MATCHING COVER PLATES. DEVICES SHALL BE WHITE UNLESS OTHERWISE INDICATED. COVER PLATES SHALL BE NYLON UNLESS OTHERWISE NOTED. EQUAL DEVICES BY HUBBELL, LEGRAND ARE ACCEPTABLE.</li> <li>ALL WIRING DEVICES SHALL BE RATED 20-AMP MINIMUM. EXISTING 15-AMP DEVICES SHALL BE REPLACED WITH 20-AMP WHERE NEW CIRCUITING IS INDICATED/REQUIRED.</li> <li>ALL NEW AND EXISTING GFI RECEPTACLES INDICATED ON THE PLANS SHALL MEET THE REVISED LATEST U.L. #943 REQUIREMENTS. WEATHERPROOF RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE. REPLACE EXISTING DEVICES / REQUIRED.</li> </ol>
		SYSTEMS, CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ADAPTORS, CONVERTERS, MOUNTING KITS, CABLING, SOFTWARE, AND PROGRAMMING TO ENSURE FULLY FUNCTIONAL SYSTEMS.	6. FIRE ALARM - 2013 NFPA 72 REQUIRED SUBMITTALS WIRING DEVICES ALL SUBMITTALS SHALL BE SUBMITTED VIA EMAIL TO SUBMITTALS@WYLIEENG.COM AND COPIED TO THE PROJECT MANAGER. ALL RFI'S SHALL BE SUBMITTED VIA EMAIL TO RFI@WYLIEENG.COM AND COPIED TO THE PROJECT MANAGER.	AND EXISTING JUNCTION BOXES WITH THE RESPECTIVE PANEL AND CIRCUIT NUMBERS.	

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