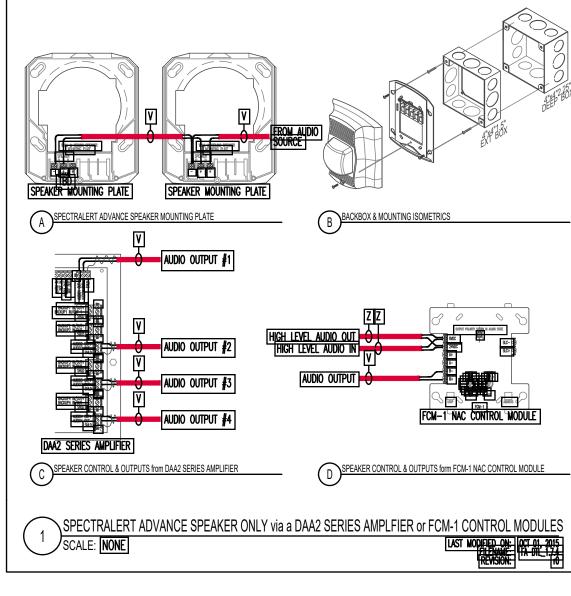
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GENE	RAL NOTES:
1.	INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH
	NFPA, LOCAL AND STATE AHJ'S, NEC AND CONTRACT DRAWINGS
2.	WIRE ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT INTENDED
	FOR ACTUAL CONDUIT ROUTING.
3.	ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL CONTRACTOR PER
	NEC AND AHJ.
4.	VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL/ARCHITECTURAL
	PLANS. SCALE AND PLACE ALL DEVICE PER
	ELECTRICAL/ARCHITECTURAL PLANS.
5.	ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS,
0.	SHORTS, GROUNDS AND PROPER "END-OF-LINE" RESISTANCE. EACH
	CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO
	ADT COMMERCIAL FIELD TECHNICIAN UPON ARRIVAL ONSITE FOR
	STARTUP & CHECKOUT.
6.	AS-BUILTS:
6.1.	-
0.1.	CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT
	FOREMAN FOR USE BY ADT COMMERCIAL TECHNICIAN.
6.2.	
0.2.	WITH DIFFERENT COLOR PENS FOR EACH CIRCUIT AND/OR CIRCUIT
	TYPE. AS-BUILTS MUST INDICATE CHANGES TO THE FINAL DEVICE
	INSTALLED LOCATIONS IF NOT INSTALLED AT LOCATION SHOWN ON DESIGN DOCUMENTS.
6.3.	
U.J.	RETURNED TO THE INSTALLATION CONTRACTOR FOR CORRECTION
-	ADT COMMERCIAL IS NOT RESPONSIBLE FOR THESE DELAYS.
7.	AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE
_	MADE WITH ADT COMMERCIAL PROJECT MANAGER.
8.	ALL ADT COMMERCIAL FIELD SERVICES MUST BE SCHEDULED WITH ADT
	COMMERCIAL PROJECT MANAGER WITH A MINIMUM OF 14 WORKING
	DAYS ADVANCE NOTICE.
9.	DO NOT INSTALL LINE VOLTAGE IN SAME CONDUIT AS POWER LIMITED
	CABLES.
	ALARM SPECIFIC NOTES:
1.	SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF ANY AIR
	DIFFUSER.
2.	2013 NFPA 72-17.7.1.11 REQUIRES THAT SMOKE DETECTORS SHALL NOT
	BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION CLEAN-UP.
2.1.	ANY SMOKE DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO
	CLEAN-UP MUST BE CLEANED OR REPLACED AND WILL BE INVOICEI
	ON A T&M BASIS.
3.	WALL MOUNTED NOTIFICATION DEVICES BACKBOX BETWEEN A MINIMUN
	OF 80" AFF TO A MAXIMUM OF 96" AFF.
3.1.	DEVICES THAT ARE UNABLE TO BE MOUNTED WITHIN THAT RANGE
	MUST BE VERIFIED BY REDHAWK FIRE & SECURITY PRIOR TO
	INSTALLATION.
3.2.	
	INSTALLED.
4.	ALL MANUAL PULL STATIONS ARE TO BE MOUNTED AT A HEIGHT NO
	GREATER THAN 48" TO TOP AND NO LOWER THAN 36" TO BOTTOM (PER
	ADA REQUIREMENTS).
5.	FIELD VERIFY ALL SPRINKLER MONITORING DEVICES WITH FIRE
0.	PROTECTION CONTRACTOR
6	FIELD VERIFY ALL HVAC, FAN CONTROL, FIRE/SMOKE DAMPERS AND
6.	
7	DUCT DETECTORS LOCATIONS WITH MECHANICAL CONTRACTOR
7.	FACP SHALL NOT BE ENERGIZED WITHOUT THE PRESENCE OF ADT
•	COMMERCIAL TECHNICIANS.
8.	NO TAPPING OF SIGNALING OR INITIATING ZONE CIRCUITS ARE
	ALLOWED. T-TAPPING OF STYLE 4 ADDRESSABLE CIRCUITS IS ALLOWED
	PROVIDING A SPLICE IS PROFESSIONALLY INSTALLED, POLARITY IS
	OBSERVED AND SHIELDS ARE CONTINUOUS AND FREE OF GROUNDS.
	SHIELDS MUST BE TERMINATED AT FACP ONLY.
8.1.	
	BETWEEN THE FACP AND THE LAST DEVICE ON EACH CABLE RUN.
	SHIELDS AND OTHER FIRE ALARM CONDUCTORS (EXCEPT POWER
	GROUNDS) SHALL BE INSULATED AND COMPLETELY FREE FROM
	CONDUIT OR EARTH GROUNDS. SHIELDS WILL BE TIES TO GROUND
	ONLY AT THE FACP BY THE ADT COMMERCIAL FIELD TECHNICIAN.
	THE SYSTEM SHALL BE MONITORED BY A U.L. LISTED MONITORING
9.	
9.	
	STATION BEFORE AHJ TEST.
	STATION BEFORE AHJ TEST. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT
	STATION BEFORE AHJ TEST. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT COMMERCIAL REQUIRED ELECTRICAL RED LINES WITHIN 2 WEEKS PRIOF
10.	STATION BEFORE AHJ TEST. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT COMMERCIAL REQUIRED ELECTRICAL RED LINES WITHIN 2 WEEKS PRIOF TO AHJ TESTS.
	STATION BEFORE AHJ TEST. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT COMMERCIAL REQUIRED ELECTRICAL RED LINES WITHIN 2 WEEKS PRIOF TO AHJ TESTS. . EACH CIRCUIT (SLC, NAC OR POWER) MUST BE CLEARLY IDENTIFIED
	STATION BEFORE AHJ TEST. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT COMMERCIAL REQUIRED ELECTRICAL RED LINES WITHIN 2 WEEKS PRIOF TO AHJ TESTS.



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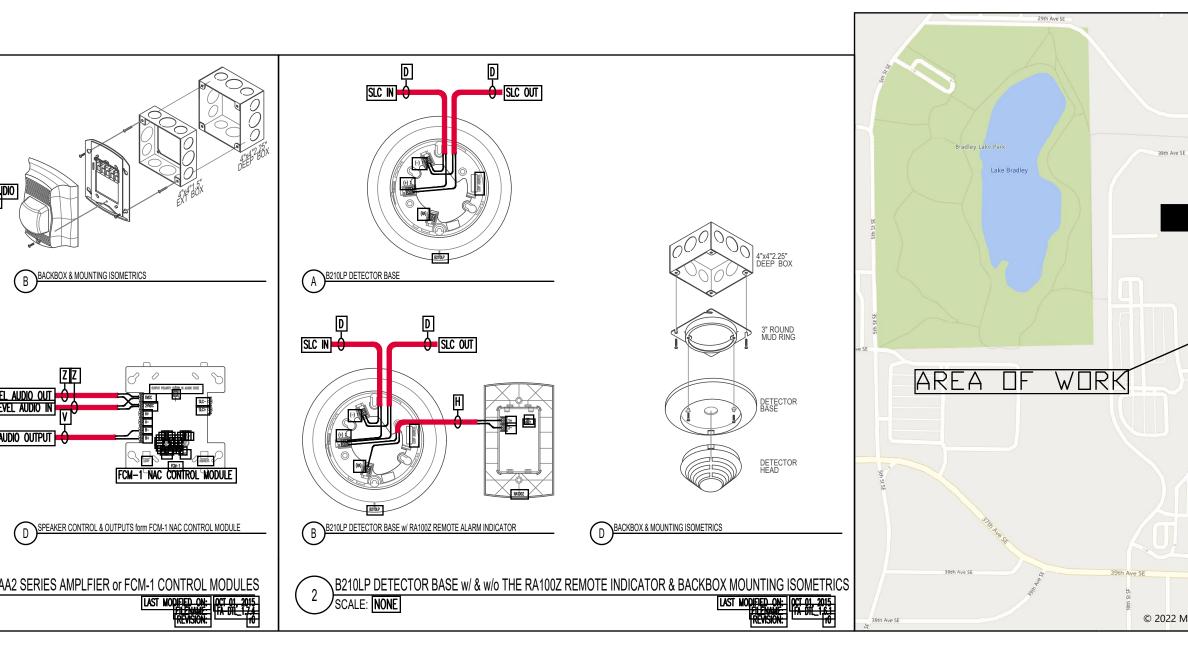
	CABLE AND WIRE LEGEND							
LABEL	PART NO	AW G	RESISTANCE (Ω/KFT)	DESCRIPT				
A	16/2 FPLP/R (SLC)	16	4.89	2 COND. SOLID CO ADDRESSABLE U				
с	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER UNSHIELD				

				DEVICE LEGEND
SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION
Ή	1	NOTIFIER	FST-951-IV W/B300-6-IV	LOW-PROFILE 135°F FIXED THERMAL SENSOR. IVOF
S	53	NOTIFIER	FSP-951-IV W/B300-6-IV	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETER W/STANDARD BASE
₩ Ø c	10	SYSTEM SENSOR	PC2WL	2-WIRE, HORN STROBE, V
X_{c}	14	SYSTEM SENSOR	SCWL	STROBE, WHITE

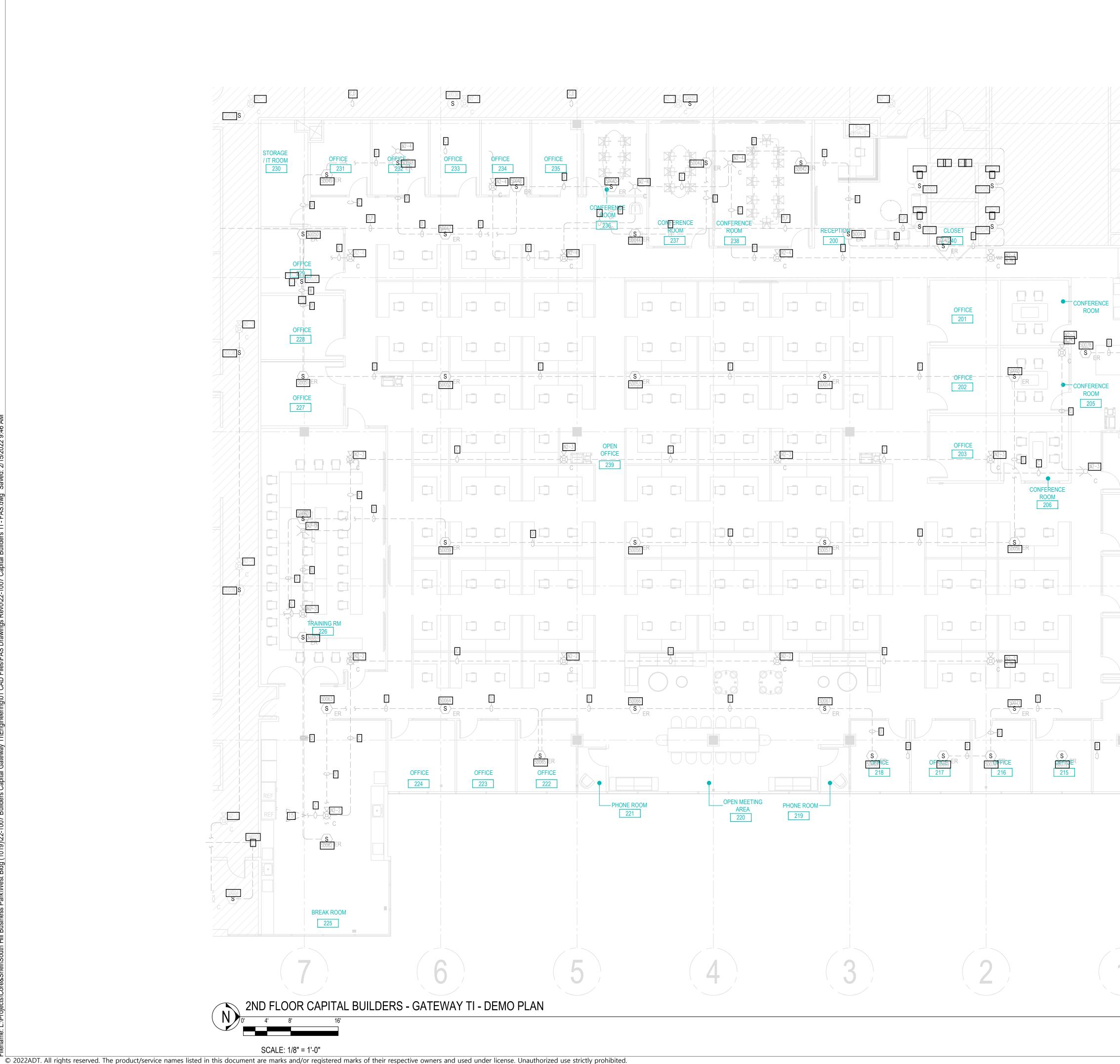
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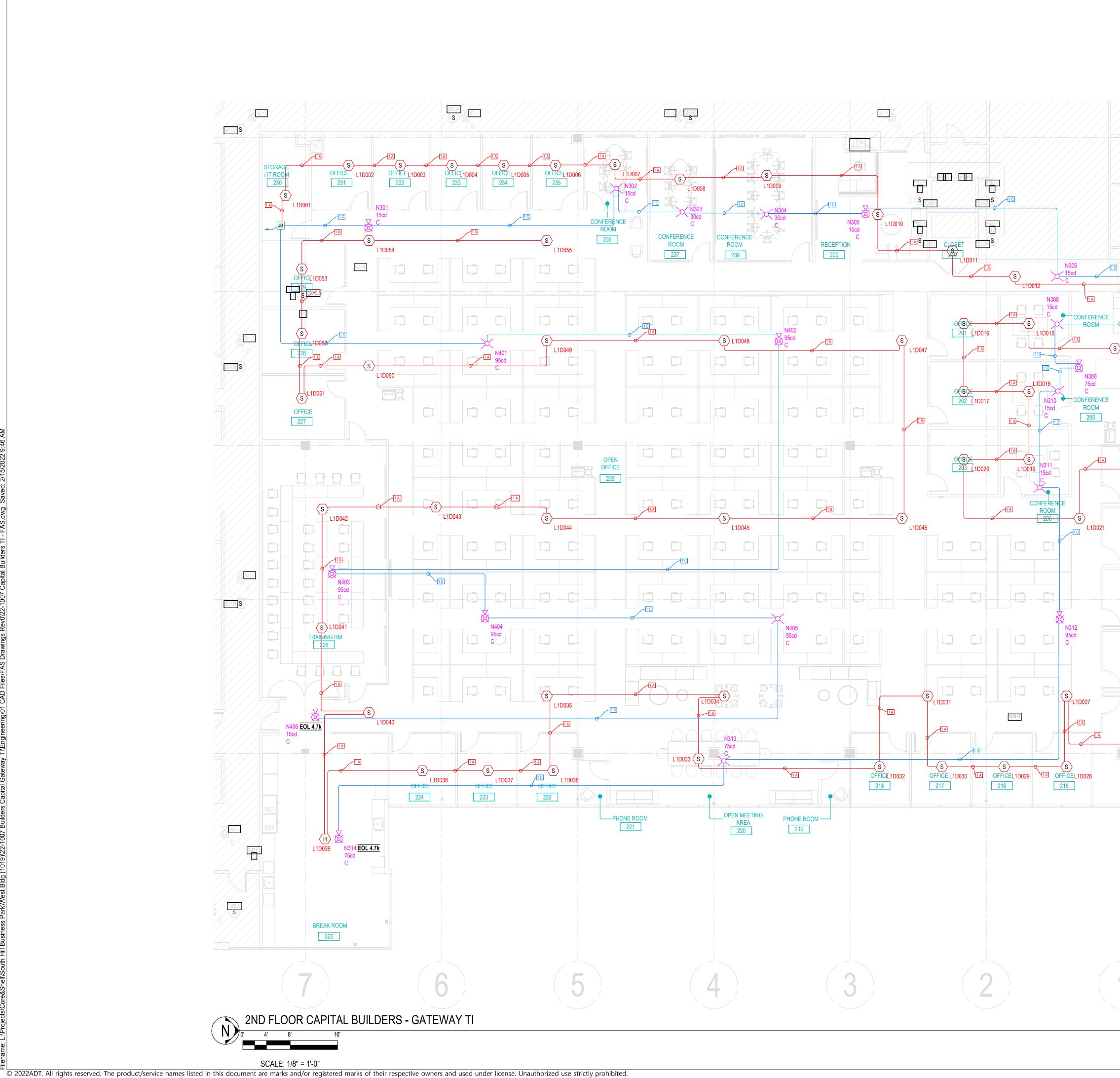


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	10.2. EACH NAC CIRCUIT MUST BE CLEARLY MARKED AS TO WHICH DEVICES ARE ON EACH CIRCUIT AND IN THE ORDER THE DEVICES		2 B210LP DETECTOR BASE w/ & w/o THE RA100Z REMOTE INDICATOR & BACKBOX MOUNTING ISOMETRICS SCALE: NONE	Bern Bern Bern Bern Bern Bern Bern Bern	DATE: PROJECT NO:	2/7, ADT-5008
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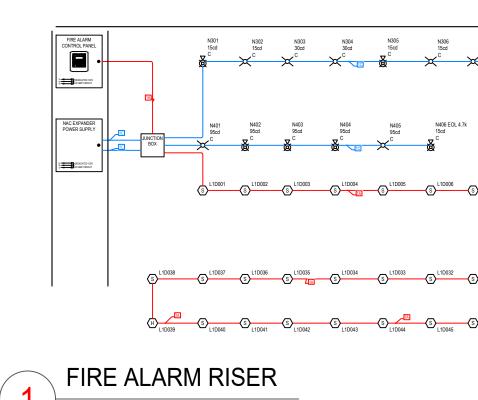
							CIRCUIT SI	ETTINGS	TOT	ALS
							Starting Calculation Voltage:	20.4	Max. Voltage Drop:	2.54
		N3 P	OINT-TO-POINT REP		Min. Operational Voltage:	16	End Of Line Voltage:	17.86		
		-		-			Max. Circuit Current (A):	3	Voltage Drop Percent:	12.44 %
							Wire Resistance (Ω/kFt):	3.07	Total Circuit Current (A):	1.076
	Circu	it Wiring Properties: 'C' 14/2 FPLP/I	R (NAC) 14 AWG, 2 Cond.	Solid Copper FPLP/R Analog I	Unshielded		Total Circuit Length (Ft):	597	Spare Current (A):	1.924
		Distance measured using drawr	n segment lengths with 10.0	0 % additional length calculate	ed		Total Circuit Resistance (Ω):	3.663358	Spare Current (A) Percent:	64.13 %
Device Label	Part No.	Description	Device Current (A)	Remaining Current (A)	Dist. From Previous (Ft)	Resistance From Previous (Ω)	Voltage Drop From Previous	Voltage At Device	Total Voltage Drop	Voltage Drop Percen
N301	PC2WL	2-Wire, Horn Strobe, White 15cd	0.071	1.076	178	0.092807	0.1	19.22	1.18	5.78 %
N302	SCWL	Strobe, White 15cd	0.041	1.005	51	0.315773	0.32	18.9	1.5	7.33 %
N303	SCWL	Strobe, White 30cd	0.063	0.964	15	0.093799	0.09	18.81	1.59	7.78 %
N304	SCWL	Strobe, White 30cd	0.063	0.901	15	0.091703	0.08	18.73	1.67	8.18 %
N305	PC2WL	2-Wire, Horn Strobe, White 15cd	0.071	0.838	17	0.106494	0.09	18.64	1.76	8.62 %
N306	SCWL	Strobe, White 15cd	0.041	0.767	47	0.291381	0.22	18.42	1.98	9.71 %
N307	SCWL	Strobe, White 15cd	0.041	0.726	14	0.085477	0.06	18.36	2.04	10.02 %
N308	SCWL	Strobe, White 15cd	0.041	0.685	23	0.138848	0.1	18.26	2.14	10.48 %
N309	PC2WL	2-Wire, Horn Strobe, White 75cd	0.143	0.644	11	0.06923	0.04	18.22	2.18	10.70 %
N310	SCWL	Strobe, White 15cd	0.041	0.501	7	0.040828	0.02	18.2	2.2	10.80 %
N311	SCWL	Strobe, White 15cd	0.041	0.46	20	0.124429	0.06	18.14	2.26	11.08 %
N312	PC2WL	2-Wire, Horn Strobe, White 95cd	0.165	0.419	26	0.160155	0.07	18.07	2.33	11.41 %
N313	SCWL	Strobe, White 75cd	0.111	0.254	87	0.534864	0.14	17.94	2.46	12.08 %
N314 EOL 4.7k	PC2WL	2-Wire, Horn Strobe, White 75cd	0.143	0.143	84	0.514991	0.07	17.86	2.54	12.44 %

Resistance From Previous (Ω) = Wire Resistance (Ω /Ft) x 2 x Dist. From Previous (Ft) Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)

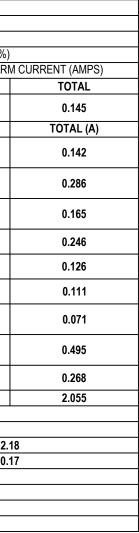
							CIRCUIT S	ETTINGS	TOT	ALS
							Starting Calculation Voltage:	20.4	Max. Voltage Drop:	1.97
		N4 P		Min. Operational Voltage:	16	End Of Line Voltage:	18.43			
							Max. Circuit Current (A):	3	Voltage Drop Percent:	9.67 %
							Wire Resistance (Ω/kFt):	3.07	Total Circuit Current (A):	0.834
	Circui	t Wiring Properties: 'C' 14/2 FPLP/F	R (NAC) 14 AWG, 2 Cond.	Solid Copper FPLP/R Analog l	Jnshielded		Total Circuit Length (Ft):	593	Spare Current (A):	2.166
		Distance measured using drawr	segment lengths with 10.0	0 % additional length calculate			Total Circuit Resistance (Ω):	3.638204	Spare Current (A) Percent:	72.20 %
Device Label	Part No.	Description	Device Current (A)	Remaining Current (A)	Dist. From Previous (Ft)	Resistance From Previous (Ω)	Voltage Drop From Previous	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
N401	SCWL	Strobe, White 95cd	0.134	0.834	222	0.36229	0.3	19.26	1.14	5.58 %
N402	PC2WL	2-Wire, Horn Strobe, White 95cd	0.165	0.7	55	0.337234	0.24	19.03	1.37	6.74 %
N403	PC2WL	2-Wire, Horn Strobe, White 95cd	0.165	0.535	124	0.76392	0.41	18.62	1.78	8.74 %
N404	PC2WL	2-Wire, Horn Strobe, White 95cd	0.165	0.37	34	0.210542	0.08	18.54	1.86	9.12 %
N405	SCWL	Strobe, White 95cd	0.134	0.205	53	0.327399	0.07	18.47	1.93	9.45 %
N406 EOL 4.7k	PC2WL	2-Wire, Horn Strobe, White 15cd	0.071	0.071	103	0.63424	0.05	18.43	1.97	9.67 %

Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)

			E (SECONDA)	ATTERY CALCULATIC	DN REMENTS)			
	PANEL P	OWER SUPPLY MAX (TAL USED CAPACITY	(IN ALARM) = 2.055A (25.69 %))
					STANDBY CURR	ENT (AMPS)	SECONDARY ALAR	М
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	
PANEL CO	OMPONENTS	1	FCPS-24S8 MAIN BOARD	Fire Alarm Power Supply Main Board	0.091	0.091	0.145	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	
	₩c	2	PC2WL	2-Wire, Horn Strobe, White 15cd	0	0	0.071	
	₩ _c	2	PC2WL	2-Wire, Horn Strobe, White 75cd	0	0	0.143	
N3	₩ _c	1	PC2WL	2-Wire, Horn Strobe, White 95cd	0	0	0.165	
	×c	6	SCWL	Strobe, White 15cd	0	0	0.041	
	×c	2	SCWL	Strobe, White 30cd	0	0	0.063	
	×c	1	SCWL	Strobe, White 75cd	0	0	0.111	
	₩ _c	1	PC2WL	2-Wire, Horn Strobe, White 15cd	0	0	0.071	
N4	₩ _c	3	PC2WL	2-Wire, Horn Strobe, White 95cd	0	0	0.165	
	×c	2	SCWL	Strobe, White 95cd	0	0	0.134	
					TOTAL STANDBY (A)	0.091	TOTAL ALARM (A)	
							DBY TIME = 24 HOURS	
						REQUIRED ALAF	RM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD (A) SECONDARY ALARM LOAD (A)				0.091	24			18
	SECONDARY A STANDBY AND ALARM S		201	2.055	0.08 2.36			17
		G FACTOR					1.2	
	SECONDARY LOAD REQU		JRS)				2.83	—
				L L L L L L L L L L L L L L L L L L L	24VDC			—



SCALE: NOT TO SCALE



Y OR FITNESS	FOR A F	ARTICULAR	PURPOSE.	The ADT	Informational	Tools contain	ADT proprietary a	nd
alo offort was	mada ta	validata thi	informati	on The A	DT Informatio	n Tools may i	ncluda tachnical	

ffort was made to validate this information. The ADT Information Tools may include technical	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Commercial 21312 30TH DRIVE
.7k	SOUTHEAST, SUITE 103 BOTHELL, WA 98021
S ^{L1D007} S ^{L1D008} S ^{L1D009} S ^{L1D010} S ^{L1D011} S ^{L1D012} S ^{L1D013} S ^{L1D014} S ^{L1D015} S ^{L1D016} S ^{L1D016} S ^{L1D017} S ^{L1D018}	ADTCOCL801UQ
	PROFESSIONAL SEAL Project Equipment Application and
S LID029 S LID027 S LID026 S LID025 S LID023 S LID022 S LID021 S LID020 S LID019	System Layout Reviewed.
S LID046 S LID050 S L	Dated: 2/15/22
	Signed: <u>Danik Robye Bay</u> DANIELLE R. BERG, ET NICET #: 127025 NICET LEVEL III FIRE ALARM SYSTEMS
	BUILDER'S CAPITAL - GATEWAY TI 1019 39TH AVE SE PUYALLUP, WA 98374 REVISIONS
	NO. DATE REVISION
	A 2/15/22 BY: RB FOR PERMIT
	APPLICABLE CODES
	BASIC CONSTRUCTION, DESIGN REQUIREMENTS AND CODE COMPLIANCE 2018 INTERNATIONAL BUILDING CODE WITH STATE AMENDMENTS 2018NATIONAL ELECTRIC CODE WITH STATE AMENDMENTS 2018 INTERNATIONAL FIRE CODE WITH STATE AMENDMENTS 2018 NFPA 101 LIFE SAFETY CODE
	BUILDING INFORMATION
	CONSTRUCTION TYPE: I-A OCCUPANCY TYPE: B STORIES: 1 IN SCOPE: 1 TOTAL SQ FT IN SCOPE: 17,100 SqFt. EXISTING FIRE ALARM SYSTEM: YES BUILDING FULLY SPRINKLERED: YES
	SCALE: NONE
	PREPARED BY: ROBYN B.
	CHECKED BY: CHRISTOPHER C.
	PROJECT MANAGER: MICHELLE B.
	DATE: 1/31/2022
	PROJECT NO: ADT-500854313
City of Puyallup Development & Permitting Services ISSUED PERMIT Building Planning Engineering Public Works	TITLE: FIRE ALARM DETAILS AND CALCS
Fire Traffic	SHEET:
	FA2.00