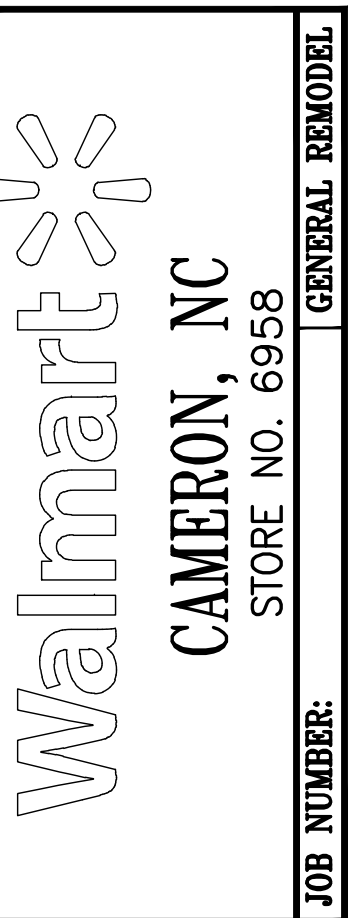
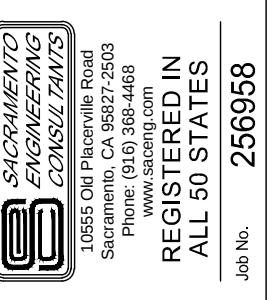


Walmart

FACILITY #6958

FIRE ALARM PLANS

LIMITED REMODEL/NAC- UPGRADE



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2800 NC 24-87
CAMERON, NC 28326

CONTRACTOR:
I.C.E.
CONTRACTORS
101 W.BURGESS RD
PENSACOLA FL 32503
CHAD HENSON CHENSON®
ICECONTRACTORS.NET
405-698-7963
www.icecontractors.net
PERMITS@
ICECONTRACTORS.NET



Date Signed: October 20, 2025

ELECTRONIC
FIRE
PROTECTION
COVER SHEET

SHEET:
EFPO

FACILITY ADDRESS

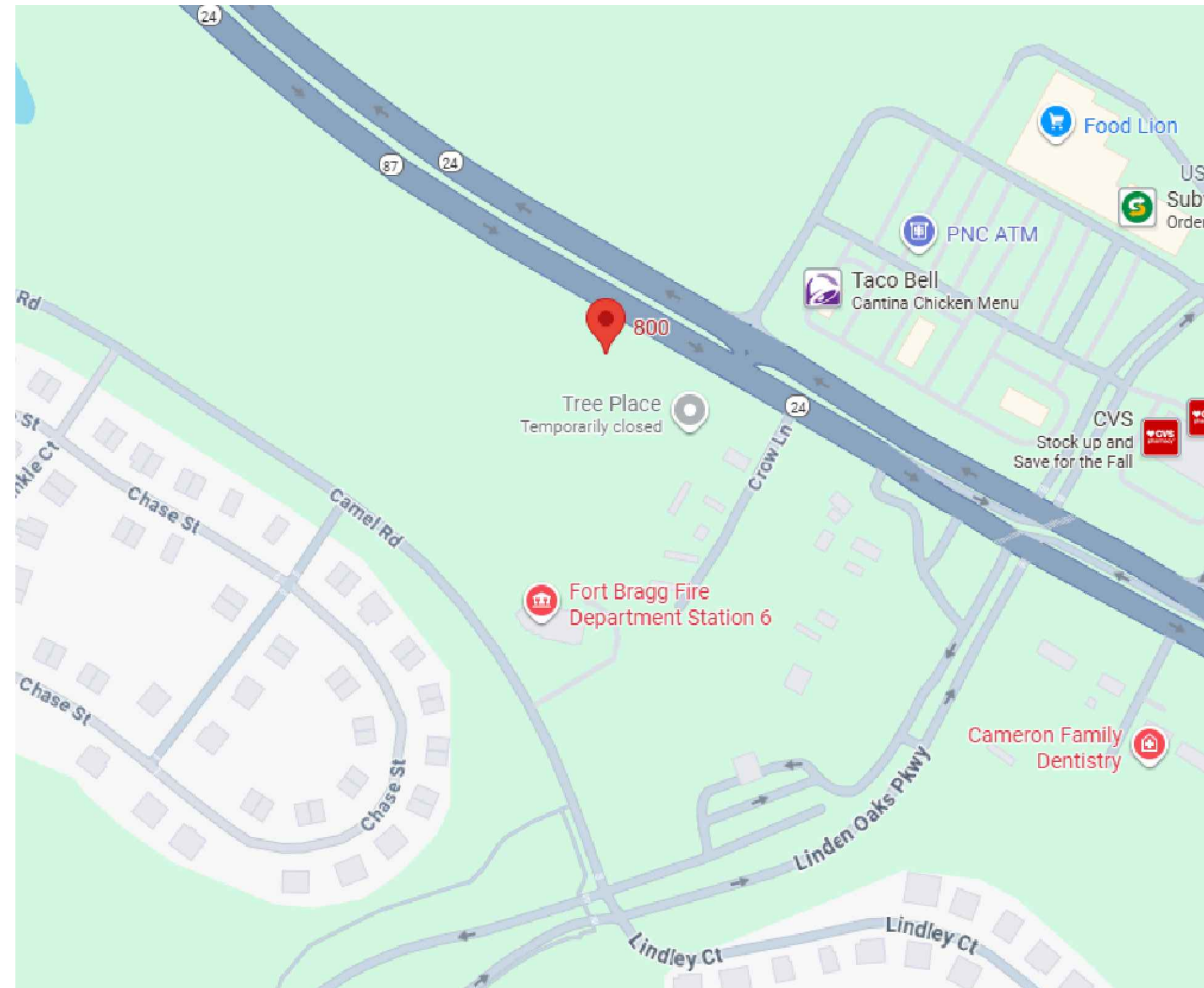
800 NC 24-87
CAMERON, NC 28326

APPLICABLE CODES

NFPA STANDARDS :	EDITION:
NFPA 72	2022
OTHER STANDARDS :	
INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS	2024
INTERNATIONAL FIRE CODE WITH LOCAL AMENDMENTS	2024

LOCAL CONTACTS

HARNETT COUNTY
DONNA JOHNSON
PROJECT COORDINATOR/CUSTOMER SERVICE REP.
DEVELOPMENT SERVICES
420 MCKINNEY PARKWAY
LILLINGTON, NC 27546
(910)814-6431



SITE MAP

SHEET INDEX

EFPO	ELECTRONIC FIRE PROTECTION COVER SHEET
EFP1	ELECTRONIC FIRE PROTECTION PLAN
EFP2	ELECTRONIC FIRE PROTECTION NOTIFICATION RISER DIAGRAM, DETAILS
EFP3	ELECTRONIC FIRE PROTECTION CALCS

ENGINEER CONSULTANT

PROJECT ENGINEER	RICKERT HENRIKSEN
PROJECT DESIGNER	HIMANSHU BHARTIYA
PHONE NUMBER	916-368-4468
PROJECT DESIGNER EMAIL ADDRESS	HIMANSHU@SACENG.COM

WALMART SECURITY ENGINEER

ASSIGNED WALMART SECURITY ENGINEER	RICARDO ALVAREZ
SECURITY ENGINEER PHONE NUMBER	479-371-3256
SECURITY ENGINEER EMAIL ADDRESS	RICARDO.ALVAREZ@WALMART.COM

SECURITY TECHNOLOGY SECURITY MANAGER

ASSIGNED WALMART SECURITY MANAGER	JOHN GRIFFIN
SECURITY MANAGER PHONE NUMBER	479-866-4515
SECURITY MANAGER EMAIL ADDRESS	JOHN.R.GRIFFIN@WALMART.COM

SECURITY TECHNOLOGY COORDINATOR

ASSIGNED WALMART ALARM COORDINATOR	DANIEL VANHECKE
ALARM COORDINATOR PHONE NUMBER	479-374-2731
ALARM COORDINATOR EMAIL ADDRESS	DANIEL.VANHECKE@WALMART.COM

SCOPE OF WORK

THE FIRE ALARM SCOPE OF WORK CONSISTS OF THE FOLLOWING:

- 1) INSTALL (3) NEW POWER SUPPLY AS SHOWN.
- 2) INSTALL (82) NEW STROBES AND (73) NEW HORN STROBES AS SHOWN AND CONNECT TO NEW POWER SUPPLY.
- 3) INSTALL (7) NEW WALL MOUNT HORN STROBES AS SHOWN AND CONNECT TO NEW POWER SUPPLY.
- 4) DEMOLISH EXISTING VOICE EVACUATION SYSTEM INCLUDING SPEAKER STROBES AND AMPLIFIERS.
- 5) RUN NEW SLC LOOP FROM EXISTING FACP TO EXISTING INITIATING DEVICES.
- 6) RE-DIP ALL POPITS FOR NEW B299 POPEX.

FIRE ALARM CONTRACTOR TO MAKE FINAL CX CONNECTIONS TO THE FIRE ALARM.
ALL OTHER FIRE ALARM DEVICES SHALL REMAIN.

REMODEL/EXPANSIONS FIRE ALARM PROJECTS ONLY

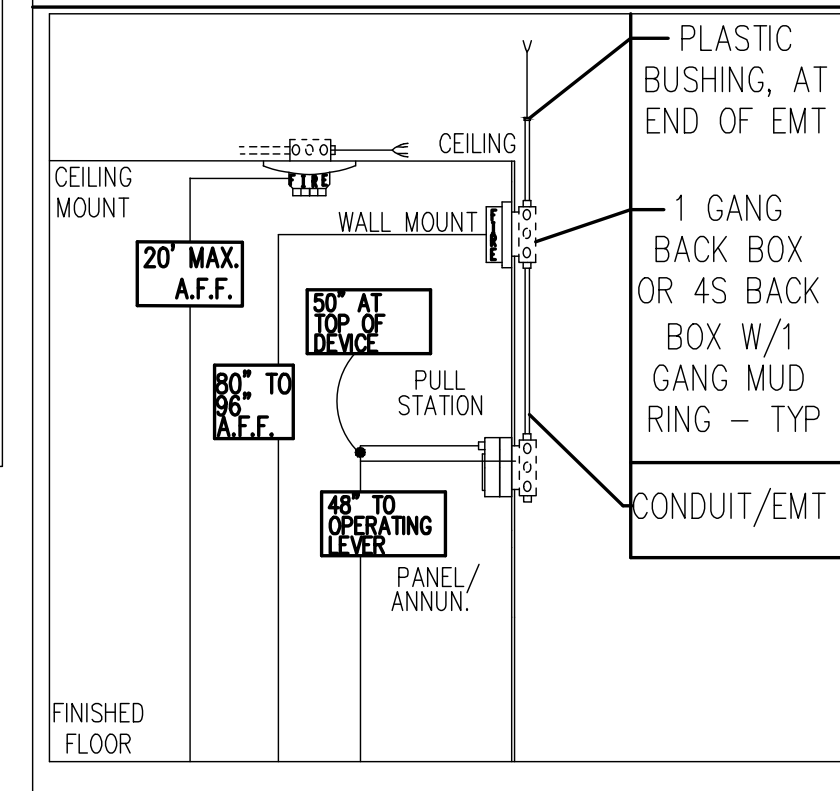
REMOVAL NOTES TO ALARM INSTALLER:
ALARM INSTALLER TO MAINTAIN THE EXISTING FACP SYSTEM OPERATIONAL THROUGH THE REMODEL/EXPANSION PROCESS. UPON BRINGING UP NEW FACP SYSTEM, THE ALARM INSTALLER WILL REMOVE THE OLD SYSTEM DEVICES INCLUDING OLD FACP, SYSTEM CABLING, ALL SPEAKER STROBES, STROBE, POWER SUPPLIES, KEYPADS AND AUDIO BOOSTERS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CORRECT QUANTITIES FOR ALL EXISTING DEVICES TO BE REMOVED AND NO EXTRA WILL BE ISSUED FOR HIS FAILURE TO DO SO. CONTRACTOR WILL PROVIDE A BLANK PLATE COVER FOR ANY J-BOXES LEFT UNUSED.

EXISTING FIRE ALARM INITIATION

- THE BUILDING IS PROTECTED BY AN EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM.
THE EXISTING FIRE ALARM CONSISTS OF THE FOLLOWING:
- 1) SUPERVISE ALL VALVES CONTROLLING THE SPRINKLER SYSTEM.
 - 2) MONITOR EXISTING SMOKE DETECTORS TO PROTECT THE ("FACP") & POWER SUPPLIES. ADDITIONAL EXISTING SMOKE DETECTION IS LOCATED ON SALES FLOOR, ENTRY/EXIT VESTIBULES AND STOCKROOMS TO INITIATE AN "ALARM" CONDITION.
 - 3) MONITOR EXISTING AUTOMATIC EXTINGUISHING SYSTEMS (ANSUL, ETC.) TO INITIATE AN "ALARM" CONDITION.
 - 4) MONITOR EXISTING DUCT SMOKE DETECTORS FOR ALL AC UNITS

IT WILL BE THE RESPONSIBILITY OF THE ALARM INSTALLER TO MAINTAIN THE EXISTING SYSTEM DURING THE DURATION OF THE PROJECT AS REQUIRED BY CODE.

MOUNTING HEIGHT



CEILING HEIGHT NOTE

CEILING HEIGHT IS 20'-0" IN SALES AND RECEIVING AREAS, AND 10'-0" IN OFFICE AND T.I. AREAS

FIRE ALARM SYMBOLS LEGEND			
SYMBOL	QTY.	DESCRIPTION	MAKE/MODEL
FACP	EXISTING	FIRE ALARM CONTROL PANEL	BOSCH B9512G
FAA	EXISTING	FIRE ALARM KEYPAD	BOSCH B926F
CELL	EXISTING	PLUG IN CELL MODULE	BOSCH B444
NAC	3 NEW	NOTIFICATION POWER SUPPLY	ALTRONIX AL1002ULADA
②	EXISTING	SMOKE DETECTOR W/ END OF LINE RELAY	BOSCH D273THE
■	EXISTING	MANUAL PULL STATION	BOSCH FMM-100SATK
②	EXISTING	DUCT SMOKE DETECTOR	SYSTEM SENSOR D4120
75sd	82 NEW	CEILING MOUNT STROBE MULTI CANDELA, L SERIES	SYSTEM SENSOR SCORLED
75sd	73 NEW	CEILING MOUNT HORN/STROBE MULTI CANDELA, L SERIES	SYSTEM SENSOR PC2RLD
75sd	7 NEW	WEATHERPROOF WALL MOUNT HORN/STROBE, MULTI CANDELA	SYSTEM SENSOR P2GRKLED, 75sd UNLESS OTHERWISE NOTED.
PT	6 NEW	POPIT MODULE	BOSCH D9127U
⊗	EXISTING	WATERFLOW INDICATOR SWITCH	EXISTING
⊗	EXISTING	SPRINKLER SYSTEM CONTROL VALVE SUPERVISORY TAMPER SWITCH	EXISTING
RTS	EXISTING	REMOTE TEST SWITCH	EXISTING
D192G	EXISTING	NAC MODULE	BOSCH D192G
⊗		END OF LINE RESISTOR/DEVICE	PER MANUFACTURER
⊗	EXISTING	COOKING HOOD SUPPRESSION SYSTEM	(POINT OF CONNECTION ONLY)
FAD	EXISTING	DOCUMENT ENCLOSURE	SPACE AGE SSU00685
SYNC	EXISTING	SYNC MODULE	SYSTEM SENSOR MDL3
WIRE LEGEND			
A		FIRE ALARM SYSTEM	3pr #18 AWG FPL TWISTED
B		NOTIFICATION CIRCUIT	1pr #12 AWG FPL 2IP
C		MULTIPLE CABLES	
PLENUM RATED CABLE FPLP SHALL BE UTILIZED IN PLENUM RATED CEILING AREAS ONLY WP = WEATHERPROOF CABLE SHALL BE PROVIDED AS REQUIRED (+) POSITIVE CIRCUIT POLARITY (-) NEGATIVE CIRCUIT POLARITY			

DEMO RECOMMENDATIONS

EXISTING NOTIFICATION APPLIANCES	QUANTITY
NAC/VOICE EVAC WIRING	ALL
ANSUL(S)	0
FIRE/BURG WIRING	0
EXISTING DUCT DETECTORS	0
EXISTING KEYPADS	0
EXISTING SYSTEM POPIT(S)	0
EXISTING PANEL	0
EXISTING CONDUIT	ALL
EXISTING POWER SUPPLIES	7
EXISTING CANS IN EDC ROOMS	0
REMOTE KEY SWITCHES	0
EXISTING DOOR CONTACTS	0
EXISTING MOTIONS	0
EXISTING GLASS BREAKS	0
SIREN(S)	0
SPEAKER STROBES	165

NOTE: THE ABOVE DEMO NOTES ARE FROM THE PM SITE SURVEY, AND HAVE NOT BEEN VERIFIED BY SACRAMENTO ENGINEERING CONSULTANTS. CONTRACTOR TO DETERMINE ACTUAL DEMOLITION REQUIREMENTS FROM FIELD BEFORE START OF CONSTRUCTION.

THE ALARM INSTALLER IS RESPONSIBLE FOR ANY ASSOCIATED CONDUIT TO COMPLETE THE INSTALLATION. THIS WILL INCLUDE BUT NOT LIMITED TO WALL PENETRATION SLEEVES, BACK BOXES FOR AUDIO VISUALS, KEYPAD BOXES AND STUBS, WATER FLOW AND TAMPER DETECTOR BOXES AND STUBS, RTU TEST SWITCHES BOXES AND STUBS.

ELECTRONIC FIRE PROTECTION PLAN

SCALE: 1" = 20'-0"

1

EFP1



Walmart*
CAMERON, NC
STORE NO. 6958

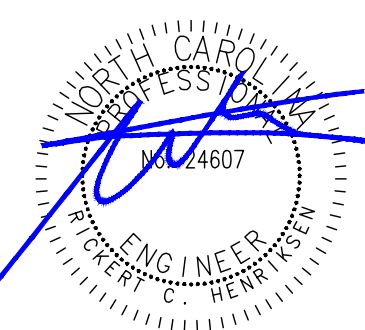
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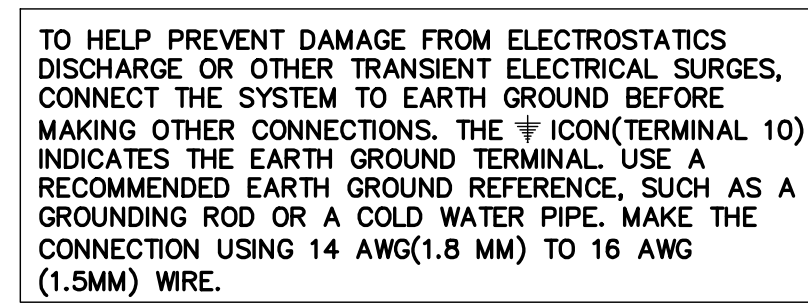


Date Signed: October 20, 2025

**ELECTRONIC
FIRE
PROTECTION
PLAN**

SHEET:

EFP1



AHJ / COMPLIANCE NOTES
"PROPRIETARY SYSTEM"

1. THIS SYSTEM DESIGN IS BASED UPON COMPLIANCE WITH THE NATIONAL, STATE AND LOCAL CODES. THE OCCUPANCY CLASS IS MERCANTILE.
2. REMOTE ANNUNCIATOR(S) WILL FEATURE POINT I.D. OF ALL DEVICES/ZONES IN PLAIN ENGLISH DISPLAY. THE FACP CABINET HAS NO ANNUNCIATOR OR USER INTERFACE CONTROLS, AND IS A CABINET HOUSING (NON-ANALOG ADDRESSABLE) CIRCUITRY ONLY.
3. AT LEAST ONE MANUAL STATION WILL BE INSTALLED AND LOCATED WHERE REQUIRED BY THE AHJ, PER NFPA 72. UNLESS OTHERWISE SPECIFIED BY THE AHJ, IT WILL BE LOCATED PER THE DRAWING.
4. ONE SMOKE DETECTOR WILL BE INSTALLED ABOVE THE FACP IN ACCORDANCE WITH NFPA 72.
5. AIR HANDLING UNITS IN EXCESS OF 2000 CFM WHICH INCLUDING DUCT SMOKE DETECTORS SHALL SHUT DOWN THEIR RESPECTIVE FANS AND CAUSE A "SUPERVISORY" SIGNAL ON THE CPU PER NFPA 90A. SEE SCOPE OF MECHANICAL CONTRACTORS SHOP DRAWINGS FOR DETAILS.
6. ALL NON-REQUIRED DEVICES INDICATED IN THE SUBMITTAL (IF ANY), ARE VOLUNTARILY PROVIDED AND ARE DESIGNATED AS "SUPPLEMENTARY" IN NATURE, AS DEFINED IN NFPA 72.
7. AUDIBLE AND VISUAL NOTIFICATION APPLIANCES ARE PROVIDED AS INDICATED ON THE PLAN.
8. WALMART SECURITY TECHNOLOGY WILL INSTALL THE FIRE ALARM WHERE LEGALLY ENTITLED BY LICENSING, PERMITTING, CERTIFICATION OR EXEMPTION. LOCAL CONTRACTOR TO BE USED ELSEWHERE.
9. OFF PREMISES, AUTOMATIC EMERGENCY NOTIFICATION WILL BE VIA IP COMMUNICATOR AND/OR 2-LINE DACT TO WAL-MART'S UL LISTED (UUFX) CENTER. SEE UL FILE #S3152-1 FOR CERTIFICATE INFORMATION.
10. WIRING WILL BE INSTALLED PER (THE NEC) NFPA 70 AND ALL OTHER APPLICABLE SECTIONS. ALL EQUIPMENT SHALL BE PROPERLY LISTED PER NFPA 72.
11. THIS SYSTEM IS DESIGNATED AS A "PROPRIETARY SUPERVISING STATION SYSTEM" IN ACCORDANCE WITH NFPA 72 WITH 24 HOURS OF STAND-BY POWER THEN 5 MINUTES IN "ALARM" PER NFPA 72. STORE MANAGEMENT PERSONNEL ARE DESIGNATED FOR 1 HOUR RUNNER SERVICE.
12. THESE NOTES DO NOT SUPERCEDE REQUIREMENTS OF OTHER TRADES, SPECIFICALLY INCLUDING MECHANICAL.
13. APPLICABLE STATE AND LOCAL MODIFICATIONS ADOPTED THROUGH DUE PROCESS OF LAW AND WHICH CONFLICT WITH THESE NOTES SHALL SUPERCEDE AND COPIES SHOULD BE CONVEYED TO THE CONTACT PERSON INDICATED BELOW.

DIRECT FIRE ALARM RELATED (ONLY) COMPLIANCE ISSUES TO:

SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE RD
SACRAMENTO, CA 95827
PHONE: 916-368-4468
FAX: 916-368-4490
EMAIL: rh@soceng.com

POINT TO BE ANNUNCIATED AS :		POINT TYPE	
		FIRE ALARM	SUPERVISORY ALARM
RISER #1 WATERFLOW		x	
RISER #2 WATERFLOW		x	
RISER #3 WATERFLOW		x	
RISER #4 WATERFLOW		x	
RISER #5 WATERFLOW		x	
RISER #1 TAMPER			x
RISER #2 TAMPER			x
RISER #3 TAMPER			x
RISER #4 TAMPER			x
RISER #5 TAMPER			x
#6 TAMPER			x
PIV TAMPER			x
MANUAL PULL STATION		x	
SMOKE / HEAT DETECTORS		x	
DUCT SMOKE DETECTORS			x
COOKING HOOD SUPPRESSION SYSTEM		x	

ALL FIRE ALARM SYSTEM CIRCUIT WIRING MUST ANNUNCIATE A TROUBLE SIGNAL DURING OPEN AND CLOSED FAULT CONDITIONS. ADDITIONALLY ALL OUTPUT CIRCUITS (HORNS/STROBES) ARE REQUIRED TO ANNUNCIATE A TROUBLE SIGNAL DURING A WIRE TO WIRE SHORT CONDITION. THE FIRE ALARM SYSTEM WILL BE TESTED BY THE OWNER'S REPRESENTATIVES TO THE CRITERIA OF NFPA 72.

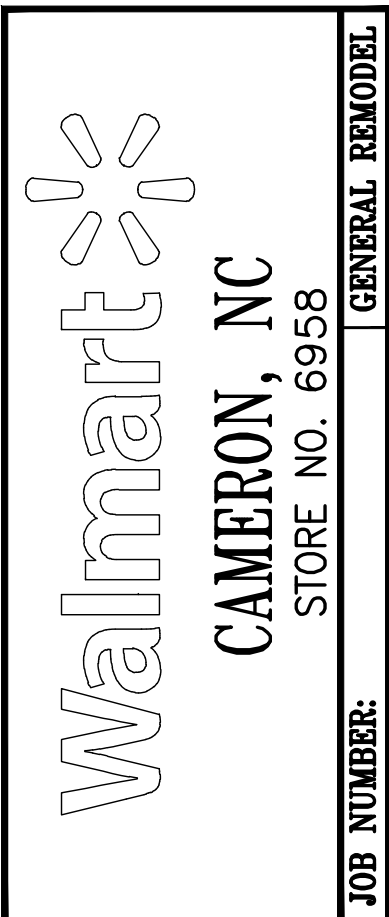
POWER SUPPLY #1 BATTERY CALCULATIONS					
Device	Quantity	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
AL1002ULADA	1	0.129	0.129	0.129	0.129
Notification Appliances LOOP 1					
CEILING STROBE SCRLED@115 CD	5	0.000	0.000	0.090	0.450
CEILING HORN STROBE PC2RLED@115 CD	5	0.000	0.000	0.120	0.600
Notification Appliances LOOP 2					
CEILING STROBE SCRLED@115 CD	5	0.000	0.000	0.090	0.450
CEILING HORN STROBE PC2RLED@115 CD	5	0.000	0.000	0.120	0.600
Notification Appliances LOOP 3					
CEILING STROBE SCRLED@115 CD	5	0.000	0.000	0.090	0.450
CEILING HORN STROBE PC2RLED@115 CD	5	0.000	0.000	0.120	0.600
Notification Appliances LOOP 4					
CEILING STROBE SCRLED@115 CD	5	0.000	0.000	0.090	0.450
CEILING HORN STROBE PC2RLED@115 CD	5	0.000	0.000	0.120	0.600
TOTAL S		TOTAL STANDBY	0.129	TOTAL ALARM	4.329
COMPUTATIONS					
TOTAL AMPS USED IN STANDBY=	0.129	X	24 HOURS=	3.096	AH
TOTAL AMPS USED IN ALARM=	4.329	X	5 MINUTES=	0.359	AH
		+25% CONTINGENCY=		0.864	AH
TOTAL BACKUP BATTERY REQUIREMENTS=				4.319	AH
		TOTAL BACKUP BATTERY PROVIDED=		7.000	AH
		TOTAL BACKUP BATTERY REQUIRED=		4.319	AH
		TOTAL BACKUP BATTERY RESERVED=		2.681	AH
PROVIDE (2)12VDC, 7.0 ah batteries for 7.0 amp hours at 24VDC.					

POWER SUPPLY #2 BATTERY CALCULATIONS					
Device	Quantity	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
AL1002ULADA	1	0.129	0.129	0.129	0.129
Notification Appliances LOOP 1					
CEILING STROBE SCRLED@115 CD	5	0.000	0.000	0.090	0.450
CEILING HORN STROBE PC2RLED@115 CD	5	0.000	0.000	0.120	0.600
Notification Appliances LOOP 2					
CEILING STROBE SCRLED@15 CD	5	0.000	0.000	0.018	0.090
CEILING STROBE SCRLED@75 CD	7	0.000	0.000	0.070	0.490
CEILING HORN STROBE PC2RLED@75 CD	6	0.000	0.000	0.087	0.522
CEILING HORN STROBE PC2RLED@115 CD	1	0.000	0.000	0.120	0.120
Notification Appliances LOOP 3					
CEILING STROBE SCRLED@75 CD	8	0.000	0.000	0.070	0.560
CEILING STROBE SCRLED@115 CD	1	0.000	0.000	0.090	0.090
CEILING HORN STROBE PC2RLED@75 CD	7	0.000	0.000	0.087	0.609
CEILING HORN STROBE PC2RLED@115 CD	1	0.000	0.000	0.120	0.120
Notification Appliances LOOP 4					
CEILING STROBE SCRLED@75 CD	7	0.000	0.000	0.070	0.490
CEILING HORN STROBE PC2RLED@75 CD	9	0.000	0.000	0.087	0.783
TOTALS		TOTAL STANDBY	0.129	TOTAL ALARM	5.053
COMPUTATIONS					
TOTAL AMPS USED IN STANDBY=	0.129	X	24 HOURS=	3.096	AH
TOTAL AMPS USED IN ALARM=	5.053	X	5 MINUTES=	0.419	AH
		+25% CONTINGENCY=		0.879	AH
TOTAL BACKUP BATTERY REQUIREMENTS=				4.394	AH
		TOTAL BACKUP BATTERY PROVIDED=		7.000	AH
		TOTAL BACKUP BATTERY REQUIRED=		4.394	AH
		TOTAL BACKUP BATTERY RESERVED=		2.606	AH
PROVIDE (2)12VDC, 7.0 ah batteries for 7.0 amp hours at 24VDC.					

POWER SUPPLY #3 BATTERY CALCULATIONS					
Device	Quantity	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
AL1002ULADA	1	0.129	0.129	0.129	0.129
Notification Appliances LOOP 1					
CEILING STROBE SCRLED@75 CD	1	0.000	0.000	0.070	0.070
CEILING STROBE SCRLED@115 CD	1	0.000	0.000	0.090	0.090
CEILING HORN STROBE PC2RLED@75 CD	3	0.000	0.000	0.087	0.261
CEILING HORN STROBE PC2RLED@115 CD	1	0.000	0.000	0.120	0.120
(WEATHER PROOF) WALL HORN STROBE P2RLED/PC2RKLED@75 CD	2	0.000	0.000	0.087	0.174
(WEATHER PROOF) WALL HORN STROBE P2RLED/PC2RKLED@110 CD	2	0.000	0.000	0.094	0.188
Notification Appliances LOOP 2					
CEILING STROBE SCRLED@15 CD	10	0.000	0.000	0.018	0.180
CEILING STROBE SCRLED@115 CD	1	0.000	0.000	0.090	0.090
CEILING HORN STROBE PC2RLED@75 CD	4	0.000	0.000	0.087	0.348
CEILING HORN STROBE PC2RLED@115 CD	2	0.000	0.000	0.120	0.240
(WEATHER PROOF) WALL HORN STROBE P2RLED/PC2RKLED@75 CD	2	0.000	0.000	0.087	0.174
Notification Appliances LOOP 3					
CEILING STROBE SCRLED@15 CD	6	0.000	0.000	0.018	0.108
CEILING STROBE SCRLED@75 CD	6	0.000	0.000	0.070	0.420
CEILING HORN STROBE PC2RLED@75 CD	7	0.000	0.000	0.087	0.609
Notification Appliances LOOP 4					
CEILING STROBE SCRLED@15 CD	1	0.000	0.000	0.018	0.018
CEILING STROBE SCRLED@75 CD	4	0.000	0.000	0.070	0.280
CEILING HORN STROBE PC2RLED@75 CD	6	0.000	0.000	0.087	0.522
WEATHER PROOF WALL HORN STROBE P2RK@75 CD	1	0.000	0.000	0.176	0.176
TOTALS		TOTAL STANDBY	0.129	TOTAL ALARM	4.197
COMPUTATIONS					
TOTAL AMPS USED IN STANDBY=	0.129	X	24 HOURS=	3.096	AH
TOTAL AMPS USED IN ALARM=	4.197	X	5 MINUTES=	0.348	AH
		+25% CONTINGENCY=		0.861	AH
TOTAL BACKUP BATTERY REQUIREMENTS=				4.305	AH
		TOTAL BACKUP BATTERY PROVIDED=		7.000	AH
		TOTAL BACKUP BATTERY REQUIRED=		4.305	AH
		TOTAL BACKUP BATTERY RESERVED=		2.695	AH
PROVIDE (2)12VDC, 7.0 ah batteries for 7.0 amp hours at 24VDC.					

B9512G BATTERY CALCULATIONS						
Description	Device	Quantity	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
Control Panel	B9512G	1	0.1800	0.1800	0.2600	0.2600
Dual Class A/B NAC Module	D192G	1	0.0350	0.0350	0.1000	0.1000
Cellular Communicator	B444V	1	0.0350	0.0350	0.1000	0.1000
Annunciator / Keypad (FAA)	B926F	2	0.0350	0.0700	0.0700	0.1400
Eathernet Module	B426	1	0.1000	0.1000	0.1000	0.1000
POPITS	D9127U	87	0.0008	0.0696	0.0008	0.0696
POPITS(NEW)	D9127U	6	0.0008	0.0048	0.0008	0.0048
POPEX Module	B299	1	0.0350	0.0350	0.0350	0.0350
Sync Module	MDL3	1	0.0000	0.0000	0.0035	0.0035
12v-4w Smoke Detector EOLR	D273	1	0.0150	0.0150	0.0360	0.0360
TOTALS			TOTAL STANDBY	0.544	TOTAL ALARM	0.849
COMPUTATIONS						
TOTAL AMPS USED IN STANDBY=	0.544	X	24 HOURS =	13.066	AH	
TOTAL AMPS USED IN ALARM =	0.849	X	5 MIN =	0.071	AH	
		+25% CONTINGENCY=		3.284	AH	
TOTAL STANDBY BATTERY REQUIREMENTS=				16.420	AH	
		TOTAL BACKUP BATTERY PROVIDED=		18.000	AH	
		TOTAL BACKUP BATTERY REQUIRED=		16.420	AH	
		TOTAL BACKUP BATTERY RESERVED=		1.580	AH	
EXISTING (1) 18ah battery to provide 18 amp hours at 12 volts						

VOLTAGE DROP CALCULATION						
WIRE GAUGE (# 12) R=0.00171 ohm/FT						
	A	B	C	D		
NAC CIRCUIT	SOURCE VOLTAGE	TOTAL AMP	WIRE LENGTH (FEET)	VOLT DROP (2xRxBxC)	% DROP (D/A)	VOLTAGE AT LAST DEVICE (A-B)
#1-1	20.4	1.05	775	2.78	13.64	17.62
#1-2	20.4	1.05	675	2.42	11.88	17.98
#1-3	20.4	1.05	800	2.87	14.08	17.53
#1-4	20.4	1.05	900	3.23	15.84	17.17
#2-1	20.4	1.05	950	3.41	16.72	16.99
#2-2	20.4	1.222	700	2.93	14.34	17.47
#2-3	20.4	1.379	700	3.30	16.18	17.10
#2-4	20.4	1.273	750	3.27	16.01	17.13
#3-1	20.4	0.903	875	2.70	13.25	17.70
#3-2	20.4	1.032	950	3.35	16.44	17.05
#3-3	20.4	1.137	825	3.21	15.73	17.19
#3-4	20.4	0.996	900	3.07	15.03	17.33



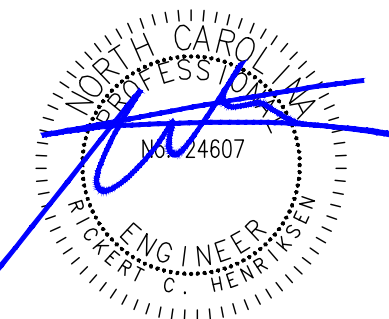
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