PROJECT INFORMATION

NAME OF PROJECT:

1585 BUFFALO LAKE ROAD ADDRESS: SANFORD, NC 27332

PROPOSED USE: BUSINESS

FIRE ALARM VENDOR: VECTOR SECURITY

> SUITE 123 GAINESVILLE, VA 20155

KRISTOPHER MILLER FIRE ALARM DESIGNER: (703) 468-6100 VECTOR SECURITY

2500 MAITLAND CENTER PARKWAY

13555 WELLINGTON CENTER CIRCLE

MAITLAND, FL 32751

FIRE ALARM MONITORED BY: VECTOR SECURITY (724) 741-2200 2000 ERICSSON DR. UL# S2535 WARRENDALE, PA 15086

INSTALLING CONTRACTOR: TBD

NAME OF CONTRACTOR:

PHONE OF CONTRACTOR: LICENSE NUMBER:

OCCUPANCY INFORMATION

TOTAL SQUARE FT. 6,600 SPRINKLED

SCOPE OF WORK

THIS PROJECT INVOLVES THE INSTALLATION & TESTING OF A NEW FIRE ALARM SYSTEM WITHIN A NEW MAVIS STORE. THE SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED MONITORING STATION. THE COMMUNICATION PATHS WILL SOLE PATH CELLULAR.

APPLICABLE BUILDING CODES

CODES BUILDING 2018 IBC

FIRE 2018 IFC ELECTRICAL 2014 NEC

NFPA 72 2013 NFPA 72 MECHANICAL 2018 IMC

OTHER OTHER

NOTES

- 1. A MICROPROCESSOR-BASED MULTIPLEX FIRE ALARM SYSTEM WITH INTELLIGENT, ADDRESSABLE INITIATION DEVICES WILL BE REQUIRED. THE RISER DIAGRAM IS BASED AROUND A MULTIPLEX ADDRESSABLE SYSTEM. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED CENTRAL STATION MONITORING SERVICE. INTERFACE EQUIPMENT WILL BE FULLY UL LISTED AND FM APPROVED FOR THIS
- 2. SIGNALING LINE CIRCUITS SHALL BE CLASS B, STYLE 4 MINIMUM. INITIATING DEVICE CIRCUITS SHALL BE CLASS B, STYLE B MINIMUM. NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS B, STYLE Y MINIMUM.
- 3. OUTDOOR DEVICES (WHEN REQUIRED) SHALL BE MOUNTED ON CAST
- WEATHERPROOF OUTLET BOXES (2 GANG BELL BOX). 4. ALL FIRE ALARM CABLING SHALL BE ROUTED THROUGH CONDUIT FROM DEVICES TO BOTTOM OF THE BAR JOIST. AT THAT POINT CABLING SHALL BE RUN EXPOSED ALONG THE CEILING IF ACCEPTABLE BY THE AHJ.
- 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE VOLTAGE (120 V. MAX.) IN SEPARATE CONDUIT. SHALL BE INSTALLED PER NEC UNLESS OTHERWISE NOTED BY LOCAL AUTHORITIES.
- 6. ALL EXPOSED CABLE BELOW THE BOTTOM OF THE BAR JOIST, OTHER ROOF STRUCTURE OR OTHER LOCATIONS WHERE THE CABLE MAY BECOME EXPOSED AND/OR DAMAGED, MUST BE INSTALLED WITHIN A STEEL CONDUIT. ALL SPLICES SHALL BE TERMINATED IN A BOX MARKED AS SPLICE POINT. THE SPACE ABOVE THE DROP CEILING IS CONSIDERED PROTECTED AND DOES NOT REQUIRE CONDUIT FROM THE STRUCTURE TO THE DEVICE ON THE CEILING TILE.
- '. SYSTEM OPERATION, TESTING, TURN OVER, WARRANTY, COMPLIANCE, AND AFTER MARKET SERVICE SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR.
- 8. VECTOR SECURITY SHALL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY VECTOR SECURITY.
- 9. ALL CONDUIT, BOXES (UNLESS OTHERWISE INDICATED), FITTINGS, COUPLINGS, CONNECTORS, STRAPS, SUPPORTS, PULL-LINES, BUSHINGS, ETC. SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA 70.
- 10. ALL CONDUIT AND BACK BOX SIZES SHALL BE COORDINATED WITH THE FIRE ALARM CONTRACTOR.
- 11. ALL CONDUIT SHALL BE STUBBED UP TO BOTTOM OF BAR JOIST.
- 12.NO HORIZONTAL RUNS ON WALLS WILL BE ALLOWED BELOW THE BAR JOIST.
- 13.LOOSE WIRE SHALL BE INSTALLED AND SECURED TO THE UPPER LEVEL OF THE BAR JOIST AND SHALL RUN EITHER PARALLEL OR AT 90° TO THE JOIST. NO DIAGONAL WIRING WILL BE ALLOWED.
- 14. THE INSTALLATION CONTRACTOR SHALL COORDINATE ALL LOCATIONS WITH THE LATEST FIXTURE PLANS PRIOR TO INSTALLATION.
- 15. ALL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72.
- 16. AUDIBLE EVACUATION SIGNAL SHALL BE TEMPORAL 3 PER NFPA 72.
- 17. A SYSTEM RECORD DOCUMENT BOX SHALL BE INSTALLED PER NFPA 72.
- 18. FIRE ALARM BREAKER SHALL BE LOCKED UP AND LABELED.
- 19.FIRE ALARM CONTROL PANEL OPERATING CONTROLS SHALL NOT BE MORE THAN 72"ABOVE THE FINISHED FLOOR LEVEL.

INDEX OF DRAWINGS

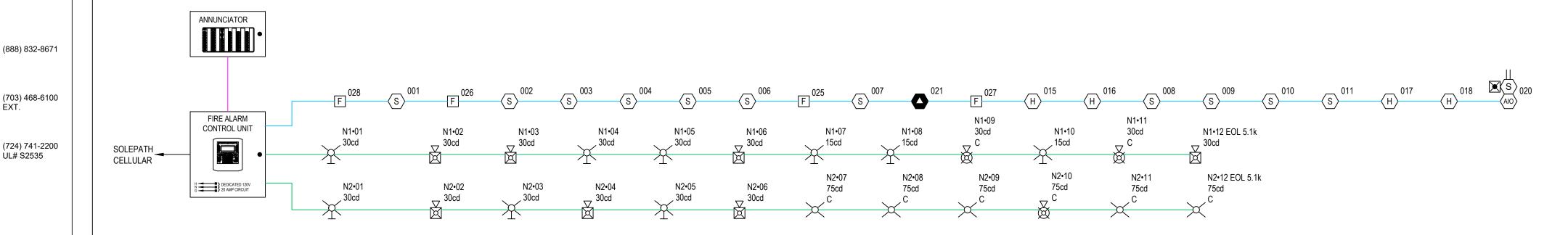
TITLE SHEET, GENERAL NOTES, SYSTEM RISER DIAGRAM

FA-1 SYSTEM CALCULATIONS FIRE ALARM SYSTEM UPGRADE LAYOUT FA-2

FA-3

DETAILS CONDUIT NOTES

SYSTEM RISER DIAGRAM



SYSTEM

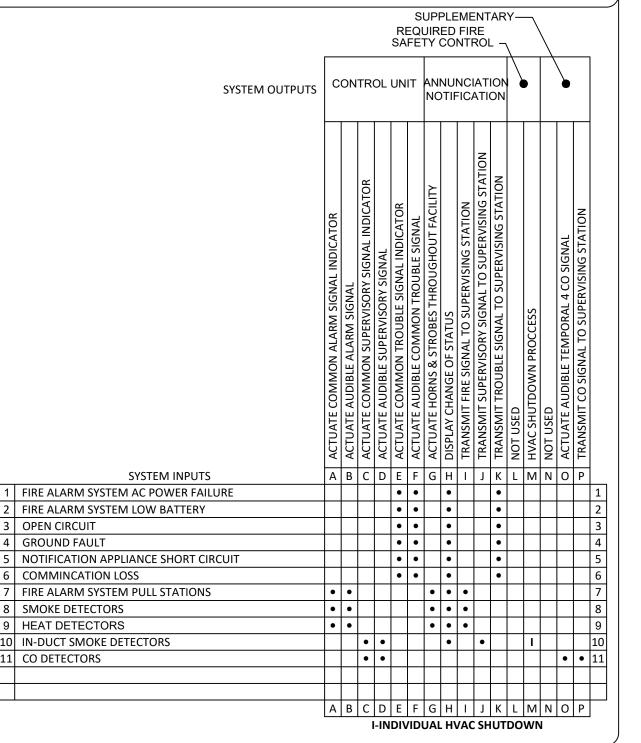
ANNUNCIATION

DEVICE LABEL	LOCATION		
D001	FACP SMOKE		
D002	MENS SMOKE		
D003	STAFF SMOKE		
D004	BREAK RM SMOKE		
D005	WOMENS SMOKE		
D006	SHOWROOM SMOKE 1		
D007	SHOWROOM SMOKE 2		
D008	TIRE STORAGE SMK 1		
D009	TIRE STORAGE SMK 2		
D010	TIRE STORAGE SMK 3		
D011	TIRE STORAGE SMK 4		
D012			
D013			
D014			
D015	SERVICE AREA HEAT 1		
D016	SERVICE AREA HEAT 2		
D017	SERVICE AREA HEAT 3		
D018	SERVICE AREA HEAT 4		
D019			
D020	DUCT SMK DETECTOR		
D021	CO DETECTOR		
D022			
D023			
D024			
D025	SHOW ROOM PULL		
D026	SERVICE AREA PULL 1		
D027	SERVICE AREA PULL 2		
D028	TIRE STORAGE PULL		

D029

D030

SYSTEM INPUT/OUTPUT MATRIX



REVISIONS

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08/21/2025 2:16:41 PM

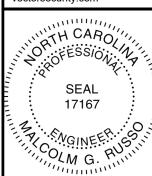
Harnett C O U N T Y

SYSTEM TIRE 2266
FALO LAKE ROAD
ORD NG 27332

SUBMITTALS PREPARED BY:

VECTOR SECURITY NETWOR 2500 MAITLAND CTR PKWY MAITLAND, FL 32751 703-468-6100

ENGINEER OF RECORD Malcolm Russo 2500 MAITLAND CTR PKWY SUITE 105 703-468-6100 NADFireEngineering@ vectorsecurity.com



DRAWN BY: KRM DATE: 06/12/2025

SHEET: FA-0

SHEET NO.: 1

PANEL BATTERY CALCULATIONS AND VOLTAGE LOSS

				PANEL (AFC-50) BATTERY CALCULATION				
			(SEC	ONDARY POWER SOURCE REQUIREN				
					STANDBY (SECONDARY ALA	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS		1	AFC-50	FIRE ALARM CONTROL PANEL	0	0	0	0
		1	AFC-50 MAIN BOARD	FIRE ALARM CONTROL PANEL	0.13	0.13	0.22	0.22
				MAIN BOARD UNIVERSAL DUAL PATH			+	
		1	B465	COMMUNICATOR	0.12	0.12	0.16	0.16
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
000	<u> </u>			2201	()	- ()	()	- ()
	(AIO)	1	PAD100-OROI	ONE RELAY ONE INPUT MODULE	0.00024	0.00024	0.00024	0.00024
	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	'	1710 OKO	ONE NEEKT ONE IN OT MODULE	0.00024	0.00024	0.00024	0.00024
	F	4	PAD100-PSSA	ADDRESSABLE PULL STATION	0.0002	0.0008	0.0002	0.0008
_		7	171001007	SINGLE ACTION	0.0002	0.0000	0.0002	0.0000
AFC-50•L1		1	PAD300-CD	CARBON-MONOXIDE DETECTOR	0.0003	0.0003	0.0003	0.0003
AFC-50°L1		'	1 AB300-0B	CARBON-MONOXIBE BETEGTOR	0.0003	0.0003	0.0000	0.0003
-							+	
		,	PAD300-HD	FIXED TEMPERATURE HEAT	0.0003	0.0012	0.0003	0.0012
	H	4	PAD300-HD	SENSOR	0.0003	0.0012	0.0003	0.0012
-								
	(s)	11	PAD300-PD	PHOTOELECTRIC SMOKE SENSOR	0.0003	0.0033	0.0003	0.0033
	∇							
	\boxtimes	4	P2RLED	2-WIRE, HORN STROBE, RED 30CD	0	0	0.038	0.152
	又		PC2RLED	2-WIRE, HORN STROBE, RED 30CD	_	0	0.038	0.076
	\bigotimes_{c}	2	PCZRLED	2-WIRE, HORN STROBE, RED 300D	0	0	0.036	0.076
AFC-50•N1								
711 0 00 111	\ /							
	X	3	SRLED	STROBE, RED 15CD	0	0	0.018	0.054
	, Т.							
<u> </u>								
	\searrow		CDLED	STROBE, RED 30CD	_	0	0.000	0.000
	X	3	SRLED	STROBE, RED 30CD	0	0	0.022	0.066
	∇							
	\boxtimes	3	P2RLED	2-WIRE, HORN STROBE, RED 30CD	0	0	0.038	0.114
AFC-50•N2								
	又	1	PC2RLED	2-WIRE, HORN STROBE, RED 75CD	0	0	0.087	0.087
	\bigotimes_{c}	'	FOZILLED	2-WIRE, HORRY OTROBE, RED 1000	U	U	0.007	0.007
	-							
	_/	_		077005 050 7500		_		
	\bowtie_{c}	5	SCRLED	STROBE, RED 75CD	0	0	0.07	0.35
	\ /							
	X	3	SRLED	STROBE, RED 30CD	0	0	0.022	0.066
	. Т.							
AFC-50•P-LINK	FAA	1	RA-6075	LCD ANNUNCIATOR	0.02	0.02	0.025	0.025
					TOTAL STANDBY (A)	0.27584	TOTAL ALARM (A)	1.38
					REQUIRED STANDI		24	
					REQUIRED ALARM	TIME (MINUTES)	5	
SECONDARY STANDBY LOAD (A) SECONDARY ALARM LOAD (A) STANDBY AND ALARM SUBTOTAL (AMP HOURS)				0.27584	24		6.62	2
				1.38	0.083 0.115			
					6.73			
	DERATING	,	,				1.25	
	SECONDARY LOAD REQU		S)				8.42	
		,	•					
				PROVIDE (2) 12V 18AH BATTERIES				

			CURRENT SUM		POWER SUM	
			MAX. CIRCUIT CURRENT (A):	2.50	STARTING CALC. VOLTAGE:	20.40
			TOTAL CIRCUIT CURRENT (A):	0.348	MAX. VOLTAGE DROP:	0.630
			SPARE CIRCUIT CURRENT (A):	2.15	VOLTAGE DROP %:	3.07 %
	AFC-50 N1 LUM	SUM REPORT	SPARE CIRCUIT CURRENT %:	86.08 %	MIN. OPERATIONAL VOLTAGE:	16
			MAX. CARD CURRENT (A):	n/a	END OF LINE VOLTAGE:	19.77
			TOTAL CARD CURRENT (A):	0.995840	WIRE RESISTANCE (Ω/KFT):	3.07
			SPARE CARD CURRENT (A):		TOTAL CIRCUIT LENGTH (FT):	293
			SPARE CARD CURRENT %:		TOTAL CIRCUIT RESISTANCE (Ω):	1.80
			ERTIES: 'V' 14/2 FPLP/R (NAC) 60993B 14 AW			
			SURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL DESCRIPTION CANDELAS		ALARM CURRENT (A)	TOTAL CURRENT (A)
STWIDOL	QUANTITI	PART NO	DESCRIPTION	CANDELAS	ALAKIII OOKKENT (A)	TOTAL CORRENT (A)
×	4	P2RLED	2-WIRE, HORN STROBE, RED	30CD	0.038	0.152
⊗c	2	PC2RLED	2-WIRE, HORN STROBE, RED	30CD	0.038	0.076
X	3	SRLED	STROBE, RED	15CD	0.018	0.054
¥	3	SRLED	STROBE, RED	30CD	0.022	0.066
LCULATION M	ETHODS:					
		SISTANCE (Ω/FT) X 2 X TOTAL CIF	RCUIT LENGTH (FT)			
	, ,	SISTANCE (Ω) X TOTAL CIRCUIT	* *			
			CURRENT SUM	MARY	POWER SUM	MARY
			MAX. CIRCUIT CURRENT (A):	2.50	STARTING CALC. VOLTAGE:	20.40
			TOTAL CIRCUIT CURRENT (A):	0.6170	MAX. VOLTAGE DROP:	0.860
			SPARE CIRCUIT CURRENT (A):	1.88	VOLTAGE DROP %:	4.21 %
	AFC-50 N2 LUM	SUM REPORT	SPARE CIRCUIT CURRENT %:	75.32 %	MIN. OPERATIONAL VOLTAGE:	16
ALC ON THE ESTIMATION THE STATE OF THE STATE			MAX. CARD CURRENT (A):	n/a	END OF LINE VOLTAGE:	19.54
			TOTAL CARD CURRENT (A):	0.995840	WIRE RESISTANCE (Ω/KFT):	3.07
			SPARE CARD CURRENT (A):	0.0000.0	TOTAL CIRCUIT LENGTH (FT):	227
			SPARE CARD CURRENT %:		TOTAL CIRCUIT RESISTANCE (Ω):	1.39
		CIRCUIT WIRING PROP	ERTIES: 'V' 14/2 FPLP/R (NAC) 60993B 14 AW	G, 2 COND. SOLID COPPER		
		DISTANCE MEA	SURED USING DRAWN SEGMENT LENGTHS	WITH 10.00 % ADDITIONAL	LENGTH CALCULATED	
SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
_			2 MIDE HODNICTDORE DED	0000		0.114
	3	P2RLED	2-WIRE, HORN STROBE, RED	30CD	0.038	0.114
₩ ₩c	1	P2RLED PC2RLED	2-WIRE, HORN STROBE, RED 2-WIRE, HORN STROBE, RED	75CD	0.038	0.114
⊗c	1	PC2RLED	2-WIRE, HORN STROBE, RED	75CD	0.087	0.087
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES	PC2RLED SCRLED	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED RCUIT LENGTH (FT) CURRENT (A)	75CD 75CD 30CD	0.087	0.087 0.35 0.066
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED RCUIT LENGTH (FT) CURRENT (A)	75CD 75CD 30CD	0.087 0.07 0.022	0.087 0.35 0.066
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED RCUIT LENGTH (FT) CURRENT (A) CURRENT SUM MAX. CIRCUIT CURRENT (A):	75CD 75CD 30CD	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE:	0.087 0.35 0.066
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED RCUIT LENGTH (FT) CURRENT (A) CURRENT SUM MAX. CIRCUIT CURRENT (A): TOTAL CIRCUIT CURRENT (A):	75CD 75CD 30CD IMARY 1 0.025	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE: MAX. VOLTAGE DROP:	0.087 0.35 0.066 IMARY 24 0.05
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES DROP = TOTAL RE	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF SISTANCE (Ω) X TOTAL CIRCUIT	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED CURRENT (A) CURRENT SUM MAX. CIRCUIT CURRENT (A): TOTAL CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A):	75CD 75CD 30CD 30CD 1MARY 1 0.025 0.9750	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE: MAX. VOLTAGE DROP: VOLTAGE DROP %:	0.087 0.35 0.066 MARY 24 0.05 0.20 %
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF SISTANCE (Ω) X TOTAL CIRCUIT	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED CURRENT (A) CURRENT SUM MAX. CIRCUIT CURRENT (A): TOTAL CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (B): SPARE CIRCUIT CURRENT (B): SPARE CIRCUIT CURRENT (B): SPARE CIRCUIT CURRENT (B): SPARE CIRCUIT CURRENT (B):	75CD 75CD 30CD 30CD IMARY 1 0.025 0.9750 97.50 %	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE: MAX. VOLTAGE DROP: VOLTAGE DROP %: MIN. OPERATIONAL VOLTAGE:	0.087 0.35 0.066 IMARY 24 0.05 0.20 % 18
C C C C C C C C C C C C C C C C C C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES DROP = TOTAL RE	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF SISTANCE (Ω) X TOTAL CIRCUIT	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED CURRENT (A) CURRENT (A): TOTAL CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): MAX. CARD CURRENT (A):	75CD 75CD 30CD 30CD IMARY 1 0.025 0.9750 97.50 % n/a	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE: MAX. VOLTAGE DROP: VOLTAGE DROP %: MIN. OPERATIONAL VOLTAGE: END OF LINE VOLTAGE:	0.087 0.35 0.066 MARY 24 0.05 0.20 % 18 23.95
C C C C C C C C C C C C C C C C C C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES DROP = TOTAL RE	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF SISTANCE (Ω) X TOTAL CIRCUIT	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED CURRENT (A) CURRENT (A) MAX. CIRCUIT CURRENT (A): TOTAL CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (B): SPARE CIRCUIT CURRENT (B): TOTAL CARD CURRENT (B): TOTAL CARD CURRENT (B):	75CD 75CD 30CD 30CD IMARY 1 0.025 0.9750 97.50 %	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE: MAX. VOLTAGE DROP: VOLTAGE DROP %: MIN. OPERATIONAL VOLTAGE: END OF LINE VOLTAGE: WIRE RESISTANCE (Ω/KFT):	0.087 0.35 0.066 MARY 24 0.05 0.20 % 18 23.95 7.77
C C	1 5 3 ETHODS: ICE (Ω) = WIRE RES DROP = TOTAL RE	PC2RLED SCRLED SRLED SISTANCE (Ω/FT) X 2 X TOTAL CIF SISTANCE (Ω) X TOTAL CIRCUIT	2-WIRE, HORN STROBE, RED STROBE, RED STROBE, RED CURRENT (A) CURRENT (A): TOTAL CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): SPARE CIRCUIT CURRENT (A): MAX. CARD CURRENT (A):	75CD 75CD 30CD 30CD IMARY 1 0.025 0.9750 97.50 % n/a	0.087 0.07 0.022 POWER SUM STARTING CALC. VOLTAGE: MAX. VOLTAGE DROP: VOLTAGE DROP %: MIN. OPERATIONAL VOLTAGE: END OF LINE VOLTAGE:	0.087 0.35 0.066 MARY 24 0.05 0.20 % 18 23.95

DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

DESCRIPTION

LCD ANNUNCIATOR

SYMBOL QUANTITY

PART NO

RA-6075

CALCULATION METHODS: TOTAL RESISTANCE (Ω /FT) X 2 X TOTAL CIRCUIT LENGTH (FT) TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

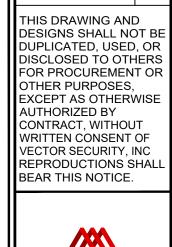
TOTAL CURRENT (A)

0.025

ALARM CURRENT (A)

0.025

REVISIONS





FIRE ALARM SYSTEM

SUBMITTALS PREPARED BY:

VECTOR SECURITY NETWORKS 2500 MAITLAND CTR PKWY SUITE 105 MAITLAND, FL 32751 703-468-6100

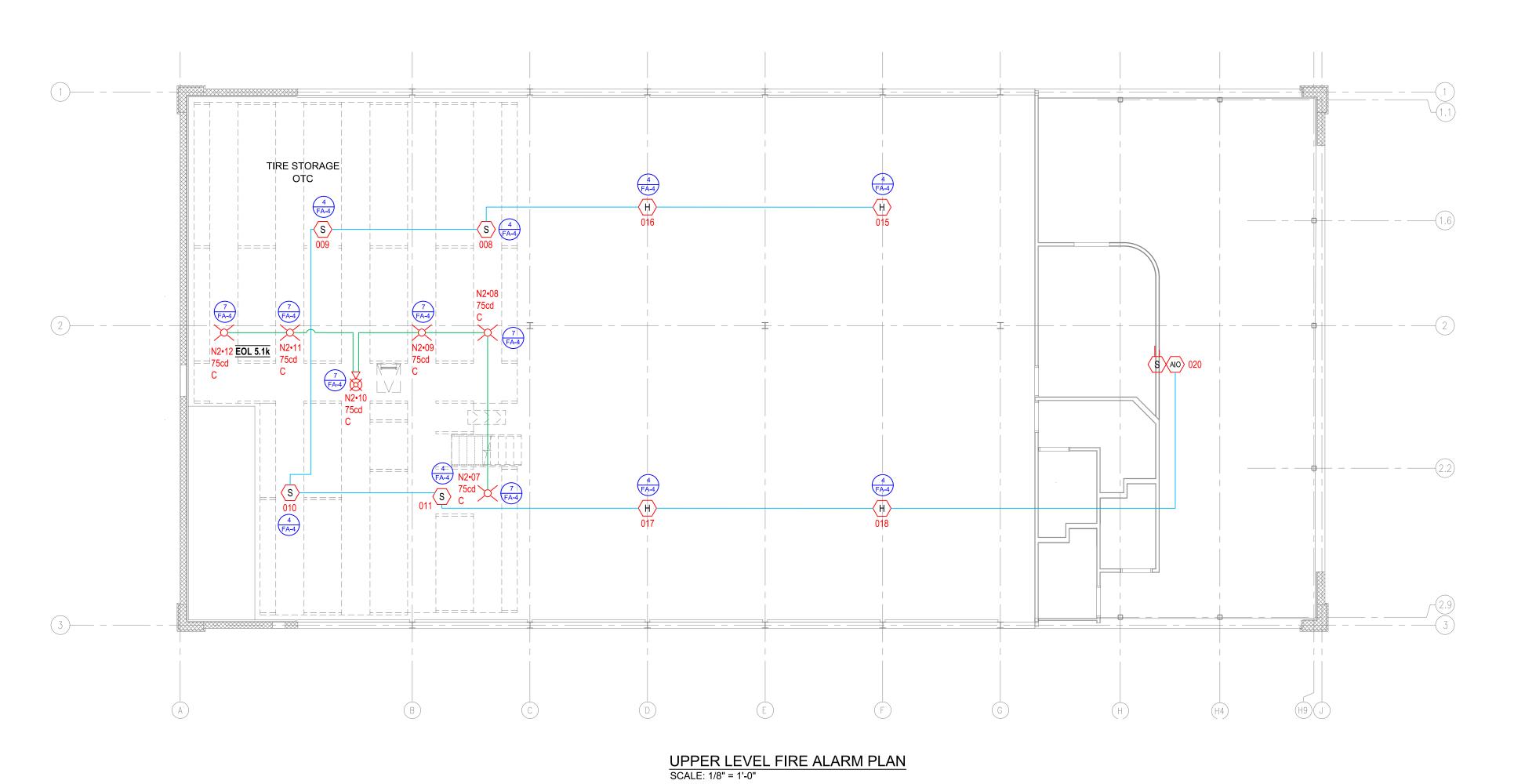
ENGINEER OF RECORD Malcolm Russo 2500 MAITLAND CTR PKWY SUITE 105 703-468-6100 NADFireEngineering@ vectorsecurity.com

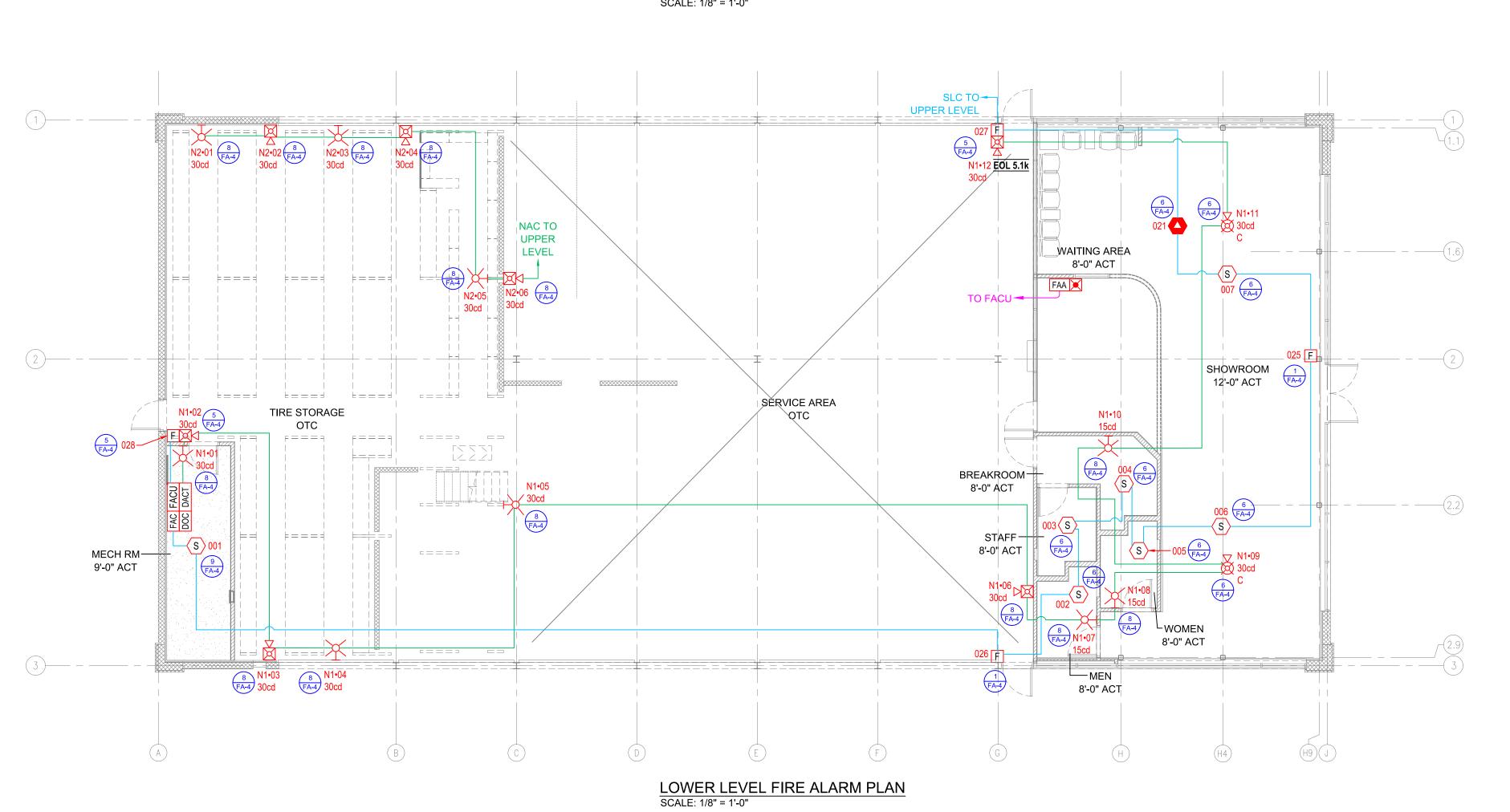


DRAWN BY: KRM DATE: 06/12/2025

SHEET: FA-1

SHEET NO.: 2





DEVICE LEGEND

SYMBOL	QUANTITY	IS EXISTING	DEVICE LEGEND MANUFACTURER	PART NO	DESCRIPTION	
FAC	1		BOSCH	B465	UNIVERSAL DUAL PATH COMMUNICAT	
FACU	1		POTTER	AFC-50	FIRE ALARM CONTROL PANEL	
(AIO)	1		POTTER	PAD100-OROI	ONE RELAY ONE INPUT MODULE	
F	4		POTTER	PAD100-PSSA	ADDRESSABLE PULL STATION SINGL	
•	1		POTTER	PAD300-CD	CARBON-MONOXIDE DETECTOR	
H	4		POTTER	PAD300-HD	FIXED TEMPERATURE HEAT SENSOI	
(S)	11		POTTER	PAD300-PD	PHOTOELECTRIC SMOKE SENSOR	
FAA	1		POTTER	RA-6075	LCD ANNUNCIATOR	
DACT	1		POTTER	UD-2000	PFC SERIES DIGITAL ALARM COMMUNICATOR TRANSMITTER	
DOC	1		SPACE AGE ELECTRONICS	SSU00672	FIRE ALARM DOCUMENT BOX, RED 12" 7 TALL 2 ¼ DEEP	
\langle s	1		SUPPLIED BY OTHERS	SL-2000-P	4-WIRE PHOTOELECTRIC LOW-FLOW D SMOKE DETECTOR	
¥	7		SYSTEM SENSOR	P2RLED	2-WIRE, HORN STROBE, RED	
∀c	3		SYSTEM SENSOR	PC2RLED	2-WIRE, HORN STROBE, RED	
	1		SPACE AGE ELECTRONICS	MSR-50RKW	REMOTE TEST STATION W/ SWITCH, AL & POWER LEDS, KEY RESET	
×c	5		SYSTEM SENSOR	SCRLED	STROBE, RED	
X	9		SYSTEM SENSOR	SRLED	STROBE, RED	

REVISIONS

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85 BUFFALO LAKE ROAD
SANFORD, NC 27332
ALARM SYSTEM

SUBMITTALS PREPARED BY:

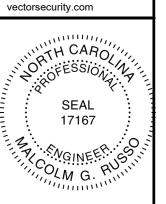
VECTOR SECURITY NETWORK 2500 MAITLAND CTR PKWY

SUITE 105
MAITLAND, FL 32751
703-468-6100

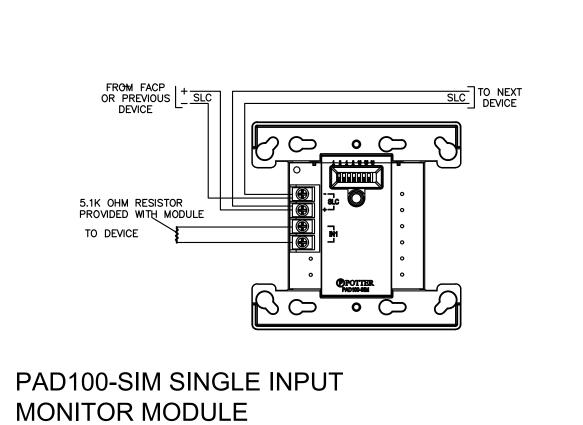
ENGINEER OF RECORD
Malcolm Russo
2500 MAITLAND CTR PKWY
SUITE 105

703-468-6100

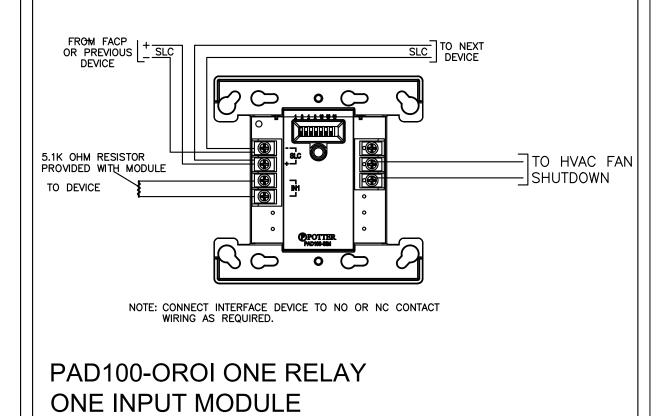
NADFireEngineering@

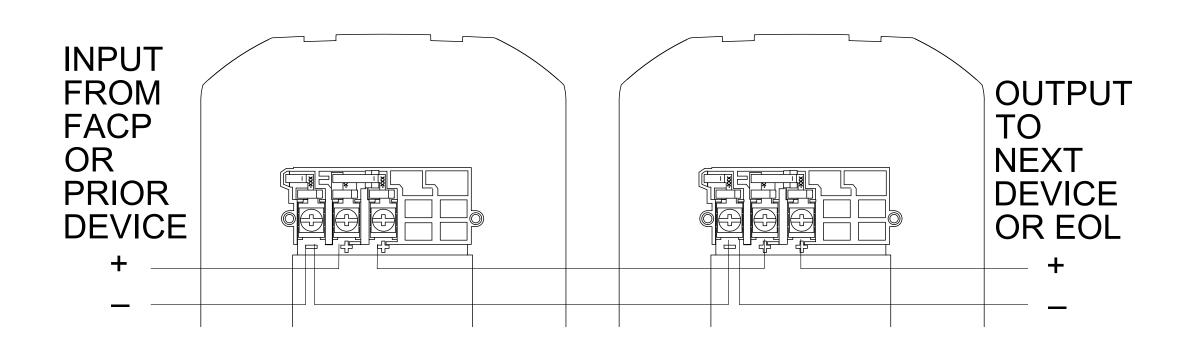


DRAWN BY: KRM
DATE: 06/12/2025
SHEET: FA-2
SHEET NO.: 3

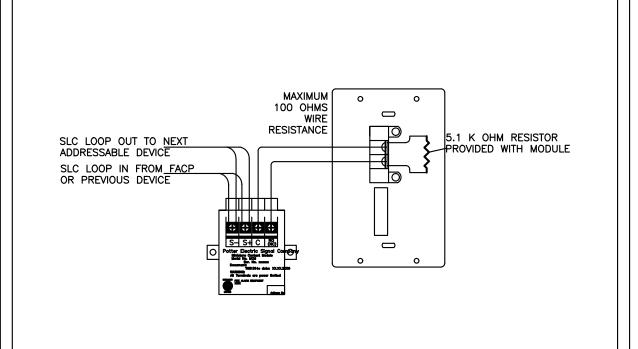


WIRING DIAGRAM

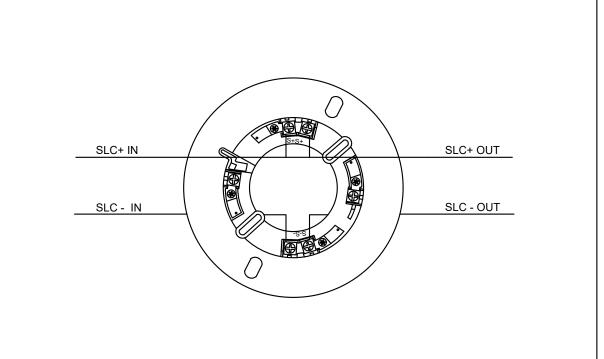






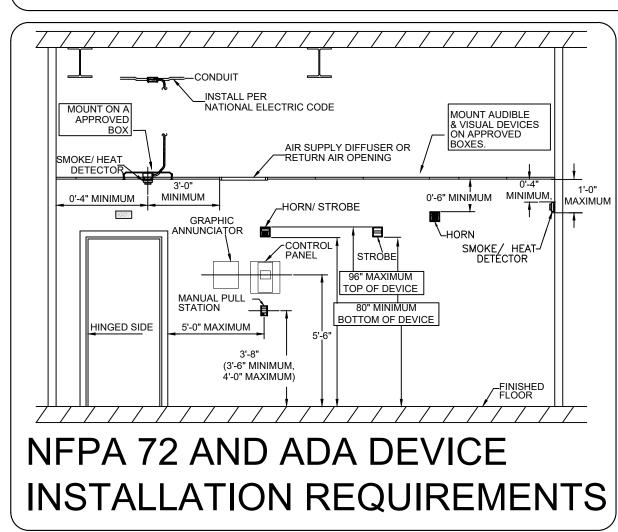


PAD100-PSSA/PSDA PULL STATION WIRING DIAGRAM



PAD100-6B DETECTOR BASE WIRING DIAGRAM

WIRING DIAGRAM



REVISIONS

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OTHER PURPOSES,
EXCEPT AS OTHERWISE
AUTHORIZED BY
CONTRACT, WITHOUT
WRITTEN CONSENT OF
VECTOR SECURITY, INC
REPRODUCTIONS SHALL
BEAR THIS NOTICE.



MAVIS TIRE 2266 1585 BUFFALO LAKE ROAD SANFORD, NC 27332

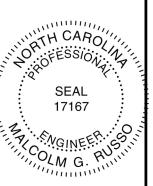
SUBMITTALS PREPARED BY:
VECTOR SECURITY NETWOR

2500 MAITLAND CTR PKWY

MAITLAND, FL 32751
703-468-6100

ENGINEER OF RECORD
Malcolm Russo
2500 MAITLAND CTR PKWY
SUITE 105

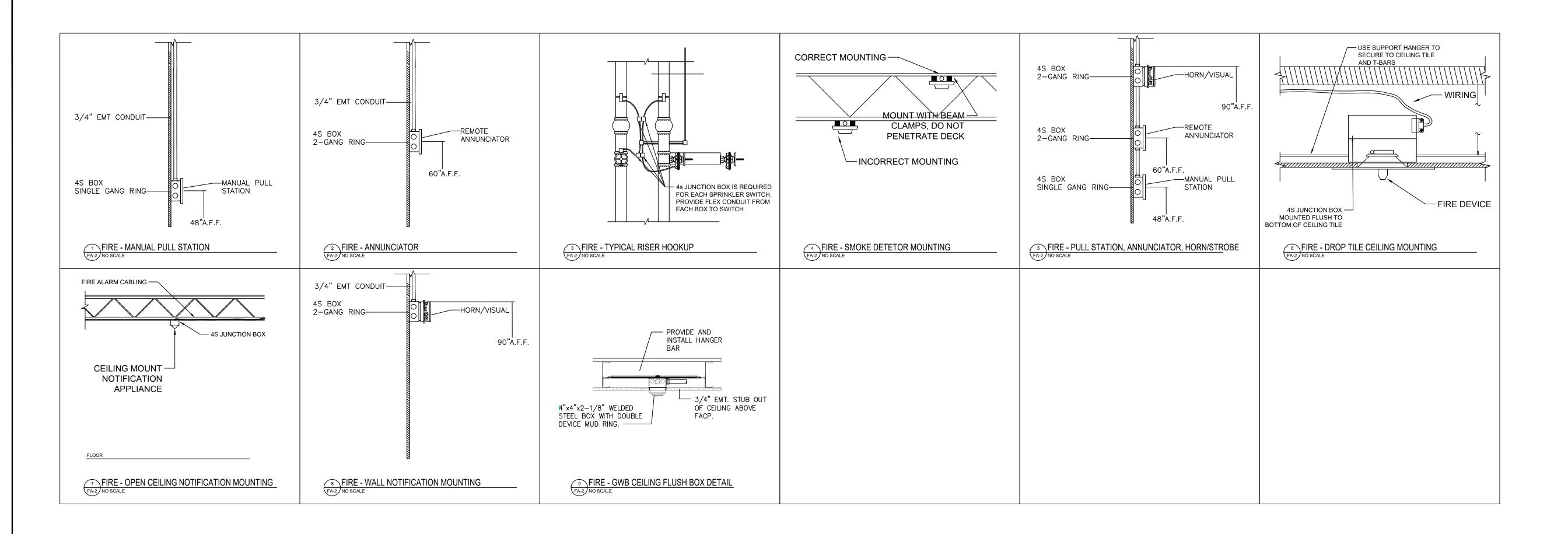
703-468-6100
NADFireEngineering@
vectorsecurity.com



DRAWN BY: KRM

DATE: 06/12/2025

SHEET: FA-3 SHEET NO.: 4



FIRE ALARM PLAN NOTES

- THIS SYSTEM WILL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 72 AND ALL WIRING WILL CONFORM TO NFPA 70 ARTICLE 760
- ALL FIRE ALARM CABLING SHALL BE ROUTED THROUGH CONDUIT FROM DEVICES TO BOTTOM OF THE BAR JOIST. AT THAT POINT
- CABLING SHALL BE RUN EXPOSED ALONG THE CEILING IF ACCEPTABLE BY THE AHJ. MOUNT FIRE ALARM CONTROL PANEL 70" AFF TO TOP.
- MOUNT KEYPAD / ANNUNCIATOR 4'-6" AFF TO CENTER. REFER TO DETAIL 3/E-100 FOR LOCATION.
- MOUNT MANUAL PULL STATIONS AT 48" AFF TO TOP OF BOX.
- MOUNT ELECTRONIC HORNS / STROBES AT 80" AFF TO THE BOTTOM.
- MOUNT CONTROL RELAYS WITHIN 3'-0" OF THE CONTROLLER.
- ALL INITIATION AND NOTIFICATION CIRCUITS SHALL BE SUPERVISED.
- OBSERVE ALL DEVICE POLARITIES.
- THE PANEL SHALL NOT BE USED TO POWER ANY UNAUTHORIZED EXTERNAL DEVICE.
- VERIFY ALL DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- 12. THE ELECTRICAL CONTRACTOR WILL COORDINATE DEVICE BOX SIZES AND CONDUIT LOCATIONS PRIOR TO ROUGH IN.
- 13. THE ELECTRICAL CONTRACTOR WILL SUPPLY AND INSTALL ALL BOXES AND CONDUITS FROM THE OUTLET BOX TO ABOVE FINISH CEILING, WITH PULL STRING AND ANTI-SHORT BUSHING, FOR THE FIRE ALARM SYSTEM.
- PROVIDE WIRE GUARDS FOR ANY DETECTORS INSTALLED UNDER THE RACKING SYSTEM
- SUBSTITUTION OF THE FIRE ALARM CONTROL PANEL AND/OR COMMUNICATOR IS NOT PERMITTED.
- 16. FOR SURFACE MOUNTED HORN/STROBES, PROVIDE SURFACE MOUNT BACK BOX, SBBRL
- 17. FOR SURFACE MOUNTED PULL STATIONS, PROVIDE SURFACE MOUNTED BACK BOX, 5140MPS-BB.
- 18. DO NOT SURFACE MOUNT CONDUIT TO STRUCTURAL COLUMN(S) IN SHOWROOM. DRILL COLUMN AT PULL STATION LOCATION AND ABOVE FINISHED CEILING. ROUTE CABLE THROUGH STRUCTURAL COLUMN.
- 19. THE INSTALLING CONTRACTOR WILL BE REQUIRED TO REGISTER AND ACTIVATE BOTH THE CELLULAR CONNECTION AND THE THE INSTALLING CONTRACTOR WILL BE REQUIRED TO REGISTER AND ACTIVATE BOTH THE CELLULAR CONNECTION AND THE ALARM SYSTEM ITSELF. FE MORAN SECURITY SOLUTIONS LLC DOES NOT COME ON SITE BUT WILL PROVIDE SUPPORT. THE INSTALLING CONTRACTOR
- 20. NOTIFICATION DEVICES SHALL NOT BE INSTALLED ON THE WALL IN THE WAITING ROOM WHERE GRAPHICS ARE DISPLAYED. NOTIFICATION DEVICES SHALL NOT BE INSTALLED ON THE WALL IN THE WAITING ROOM WHERE GRAPHICS ARE DISPLAYED. ONLY CEILING DEVICES SHALL BE USED.

MUST TEST AND CONFIRM ALL DEVICES HAVE BEEN RECEIVED AT THE MONITORING STATION TO COMPLETE THE ACTIVATION PROCESS.

ELECTRICAL CONTRACTOR NOTES

- MAVIS TIRE HAS A NATIONAL CONTRACT FOR THE DESIGN, INSTALLATION, AND MONITORING OF THE FIRE ALARM SYSTEMS. THE CONTRACTOR SHALL
- COORDINATE ALL POWER AND CONDUIT REQUIREMENTS WITH VECTOR SECURITY INC.
- VECTOR SECURITY INC. GAINESVILLE, VA 20150: 703-468-6100
- ELECTRICAL CONTRACTOR SHALL COORDINATE/VERIFY WITH THE FIRE ALARM CONTRACTOR AND SUPPLY THE CONNECTION OF ALL HARD WIRED POWER
- SUPPLIES AND CONTROLS. TYPICALLY THERE IS ONE (1) FIRE ALARM CONTROL PANEL AND ONE (1) POWER SUPPLY. 4. INSTALL 4X4X2 BOX WITH SINGLE GANG RING AT 48"AFF TO CENTER WITH 3/4" EMT STUB UP TO BAR JOIST OR ABOVE DROP TILE CEILING FOR MANUAL
- PULL STATIONS. REFER TO DETAIL 23
- INSTALL 4X4X2 BOX 60"AFF TO CENTER WITH 3/4" EMT STUB UP TO BAR JOIST OR ABOVE DROP TILE CEILING FOR ANNUNCIATOR. REFER TO DETAIL 24 INSTALL 4X4X2 BOX 90"AFF TO TOP OF BOX WITH 3/4" EMT STUB UP TO BAR JOIST OR ABOVE DROP TILE CEILING FOR NOTIFICATION APPLIANCES. REFER
- TO DETAIL 30 THE ELECTRICAL CONTRACTOR WILL SUPPLY AND INSTALL ALL BOXES AND CONDUITS FROM THE OUTLET BOX TO ABOVE FINISH CEILING, WITH PULL
- STRING AND ANTI-SHORT BUSHING, FOR THE FIRE ALARM SYSTEM.
- INSTALL 4X4X2 BOX WITH T-BAR SUPPORT FOR ALL SUSPENDED CEILING FIRE ALARM DEVICES. BOX SHALL BE CENTERED IN TILE. REFER TO DETAIL 28. MECHANICAL CONTRACTOR IS TO WIRE THE FAN SHUT DOWN AND PROVIDE WIRING FROM SMOKE DETECTOR TO RTU CONTROL BOARD ACCORDING TO
- THE MANUFACTURER'S INSTRUCTIONS.

INSPECTION NOTES

- HAVE CURRENT NFPA 72 CERTIFICATION OF COMPLETION FORM TO FILL OUT DURING INSPECTION.
- HAVE EQUIPMENT TO TEST SMOKE, HEAT, AND CARBON MONOXIDE DETECTORS.
- TEST EACH DEVICE REQUIRED BY THE INSPECTOR BY THE APPROPRIATE METHOD AS DESCRIBED IN NFPA 72 CHAPTER 14.
- DOCUMENT BOX MUST CONTAIN LATEST SET OF AS-BUILT PLANS/RECORD DRAWINGS.
- COORDINATE TIME OF INSPECTION WITH OTHER REQUIRED TRADES LIKE HVAC AND SPRINKLER.
- ENSURE FIRE ALARM SYSTEM IS ON TEST WITH THE MONITORING COMPANY.
- COMPLETE NFPA 72 CERTIFICATION OF COMPLETION FORM AND LEAVE A COPY IN THE DOCUMENT BOX ON SITE

REVISIONS

THIS DRAWING AND DESIGNS SHALL NOT B DUPLICATED, USED, OF **DISCLOSED TO OTHERS** FOR PROCUREMENT OF OTHER PURPOSES, **EXCEPT AS OTHERWISI** AUTHORIZED BY CONTRACT, WITHOUT WRITTEN CONSENT OF

VECTOR SECURITY, INC

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SYSTEN

SUBMITTALS PREPARED BY:

VECTOR SECURITY NETWO 2500 MAITLAND CTR PKWY MAITLAND, FL 32751 703-468-6100

ENGINEER OF RECORD Malcolm Russo 2500 MAITLAND CTR PKW SUITE 105 703-468-6100 NADFireEngineering@ vectorsecurity.com



DRAWN BY: KRI DATE: 06/12/202

SHEET: FA-4

SHEET NO.: 5









www.harnett.org

Emergency Services Department

Fire Marshal Division

P.O. Box 370 Lillington, NC 27546 910-893-7580

Application for Plan Review

Permit Type:	Alarm
Date Received:	Received By:
Name of Project:M()\)	STire#2266
Physical Address of Project:	1605 Buffalo Lake Rd. Sanford 27332
Plans Submitted By:	ames Delahunty
	(919)-469-4690
Contact Person/Address:	212 Powell Dr. Ste 104 Raleigh, 27606
Contact Phone: vffice	919)-469-4690 ()
Contractor's Name/Info:	James Delahunty
_	
Contractor's Phone: (919)-272-7116
Contact Email: Servi	ce @ caryalarm.com

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the website http://hteweb.harnett.org/Click2GovBP/Index.jsp or by calling the Harnett County Central Permitting Office (910-893-7525 : Opt. 2), or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.





INDIVIDUAL TRADE APPLICATION

CONSTRUCTION TYPE: Residential ☐ Non-Residential	ial 🔀
SITE ADDRESS: 1605 Buffalo Lake Rd. Sanfi	ord 27332 PIN: 9586-78-3406.000
LANDOWNER: Venture Properties VI UC. Mailing A	ddress: PO Box 843 Wilkesboro, NC 28697
City: State: Zip: Phone:	Email:
JOB COST (required):	
DESCRIPTION OF WORK: Install new fire alarm	System
Mechanical: New Unit With Ductwork ☐ New Unit Without Ductwork	ctwork □ Gas Piping □ Other
Electrical: 200 Amp ☐ Greater than 200 Amp ☐ Service C	Change ☐ Service Reconnect ☐ Other
Plumbing: Water Tap/Sewer Connection ☐ Water Heater ☐	Number of Fixtures Other
CONTRACTOR IN	FORMATION
* Must be owner or licensed contractor. Address, company	name & phone must match information on license.
Cary Alarm Co.Inc.	9194694690 Phone
Contractor's Company Name	Phone
212 Powell Dr. Ste 104 Raleigh 27606	Service @ caryalarm.com
19495SPLVFIRE	Email
License #	
Mechanical change outs & generator applications require both	electrical & mechanical information. If applicable:
Contractor's Company Name	Phone
Address	Email
License #	
I am the building owner or NC state licensed contractor, which legal I attest that all work shall comply with the State Building Code ar	nd all other applicable State and local laws, ordinances and
regulations. By signing this application, I affirm that I have obta purchase permits on their behalf. If doing the work as owner, I u	ained permission from the above listed license holder to
for 12 months after completion of the listed work.	inderstand that i cannot rent, lease, or sell the listed propert
	8/19/25
Signature of Owner/Contractor	Date
	,

strong roots · new growth



2500 Maitland Center Parkway Suite 105 Maitland, FL 32751 T: 866-608-3286 F: 407-475-1115 www.vectorsecurity.com

July 28, 2025

Harnett County Emergency Services 1005 Edwards Brothers Drive Lillington, NC 27546

Re: Mavis Tire #2266 1605 Buffalo Lake Rd Sanford NC 27332 Fire Alarm System

This scope letter serves to inform you that the above listed Mavis Tire store, is installing and testing a new fire alarm system within a new Mavis Tire service center. The system shall be monitored by an approved listed monitoring station. The communication paths will be sole path cellular.

If you have any questions or concerns, please call **Carla Intriago at 866-608-3286** or email NADFire_Engineering@vectorsecurity.com at your earliest convenience. Upon approval our local contractor will apply for permit and pay any fees due.

Thank you,

Parla Intriago

Carla Intriago
Fire Engineering Coordinator
Vector Security

Intelligent security tailored for you.sm

LICENSE NUMBER SP.FA/LV.19495

STATE OF NORTH CAROLINA BOARD OF EXAMINERS OF ELECTRICAL CONTRACTORS

EXPIRATION DATE 09/30/2025

THIS IS TO CERTIFY THAT:

Cary Alarm Co. Inc.

is duly registered and entitled to practice Electrical Contracting in the

Special Restricted Fire Alarm/Low Voltage Classift in Ligense

Limitation: Limited to electrical work are classified to a system installation as prescribed in 21, NCAC 18B 10804

Witness our hands and seal of the Board

Cary Alarm Co. Inc. 212 Powell Drive Suite 104 Raleigh, NC 27606

Chairman

Pecretary - Treasurer