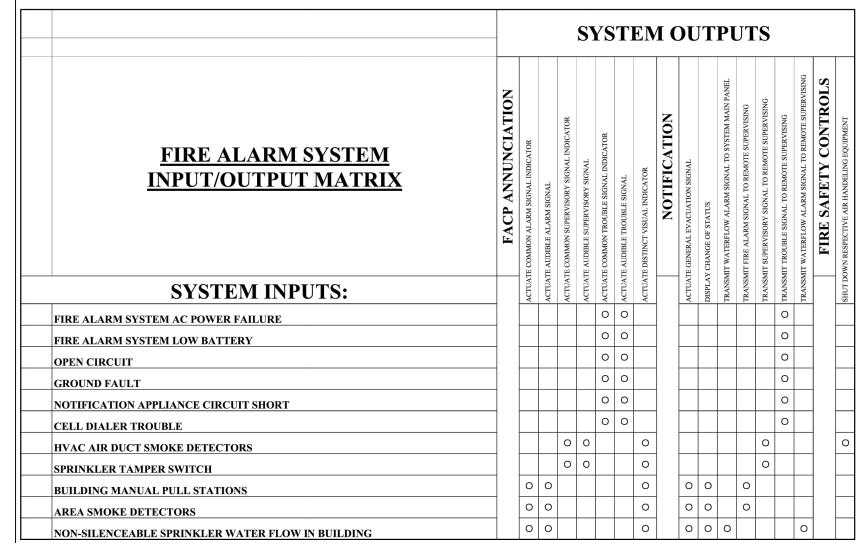
				F	IRE	ALARM LEG	END			
NOTES:		(E)=EXISITNG DEVICES (A)=NEW DEVICES BEING ADDED (RP)=EXISITNG DEVICES BEING (RP)=EXISITNG DEVICES BEING REMOVED (RM)=EXISITNG DEVICES BEING REMOVED								
(E)	(A)	(RP)	(RL)	(RM)	SYMBOL	DESCRIPTION	MAKE	MODEL		
		1			FACP	FIRE ALARM CONTROL PANEL	FIRE LITE	ES-50X		
1					FAC	FIRE ALARM COMMUNICATOR	TELGAURD	TG7GFS		
1					WP WP	WEATHER PROOF HORN / STROBE WALL MOUNT	SYSTEM SENSOR	P2RK		
8						HORN / STROBE WALL MOUNT	SYSTEM SENSOR	P2WL		
1					H	HORN WALL MOUNT WEATHERPROOF	SYSTEM SENSOR	HRK		
	2				RTS	REMOTE TEST SWITCH	SYSTEM SENSOR	RTS-151-KEY		
		1			P	A/C POWER SURGE	DITEK	DTK-HW-120		
		1			Ţ	LOW VOLTAGE SURGE	DITEK	DTK-2MHLP36BWE		
1					● _R	PAM RELAY MODULE	PAM	PAM-2		
	10				(AIM) _M	MINI MONITOR MODULE	FIRE LITE	MMF-301		
	2				(AIM) _M	MONITOR MODULE	FIRE LITE	MMF-300		
	1				AIM ₂	DUAL MONITOR MODULE	FIRE LITE	MDF-300		
		1			(2)	SMOKE DETECTOR	FIRE LITE	SD365		
2					5	DUCT DETECTOR	BY OTHERS	BY OTHERS		
10					F	PULL STATION	FIRE LITE	BG-12/BG-12-LOB		
1					WF	WATER FLOW SWITCH	EXISTING	EXISTING		
2					TS	TAMPER SWITCH	EXISTING	EXISTING		

FIRE ALARM WIRE LEGEND

NOTES:	1. EXIST FIRE ALARM WIRE IS REPRESENTED BY A DASHED LINE								
	2. NEW FIRE ALARM WIRE IS REPRESENTED BY A SOLID LINE								
LENGTH C	OF NEW WIRE	CALL OUT	WIRE DESCRIPTION	MAKE	MODEL				
	500' L SIGNALING LINE O WIRE 16/2 FPLR		SIGNALING LINE CIRCUIT WIRE 16/2 FPLR	GENESIS	4311				
EX	HXISTING 1 ST 1		NOTIFICATION APPLIANCE CIRCUIT WIRE 14/2 FPLR	GENESIS	4313				

BATTERY CALCS ES-50X

STANDBY: _2	<u>4</u> H	OURS			ALARM: $\underline{5}$ MINUTES X $1/60 = \underline{0.084}$ HOURS						
REQUIRED STANDBY TIME (HOURS)	STANDBY TIME			REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS)			C	TOTAL ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
24	X	0.1866	Ш	4.478	0.084		X		2.388	=	0.201
REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		REQUIRED AMPERE HOUR BATTERY		DERATIN FACTOR @	. –		MINIMUM AMP-HOUR BATTERY REQUIRED		NOTE: NEW BATTERIES (2) ARE RATED @
4.478	+	0.201	=	4.679	X	1.2		II	5.61 AH	[12VDC/7AH





SITE PLAN

Omicron Granite & Tile

Trade Center Way

FIRE ALARM RISER

SCOPE OF WORK

REPLACE AN EXISTING CONVENTIONAL DEDICATED FUNCTION FIRE SPRINKLER MONITORING FIRE ALARM CONTROL PANEL WITH A NEW ADDRESSABLE DEDICATED FUNCTION FIRE SPRINKLER MONITORING FIRE ALARM CONTROL PANEL.

COLLIER COUNTY FIRE PREVENTION AND PROTECTION CODE POLICY AND PROCEDURE

- 1. AN EXTERIOR WEATHERPROOF AUDIO/VISUAL DEVICE IS REQUIRED, ARTICAL FAL 01-1.
- 2. DUCT SMOKE DETECTORS THAT ARE NOT PART OF A SMOKE CONTROL SYSTEM AND USED SOLELY FOR CLOSING DAMPERS FOR HVAC SYSTEMS SHALL INITIATE A SUPERVISORY SIGNAL ONLY, ARTICLE FAL02-2
- ALL ABOVEGROUND VALVES OR P.I.V.'S THAT CONTROL WATER EXCLUSIVELY SUPPLYING A FIRE SPRINKLER SYSTEM SHALL BE ELECTRICALLY MONITORED, ARTICLE COD 00-1

61G15-32.008 NOTES

- THE FIRE ALARM SYSTEM INCLUDES FIRE PROTECTION SUPERVISION, EMERGENCY ALARM CIRCUITS, ACTIVATION OF LIFE SAFETY SYSTEM CONTROLS AND REMOTE SIGNALING OF EMERGENCY CONDITIONS.
- THE DESIGN SPECIFICATIONS ARE BASED ON THE CODES AND STANDARDS ADOPTED IN RULE CHAPTER 69A-60 THE FLORIDA FIRE PREVENTION CODE 7TH EDITION, NFPA 70 (2017), NFPA 72 (2016 EDITION) AND THE LOCAL COUNTY FIRE AND PROTECTION CODE POLICY AND PROCEDURES MANUAL.
- THIS SYSTEM MEETS THE REQUIREMENTS FOR MANDATORY USE OF PROFESSIONAL ENGINEERING SERVICES.
- 4. THE FIRE ALARM AND DETECTION SYSTEMS ENGINEERING DOCUMENTS INCLUDE THE FOLLOWING:
- (A) THE SYMBOL LEGEND, AND SYSTEM RISER CAN BE FOUND ON SHEET FE1.0 CABLING REQUIREMENTS ARE THAT THE INITIATING CIRCUITS WILL MEET THE MINIMUM REQUIREMENTS OF CLASS B, THE SUPERVISORY CIRCUITS WILL MEET THE MINIMUM REQUIREMENTS OF CLASS B, THE NOTIFICATION CIRCUITS WILL MEET THE MINIMUM REQUIREMENTS OF CLASS B. SURVIVABILITY REQUIREMENTS SHALL CONSIST OF LEVEL 0. THE GENERAL OCCUPANCY OF THIS PROJECT IS STORAGE
- LIMITED TO LOW HAZARD CONTENTS. (B) THE LOCATIONS OF INITIATING AND NOTIFICATION DEVICES AND CONNECTIONS TO RELATED SYSTEMS ARE SHOWN ON THE FLOOR PLANS.
- (C) STROBE INTENSITY IS INDICATED ON THE FLOOR PLANS BY EACH DEVICE. THE SPEAKER OUTPUT IS NOT APPLICABLE DUE TO NO SPEAKER DEVICES.
- (D) THE INITIATING DEVICE CIRCUITS WILL MEET THE MINIMUM REQUIREMENTS OF CLASS B, THE SIGNALING LINE CIRCUITS WILL MEET THE MINIMUM REQUIREMENTS OF CLASS B, AND THE NOTIFICATION CIRCUITS WILL MEET THE MINIMUM REQUIREMENTS OF CLASS B.
- (E) THE REQUIRED FUNCTIONS BY THE ALARM CONTROL SYSTEM CAN BE FOUND IN THE INPUT OUTPUT MATRIX ON SHEET FE1.0
- (F) THIS FIRE ALARM SYSTEM WILL BE AN ADDRESSABLE SYSTEM.
- (G) SURGE PROTECTION DEVICES ARE SHOWN ON BOTH THE FLOOR PLANS AND THE RISER DIAGRAM.
- (H) DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS SUCH AS TEMPERATURE, HUMIDITY OR CORROSIVE ATMOSPHERES, INCLUDING COASTAL SALT AIR ARE INDICATED BY THE USE OF WEATHERPROOF DEVICES, AND SHALL BE LISTED BY THE MANUFACTURER FOR SUCH USE.
- (I) A SITE PLAN DETAIL SHALL BE PROVIDED ON SHEET FE1.0
- (J) ALL SMOKE DETECTORS ARE LOCATED ON FLAT SMOOTH CEILINGS.
- (K) SMOKE STRATIFICATION IS NOT ANTICIPATED. (L) THIS SYSTEM IS A PRESCRIPTIVE BASED DESIGN, SEE GENERAL NOTE 2.
- (M) THIS SYSTEM IS DESIGNED FOR GENERAL EVACUATION SIGNAL.
- (N) A BURIAL DETAIL IS NOT APPLICABLE.
- (O) UPON COMPLETION OF CONSTRUCTION, THE FIRE ALARM CONTRACTOR WILL SUBMIT A COPY OF THE EQUIPMENT WARRANTIES AND INSTALLATION, OPERATIONS, AND MAINTENANCE INSTRUCTIONS TO THE OWNER TO BE KEPT AT FIRE ALARM CONTROL PANEL FOR FUTURE USE
- 5. SPECIFIC EQUIPMENT HAS BEEN SPECIFIED AND THEREFORE BATTERY AND VOLTAGE DROP CALCULATIONS ARE SUPPLIED.
- 5. FIRE ALARM SHALL BE INSTALLED, TESTED, AND MAINTAINED PER THE FLORIDA FIRE PREVENTION CODE 7TH EDITION, NFPA 101, NFPA 72 2016 EDITION, AND ALL REFERENCED AND ADOPTED CODES AND STANDARDS THEREIN. ADDITIONAL
- LOCAL STANDARDS, ORDINANCES AND POLICIES WILL BE FOLLOWED. THE ENGINEER HAS DETERMINED THAT THE EXISTING SYSTEM IS DESIGNED FOR DEDICATED FUNCTION SPRINKLER MONITORING WITH SPECIAL REQUIREMENTS OF EXISTING NONREQUIRED DEVICES INSTALLED.

GENERAL NOTES

- OCCUPANCY CLASSIFICATION IS STORAGE LIMITED TO LOW HAZARD
- 2. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NFPA CODES (EDITIONS AS PRESCRIBED BY FLORIDA FIRE PREVENTION CODE, 7TH
- ALL NEW COMPONENTS SHALL BE UL LISTED AND COMPATIBLE.

EDITION) AND NEC AS WELL AS ALL LOCAL ORDINANCES.

4. SYSTEM SHALL BE GROUNDED PER MANUFACTURERS SPECIFICATIONS. FIRE ALARM PANEL AND ANY ASSOCIATED FIRE ALARM EQUIPMENT

SHALL BE FED WITH A SINGLE PHASE, 20 AMP DEDICATED BREAKER WHICH

- SHALL BE LOCKED AND MARKED. 6. ALL CIRCUITS THAT LEAVE THE BUILDING MUST HAVE SURGE PROTECTION. SURGE PROTECTION SHALL BE PROVIDED FOR 120 VAC POWER AS WELL AS TELEPHONE CONNECTIONS TO THE FIRE ALARM

THROUGH 10.6.5.5.

- 7. ALL STROBES SHALL BE SYNCHRONIZED. 8. PRIMARY POWER CONNECTIONS SHALL COMPLY WITH NFPA 72 10.6.5.1
- 9. SPEAKERS ARE NOT APPLICABLE DUE TO NO SPEAKER DEVICES BEING INSTALLED.
- 10. TYPE OF CONDUCTORS. SYSTEM WIRING IS IN A PARTIAL RACEWAY SYSTEM AND SHALL BE FPLR TYPE OF WIRE. 14/2 FPLR WIRE SHALL BE USED FOR INDICATING CIRCUITS AND 16/2 FPLR WIRE SHALL BE USED FOR INITIATING CIRCUITS. INDICATING CIRCUITS SHALL BE CLASS B. INITIATING CIRCUITS SHALL BE CLASS B
- 11. NOTIFICATION REQUIREMENTS. ALL DEVICES AND APPLIANCES SHALL BE MOUNTED AND SPACED PER NFPA 70 AND 72 AND THE MANUFACTURER'S APPLICATION AND INSTALLATION INSTRUCTIONS.
- 12. BACKUP POWER REQUIREMENTS STANDBY SYSTEM POWER SHALL BE BY
- BATTERIES FOR 24 HOUR STANDBY AND FIVE MINUTES ALARM. 13. THIS SYSTEM IS TO BE A POWER LIMITED, NON-VOICE EVACUATION,
- ADDRESSABLE SYSTEM. 14. THIS SYSTEM IS TO BE A REMOTE STATION MONITORED SYSTEM.

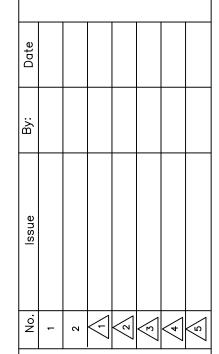
15. SIGNALS SHALL BE TEMPORAL AND DESIGNED FOR EVACUATION.

16. ALL RACEWAYS WILL BE FILLED NO MORE THAN 40%. RACEWAYS WITH MORE THAN 180 DEGREES OF BEND OR LONGER THAN 100 FEET WILL HAVE A DEVICE OR PULL BOX. ALL PULL BOXES WILL BE PAINTED RED FOR IDENTIFICATION. ALL STUB-UP AND SLEEVE APPLICATIONS WILL HAVE

ENTRY PROTECTION. ALL BOXES ACCEPTING FREE CABLE WILL HAVE

- APPROVED CABLE PROTECTION. 17. ALL DEVICES SHALL BE COMPATIBLE WITH THE FIRE ALARM CONTROL PANEL. DEVICES AND APPLIANCES LOCATED IN UNCONDITIONED SPACES, DAMP LOCATIONS AND THE LIKE SHALL BE LISTED FOR THIS USE. ALL DEVICES AND APPLIANCES SHALL BE MOUNTED AND SPACED PER NFPA 70 AND 72 AND THE MANUFACTURER'S APPLICATION AND INSTALLATION
- INSTRUCTIONS. 18. THIS SYSTEM IS DESIGNED FOR GENERAL EVACUATION.





 \approx GRANITE **OMICRON**

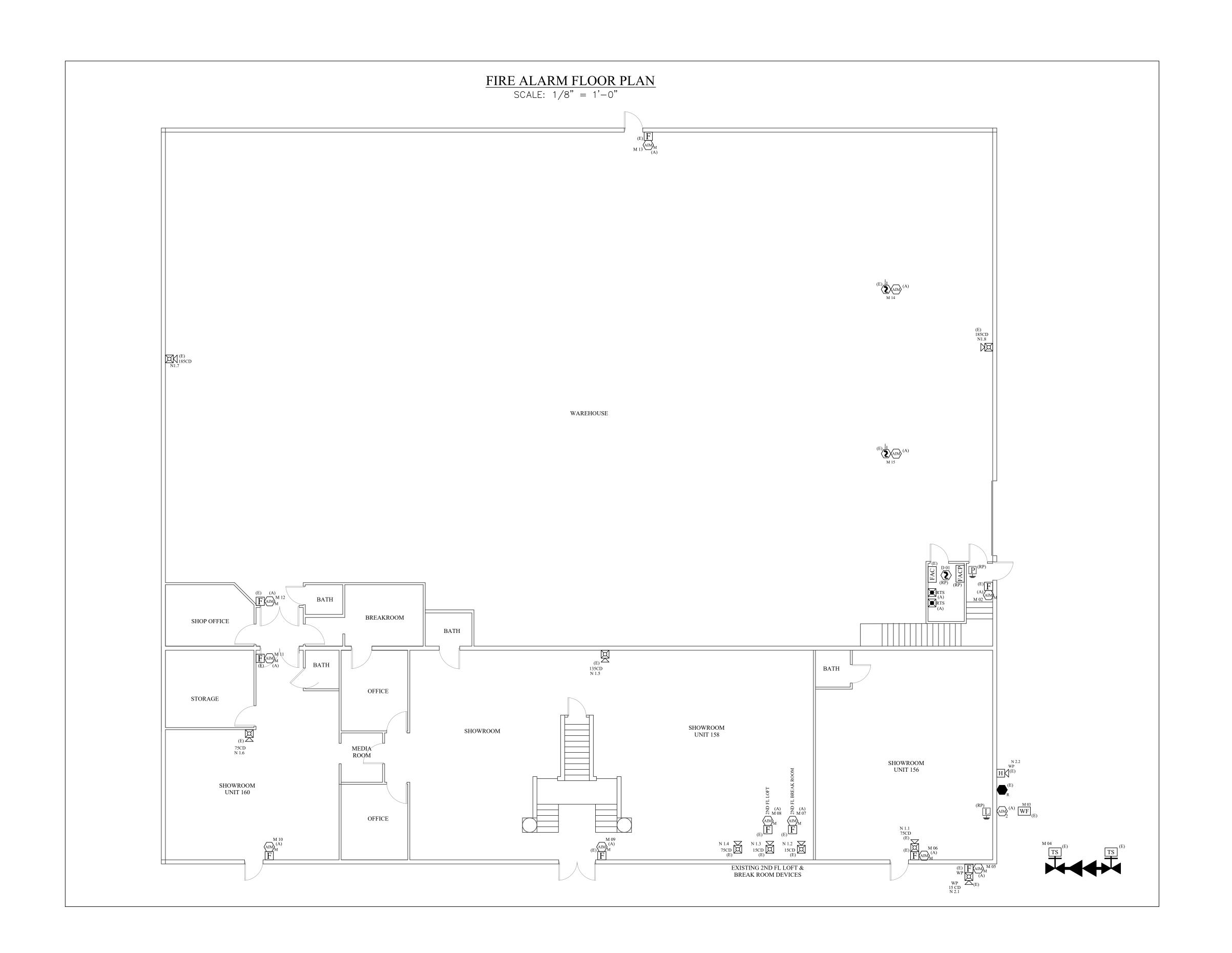
NORTH COLLIER

S.R.B.

25845750 Sheet Name:

FIRE ALARM NOTES

FE 1.0



FIRE LLC 4372 Blitzen Ter North Port, FL 34287 (941) 380-9606

Sign and Seal:

Project Name and Address

OMICRON GRANITE & TILE

Address:
1956, 1958, 1960 TRADE CENTER WAY

NAPLES, FL 34109

A

Fire District: NORTH COLLIER
Drawn by: S.R.B.

Scale:

25845750 Sheet Name:

> FIRE ALARM FLOOR PLAN

> > FE 2.0