FIRE ALARM LEGEND:

FIRE ALARM CONTROL PANEL

FAPS FIRE ALARM POWER SUPPLY

COM

ELEV FLEVATOR CONTROLS

SMOKE DETECTOR (PHOTOELECTRIC)

①_E135 HEAT DETECTOR FIXED TEMP.

М MONITOR MODULE CONTROL MODULE

RELAY MODULE

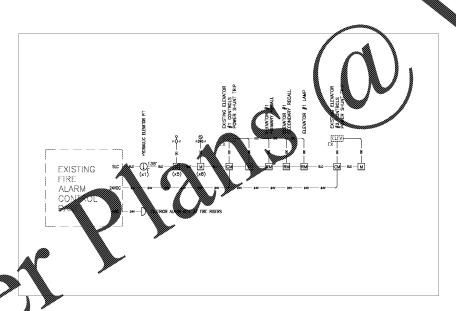
TAMPER SWITCH

,δ, FLOW SWITCH ALARM BELL

	LINE TYPE	DESCRIPTION	CLASS	TYPE
Α	slc	SIGNALING LINE CIRCUITS	В	2 #16 AWG FPLP
В	IDC	INITIATING DEVICE CIRCUITS	В	2 #16 AWG FPLP
С	24V	24VDC	N/A	2 #14 AWG FPLP

NOTE: ALL FIRE ALARM SYSTEM WIRING SHALL BE SOLID COPPER AND INSTALLED IN RIGID METAL OR ELECTRICAL METALLIC TUBING, WITH A MINIMUM INSIDE DIAMETER OF 3/4", THAT UTILIZES COMPRESSION TYPE FITTINGS AND COUPLINGS.

WIRE CHART



SCHEMATIC RISER DIAGRAM NOT TO SCALE

FIRE ALARM DESIGN CRITERIA

PROJECT SCOPE:
THE EXISTING FIRE ALARM AND DETECTION IS TO REMAIN. INITIATION WILL BE ADDED TO MONITOR THE NEW FIRE SPRINKLER SYSTEM FLOW AND TAMPER SWITCHES, ELEVATOR POWER SHUNT TRIP WILL BE ADDED TO DISCONNECT AUTOMATICALLY THE MAIN LINE POWER SUPPLY TO THE AFFECTED ELEVATORS INITIATED BY THE FLOW SWITCH ON THE ELEVATOR EQUIPMENT ROOM FIRE SPRINKLER SYSTEM.

SYSTEM DESCRIPTION:
THE EXISTING SYSTEM IS A FULLY ADDRESSABLE FIRE ALARM SYSTEM. THE EXISTING FIRE ALARM CONTROL PANEL THE EXISTING SYSTEM IS A FULLY ADDRESSABLE FIRE ALARM SYSTEM. THE EXISTING FIRE ALARM CONTROL PANEL (EDWARDS ESTZ) IS TO REMAIN. SIGNALING LINE CRICLITS SHALL BE CLASS B WIRING. ALL FIRE ALARM SYSTEM WRING SHALL BE SOLID COPPER AND INSTALLED IN RIGID METAL OR ELECTRICAL METALLIC TUBING, WITH A MINIMUM INSIDE DIAMETER OF 3/4", THAT UTILIZES COMPRESSION TYPE FITTINGS AND COUPLINGS. FIRE ALARM WIRING SHALL TERMINATE ON TERMINAL STRIPS. THE USE OF WIRE NUTS IS NOT ACCEPTABLE ON THE FIRE ALARM SYSTEM.

GOVERNING STANDARDS:
SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH THE 2013 EDITION OF NFPA 13, THE 2014 EDITION OF NFPA 70, THE 2013 EDITION OF NFPA 72, 2015 EDITION OF PBS-P100, AS WELL AS THE 2015 INTERNATIONAL BUILDING CODE, AND THE 2015 INTERNATIONAL FIRE CODE.

EIRE SPRINKLER: THE BUILDING'S SPRINKLER SYSTEM IS A COMPLETE NFPA 13 SYSTEM WITH PROTECTION IN ALL AREAS.

AUTOMATIC FIRE DETECTION:
AUTOMATIC DETECTION WILL BE ADDED IN THE HYDRAULIC ELEVATOR PIT WITHIN 24-INCHES OF THE FIRE SPRINGER
HEAD AND SHALL INITIATE ELEVATOR POWER SHUNT TRIP. FIRE DETECTION IN ELEVATOR #1 EQUIPMENT ROOM SHALL
BE REPAIRED OR REPLACED TO MEET ELEVATOR RECALL, ELEVATOR SHUNT TRIP, AND FIRE ALARM FUNCTIONALITY.

PATHWAY SURVIVABILITY:
PATHWAY SURVIVABILITY SHALL MEET THE REQUIREMENTS OF NFPA 72 LEVEL 2 OR LEVEL

MONITORING:
THERE IS AN EXISTING FIRE ALARM COMMUNICATOR WHICH MONITORS THE FIRE ALARA AND FIRE ALARM MONITORING ARRANGEMENT ARE TO REMAIN AS INSTALLED.

EIRE ALARM SYSIEM DOCUMENTATION:
UPON COMPLETION OF SYSIEM INSTALLATION, A DOCUMENT BOX SI
ALL OPERATIONS AND MANITENANCE PROCEDURES, SYSIEM DOCUMENT OF A DISK OR USB JUMP DRIVE.

REQUIRED MAINTENANCE:
THE FOLLOWING MAINTENANCE RELATED ITEMS ARE FOURED BY CODE
1. ANNUAL INSPECTION, TESTING, AND MAINTENANCE IS REQUIRED FOR
SCHEDULED BY THE OWNER TO BE PERFORMS ON AN ANNUAL B.
IN ACCORDANCE WITH NFPA 72. M SYSTEM AND MUST BE SED FIRE ALARM CONTRACTOR, TION TO BUILDING OPERATIONS.

2. TESTING SHALL BE COORDINATED_BY

3. RECORDS OF INSPECTION, TESTING, AND MAINTE

OTHER: CONTRACTOR SHALL SUBJECT SHOP ENGINEERING FOR REMOVED FORE WINGS, CALCULA RODUCT SUBMITTALS TO NEPTUNE FIRE PROTECTION

Output Signals

**	Fire Alarm Panel Indication					tion	Notification					Safety Control					
	Adducte fire stem visual signal on fire stem control panel	Actuate fire alarm audible signal at fire alarm control panek	Actuale supervisory visual signal on fire alarm control panel	Actuate supervisory audible signal at fire alarm control panel	Actuate trouble visual signal on fire alarm control panel	Actuate trouble audible signal at fire alarm control panel	Activate fire alarm visual and audible notification appliances	Activate exterior alarm bell by fire riser with waterflow	Transmit fine alarm signal to monitoring station	Transmit supervisory signal to monitoring station	Transmit trouble signal to monitoring slation	Elevator Control Functions	Muninate fireman's hat indicator light	Recall elevator to primary floor	Recall elevator to atternate floor	Shunt trip power to mainline elevator service	
Input Signals	4	ω ∀	O	4	\ U	¥	Ø	< 	۳	7	¥	12	- E	Σ	z.	0	-
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elevator lobby smoke detector (Basement)	•	•		_		_	1		٠				•	•			4
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rol Initiating Devices (Elevator #2 - Hydraulic) ment room waterflow switch (1st Floor) in Trydraulic elevator pit litions			<u> </u>		•	•		l			•			•		•	9
rol Initiating Devices (Elevator #2 - Hydraulic) ment room waterflow switch (1st Floor) n hydraulic elevator pit filtions			 	l	•	•					:			•		•	9

Notes: Elevator #1 (electric traction) recall functionality to be repaired (elevator controls by others). Provide elevator power shunt trip from elevator equipment room water flow switch. Elevator #2 (hydraulic) recall functionality to remain. Provide elevator power shunt trip from elevator equipment room water flow switch and heat detector in elevator pit.

SEQUENCE OF OPERATIONS

NOT TO SCALE

MARCH 7, 2018 100% DRAWINGS APPROVED FOR CONSTRUCTION





3603 NW 98th Street, Gainesville, FL 32606 Phone: (352) 474-6124 COA: FL #26693



REVISION Date GS-04P-16-EX-C-7070 EQ4PC1-16-5002 PRIME A/E AKEA, INC.
ADDRESS 3603 NW 98TH STREET
CANESVILLE ATLANTIC BEACH SUB A/E Adoress NAME Address . ROY ROWLAND CT 300 NORTH FRANKLIN ST. ADD'L FACILITY

TITLE INSTALL FIRE SPRINKL
DESCRIPTION DESIGN—BUILD (DB) INSTALL FIRE SPRINKLER SYSTEM FIRE SPRINKLER SYSTEM SUBMISSION 100% DRAWINGS SUB DATE 3/07/2018
SIGN MOR. MICHAEL POPE
SIGN DATE ARNOLD J. HEIDT, III | MECIL DIG. | ARNOLUS / R.HEUT, III | MEDIL NO. VGA00038 / E04PC1-16-5002 | MEDIL DIGHN 37.0 | MEDIL DIGHN DATE DRAWN 3/06/2018
DATE CKD 3/06/2018 9 of 20 FA-1 DISCIPLINE SHEET TYPE SEQUENCE