

BELMONT ACADEMY PHASE 2

2ND FLOOR ADDITION

This item has been electronically signed and sealed by Rafael E. Gino, PE on 11/11/2020 using a Digital Signature.

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DEVICE LEDGEND

SYMBOL LEGEND						
ITEM NO.	SYMBOL	QTY. TOTAL	DESCRIPTION	MANUFACTURER	MODEL #	BOX REQUIREMENT
1		1	PAD-4	SIEMENS	PAD-4	SELF CONTAINED
2		1	120V SURGE PROTECTOR	DATEK	DTK-120NH	4" SQUARE
3		8	SMOKE DETECTOR	SIEMENS	OPS21	OCTAGONAL
4		2	HEAT DETECTOR	SIEMENS	H921	OCTAGONAL
5		1	DUCT DETECTOR	SIEMENS	FDZ482-HR	OCTAGONAL
6		3	PULL STATION	SIEMENS	HMS-D	SINGLE GANG
7		21	WALL MOUNTED HORN/STROBE	SIEMENS	SLSHR-F	4" SQUARE
8		6	WALL MOUNTED STROBE	SIEMENS	SLSHR-F	4" SQUARE
9		5	CONTROL RELAY	SIEMENS	HTR-R	4" SQUARE
10		2	PULL STATION EX - EXISTING TO BE RELOCATED	N/A	N/A	N/A
11		2	EXISTING WALL MOUNTED HORN/STROBE EX - EXISTING TO BE RELOCATED	N/A	N/A	N/A
12		1	CONTROL RELAY EX - EXISTING TO REMAIN	N/A	N/A	N/A
13		1	SMOKE DETECTOR EX - EXISTING TO REMAIN	N/A	N/A	N/A
14		1	DUCT DETECTOR EX - EXISTING TO REMAIN	N/A	N/A	N/A
15		3	END OF LINE RESISTOR	N/A	N/A	N/A

WIRE LEGEND

WIRE LEGEND T.S.A. = TWISTED SHIELDED JACKETED					
INDICATOR	NO. OF CONDUCTORS	SIZE AWG.	COLOR	WIRE TYPE	DESCRIPTION
A	2	18	RED	PLUR TSJ	ADDRESSABLE LOOP
B	2	14	YELLOW	PLUR	HORN/STROBE Ckt.
E	2	14	RED/BLACK	THRN	PAD TRIP/MONITOR

GENERAL NOTES

- SYSTEM SHALL BE INSTALLED PER NFPA 72 2013, NFPA 90A 2012, NEC 70 2014, IBC 2015, IFPC 6th EDITION 2017 (INCLUDED IS NFPA 1/101 2015) AND AS PER MANUFACTURERS RECOMMENDATIONS.
- ALL SMOKE DETECTORS SHALL BE MOUNTED A MINIMUM OF 3 FEET FROM ANY HVAC DIFFUSERS AND TIPS OF FAN BLADES.
- ALL SHIELDS SHALL BE CONTINUOUS AND FREE OF ANY GROUND LOOPS. SHIELD TERMINATIONS SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS.
- ALL WIRING SHALL BE FREE OF IMPROPER SPLICES (4 OR LESS WIRES UNDER 1 WIRE NUT).
- DEVICE AND PANEL LOCATIONS ARE APPROXIMATE. ACTUAL PLACEMENTS TO BE COORDINATED IN FIELD. FINAL PLACEMENTS WILL BE REFLECTED ON AS-BUILT DRAWINGS.
- ALL JUNCTION BOXES ABOVE THE CEILING CONTAINING FIRE ALARM WIRING SHALL BE MARKED OR PAINTED RED.
- ALL CEILINGS ARE 10'0" OR LESS AFF UNLESS OTHERWISE NOTED.
- THE PROVISIONS FOR NFPA 101 36.3.4.2 2015 EDITION ARE MET FOR THE BUILDING.

SCOPE OF WORK

THE SCOPE OF WORK IS TO INSTALL NEW DEVICES PER THE DRAWING, TO ACCOMMODATE THE RENOVATIONS. INSTALL NEW PAD-4.
CONNECT NEW HORN/STROBES AND STROBES TO THE NEW PAD-4.
CONNECT NEW ADDRESSABLE DEVICES TO THE EXISTING ADDRESSABLE LOOP.
DEVICE ADDRESS (TBD) TO BE DETERMINED IN THE FIELD AND REFLECTED ON THE AS-BUILT DRAWINGS.
ALL NEW WIRING SHALL BE CLASS "B"

OCCUPANCY TYPE

THE OCCUPANCY IS EDUCATIONAL.

SPRINKLER PROTECTION

THE BUILDING IS FULLY SPRINKLED.

SYSTEM SEQUENCE OF OPERATION MATRIX

FIRE ALARM SYSTEM SEQUENCE OF OPERATION MATRIX		SYSTEM OUTPUTS									
SYSTEM INPUTS		SYSTEM OUTPUTS									
ALARMS		SYSTEM OUTPUTS									
MANUAL FIRE ALARM STATIONS		X	X			X	X				X
SMOKE DETECTORS AND HEAT DETECTORS		X	X			X	X				X
ELEVATOR LOBBY SMOKE DETECTORS - 1ST FLOOR		X	X			X	X		X		X
ELEVATOR LOBBIES/MACHINE ROOM SMOKE DETECTORS (EXCEPT 1ST FLOOR LOBBY)		X	X			X	X	X		X	X
ELEVATOR SHAFT/PTT-MACHINE RM, HEAT DETECTOR		X	X			X	X	X		X	X
SUPERVISORY		SYSTEM OUTPUTS									
DUCT SMOKE DETECTORS		X		X		X				X	X
TROUBLE		SYSTEM OUTPUTS									
PAD-4 TROUBLE		X			X	X					X
ELEVATOR SHUNT TRIP BREAKER A/C POWER LOSS		X			X	X					X

NOTE: THIS SEQUENCE OF OPERATION REPRESENTS THE WORK BEING PERFORMED IN THE SCOPE SHOWN ON THIS DRAWING ONLY.

PERMIT #

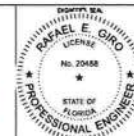
PROJECT: BELMONT ACADEMY PHASE 2
2ND FLOOR ADDITION

DATE: NOVEMBER 05, 2020

LEGENDS / NOTES

DATE: NOVEMBER 05, 2020
JOB NO: FP-269450
DRAWN BY: W.H.H. CHECKED BY: A.G.
PROJECT FOLDER: H-20052
FA.01
SHEET 01 OF 03

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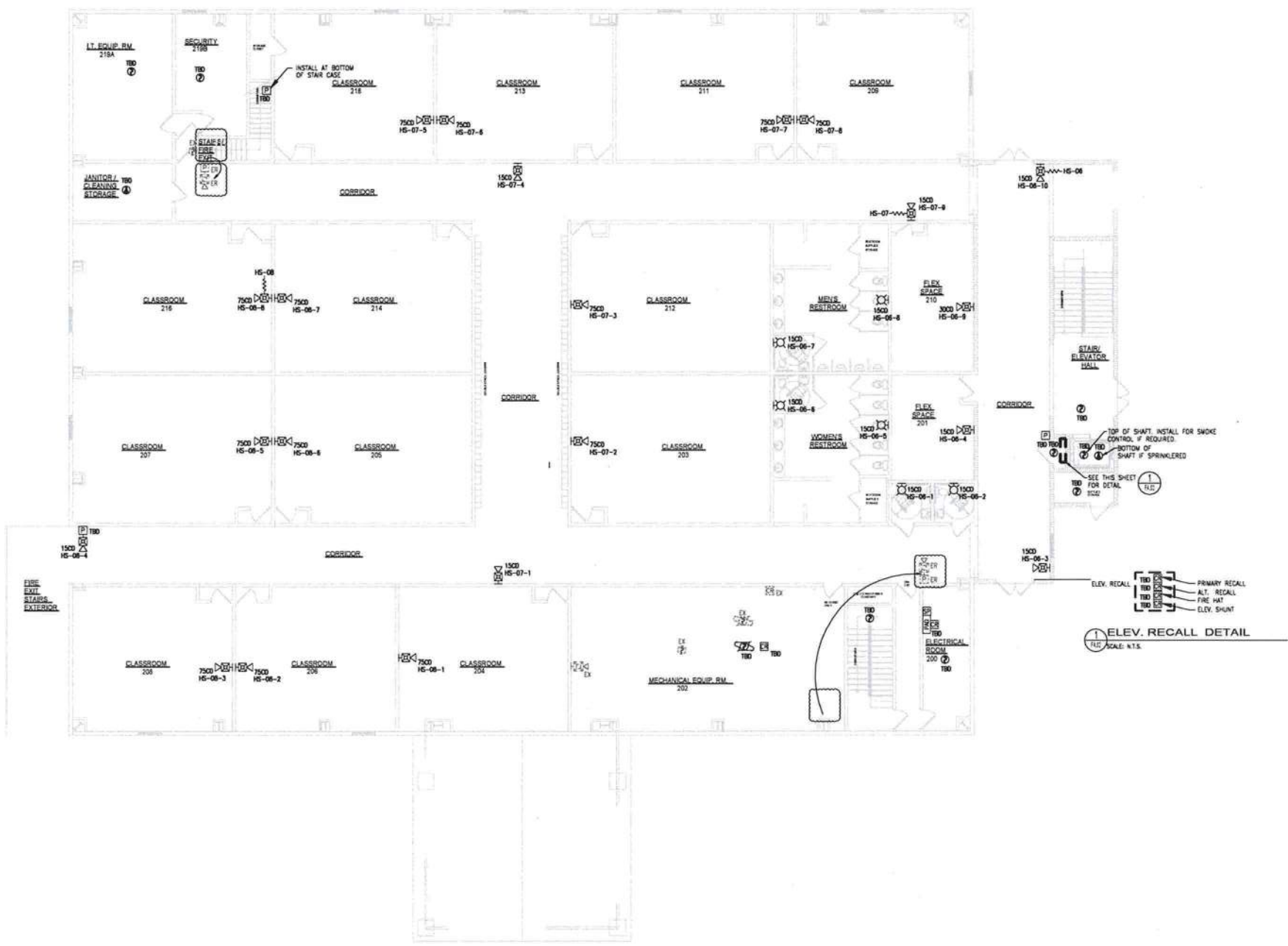
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THE REGISTERED PROFESSIONAL ENGINEER'S SEAL MUST BE PLACED ON ALL DRAWINGS AND SPECIFICATIONS.

REVISIONS	BY	DATE	NO.

PROJECT	BELMONT ACADEMY PHASE 2 2ND FLOOR ADDITION
DESCRIPTION	SECOND FLOOR FIRE ALARM LAYOUT
DATE	NOVEMBER 05, 2020
JOB NO.	FP-269450
DRAWN BY	W.H.H.
CHECKED BY	A.B.
PROJECT FOLDER	H-20052
FA.02	SHEET 02 OF 03



PERMIT #

PARTIAL SYSTEM RISER DETAIL
SCALE: N.T.S.

[illegible]