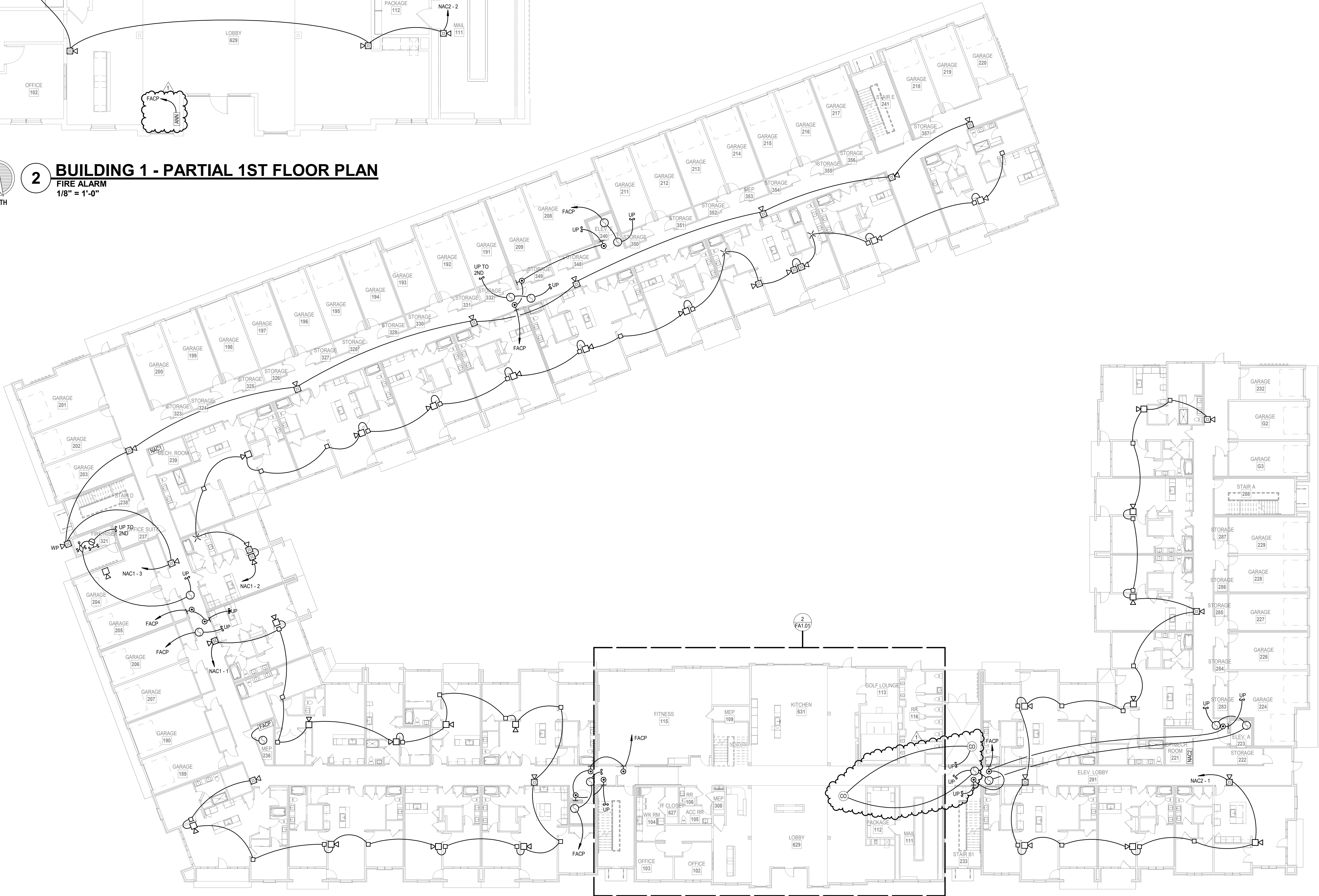


2 BUILDING 1 - PARTIAL 1ST FLOOR PLAN
FIRE ALARM
1/8" = 1'-0"



1 BUILDING 1 - OVERALL 1ST FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"

NFPA SYMBOLS LEGEND	
[FCP]	FIRE ALARM CONTROL PANEL
[PULL]	PULL STATION
[SMOKE]	SMOKE DETECTOR
[WALL HORN]	WALL HORN ONLY
[HORN STROBE]	HORN/STROBE WALL LOW FREQUENCY
[HORN STROBE]	OUTSIDE HORN/STROBE FOR WATER FLOW
[STROBE]	STROBE ONLY
[FLOW DET]	FLOW DETECTOR/SWITCH
[TAMPER]	TAMPER DETECTOR
[162 CBL]	162 CABLE SLC LOOP
[142 CBL]	142 OR 162 AS REQUIRED, CABLE NAC LOOP
[EOL]	END-OF-LINE RESISTOR

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

- NOTES:**
1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
 2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
 3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 4. WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
 5. TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANT DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
 6. ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
 7. DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING, NOT LESS THAN 4 INCHES FROM SIDEWALL.
 8. SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
 9. MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA 720 GUIDELINES.
 10. HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
 11. SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
 12. SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
 13. ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
 14. CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO, REMOTE WIRELESS UNITS CAN BE PROVIDED.
 15. THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY. ELEVATOR SAFETY UNIT, ELEVATORS WILL COMPLY WITH ASME A17.1-2015 EDITION.

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DRAWN BY Author
9/15/2023

SHEET NAME
BUILDING 1 OVERALL FIRST FLOOR PLAN
SHEET NO.

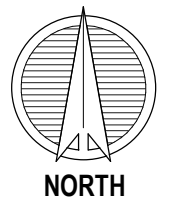
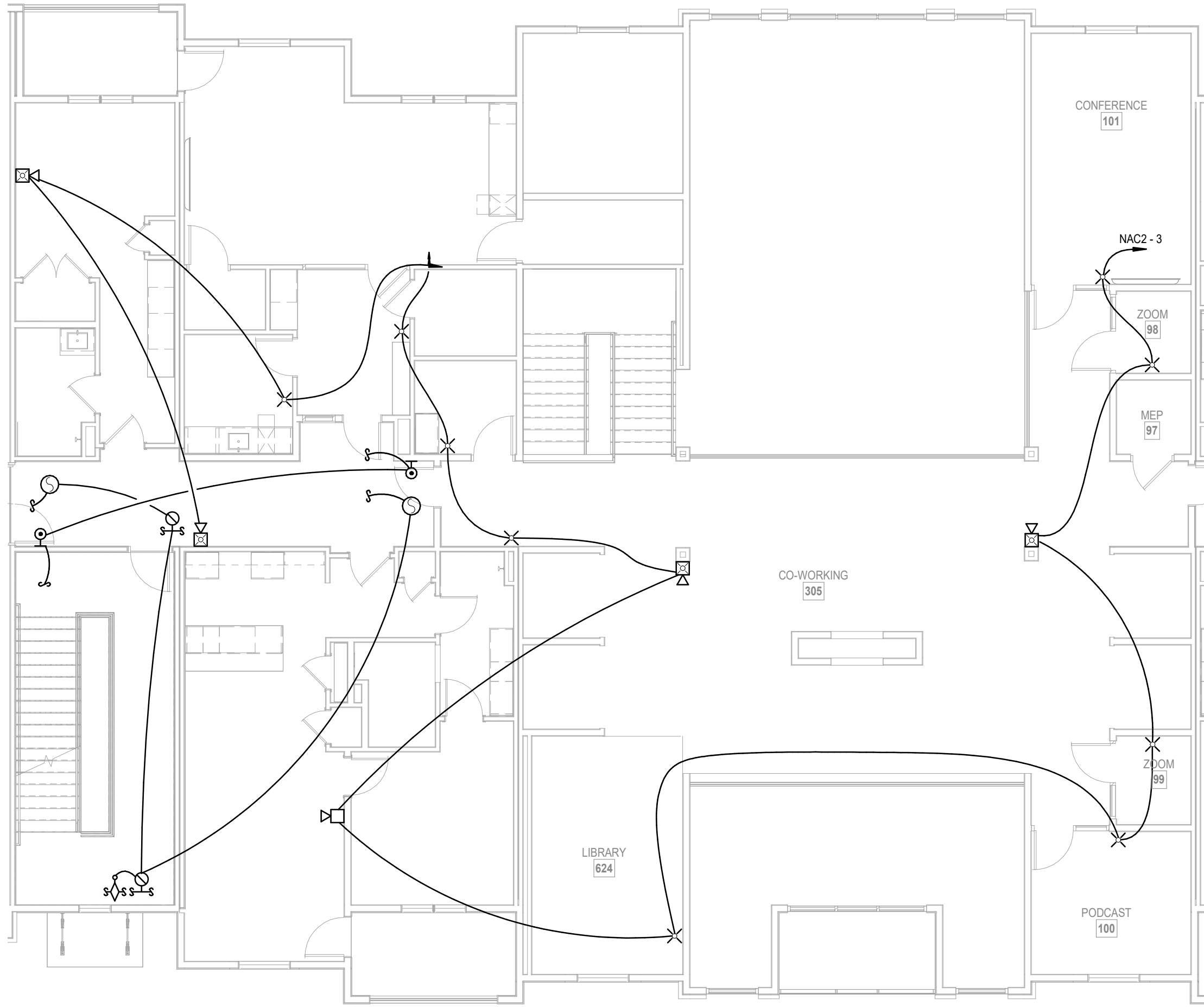
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Email: lsand@lsapa.com
LSA PROJECT NO. 2204061

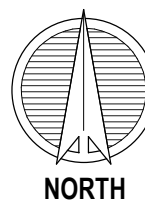
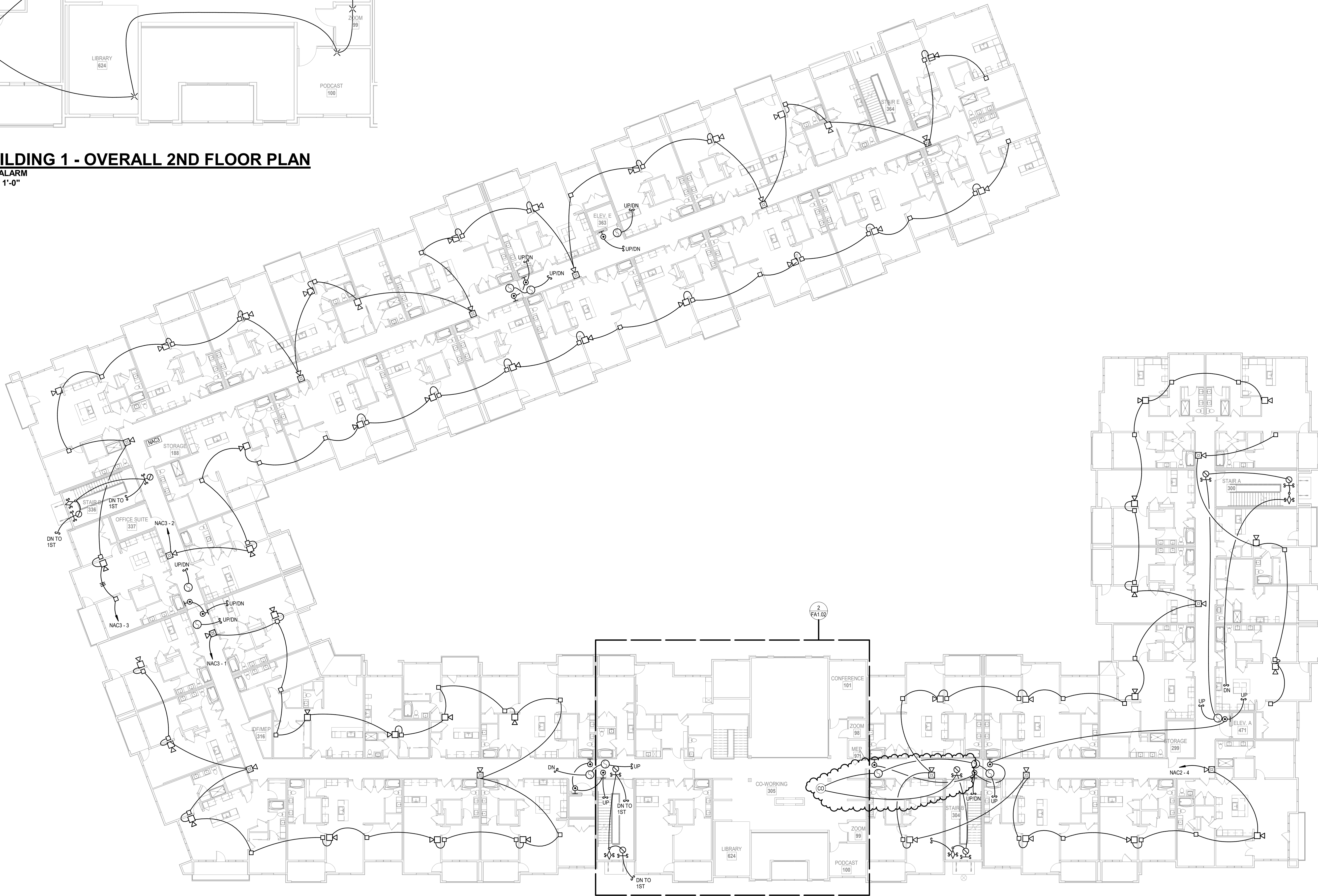
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04/02/2024



2 BUILDING 1 - OVERALL 2ND FLOOR PLAN
FIRE ALARM
1/8" = 1'-0"



1 BUILDING 1 - OVERALL 2ND FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"

NFPA SYMBOLS LEGEND	
[FCP]	FIRE ALARM CONTROL PANEL
[S]	PULL STATION
[SD]	SMOKE DETECTOR
[WH]	WALL HORN ONLY
[HWF]	HORN/STROBE WALL LOW FREQUENCY
[HWF]	OUTSIDE HORN/STROBE FOR WATER FLOW
[S]	STROBE ONLY
[FDS]	FLOW DETECTOR/SWITCH
[TAM]	TAMPER DETECTOR
[SLC]	182 CABLE SLC LOOP
[SLC]	142 OR 162 AS REQUIRED, CABLE NAC LOOP
[EDL]	END-OF-LINE RESISTOR

- NOTES:
- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 12.
 - INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
 - ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
 - TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANT DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
 - ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
 - DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4 INCHES FROM SIDEWALL.
 - SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
 - MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA 720 GUIDELINES.
 - HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
 - SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
 - SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
 - ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
 - CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO REMOTE-WIRELESS UNITS CAN BE PROVIDED.
 - THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSAS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY. ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2015 EDITION.

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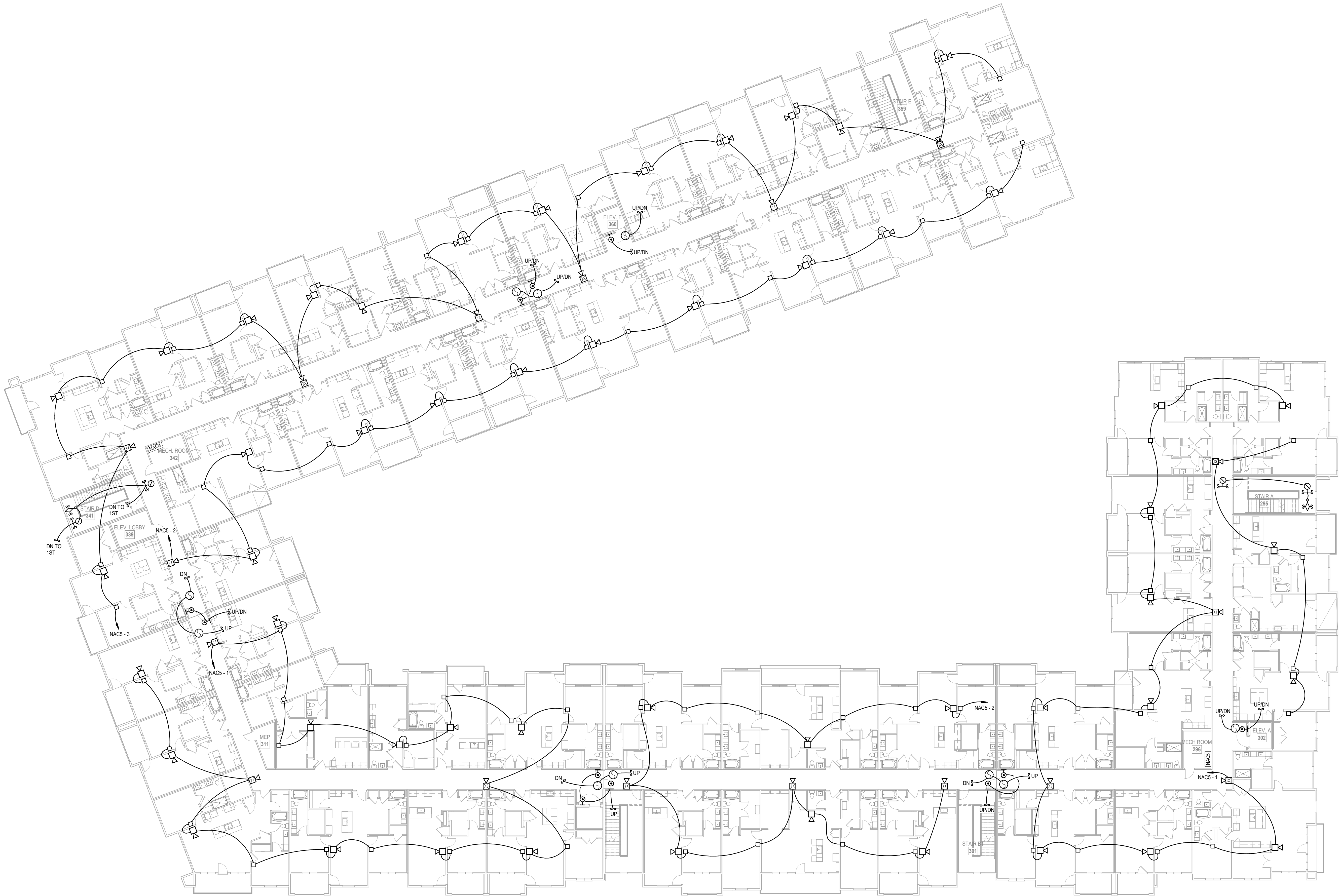
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1 04/02/2024 - City Response

JOB NO. 705921 DATE 03.15.2023
DRAWN BY Author
9/15/2023

SHEET NAME
BUILDING 1 OVERALL
SECOND FLOOR PLAN
SHEET NO.

FA1.02

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Email: lsap@lsapa.com
LSA PROJECT NO. 2204061



NFPA SYMBOLS LEGEND	
	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
	HORN STROBE WALL LOW FREQUENCY
	OUTSIDE HORN STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTORS SWITCH
	TAMPER DETECTOR
	162 CABLE SLC LOOP
	142 OR 162 AS REQUIRED, CABLE NAC LOOP
	END-OF-LINE RESISTOR
* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS	

- NOTES:
- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
 - INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
 - ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
 - TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANT DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
 - ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
 - DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4 INCHES FROM SIDEWALL.
 - SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
 - MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA 7204 GUIDELINES.
 - HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
 - SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
 - SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
 - ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
 - CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO REMOTE-WIRELESS UNITS CAN BE PROVIDED.
 - THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY. ELEVATOR SAFETY UNIT ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.

1 BUILDING 1 - OVERALL 3RD FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"

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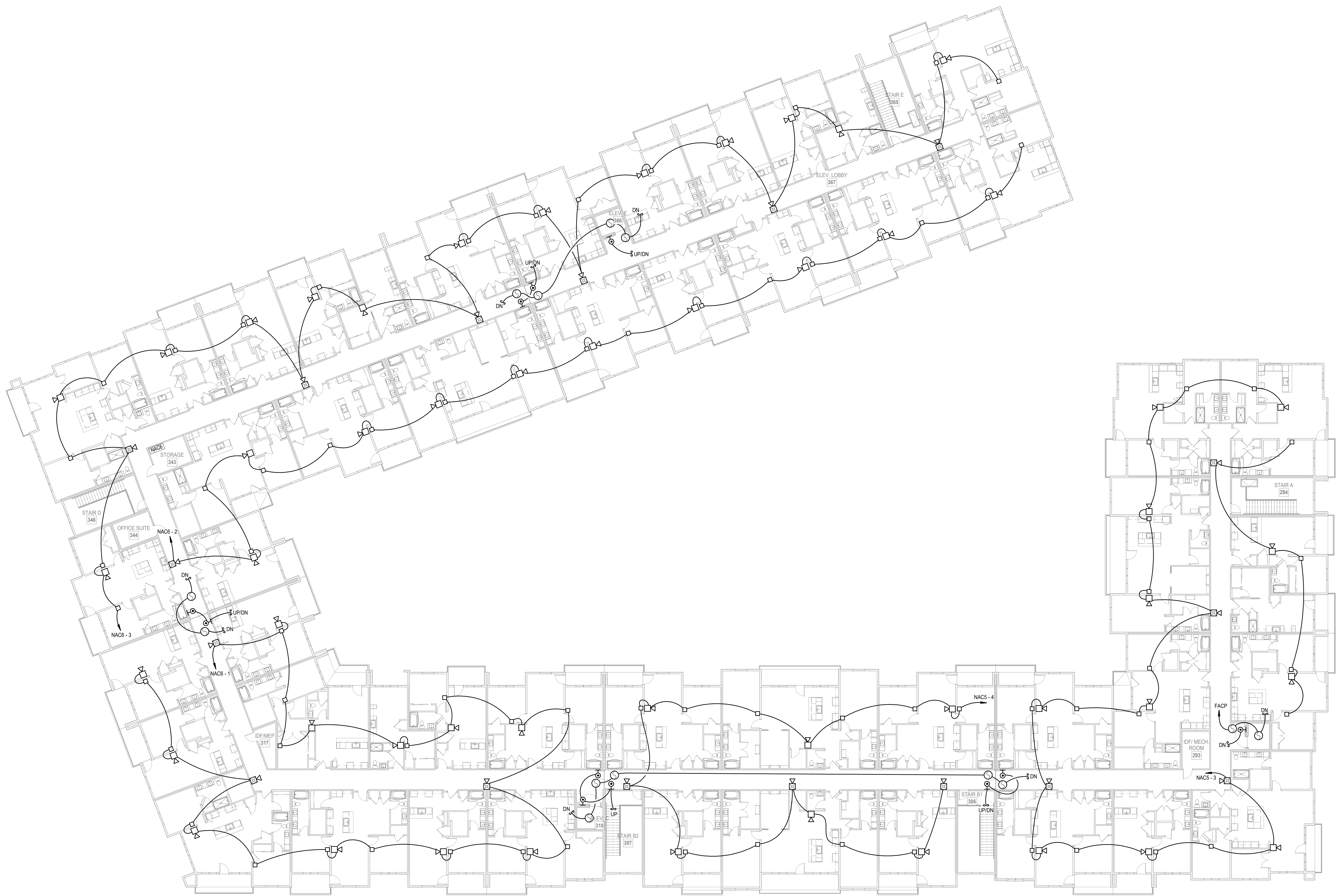
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THIRD FLOOR PLAN
SHEET NO.













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NFA SYMBOLS LEGEND	
	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
	HORN/STROBE WALL LOW FREQUENCY
	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	182 CABLE NAC LOOP
	142 OR 182 AS REQUIRED, CABLE NAC LOOP
	EOL END-OF-LINE RESISTOR
* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS	

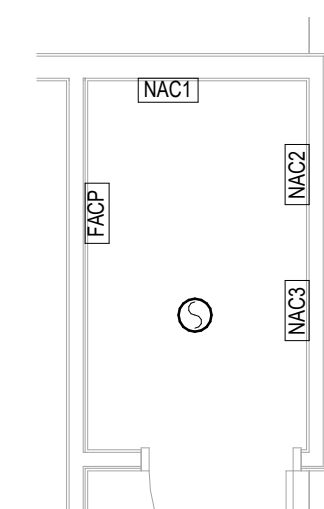
1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 7.
2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. WHERE CONDUCTORS ARE RUN IN CONDUIT, ONLY APPROVED CABLE WITH RACQUAWAYS, PIPES, OR COMPOUND ALL SHEATHS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
5. TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS, AND SMOKE DETECTOR, BE INSTALLED IN A CLEAN AND DRY AREA AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANT DETECTION OF SMOKE DETECTORS THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
6. ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUND FAULTS. SMOKE DETECTOR WIRING SHALL BE RUN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
7. DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING OF ROOMS LESS THAN 10 FEET FROM THE CEILING.
8. SIGNALING CIRCUIT WIRE RINGS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
9. MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA704 CODES.
10. HORNS WILL REMAIN ON UNTIL SILENCED AND STORES WILL REMAIN UNTIL ALARM IS RESET.
11. SYSTEM IS AN ADDRESSABLE SUPERVISOR PROTECTED PREMISES SYSTEM.
12. SET APARTMENT PLANS FOR SMOKE-DETECTED PROTECTION WITH UNITS.
13. ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
14. CAPABILITY OF FURTHER ADDITIONS SHALL BE PROVIDED VIA BLANK RINGS OR RINGS WITH REMOTE ADDRESSABLE CAPABILITY. REMOTE ADDRESSABLE ALSO REMOTE WIRELESS UNITS CAN BE PROVIDED.

15. THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY, ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.

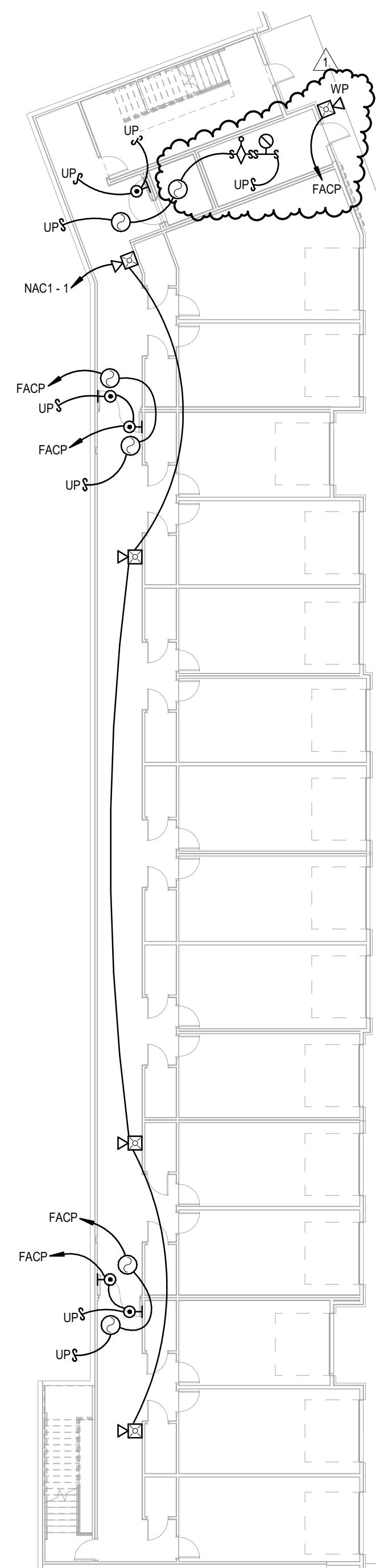
1 BUILDING 1 - OVERALL 4TH FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"















2 BUILDING 2 - OVERALL BASEMENT FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"



3 BUILDING 2 - OVERALL 1ST FLOOR PLAN - FIRE ALARM - Callout 1
FIRE ALARM
1/4" = 1'-0"



2 BUILDING 2 - OVERALL BASEMENT FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"

NFPA SYMBOLS LEGEND	
	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
	HORN/STROBE WALL LOW FREQUENCY
	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/ SWITCH
	TAMPER DETECTOR
	182 CABLE SLC LOOP
	142 OR 182 RQ REQUIRED, CABLE NAC LOOP
	END-OF-LINE RESISTOR
* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS	

NOTES

- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 7.
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- ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- WHERE CONDUITS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITH RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
- TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTOR HOUSING, RECOMMENDED 1/2" SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR CONTAMINATION IN SMOKE DETECTOR HOUSINGS AND WILL NOT WARRANT DETECTORS THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE FOUND TO BE PROTECTIVE OF THE HOUSING, THE SUPPLIER OR THE DETECTOR DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPEN, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
- DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING, NOT LESS THAN 4 INCHES FROM SIDEWALL.
- SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
- MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR AND COMPLY WITH NFPA400 GUIDELINES.
- HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
- SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM
- SEE APPARATUS PART FOR SMOKE/CO DETECTION WITHIN UNITS.
- ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
- CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOSES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE SPACE. ALSO REMOTE WIRELESS CUPS CAN BE PROVIDED
- THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND

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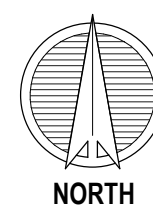
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1 04/02/2024 City R













JOB NO. **705921** DATE **03.15.2023**
DRAWN BY **Author**
9/15/2023

SHEET NAME
BUILDING 2 OVERALL FIRST
FLOOR PLAN
SHEET NO.

FA1.05

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NFPA SYMBOLS LEGEND	
	FIRE ALARM CONTROL PANEL
	FULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
	HORN/STROBE WALL LOW FREQUENCY
	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	182 CABLE SLC LOOP
	142 OR 162 AS REQUIRED, CABLE NAC LOOP
	END-OF-LINE RESISTOR
EOL	

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATORY CODES, AND SPECIFICATIONS.
3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. WHERE CONDUITS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITH RACEWAYS, PPES, OR CONDUITS. ALL SHELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
5. TO AVOID CONTAMINATION AND STOP ACCUMULATION IN THE SMOKE DETECTOR, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS BE INSTALLED IN A VENTILATED AREA WHERE CONTAMINATION AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR CONTAMINATION OF THE DETECTOR. DETECTORS MUST BE INSTALLED IN DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY A QUALIFIED SERVICE PERSONNEL.
6. ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM STOPS, OPENINGS, AND OTHERS. A SMOKE DETECTOR SHALL BE MOUNTED WITH FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
7. DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTOR SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4 INCHES FROM SIDEWALL.
8. SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
9. MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR AND BE LOCATED WITH AN INFLAMMABLE GUARD.
10. HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
11. SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
12. SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
13. ALL DEVICES SHALL BE VISIBLE IN A TYPE - A CENSISSANCE UNIT.
14. CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALL SENSITIVE WIRELESS UNITS CAN BE PROVIDED.
15. THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND IS MAINTAINED BY THE MAINTENANCE DEPARTMENT. ELEVATOR, ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.

04/02/2024

SHEET NO.
FA1.06





1

FIRE ALARM
1/16" = 1'-0"

NOTES:

1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY PROVIDED CABLE WITH RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
5. TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTOR NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DAMAGE TO SMOKE DETECTORS THAT MAY BE CAUSED BY UNWARRANTED DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE DAMAGED OR CORRODED COVERS SHALL BE INSTALLED OVER EACH DETECTOR DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
6. ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM STOPS, SPINDS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
7. DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF CEILING OR NEAR SMOKE DETECTOR SHALL BE LOCATED ON THE SUSPENSION AIR DIFFUSERS LESS THAN ONE INCHES FROM SIDEWALL.
8. SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
9. MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA404 GUIDELINES.
10. HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM RESET.
11. SYSTEM IS AN ADDRESSABLE PRELIGNED PROTECTED PREMISES SYSTEM.
12. SEE APPENDIX PLANS FOR SMOKECO DETECTION WITH INSTRUCTIONS.
13. ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
14. CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY.
15. MORE INFORMATION ABOUT THE APPLICABLE SECTIONS OF THE NEC AND ANSIS IS AVAILABLE BY THE DIVISION OF MISSOURI FIRE SAFETY. ELEVATOR SAFETY UNIT. DETECTORS WILL COMPLY WITH ANSIE AT 7.1 2019 EDITION.

A NEW RESIDENTIAL COMMUNITY AT:

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LANDSCAPE
ARCHITECTURE
ENERGY SERVICES

04/02/2024

1 04/02/2024 City Response

JOB NO. **705921** DATE **03.15.2023**
DRAWN BY **Author**

9/15/2023

SHEET NAME
**BUILDING 2 OVERALL
THIRD FLOOR PLAN**
SHEET NO.

FA1.07

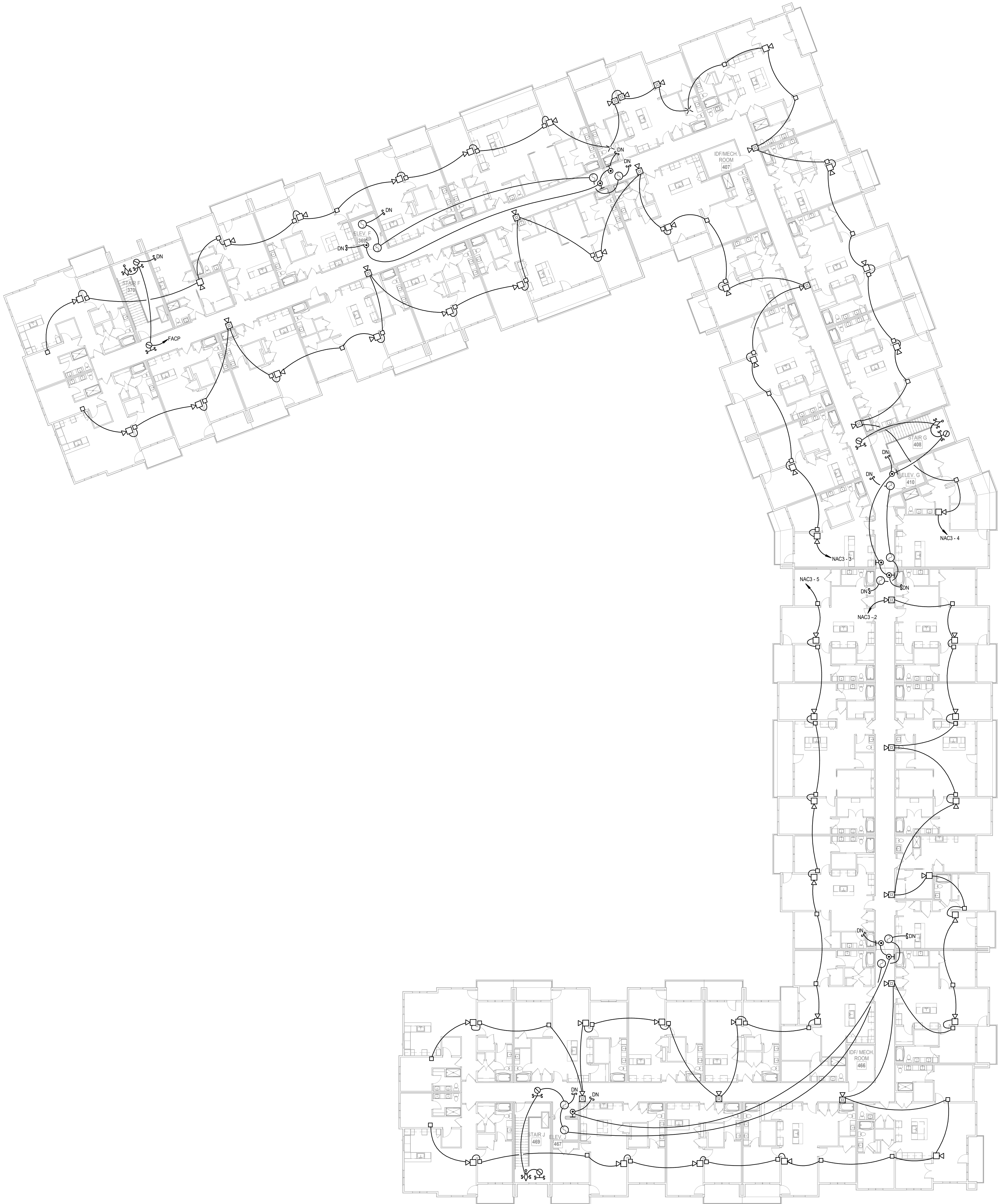
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LSA PROJECT NO. 2204061

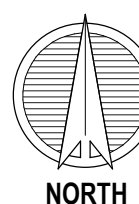


NFPA SYMBOLS LEGEND	
[FACP]	FIRE ALARM CONTROL PANEL
[S]	PULL STATION
[SD]	SMOKE DETECTOR
[WH]	WALL HORN ONLY
[HWP]	HORNSTROBE WALL LOW FREQUENCY
[HWP]	OUTSIDE HORNSTROBE FOR WATER FLOW
[X]	STROBE ONLY
[FS]	FLOW DETECTOR/SWITCH
[TD]	TAMPER DETECTOR
[CL]	182 CABLE SLC LOOP
[CL]	142 OR 162 AS REQUIRED, CABLE NAC LOOP
[ER]	END-OF-LINE RESISTOR

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

NOTES:

- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
- INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
- ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
- TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANTEE DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUND. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
- DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING, NOT LESS THAN 4 INCHES FROM SIDEWALL.
- SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
- MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA 720 GUIDELINES.
- HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
- SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
- SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
- ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
- CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO REMOTE WIRELESS UNITS CAN BE PROVIDED.
- THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY, ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.



1

BUILDING 2 - OVERALL 4TH FLOOR PLAN
FIRE ALARM
1/16" = 1'-0"

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DRAWN BY Author
9/15/2023

SHEET NAME
BUILDING 2 OVERALL
FOURTH FLOOR PLAN
SHEET NO.

FA1.08

A NEW RESIDENTIAL COMMUNITY AT:

TRILogy

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03.15.2023 - PERMIT SUBMITTAL

REVISIONS
1 04/02/2024 City Response

DATE 03.15.2023

SHEET NAME
BUILDING 2 OVERALL
FOURTH FLOOR PLAN
SHEET NO.

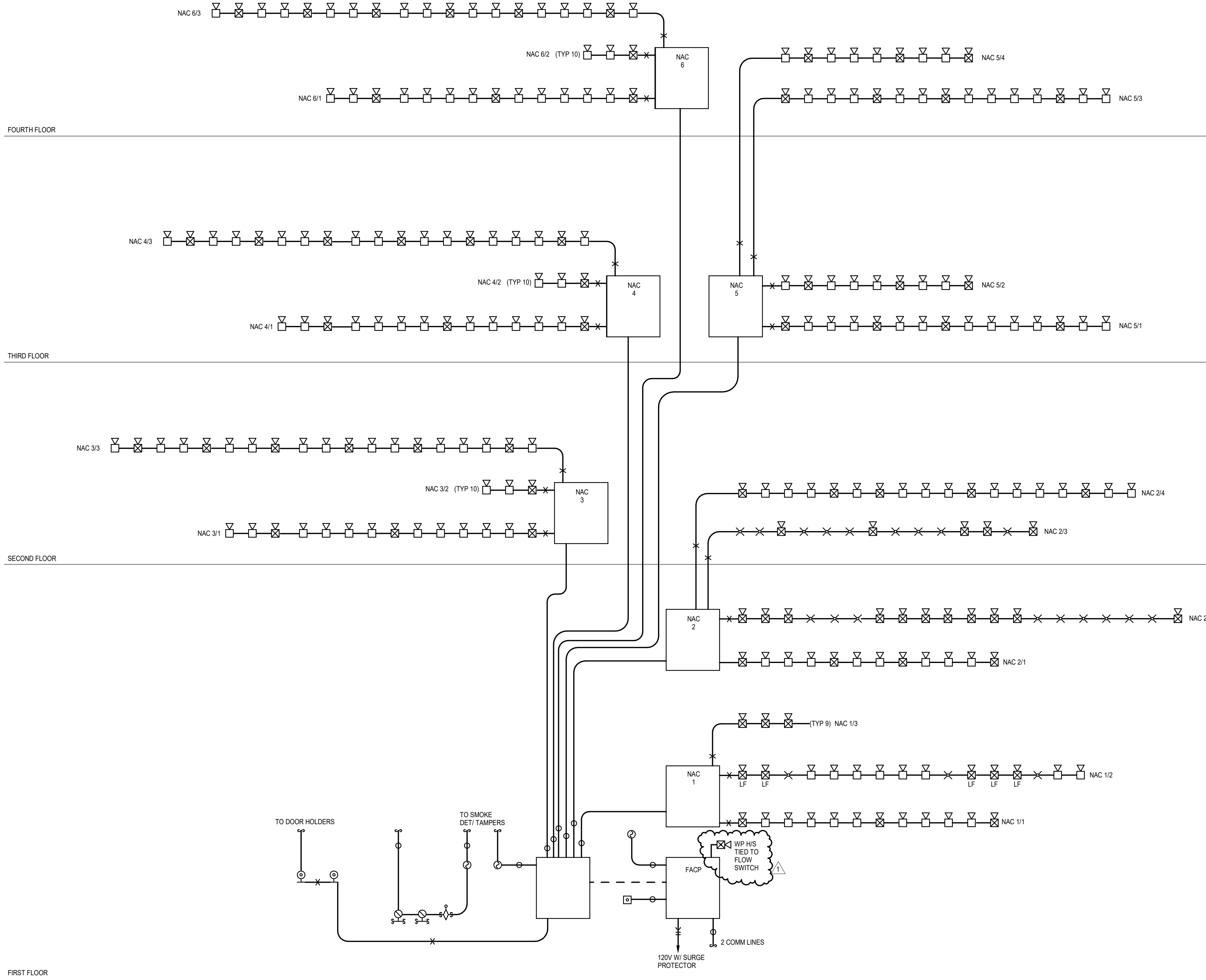
FA1.08

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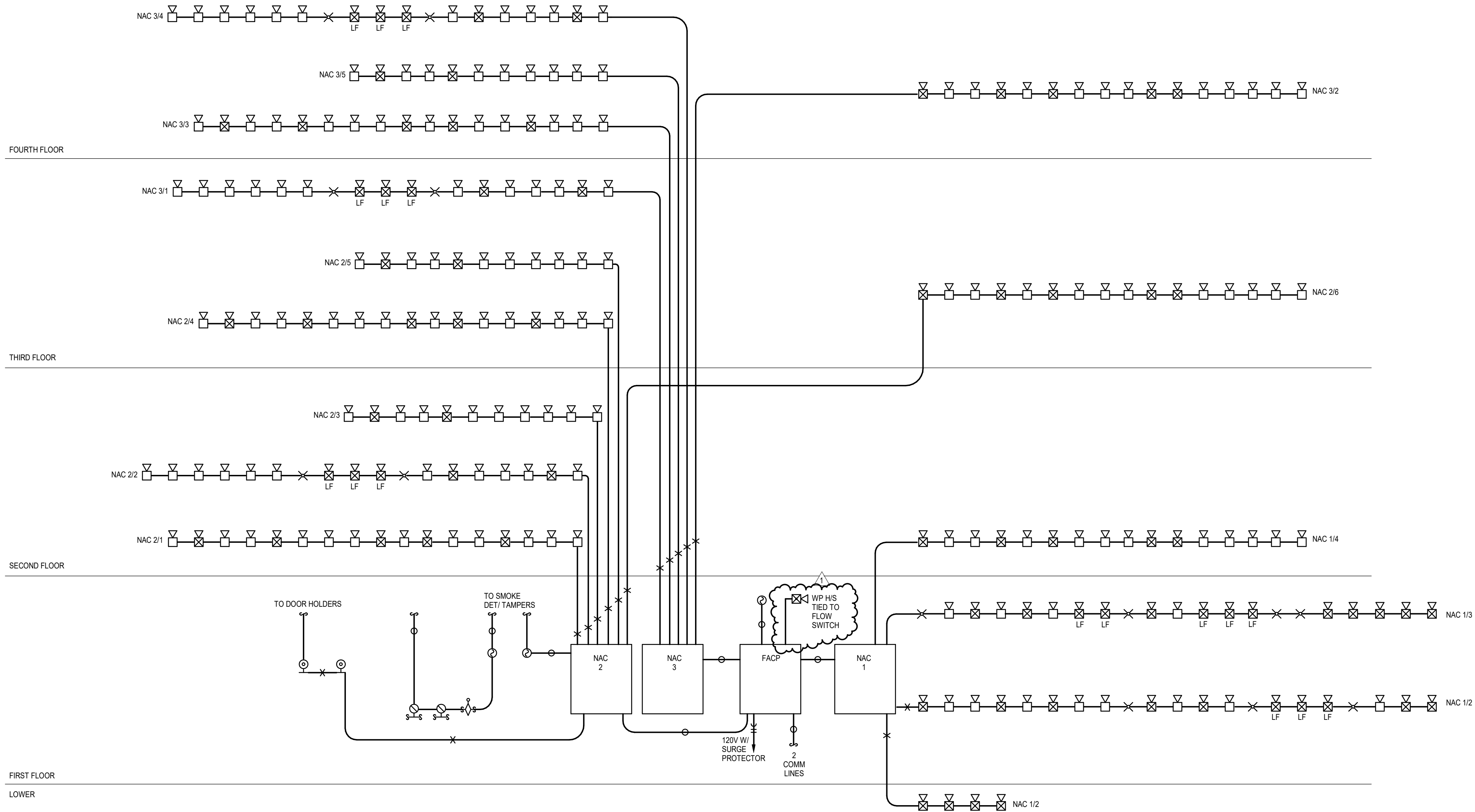
NSPJ
ARCHITECTS
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

04/02/2024



NFPA SYMBOLS LEGEND	
[POP]	FIRE ALARM CONTROL PANEL
[S]	PULL STATION
[SD]	SMOKE DETECTOR
[WH]	WALL HORN ONLY
[WHF]	HORN/STROBE WALL LOW FREQUENCY
[WFW]	OUTSIDE HORN/STROBE FOR WATER FLOW
[S]	STROBE ONLY
[FDS]	FLOW DETECTOR/SWITCH
[TD]	TAMPER DETECTOR
[SLC]	182 CABLE SLC LOOP
[NAC]	142 OR 162 AS REQUIRED, CABLE NAC LOOP
[EOL]	END-OF-LINE RESISTOR

- NOTES:
- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
 - INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
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 - WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
 - TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANT DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
 - ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
 - DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING, NOT LESS THAN 4 INCHES FROM SIDEWALL.
 - SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
 - MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA 720 GUIDELINES.
 - HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
 - SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
 - SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
 - ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
 - CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO REMOTE-WIRELESS UNITS CAN BE PROVIDED.
 - THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY. ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.



NFPA SYMBOLS LEGEND	
	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
	HORNSTROBE WALL LOW FREQUENCY
	OUTSIDE HORNSTROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR SWITCH
	TAMPER DETECTOR
	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED CABLE NAC LOOP
	END-OF-LINE RESISTOR
* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS	

- NOTES:
- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS, INCLUDING CHAPTER 72.
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 - ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENIS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.
 - DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING, NOT LESS THAN 4 INCHES FROM SIDEWALL.
 - SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
 - MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA/ADA GUIDELINES.
 - HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
 - SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.
 - SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
 - ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
 - CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO REMOTE WIRELESS UNITS CAN BE PROVIDED.
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A NEW RESIDENTIAL COMMUNITY AT:

TRILGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
03.15.2023 - PERMIT SUBMITTAL

REVISIONS
1 04/02/2024 City Response

JOB NO. 705921 DATE 03.15.2023
DRAWN BY Author
9/15/2023

SHEET NAME
BUILDING 2 FIRE ALARM
RISER
SHEET NO.

FA2.02

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& Associates P.A.
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Email: lsaa@lsaa.com
LSA PROJECT NO. 2204061

NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 1-1				Bldg 1 - NAC 1-2				Bldg 1 - NAC 1-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	3	0.2	0.6	HORN/STROBE - 75		0.2	0	HORN/STROBE - 75	9	0.2	1.8
STROBE - 15/75		0.077	0	STROBE - 15/75	3	0.077	0.231	STROBE - 15/75		0.077	0
LF HORN	9	0.08	0.72	LF HORN	8	0.08	0.64	LF HORN		0.08	0
LF HORN/STROBE		0.1	0	LF HORN/STROBE	5	0.1	0.5	LF HORN/STROBE		0.1	0
TOTAL			1.32	TOTAL			1.371	TOTAL			1.8
LOOP LENGTH	500	WIRE SIZE	#14	LOOP LENGTH	450	WIRE SIZE	#14	LOOP LENGTH	470	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	3.37	20.63	16	24	3.15	20.85	16	24	4.31	19.69	16

NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 2-1				Bldg 1 - NAC 2-2				Bldg 1 - NAC 2-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	4	0.2	0.8	HORN/STROBE - 75	11	0.2	2.2	HORN/STROBE - 75	5	0.2	1
STROBE - 15/75		0.077	0	STROBE - 15/75	9	0.077	0.693	STROBE - 15/75	9	0.077	0.693
LF HORN	8	0.08	0.64	LF HORN		0.08	0	LF HORN		0.08	0
LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0
TOTAL			1.44	TOTAL			2.893	TOTAL			1.693
LOOP LENGTH	400	WIRE SIZE	#14	LOOP LENGTH	490	WIRE SIZE	#14	LOOP LENGTH	320	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	2.94	21.06	16	24	7.23	16.77	16	24	2.76	21.24	16

NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 2-4				Bldg 1 - NAC 3-1, 4-1, 6-1				Bldg 1 - NAC 3-2, 4-2, 6-2			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1	HORN/STROBE - 75	3	0.2	0.6	HORN/STROBE - 75	1	0.2	0.2
STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0
LF HORN	13	0.08	1.04	LF HORN	11	0.08	0.88	LF HORN	10	0.08	0.8
LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0
TOTAL			2.04	TOTAL			1.48	TOTAL			1
LOOP LENGTH	650	WIRE SIZE	#14	LOOP LENGTH	580	WIRE SIZE	#14	LOOP LENGTH	450	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	6.76	17.24	16	24	4.38	19.62	16	24	2.30	21.71	16

NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 3-3, 4-3, 6-3				Bldg 1 - NAC 5-1, 5-3				Bldg 1 - NAC 5-2, 5-4			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	6	0.2	1.2	HORN/STROBE - 75	4	0.2	0.8	HORN/STROBE - 75	3	0.2	0.6
STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0
LF HORN	11	0.08	0.88	LF HORN	11	0.08	0.88	LF HORN	6	0.08	0.48
LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0
TOTAL			2.08	TOTAL			1.68	TOTAL			1.08
LOOP LENGTH	700	WIRE SIZE	#14	LOOP LENGTH	550	WIRE SIZE	#14	LOOP LENGTH	420	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	7.43	16.57	16	24	4.71	19.29	16	24	2.31	21.69	16

NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 1-1				Bldg 2 - NAC 1-2				Bldg 2 - NAC 1-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	4	0.2	0.8	HORN/STROBE - 75	7	0.2	1.4	HORN/STROBE - 75	5	0.2	1
STROBE - 15/75		0.077	0	STROBE - 15/75	2	0.077	0.154	STROBE - 15/75	3	0.077	0.231
LF HORN		0.08	0	LF HORN	7	0.08	0.56	LF HORN	4	0.08	0.32
LF HORN/STROBE		0.1	0	LF HORN/STROBE	3	0.1	0.3	LF HORN/STROBE	5	0.1	0.5
TOTAL			0.8	TOTAL			2.414	TOTAL			2.051
LOOP LENGTH	200	WIRE SIZE	#14	LOOP LENGTH	640	WIRE SIZE	#14	LOOP LENGTH	700	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	0.82	23.18	16	24	7.88	16.12	16	24	7.32	16.68	16

NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP				NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 1-4, 2-6, 3-2				Bldg 2 - NAC 2-1, 2-3, 3-3				Bldg 2 - NAC 2-2, 3-1, 3-4			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1	HORN/STROBE - 75	5	0.2	1	HORN/STROBE - 75	2	0.2	0.4
STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0
LF HORN	11	0.08	0.88	LF HORN	12	0.08	0.96	LF HORN	12	0.08	0.96
LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0
TOTAL			1.88	TOTAL			1.96	TOTAL			1.36
LOOP LENGTH	550	WIRE SIZE	#14	LOOP LENGTH	560	WIRE SIZE	#14	LOOP LENGTH	620	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	5.27	18.73	16	24	5.60	18.40	16	24	4.30	19.70	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 2-3, 2-5, 3-5			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	7	0.2	1.4
STROBE - 15/75		0.077	0
LF HORN	9	0.08	0.72
LF HORN/STROBE		0.1	0
TOTAL			2.12
LOOP LENGTH	420	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	4.54	19.46	16

Jobsite Information: Summit Square 3 Bldg 1

FCPS-24FS6 / 8 Battery Calculation

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board	1	X	0.065	=	0.065
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw from TB4 Terminals 9 & 10		X		=	0
STANDBY LOAD			= 0.065		

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board without AC	1	X	0.145	=	0.145
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw from TB4 Terminals 9 & 10		X		=	0
NAC / Output # 1 Strobes	21	X	0.08	=	1.68
NAC / Output # 2 Horn/Strobes	85	X	0.08	=	6.8
NAC / Output # 3 LF Horns	165	X	0.1	=	16.5
NAC / Output # 4 Spare		X		=	0
ALARM LOAD			= 25.125		

Battery Amp Hour Calculation

Standby Load Current (Amps)	0.065	X	Required Standby Time (Typically 24 or 60 Hours)	24	=	1.56	AH
Alarm Load Current (Amps)	25.125	X	Required Alarm Time (Typically 5 or 10 Minutes)	10	=	4.19	AH
Sub Total Standby / Alarm Amp Hours			5.75				AH
Multiply by the Derating Factor X			1.2				AH
Total Ampere Hours Required =			7				

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

Jobsite Information: Summit Square 3 Bldg 2

FCPS-24FS6 / 8 Battery Calculation

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board	1	X	0.065	=	0.065
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw from TB4 Terminals 9 & 10		X		=	0
STANDBY LOAD			= 0.065		

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board without AC	1	X	0.145	=	0.145
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw from TB4 Terminals 9 & 10		X		=	0
NAC / Output # 1 Strobes	5	X	0.08	=	0.4
NAC / Output # 2 Horn/Strobes	48	X	0.08	=	3.84
NAC / Output # 3 LF Horns	143	X	0.1	=	14.3
NAC / Output # 4 Spare		X		=	0
ALARM LOAD			= 18.685		

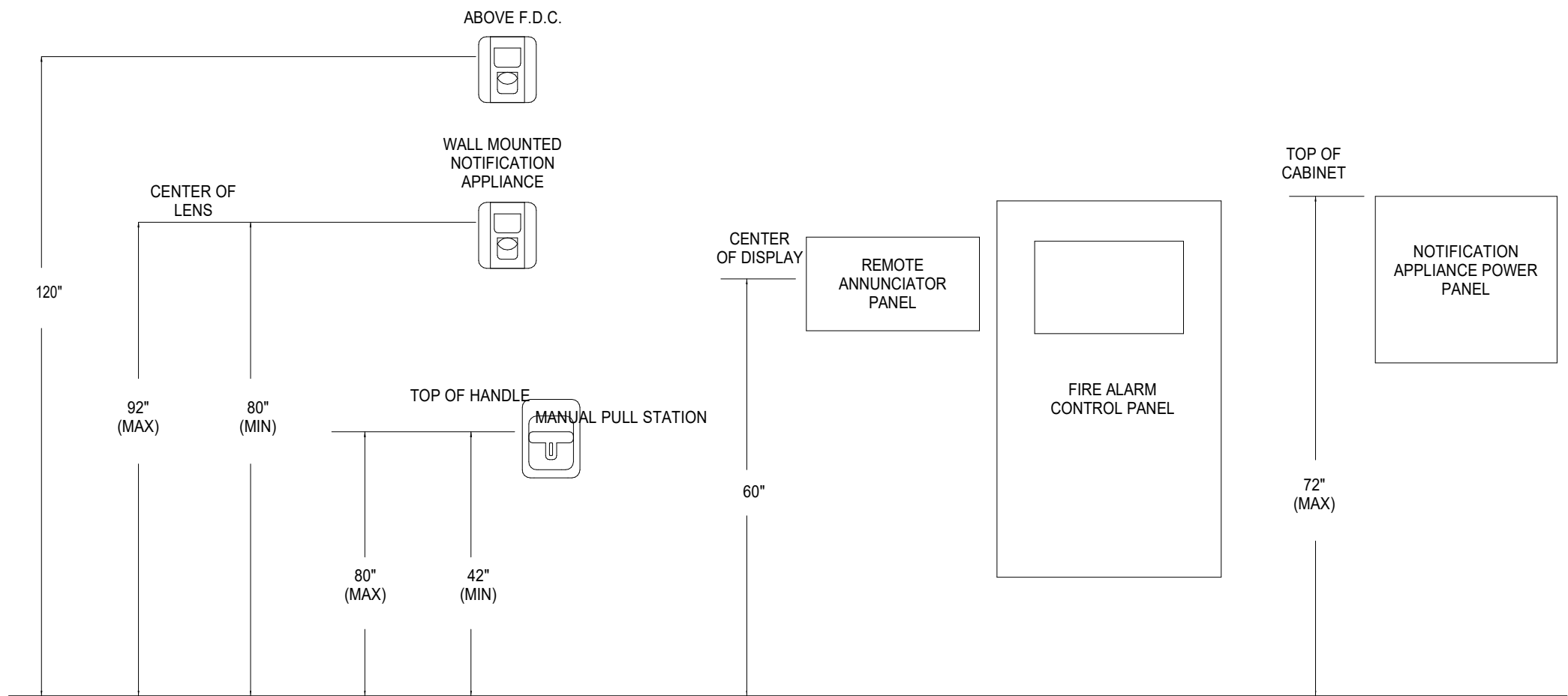
Battery Amp Hour Calculation

Standby Load Current (Amps)	0.065	X	Required Standby Time (Typically 24 or 60 Hours)	24	=	1.56	AH
Alarm Load Current (Amps)	18.685	X	Required Alarm Time (Typically 5 or 10 Minutes)	10	=	3.11	AH
Sub Total Standby / Alarm Amp Hours			4.67				AH
Multiply by the Derating Factor X			1.2				AH
Total Ampere Hours Required =			6				

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

FIRE ALARM SEQUENCE OF OPERATION MATRIX

SYSTEM INPUTS		SYSTEM OUTPUTS													level
		audible alarms activation	actuate strobes	transmit alarm to remote display	display alarm signal	display supervisory signal	display trouble signal	transmit supervisory signal	transmit trouble signal	record event at FACP	activate outside flow bell	release magnetic door holders	recall elevator to lowest level	recall elevator to alternate level	
1	manual pull station	X	X	X	X							X	X	X	1
2	area smoke detector	X	X	X	X							X	X	X	2
3	fire sprinkler system water flow	X	X	X	X							X	X	X	3
4	fire sprinkler system tamper				X			X							4
5	fire alarm AC power failure					X		X	X						5
6	fire alarm low battery					X		X	X						6
7	fire alarm open circuit					X		X	X						7
8	fire alarm ground fault					X		X	X						8
9	notification appliance circuit fault					X		X	X						9
10	fire alarm panel clear									X					10
		A	B	C	D	E	F	G	H	I	J	K	L	M	



WALL MOUNTED EQUIPMENT FIRE ALARM INSTALLATION HEIGHTS/DETAILS

1 NO SCALE