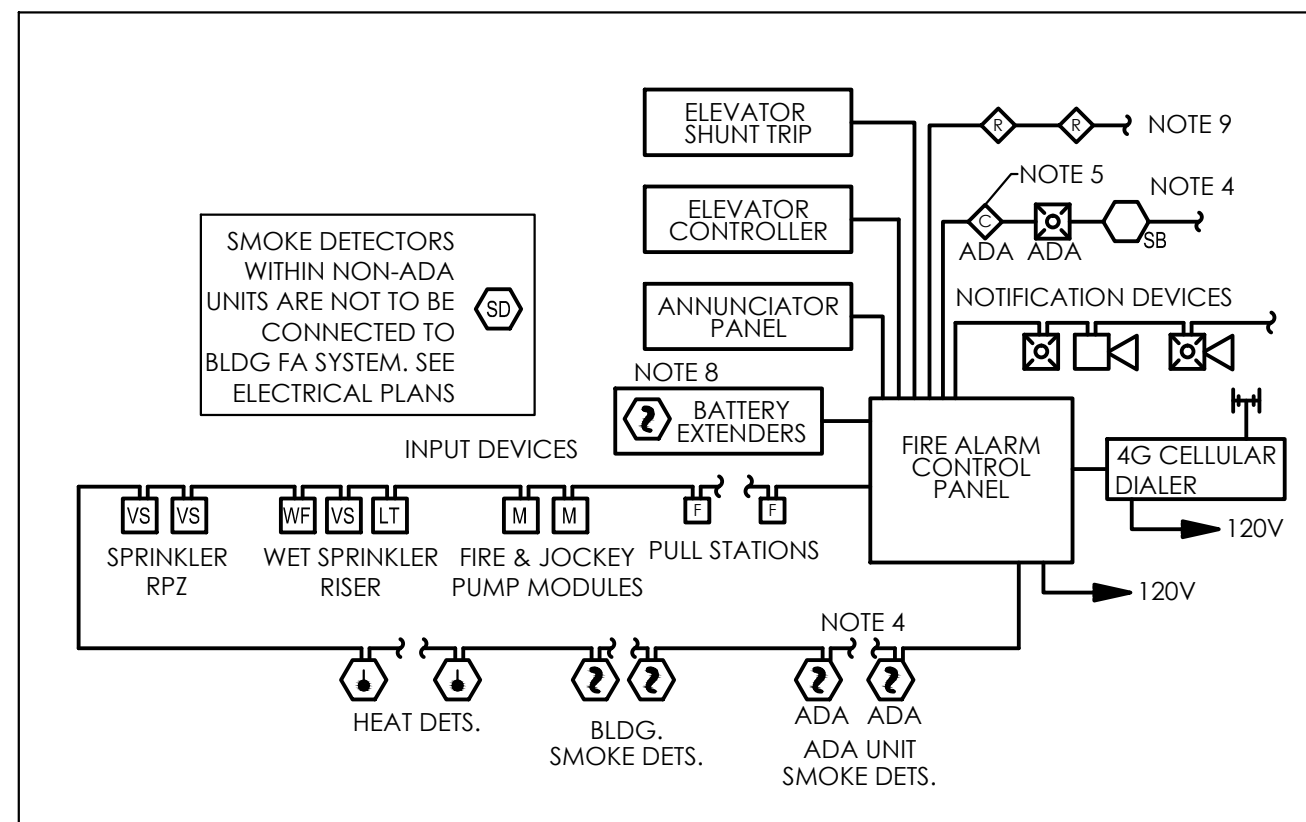


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3 FIRE ALARM DEVICE MATRIX

GENERAL FIRE ALARM NOTES

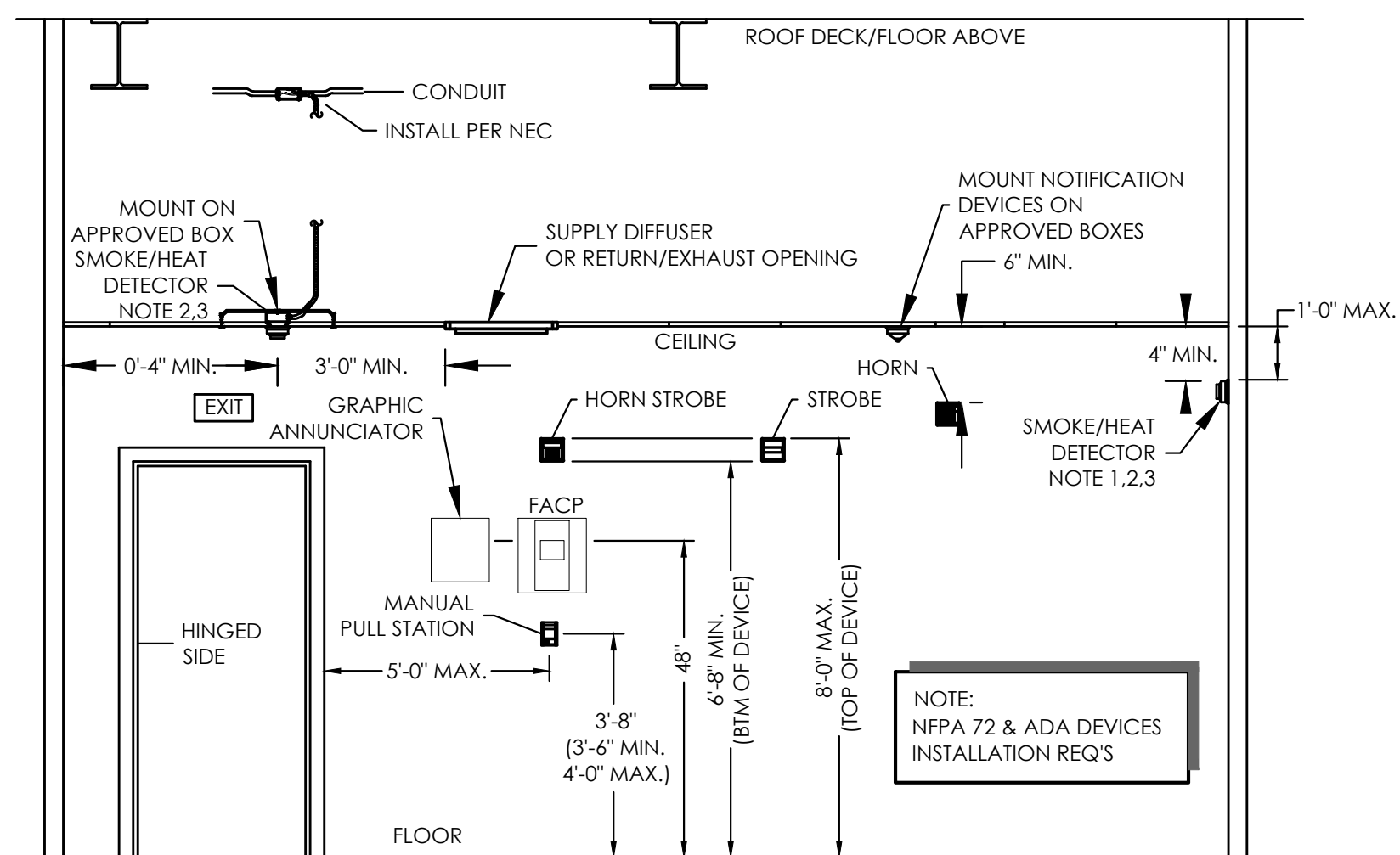
1. THE FIRE ALARM CONTRACTOR IS TO BE HELD TO THE SAME REQUIREMENTS AS THE ELECTRICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND ELECTRICAL "GENERAL NOTES" BEFORE COMPLETING BID.
2. FIRE ALARM CONTRACTOR IS TO VERIFY PROVIDED SYSTEM HAS BATTERY AND VOLTAGE CAPACITY TO HANDLE ALL DEVICES PLUS REQUIRED CAPACITY FOR POTENTIAL FUTURE DEVICES. PROVIDE FIRE ALARM SHOP DRAWINGS TO LOCAL AHJ.
3. AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND PRESSURE LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, AT ALL LOCATIONS WITHIN THE OCCUPABLE SPACE (TYPICAL AVERAGE AMBIENT SOUND PRESSURE LEVELS ARE GIVEN IN NFPA 72 TABLE A.18.4.3). THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 75 dBA IN OCCUPANCY GROUPS R AND I-1, 90 dBA IN MECHANICAL EQUIPMENT ROOMS, AND 60 dBA IN ALL OTHER OCCUPANCIES. THE MAXIMUM SOUND PRESSURE LEVEL SHALL BE 110 dBA AT THE MINIMUM HEARING DISTANCE FROM ANY AUDIBLE APPLIANCE.
4. IF THREE OR MORE FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCES ARE LOCATED WITHIN AN OBSERVERS FIELD OF VIEW (135°) AND WITHIN 55'-0" OF THE OBSERVER, THEN THE DEVICES SHALL BE SYNCHRONIZED.
5. LOW FREQUENCY DEVICES TO BE INSTALLED IN SLEEPING AREAS OF APARTMENT UNITS (INCLUDING LIVING ROOMS).
6. ADA SMOKE DETECTORS TO INCLUDE LOW FREQUENCY SOUNDER BASE. TEMPORAL 3 TONE PATTERN FOR FIRE ALARM.
7. FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND 'ADA'.
8. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT OR AS ALLOWED BY NEC OR LOCAL AHJ.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AN UPDATED FIRE ALARM LAYOUT PLAN AT THE FACP.
10. TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
11. FIRE ALARM DEVICES COLOR TO BE SELECTED BY THE ARCHITECT.
12. NAC CIRCUITS AND ASSOCIATED BATTERY PANELS SERVING DWELLING UNITS ARE TO BE DESIGNED WITH 20% SPARE CAPACITY FOR FUTURE VISUAL NOTIFICATION DEVICES.



NOTE:
PROVIDE SURGE
PROTECTION ON ALL FIRE
ALARM RELATED POWER
CIRCUITS AND ON ALL
UNDERGROUND FIRE
ALARM LINES.

FIRE ALARM SYMBOL LEGEND

| | |
|--|---|
| | FIRE ALARM CONTROL UNIT |
| | FIRE ALARM TERMINAL CABINET (N = TRANSPONDER NUMBER) |
| | FIRE SUPPRESSION CONTROL PANEL (N DENOTES SUPPRESSION TYPE) |
| | GRAPHIC ANNUNCIATOR PANEL |
| | DIGITAL ALARM COMMUNICATOR TRANSMITTER |
| | FIRE ALARM ANNUNCIATOR |
| | REMOTE VOICE EVACUATION VOICE (EVACUATION MICROPHONE) |
| | WATER FLOW SWITCH |
| | LOW TEMPERATURE SWITCH |
| | HIGH PRESSURE SWITCH |
| | PRESSURE DETECTOR /SWITCH |
| | VALVE SUPERVISORY SWITCH |
| | GAS DETECTOR (X = GAS TYPE EX. CARBON MONOXIDE) |
| | PROVIDE CARBON MONOXIDE DETECTOR. PROVIDE SOUNDER BASE WITH TEMPORAL 4 TONE COMPATIBILITY. INTELLIGENT SOUNDER BASE TO BE EQUAL TO 'SYSTEM SENSOR 8200S-WH'. |
| | HEAT DETECTOR/SENSOR (X= TYPE) |
| | PROVIDE BOX, AS SHOWN, TO DENOTE COMBINATION DETECTORS |
| | PROVIDE COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR FOR ADA UNITS. PROVIDE SOUNDER BASE WITH LOW FREQUENCY TEMPORAL 3 AND TEMPORAL 4 TONE COMPATIBILITY. INTELLIGENT SOUNDER BASE TO BE EQUAL TO 'SYSTEM SENSOR 8200S-LF'. PROVIDE ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR. DETECTOR EQUAL TO 'FIRE LITE SD355CO'. |
| | PULL STATION/FIRE ALARM |
| | SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE) |
| | SMOKE DETECTOR - IONIZATION TYPE (ION) |
| | SMOKE DETECTOR IN ADA UNIT. PROVIDE INTELLIGENT LOW FREQUENCY SOUNDER BASE WITH EQUAL TO 'SYSTEM SENSOR 8200S-LF'. PROVIDE COMPATIBLE PHOTOELECTRIC SMOKE DETECTOR/SENSOR. |
| | SMOKE ALARM (SINGLE STATION) |
| | SMOKE ALARM (MULTI. STATION) |
| | DETECTOR WITH SOUNDER BASE (SB) |
| | DETECTOR - MULTI CRITERIA TYPE (MC) |
| | DUCT SMOKE DETECTOR (NFPA 72, SECTION 17.7.5.5) |
| | AUDIBLE ONLY APPLIANCE (WALL MOUNTED) |
| | VISUAL ONLY APPLIANCE (WALL MOUNTED) |
| | AUDIBLE/VISUAL APPLIANCE (WALL MOUNTED) |
| | VISUAL ONLY APPLIANCE (CEILING MOUNTED) |
| | AUDIBLE ONLY APPLIANCE (CEILING MOUNTED) |
| | AUDIBLE/VISUAL APPLIANCE (CEILING MOUNTED) |
| | AUDIBLE ONLY APPLIANCE, SPEAKER (WALL MOUNTED) |
| | AUDIBLE/VISUAL APPLIANCE, SPEAKER (WALL MOUNTED) |
| | AUDIBLE ONLY APPLIANCE, SPEAKER (CEILING MOUNTED) |
| | AUDIBLE/VISUAL APPLIANCE, SPEAKER (CEILING MOUNTED) |
| | MAGNETIC DOOR HOLDER (SUPPLIED WITH DOOR HARDWARE). CONNECT TO LOCAL SMOKE DETECTOR. |
| | ANSUL HOOD SYSTEM "ALARM" OUTPUT. |
| | FIRE ALARM RELAY. COORDINATE FAIL OPEN/FAIL CLOSED REQUIREMENTS AND VOLTAGES WITH APPLICATION. |
| | FIRE ALARM CONTROL MODULE. COORDINATE FAIL OPEN/FAIL CLOSED REQUIREMENTS AND VOLTAGES WITH APPLICATION. |
| | SPRINKLER BELL (WALL MOUNTED) |



1 FIRE ALARM AND SIMILAR DEVICE LOCATIONS

1. PLACE SMOKE/HEAT DETECTOR AT HIGHEST POINT IN VAULTED CEILINGS.
2. PLACE SMOKE/HEAT DETECTOR NO LESS THAN 3FT FROM BATHROOM/SHOWER ROOM ROOM DOORS (2020 FBC 907.2.11.4)
3. PLACE PHOTOELECTRIC SMOKE/HEAT DETECTORS NO LESS THAN 6FT FROM PERMANENTLY INSTALLED COOKING APPLIANCES (2020 FBC 907.2.11.3.3). PLACE IONIZATION SMOKE/HEAT DETECTORS WITH AN ALARM-SILENCING SWITCH NO LESS THAN 10FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2020 FBC 907.2.11.3.2). PLACE IONIZATION SMOKE/HEAT DETECTORS WITHOUT AN ALARM-SILENCING SWITCH NO LESS THAN 20FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2020 FBC 907.2.11.3.1).



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Oasis at Surfside - Phase II

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CHECKED BY: ZL

SHEET TITLE:

FIRE ALARM
SCHEDULES NOTES
AND LEGEND

SHEET NUMBER:

FA0.01