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| QTY | SYMB               | DESCRIPTION                             | MANUFACTURER                       | MODEL                  | BACKBOX       |
|-----|--------------------|---|------------------------------------|------------------------|---------------|
| 01  | FACP               | FIRE ALARM CONTROL PANEL                | FIRELITE                           | ES-200X                | N/A           |
| 01  | FAA                | FIRE ALARM ANNUNCIATOR                  | FIRELITE                           | ANN-80                 | ANN-SB80KIT-R |
| 01  | FAC                | FIRE ALARM COMMUNICATOR                 | FIRELITE                           | FIRELITE TG-7VFS       |               |
| 01  | DOC                | DOCUMENTS CABINET                       | SPACEAGE SSU00672                  |                        |               |
| 01  | (AIM) <sub>D</sub> | DUAL ADDRESSABLE INPUT MODULE           | FIRELITE                           | MDF-300                | 4" SQ x 2.5"D |
| 02  | <b>(AIM)</b>       | ADDRESSABLE INPUT MODULE                | FIRELITE                           | MMF-300                | 4" SQ x 2.5"D |
| 02  | (AOM)              | ADDRESSABLE OUTPUT MODULE               | FIRELITE                           | CRF-300                | 4" SQ x 2.5"D |
| 04  | F                  | FIRE ALARM PULLSTATION                  | FIRELITE                           | BG-12LX                | 1 GANG        |
| 01  | ⟨S⟩ <sub>P</sub>   | SMOKE DETECTOR - PHOTOELECTRIC          | FIRELITE                           | SD365                  | 4" SQ x 2.5"D |
| 04  | \(\frac{1}{S}\)    | SMOKE DETECTOR - DUCT                   | SUPPLIED BY OTHERS CONNECTION ONLY |                        |               |
| 02  | RTS                | REMOTE ALARM INDICATING AND TEST SWITCH | SYSTEM SENSOR                      | SYSTEM SENSOR RTS-AOS2 |               |
| 01  | F                  | FLOW DETECTOR/SWITCH                    | SUPPLIED BY OTHERS CONNECTION ONLY |                        |               |
| 01  | <u> </u>           | VALVE SUPERVISORY (TAMPER) SWITCH       | SUPPLIED BY OTHERS CONNECTION ONLY |                        |               |
| 06  | ŏ c                | HORN/STROBE - CEILING MOUNT             | SYSTEM SENSOR                      | PC2RL                  | 4" SQ x 2.5"D |
| 02  | X                  | HORN/STROBE - WALL MOUNT                | SYSTEM SENSOR                      | P2RL                   | 4" SQ x 2.5"D |
| 05  | × <sub>c</sub>     | STROBE - CEILING MOUNT                  | SYSTEM SENSOR                      | SCRL                   | 4" SQ x 2.5"D |
| 05  | X                  | STROBE - WALL MOUNT                     | SYSTEM SENSOR                      | SRL                    | 4" SQ x 2.5"D |
| 02  | ₩ <sub>P</sub>     | HORN/STROBE - WALL MOUNT - WEATHERPROOF | SYSTEM SENSOR                      | P2RK                   | WWB           |
| 01  | КВ                 | KNOX BOX                                |                                    |                        |               |
| xx  | EOL RE             | END OF LINE - RESISTOR                  |                                    |                        |               |
|     |                    | CIRCUIT CONTINUATION                    |                                    |                        |               |

| atrusion Alarm Control Panel Vith Accessories  atrusion Alarm Ilpha Keypad  atrusion Alarm Power Supply  Vireless Receiver  urface Mount Door Contact | Bosch B8512G Including: (1) B299, (1) B8103, (1) D1640, (1) D101, (1)B208, (1)B308, (1) B299, (1)12V10A, (1) B444 and (1) B40-MB50  BOSCH - B920  AL400ULX - D9127U  EN4232MR                                  | 1 1 2 1   | JOHNSON CONTRO<br>GLOBAL CENTER C<br>1800 INTERNATION<br>BIRMINGHAM AL 3!<br>1-877-330-7404  |
|---|--|---|--|
| Ilpha Keypad Itrusion Alarm Power Supply Vireless Receiver  | AL400ULX -<br>D9127U   | 1 2   |  |
| Vireless Receiver   | D9127U   | 2   | AESBL LICENSE #  |
|   |  |   | - P 02   |
|   | EN4232MR   | 1   | QUITE OF E   |
| urface Mount Door Contact   |  | ·   |  |
|   | 1100A-12WG-W   | 6   |  |
|   | D9127U   | 4   |  |
| verhead Door Contact  | MET-44WG-18  | 1   | CENTER O   |
|   | D9127U   | 1   | INSTALLING CONT  |
| utdoor Gate contact   | 8450-3   | 2   | l <b>Tu</b>  |
|   | EN1210EOL  | 2   |  |
| lotion Detector<br>/all Mount   | ZX935Z   | 4   | KEYPLAN:   |
| lotion Detector<br>eiling Mount   | ZX938Z   | 4   |  |
| Left on Detection   | DS9370   | 2   |  |
|   |  | 2   |  |
|   |  |   |  |
| lass Break Detector   |  | -   |  |
|   |  | + -   |  |
| anic / Hold-up Button   |  | + '   |  |
|   |  | 1   |  |
| terior Sounder  | WAVE2  | 1   | CONTACT INFORM   |
| xterior Sounder With Strobe   | AS-SSX82SB   | 1   | GAVIN ELLIS<br>NICET ID - 194349   |
| trobe<br>nterior, Amber   | SL401A   | 1   | FIRE ALARM SYSTE<br>+1(205)943-6523<br>GAVIN.1.ELLIS@JC  |
| ntrusion System<br>unction box  | NA   | 2   |  |
|   | otion Detector /all Mount  otion Detector eiling Mount  otion Detector eiling Mount  lass Break Detector anic / Hold-up Button  terior Sounder  kterior Sounder With Strobe trobe terior, Amber trusion System | utdoor Gate contact  EN1210EOL  ZX935Z  otion Detector /all Mount  otion Detector eilling Mount  DS9370  D9127U  lass Break Detector D9127U  anic / Hold-up Button D9127U  terior Sounder  wterior Sounder With Strobe trobe terior, Amber trusion System unction box  DS9370  DS9370  D9127U  AX938Z  ZX938Z  DS9370  D9127U  D9127U  AS9370  D9127U  AS9370  D9127U  AS9370  AS9370  D9127U  AS9370  AS9370 | Substitute   Sub |

|     | /11  |
|-----|--|
|     | Johnson Controls   |
| Qty | Controls   |
|     | JOHNSON CONTROLS<br>GLOBAL CENTER OF EXCELLENCE  |
| 1   | 1800 INTERNATIONAL PARK DR STE 500<br>BIRMINGHAM AL 35243  |
| 1   | 1-877-330-7404<br>AESBL LICENSE # 1667   |
| 1   | ER OF  |
| 2   | the state of the s |
| 1   |  |
| 6   | QAS INTER<br>ISO 900<br>REGISTER   |
| 4   |  |
| 1   | CENTER OF EXCELLENCE NETWO   |
| 1   | INSTALLING CONTRACTOR:   |
| 2   | TYCO   |
| 2   | Integrated Secu  |
| 4   | KEYPLAN:   |
| 4   |  |
| 2   |  |
| 2   |  |
| 1   |  |
| 1   |  |
| 1   |  |
| 1   |  |

Prepared By Gavin Ellis NICET #194349 Fire Alarm Systems Level III

| PROTOTIFES  |                         |  |  |
|---|-------------------------|--|--|
|   |                         |  |  |
| ACTION  | BY WHO                  | WHEN   | SPECIAL NOTES  |
| STORE ADDED TO SOS  | TSC REAL ESTATE         | 1ST MONDAY OF EACH MONTH   |  |
| CODES AND BUILDING TYPE (CONTACT TSC PM AS NECESSARY) RESEARCHED, BA AND FA PLANS COMPLETED             | JOHNSON CONTROLS (JCI)  | 30 DAYS AFTER ADDED TO THE SOS   | PLEASE BE SURE TO VERIFY HVAC SYSTEMS (GROUND MOUNT VS. ROOF MOUNT, ETC) |
| JOHNSON CONTROLS COMPLETED PLANS SENT TO TSC<br>PLANS FORWARDED TO LL AND/OR THEIR ARCHITECT            | JOHNSON CONTROLS (JCI)  | 30 DAYS  |  |
| TSC TO REVIEW LL PLANS FOR ACCURACY   | TSC PM                  | 31 DAYS  |  |
| LL TO COMPLETE ALL LVW SOW PER PLANS  | TSC PM                  | WHEN SENT BY LL  |  |
|   | LL / LVW VENDOR         | NO LESS THAN 2 WEEKS PRIOR TO FD FROM 2 WEEKS FROM FD TO WEDNESDAY PRIOR TO FD |  |
| JCI TO INSTALL THEIR EQUIPMENT AND MAKE TERMINATIONS  | JOHNSON CONTROLS (JCI)  |  |  |
| INSTALLATION OF PA SYSTEM, PHONE SYSTEM, SPEAKERS, OUTSIDE HORNS, PHONES, PATCH PANEL, AP'S W/ ANTENNAS | MERCURY TECH            | MONDAY AND TUESDAY BEFORE FD   |  |
| INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM                                   | MERCURY TECH / AGYLISIS | TUESDAY BEFORE FD  |  |
| RETROFITS   |                         |  |  |

| ACTION   | BY WHO                   | WHEN  | SPECIAL NOTES                       |
|--|--------------------------|---|-------------------------------------|
| STORE ADDED TO SOS                                       | TSC REAL ESTATE          | 1ST MONDAY OF EACH MONTH                      |                                     |
| TSC ARCHITECT TO SEND BASE PLAN TO JCI                   | TSC PM                   | 10-20 DAYS AFTER ADDED TO SOS                 |                                     |
| CODES RESEARCHED, BA AND FA PLANS                        | JOHNSON CONTROLS (jJCI)  | UPON RECEIPT OF BASE PLAN                     |                                     |
| TSC ARCHITECT TO NOTIFY JOHNSON CONTROLS (TIS) VIA EMAIL |                          |   | PLEASE BE SURE TO VERIFY HVAC SYSTE |
| THAT FULL SET OF PLANS IS AVAILABLE AT PLAN EXPRESS      | TSC PM                   | 20-30 DAYS AFTER REC APPROVAL                 | (GROUND MOUNT VS. ROOF MOUNT, ETC   |
| TIS COMPLETED PLANS SENT TO RICH WOOD AND TSC PM         | JCI                      | W/IN 3 DAYS OF RECEIPT OF FULL SET OF PLANS   |                                     |
| TSC ARCHITECT TO INSERT TIS PLANS INTO SET FOR PERMIT    | TSC PM                   | UPON RECEIPT OF JCI PLAN                      |                                     |
| GC TO BID RECOMMENDED LVW VENDORS                        | TSC PM                   | VERIFIED AT BID EVALUATION                    |                                     |
| GC / LVW VENDOR FINISHED ALL LVW SOW PER PLANS           | TSC PM / INFO SYSTEMS OR | NO LESS THAN 2 WEEKS PRIOR TO FD FROM 2 WEEKS |                                     |
|  | MERCURY TECH             | FROM FD TO WEDNESDAY PRIOR TO FD              |                                     |
| JCI TO INSTALL THEIR EQUIPMENT AND MAKE TERMINATIONS     | JCI                      |   |                                     |
| INSTALLATION OF PA SYSTEM, PHONE SYSTEM, SPEAKERS,       | MERCURY TECH             |   |                                     |
| OUTSIDE HORNS, PHONES, PATCH PANEL, AP'S W/ ANTENNAS     |                          | MONDAY AND TUESDAY BEFORE FD                  |                                     |
| INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND         | MERCURY TECH / AGYLISIS  |   |                                     |
| TESTING OF AP SYSTEM                                     |                          | TUESDAY BEFORE FD                             |                                     |

INITIATING DEVICE ADDRESSING LEGEND

ADDRESSABLE LOOP L'1:M-001 ADDRESSABLE MODULE NUMBERING

NOTIFICATION DEVICE ADDRESSING LEGEND

FACP:1-1

HORN / STROBE, HORN ONLY, STROBE ONLY <u>DEVICE NUMBERING</u>

FAPS1:1-1

HORN / STROBE, HORN ONLY, STROBE ONLY <u>DEVICE NUMBERING</u>

DEVICE ADDRESS ———

FIRE ALARM PANEL NAC

FIRE ALARM POWER SUPPLY —

DEVICE DESIGNATOR — (D=DETECTOR, M=MODULE) L1:D-001 ADDRESSABLE DETECTOR NUMBERING

CIRCUIT DESIGNATOR

□ DEVICE DESIGNATOR

CIRCUIT DESIGNATOR

─ DEVICE DESIGNATOR

### FIRE ALARM SYSTEM (FA): GENERAL NOTES:

Customer EMS Panel / Power Supply Tamper Switch

A. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST.

B. FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. FIRE ALARM SYSTEM VENDOR SHALL FURNISH AND INSTALL BACKBOXES AND RACEWAYS WITH PULL STRINGS FOR THE FIRE ALARM SYSTEM ONLY. LVW VENDOR SHALL FURNISH AND INSTALL ALL WIRING FOR FIRE ALARM SYSTEM. FIRE ALARM DEVICES FURNISHED AND INSTALLED BY THE SYSTEM

C. LVW VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES. D. FIRE ALARM WIRING SHALL HAVE A RED JACKET TO MEET NFPA CODES FOR EXPOSED

## FIRE ALARM CABLING. **GENERAL WIRING NOTES:**

A. ALL WIRING FROM THE FIRE ALARM CONTROL PANEL TO ALL INITIATING DEVICES (SMOKE DETECTORS, PULL STATIONS, ADDRESSABLE MODULE, ETC.) SHALL BE 16AWG/2

CONDUCTOR SHIELDED PLENUM. B. ALL WIRING FROM THE FIRE ALARM CONTROL PANEL TO ALL ANNUNCIATOR DEVICES SHALL BE 18AWG / 4 CONDUCTOR NON-SHIELDED PLENUM.

C. ALL WIRING FROM ANY ADDRESSABLE MODULE TO ANY POINT OF CONNECTION (WATER FLOW SWITCH, TAMPER SWITCH, DUCT DETECTOR, DOOR RELEASE, AHU SHUTDOWN, ETC.) SHALL BE 18AWG / 4 CONDUCTOR NON-SHIELDED PLENUM.

D. ALL WIRING FROM ANY DUCT DETECTOR TO ANY REMOTE TEST SWITCH SHALL BE A NON-SHIELDED PLENUM 18AWG CABLE WITH A MINIMUM OF 6 CONDUCTORS.

E. ALL WIRING FROM THE FIRE ALARM CONTROL PANEL TO ALL NOTIFICATION DEVICES (HORN/STROBES, STROBES) SHALL BE 14AWG / 2 CONDUCTOR NON-SHIELDED PLENUM.

## KEYED NOTES:

1) ALL ROOFTOP EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH THE UNIT ROOF CURB. ROOF PENETRATIONS ARE NOT ACCEPTABLE.

(2) FIRE ALARM CONTROL PANEL TO BE MOUNTED ON TELEPHONE BOARD. REFERENCE DETAIL 2/E-1. CONNECT TO DEDICATED 120 VOLT POWER CIRCUIT.

3 TO HVAC/FAN CONTROLLER FOR SHUTDOWN OF UNIT UPON ACTIVATION OF GENERAL ALARM. CONTROLLER TO BE FURNISHED BY CONTRACTOR. RELAY MODULE TO BE

# LOCATED WITHIN THREE FEET OF CONTROLLER. BURGLAR ALARM SYSTEM (BA):

- A. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST.
- B. <u>SECURITY SYSTEM DEVICES SHOWN FOR REFERENCE ONLY. BURGLAR ALARM</u> SYSTEM VENDOR SHALL FURNISH AND INSTALL BACKBOXES AND RACEWAYS
  WITH PULL STRINGS FOR THE BURGLAR ALARM SYSTEM ONLY. LVW VENDOR
  SHALL FURNISH AND INSTALL ALL SECURITY SYSTEM WIRING. SECURITY SYSTEM
  DEVICES FURNISHED AND INSTALLED BY THE SYSTEM VENDOR.
- C. LVW VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE
- PLENUM RATED TO MEET CODES. D. ALL INTERIOR SECURITY SYSTEM WIRING SHALL BE FOUR CONDUCTOR, #18 AWG SECURITY SYSTEM WIRING UNLESS NOTED OTHERWISE. PROVIDE ALL SECURITY

SYSTEM WIRING WITH WHITE JACKET. GENERAL WIRING NOTES

A. ALL WIRING FROM THE BURGLAR ALARM CONTROL PANEL TO ALL INTERIOR FIELD DEVICES SHALL BE 18AWG / 4 CONDUCTOR PLENUM.

| TRACTOR        | SUPPLY CO  |
|----------------|------------|
| 121 PASEO PLAZ | 'A DRIVE.  |
| TAOS, NM,      | · <b>,</b> |
| 87571          |            |
| DESIGNED BY:   | GE         |
| DRAWN BY:      | TN         |
| CHECKED BY:    | RB         |
| ESTIMATE #:    | 1-5HAQ8EM  |
|                |            |
|                | SD DD AMIN |

MARK DATE INT DESCRIPTION 0 07/21/20 TN FA & BA DESIGN

TRACTOR® THE STUFF YOU

SUPPLY CO NEED OUT HERE

| LOW VOLTAGE WIRING LEGEND                 |
|---|
| EE GENERAL WIRING NOTES FOR EACH SYSTEM** |

| Line Type   | Description                                     | AWG | COND | SHIELD | CLASS |
|-------------|---|-----|------|--------|-------|
| в в         | Fire Alarm System<br>Annunciator Wiring         | 18  | 4    | NO     | FPLP  |
| c c         | Fire Alarm System<br>Remote Test Switch Wiring  | 18  | 6    | NO     | FPLP  |
| D D         | Fire Alarm System<br>Data Loop Wiring           | 18  | 2    | NO     | FPLP  |
| EE          | Fire Alarm System<br>Notification Device Wiring | 14  | 2    | NO     | FPLP  |
| — F — — F — | Device Power Wiring                             | 16  | 4    | NO     | FPLP  |
| A A         | Security System Data loop / Device Wiring       | 18  | 4    | NO     | CMP   |

DEVICE PLACEMENT PLAN FA & BA