

SECTION 1670 - FIRE ALARM SYSTEM

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. CONDITIONS OF THE CONTRACT DRAWINGS, GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATIONS APPLY TO THE WORK OF THIS SECTION.

1.02 SUMMARY

A. PROVIDE ALL REQUIRED LABOR, WARRANTY LABOR, MATERIALS, EQUIPMENT, SYSTEM PROGRAMMING, TESTING, SUBMITTALS AND SERVICES NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM AS HEREINAFTER DESCRIBED, AND AS SHOWN ON THE ENGINEERING DRAWINGS.

B. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- 1. ADDRESSABLE FIRE ALARM CONTROL PANELS
2. DATA CIRCUITS
3. DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT)
4. INITIATION CIRCUITS
5. MONITORING CIRCUITS
6. CONTROL CIRCUITS
7. DETECTION DEVICES
8. MANUAL PULL STATIONS
9. SMOKE DETECTORS

C. PROVIDE A MINIMUM OF ONE (1) HOUR TRAINING FOR STAFF PERSONNEL IN THE OPERATION AND USE OF THE SYSTEM.

D. IT IS INTENDED THAT THE ENGINEERING DRAWINGS AND SPECIFICATIONS SHALL DESCRIBE AND PROVIDE FOR A WORKING SYSTEM THAT IS COMPLETE IN EVERY DETAIL AND ALL ITEMS NECESSARY FOR SUCH COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE ENGINEERING DRAWINGS.

1.03 DEFINITIONS

A. DEFINITIONS REFERENCED IN THESE SPECIFICATIONS ARE AS FOLLOWS:

- 1. A.H.J. AUTHORITY HAVING JURISDICTION
2. DACT FIRE ALARM COMMUNICATOR TRANSMITTER
3. DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER
4. U.L. UNDERWRITERS LABORATORIES, INC.
5. LEAD LIGHT-EMITTING DIODE
6. NICET NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
7. NFPA NATIONAL FIRE PROTECTION ASSOCIATION
8. NFPA FIRE ALARM EQUIPMENT MANUFACTURER
9. NRTL NATIONALLY RECOGNIZED TESTING LABORATORY

1.04 REFERENCES

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

B. IF THERE IS A CONFLICT BETWEEN THE APPLICABLE CODES, REFERENCED DESIGN STANDARDS, OR LOCAL AMENDMENTS AND THIS SPECIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY BRING THE CONFLICT TO THE ENGINEER FOR RESOLUTION.

1.05 SYSTEM DESCRIPTION

A. THE SYSTEM SHALL OPERATE AS A LOW VOLTAGE FIRE ALARM SYSTEM AND SHALL BE A COMPLETE INTELLIGENT ADDRESSABLE SUPERVISORY FIRE ALARM SYSTEM AS HEREINAFTER SPECIFIED. INITIATING DEVICES SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B NOTIFICATION APPLIANCE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B SIGNALING LINE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B CIRCUITS FOR RELAY COIL OPERATION SHALL BE 24 VOLT MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DEVICE.

B. THE CONTROL PANELS SHALL RECEIVE THEIR POWER FROM 120 VOLT AC DEDICATED BRANCH CIRCUITS. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM". THE 24 VOLT DC POWER FOR ALL SYSTEM INITIATING, SUPERVISORY NOTIFICATION AND CONTROL CIRCUITS SHALL BE PROVIDED BY THE FIRE ALARM CONTROL PANEL POWER SUPPLIES.

C. UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY (20) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES.

D. SYSTEM OPERATION SHALL BE AS FOLLOWS:
1. ABNORMAL CIRCUIT CONDITIONS OR DEVICES AS REQUIRED FOR THE CLASS OF THE CIRCUIT SHALL INITIATE A "TROUBLE" CONDITION AT THE CONTROL PANEL THAT SPECIFIC DEVICES, THE "TROUBLE" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION ON THE AFFECTED CIRCUIT OR DEVICE. THE FIRE ALARM SYSTEM SHALL TRANSMIT A GENERAL "TROUBLE" NOTIFICATION TO AN APPROVED REMOTE MONITORING STATION.

2. ACTIVATION OF ANY SUPERVISORY DEVICE AS INDICATED ON THE ENGINEERING DRAWINGS SHALL INITIATE A SUPERVISORY CONDITION AT THE CONTROL PANEL FOR THAT SPECIFIC DEVICE. THE "SUPERVISORY" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION AND SPECIFIC ADDRESS AND ALPHANUMERIC DESCRIPTION OF THE DEVICE AFFECTED. THE FIRE ALARM SYSTEM SHALL TRANSMIT A GENERAL "ALARM" CONDITION TO AN APPROVED REMOTE MONITORING STATION.

3. ACTIVATION OF ANY ALARM DEVICE AS INDICATED ON THE ENGINEERING DRAWINGS SHALL INITIATE AN "ALARM" CONDITION AT THE CONTROL PANEL FOR THAT SPECIFIC DEVICE. THE "ALARM" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION AND SPECIFIC ADDRESS AND ALPHANUMERIC DESCRIPTION OF THE DEVICE AFFECTED. THE FIRE ALARM SYSTEM SHALL TRANSMIT A GENERAL "ALARM" CONDITION TO AN APPROVED REMOTE MONITORING STATION.

4. INITIATION OF AN "ALARM" CONDITION SHALL RESULT IN THE FOLLOWING FUNCTIONS TO BE PERFORMED BY THE SYSTEM:
a. INITIATE AN ALARM INDICATION ON THE CONTROL PANEL BY TONE AND ILLUMINATE THE CORRESPONDING DEVICE SPECIFIC ALPHANUMERIC LCD DISPLAY. MANUALLY ACTIVATING THE "ALARM SILENCE" SHALL SILENCE THE TONE AT THE PANEL. THE ALARM ALPHANUMERIC DISPLAY SHALL REMAIN "ON" AT THE CONTROL PANEL UNTIL THE CONDITION CAUSING THE ALARM HAS BEEN CLEARED AND RESET. AN ADDITIONAL ALARM REPORTED TO THE PANEL, SUBSEQUENT TO ACTIVATING THE "ALARM SILENCE" SHALL REACTIVATE THE CONTROL PANEL TONE.

1.06 QUALITY ASSURANCE

A. ALL WORK SHALL MEET THE REQUIREMENTS OF THE OWNER, ARCHITECT AND AUTHORITY HAVING JURISDICTION (A.H.J.).
B. ALL EQUIPMENT AND COMPONENTS SHALL BE LISTED FOR SUCH USE AS INTENDED USE, UNLESS HEREINAFTER SPECIFICALLY EXCLUDED FROM SUCH LISTING.

C. INSTALLATION AND SUPERVISION OF INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE REGULATIONS, LICENSES AND PERMITS FOR FIRE ALARM SYSTEM INSTALLERS IN THIS JURISDICTION.

D. INSTALLER MUST HAVE BEEN ACTIVELY ENGAGED IN THE BUSINESS OF SELLING, INSTALLING AND SERVICING FIRE ALARM SYSTEMS FOR AT LEAST FIVE (5) YEARS.

E. INSTALLER MUST BE AN AUTHORIZED REPRESENTATIVE OF THE FIRE ALARM EQUIPMENT MANUFACTURER (FABM) AND HAVE TECHNICAL FACTORY TRAINING SPECIFICALLY FOR THE SYSTEM PROPOSED.

F. THE FABM SHALL HAVE A REPRESENTATIVE SUPERVISE THE FINAL CONNECTION OF DEVICES, WIRING AND PROGRAMMING OF THE CONTROL PANELS. THE FABM REPRESENTATIVE SHALL BE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) CERTIFIED AS LEVEL 1 OR HIGHER FIRE ALARM PROTECTION FIRE ALARM SYSTEMS ENGINEERING TECHNICIAN.

G. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON SITE AN UP-TO-DATE RECORD OF ALL INSPECTOR INSPECTION DRAWINGS WHICH SHALL BE MARKED TO SHOW ANY FUNCTION CHANGES MADE TO THE FIRE ALARM SYSTEM FROM THE ORIGINAL APPROVED SHOP DRAWINGS. THIS SHALL BE CONSTRUED AS AUTHORIZATION TO DEVIATE FROM OR MAKE CHANGES TO THE SHOP DRAWINGS REVIEWED BY THE ENGINEER, BUT NOT WRITTEN INSTRUCTIONS FROM THE ENGINEER IN EACH CASE. THIS SET OF DRAWINGS SHALL BE ISSUED ONLY AS A RECORD SET. THESE DRAWINGS SHALL BE MADE AVAILABLE TO THE OWNER, OR THE OWNERS REPRESENTATIVE, UPON REQUEST.

H. THE SYSTEM SHALL PROVIDE A FOUR HUNDRED (400) EVENT HISTORICAL LOG ON COMMAND OF ALL ALARMS SIGNALS, SUPERVISORY SIGNALS, TROUBLE SIGNALS, MONITOR POINT CHANGES-IN-STATE, OPERATOR COMMANDS AND SYSTEM INITIATED CONTROL FUNCTIONS.

I. WHERE POSSIBLE, PROVIDE FLUSH MOUNTING OF PULL STATIONS, SURFACE MOUNTING OF PULL STATIONS WILL BE ALLOWED IF FLUSH MOUNTING IS NOT POSSIBLE OR AS INDICATED ON THE ENGINEERING DRAWINGS.

J. ACCEPTABLE MANUFACTURER IS SILENT KNIGHT SK-FLAME.

K. ACCEPTABLE MANUFACTURER IS SILENT KNIGHT SK-SMOKE.

L. ACCEPTABLE MANUFACTURER IS SILENT KNIGHT SK-6000.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS
A. SILENT KNIGHT SK-6000

2.02 CONTROL PANELS
A. SILENT KNIGHT SK-FLAME

2.03 CONDUCTORS
A. INITIATION, NOTIFICATION AND AUXILIARY DEVICE CIRCUIT CONDUCTORS FOR POWER LIMITED CIRCUITS SHALL BE TYPE FPL, FPLP, OR FLR, WHERE THE SIZE OR TYPE OF CONDUCTOR HEREINAFTER SPECIFIED CONFLICTS WITH THE FABM'S REQUIREMENTS, THE LARGER SIZE OR MORE SPECIALIZED CONDUCTOR TYPE WILL BE USED.

2.04 RACEWAY
A. THE FOLLOWING RACEWAY TYPES SHALL BE PERMITTED:
1. EMT CONDUIT (3/4" INCH MINIMUM)
2. RIGID CONDUIT (3/4" INCH MINIMUM)
3. NON-METALLIC CONDUIT FOR WET LOCATIONS (3/4" INCH MINIMUM)
4. SURFACE MOUNTED METALLIC RACEWAY WITH A MINIMUM SIZE EQUIVALENT TO THREE QUARTER (3/4") INCH NOMINAL CONDUIT.

2.05 RESTORATION OF SITE
A. WHERE SIDEWALKS, CURBS, AND LAWNS ARE EXCAVATED BY THE FIRE ALARM CONTRACTOR, THESE AREAS SHALL BE BACKFILLED AND REPLACED TO THE ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, ARCHITECT AND A.H.J.

2.06 PAINTING AND PATCHING
A. ALL FIRE ALARM CONDUIT SHALL BE THOROUGHLY CLEANED, REMOVING ALL DIRT, OIL, ETC. AND MADE READY TO RECEIVE PAINT.

2.07 HOLES IN WALLS OR CEILING
A. HOLES IN WALLS OR CEILING CREATED BY THE REMOVAL OF FIRE ALARM ARCHITECT, ENGINEER, AND A.H.J. SPECIFIC FIRESTOP ASSEMBLY SHALL BE PATCHED OR COVERED WITH STANDARD ESCUTCHEON PLATES SO AS TO COMPLETELY CONCEAL THE "HOLES" WHERE THEY WOULD OTHERWISE BE EXPOSED TO VIEW.

2.08 PENETRATIONS OF FIRE RATED ASSEMBLIES (WALL OR FLOOR)
A. ALL PENETRATIONS OF FIRE RATED ASSEMBLIES (WALL OR FLOOR) CONSTRUCTION SHALL BE PRESTOPPED TO PRESERVE THE ORIGINAL FIRE RESISTANCE AND INTEGRITY OF THE ASSEMBLY. ALL FIRESTOPPING METHODS SHALL BE LISTED THROUGH PENETRATION FIRESTOP SYSTEMS OR OTHERWISE APPROVED BY THE OWNER, ARCHITECT, ENGINEER, AND A.H.J. SPECIFIC FIRESTOP ASSEMBLY SHALL BE IDENTIFIED AT THE PENETRATION LOCATION WITH A STICKER OR OTHER APPROVED IDENTIFICATION MEANS.

2.09 SYSTEM TESTS
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2.10 ACCEPTABLE MANUFACTURERS
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2.11 ACCEPTABLE MANUFACTURERS
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PART 3 - EXECUTION

3.01 COORDINATION WITH OTHER TRADES
A. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION, ACCURATELY INTERFACE WITH RELATED SYSTEMS AND AVOID INTERFERENCES.

3.02 INSTALLATION APPLICATION
A. FURNISH AND INSTALL ALL CONTROL, WIRING, RACEWAY AND OUTLET BOXES FOR THE FIRE ALARM SYSTEM.

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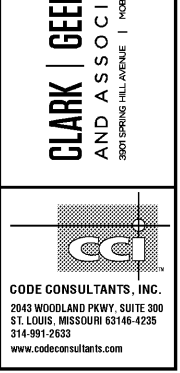


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PROJECT NUMBER: 19109-44
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ISSUE DATE: 06/04/2019
DESCRIPTION:
SHEET TITLE: FIRE ALARM SPECIFICATIONS
SHEET NUMBER: FA-1.3

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