JL Industries, Inc.
4450 W 78th St. Cir.
Bloomington, MN 55435

This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies defibrillator cabinets. These products are manufactured by JL Industries, Inc. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

SECTION 10 43 13
DEFIBRILLATOR CABINETS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Defibrillator cabinets, accessories and their installation.

1.02 RELATED SECTIONS

Specifier Note: Include in this Article only those sections that directly affect the work of this section. Do not include Division 00 or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 and Division 01 sections to some degree.

A. Section [_____].

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Section 01 42 19 - Reference Standards may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section. Retain only those reference standards to be used within the text of this Section. Add and delete as required for specific project.

1.03 REFERENCES

A. American National Standards Institute/National Fire Protection Association (ANSI/NFPA):

1. ANSI/NFPA 10 Portable Fire Extinguishers.

B. Underwriters' Laboratories of Canada (ULC):

1. CAN/ULC S508 Standard for the Rating and Fire Testing of Fire Extinguishers.

C. American Heart Association (AHA):

1. 2005 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.

Specifier Note: Article below includes the submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Section 01 33 00 - Submittal Procedures.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Section [01 33 00 - Submittal Procedures] [_____].

B. Shop Drawings: Submit drawings showing exterior and interior dimensions, defibrillator mounting, corner sections, hinge arrangement and hardware.

C. Product Data: Submit product data, including manufacturer's SPEC-DATA® product sheet, for specified products.

1. Material safety data sheets.

D. Quality Assurance:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical

properties.

2. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
3. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Coordinate paragraph below with Part 3 Field Quality Requirements Article. Retain or delete as applicable.

E. Manufacturer's Field Reports: Manufacturer's field reports specified.

F. Closeout Submittals:

1. Warranty: Submit warranty documents specified.
2. Operation and Maintenance Data: Submit operation and maintenance data for installed products in accordance with Section [01 78 00 - Closeout Submittals] [_____].
   a. Include: Manufacturer's instructions covering maintenance requirements and parts catalog, giving complete list of repair and replacement parts with cuts and identifying numbers.

1.05 QUALITY ASSURANCE

A. Qualifications:

1. Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Section 01 41 00 - Regulatory Requirements. Repetitive statements should be avoided. Current data on building code requirements and product compliance may be obtained from manufacturer technical support specialists.

B. Regulatory Requirements.

Specifier Note: Defibrillator cabinets must also meet the requirements of building codes and zoning bylaws issued by federal, state and local government authorities having jurisdiction. Ensure that project specification section reflects the need to meet these requirements. Edit paragraph below as applicable.

1. [International Building Code (IBC)] [Building Code for the [State] [City] of [_____].

C. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with [Section 01 31 19 - Project Meetings] [_____].

1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with [01 61 00 - Common Product Requirements] [_____].

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery:

1. Deliver materials in manufacturer's original packaging with identification labels intact.

D. Storage and Protection:

1. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

E. Waste Management and Disposal:

Specifier Note: Environment: The disposal of packaging waste into landfill sites demonstrates an inefficient use of natural resources and consumes valuable landfill space. Specifying appropriate packaging and construction waste management and disposal procedures may contribute to points required for LEED® construction project certification.

1. Separate waste materials for [Reuse] [And] [Recycling] [_____] in accordance with [Section 01 74 19 - Construction Waste Management and Disposal] [_____].

Specifier Note: Manufacturer may take back packaging and delivery materials for recycling.

2. Remove from site and dispose of packaging materials at appropriate recycling facilities.
3. Collect and separate for disposal [Paper] [Plastic] [Polystyrene] [Corrugated cardboard] [_____] packaging material [In appropriate onsite bins] [_____] for recycling.

1.07 PROJECT AMBIENT CONDITIONS

A. Installation Location: Assemble and erect components only when temperatures are above [40] [_____] degrees F ([4] [_____] degrees C).

1.08 SEQUENCING

A. Sequence With Other Work: Comply with defibrillator cabinet manufacturer's written recommendations for sequencing construction operations.

Specifier Note: Coordinate article below with Conditions of the Contract and with [01 78 36 - Warranties] [_____].

1.09 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

Specifier Note: Coordinate article below with manufacturer's warranty requirements.

C. Warranty: Commencing on date of acceptance by [Owner] [Architect] [Consultant] [_____].

1.010 MAINTENANCE

A. Include complete maintenance on defibrillator cabinets for 12 months after date of acceptance by [Owner] [Architect] [Consultant] [_____].

B. Regularly and systematically [Weekly] [Semi-Monthly] [Monthly] [_____] examine, clean, adjust cabinets.

C. Use only standard parts from product line of equipment manufacturer.

D. Perform work during regular trade working hours satisfactory to [Owner] [Architect] [Consultant] [_____].

E. Ensure that maintenance personnel register with designated building personnel at time of inspections and maintenance.

1.011 EXTRA MATERIALS

A. Provide maintenance materials in accordance with Section [01 78 00 - Closeout Submittals] [_____].

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Ensure manufacturer has minimum [5] [_____] years experience in manufacturing components similar to or exceeding requirements of project.

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.02 PROPRIETARY PRODUCTS/SYSTEMS

A. Manufacturer: JL Industries, Inc.

1. Contact: 4450 W 78th St. Cir., Bloomington, MN 55435;

2.03 AUTOMATIC EXTERNAL DEFIBRILLATOR (AED) CABINETS

A. Style: [Interior] [Exterior], [Surface-Mounted] [Semi-Recessed] [Recessed] [Freestanding] [_____] for [Thin walls] [[1] [2] [_____] hour fire-rated walls].

B. Cabinet Material:

Specifier Note: Choose one only of the following 5 paragraphs and edit to suit project requirements.

1. Steel with electrostatic [White] [Red] [Black] [_____] impact resistant powder coat finish.
2. Stainless steel with # [4] [6] [7] [8] finish.
3. Aluminum with # [180] [_____] [Clear] [_____] anodized finish.
4. Bronze with lacquered finish.
5. Brass with lacquered finish.

C. Door Style: [Solid] [Full acrylic] with [Vandal resistant] handle, [Lock] and concealed hinges.

Specifier Note: For ADA code applications, choose cabinets with trim of either 1.5 or 3 inches (38 or 76 mm).

D. Trim Style: [Surface mounted] [Trimless] [Flat trim] [[1.5] [3] [_____] inches ([38] [76] [_____] mm return trim].

1. Frame and Door: [1.75] [_____] inches ([44.44] [_____] mm).

E. Tub: [Aluminum mill finish] [Rolled edge stainless steel # [4] [_____] finish] [Steel with impact resistant [Red] [Black] [_____] epoxy coating] [Bronze with lacquered finish] [Brass with lacquered finish] [_____].

Specifier Note: Choose the FIRE-FX option for installations in fire-rated walls. Check with manufacturer for availability of freestanding defibrillator cabinets.

F. Acceptable Materials: JL Industries, Inc., Lifestart 1400 Series [With FIRE-FX].

2.04 ACCESSORIES

A. Vandal Resistant Handle: Cam style locking device.

1. Acceptable Material: JL Industries, Inc., SAF-T-LOK.

B. Cabinet Seal:

1. Acceptable Material: JL Industries, Inc., SAF-T-CLASP.

C. Alarm: Ensure 85 dB horn sounds [For 2 minutes minimum] when door is opened [And stops when door closes] [And with flashing strobe light].

1. Keyed Alarm: On/Off.

2. Horn Power: 9 Volt DC battery [With low power indicator].

Specifier Note: For louder 90 dB alarm, choose the Brigadier model. Brigadier is not available with a flashing strobe light.

3. Acceptable Material: JL Industries, Inc., model [Commander Alarm] [Siren Strobe Alarm] [Brigadier Alarm] [_____].

D. Defibrillator:

1. Acceptable Material: Medtronic ERS, Model [Lifepak CR Plus] [_____].

2.05 IDENTIFICATION

Specifier Note: Although the standards referenced for graphical identification displays are intended for fire extinguisher cabinets, the same quality of graphic display should be used for defibrillator cabinets. Silk screen print on inside of acrylic is JL Industries standard.

A. Identify defibrillator cabinets in accordance with [ANSI/NFPA 10] [CAN/ULC-S508] [_____] using [Silk screen print on inside of acrylic] [Decals] [Die cut lettering] [_____].

1. Acceptable Material: JL Industries, Inc., Defibrillator Cabinet Identification.

2.06 SOURCE QUALITY CONTROL

A. Ensure defibrillator cabinet components and materials are from single manufacturer.

Specifier Note: Edit paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Section 01 25 13 - Product Substitution Procedures.

2.07 PRODUCT SUBSTITUTIONS

A. Substitutions: [In accordance with Section 01 25 13 - Product Substitution Procedures] [_____]] [No substitutions permitted].

PART 3 EXECUTION

3.01 INSTALLERS

A. Provide experienced and qualified technicians to carry out erection, assembly and installation of defibrillator cabinets.

3.02 MANUFACTURER'S INSTRUCTIONS

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

A. Compliance: Comply with manufacturer's written data, including product technical bulletins, product catalog installation instructions, product carton installation instructions and JL Industries, Inc., SPEC-DATA sheets.

3.03 EXAMINATION

A. Site Verification of Conditions:

1. Verify that substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer's instructions prior to installation of defibrillator cabinets.

2. Inform [Owner] [Architect] [Consultant] [_____] of unacceptable conditions immediately upon discovery.

3. Proceed with installation only after unacceptable conditions have been remedied.

3.04 PREPARATION

A. Ensure surfaces are clean and free of dirt and other foreign matter harmful to performance of defibrillator cabinet materials.

3.05 INSTALLATION

Specifier Note: Coordinate installation with the manufacturer's written installation details and instructions.

A. Install defibrillator cabinets as indicated.

B. Arrangement of Equipment: Arrange equipment so that removal for repairs or replacement does not require undue dismantling or removing of other equipment components.

C. Coordinate defibrillator cabinet work with work of other trades for proper time and sequence to avoid construction delays.

3.06 ADJUSTMENT

A. Adjust defibrillator cabinet doors to achieve smooth operation.

3.07 FINAL CLEANING

A. Do cleanup in accordance with Section [01 74 00 - Cleaning and Waste Management] [_____].

B. Upon completion, remove surplus and excess materials, rubbish, tools and equipment.

3.08 DEMONSTRATION

A. Instruct [Owner's] [_____] designated maintenance personnel in care, adjustment and operation of defibrillator cabinets.

Specifier Note: Use the following Article only when specifically required by project.

B. If required, provide competent instructor for not less than [1] 4-hour training session after completion and acceptance of work.

C. Forward statement to [Owner] [Architect] [Consultant] [_____] countersigned by maintenance personnel confirming that these instructions have been provided.

3.09 PROTECTION

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

A. Protect installed products from damage during construction in accordance with Section [01 76 00 - Protecting Installed Construction] [_____].

END OF SECTION