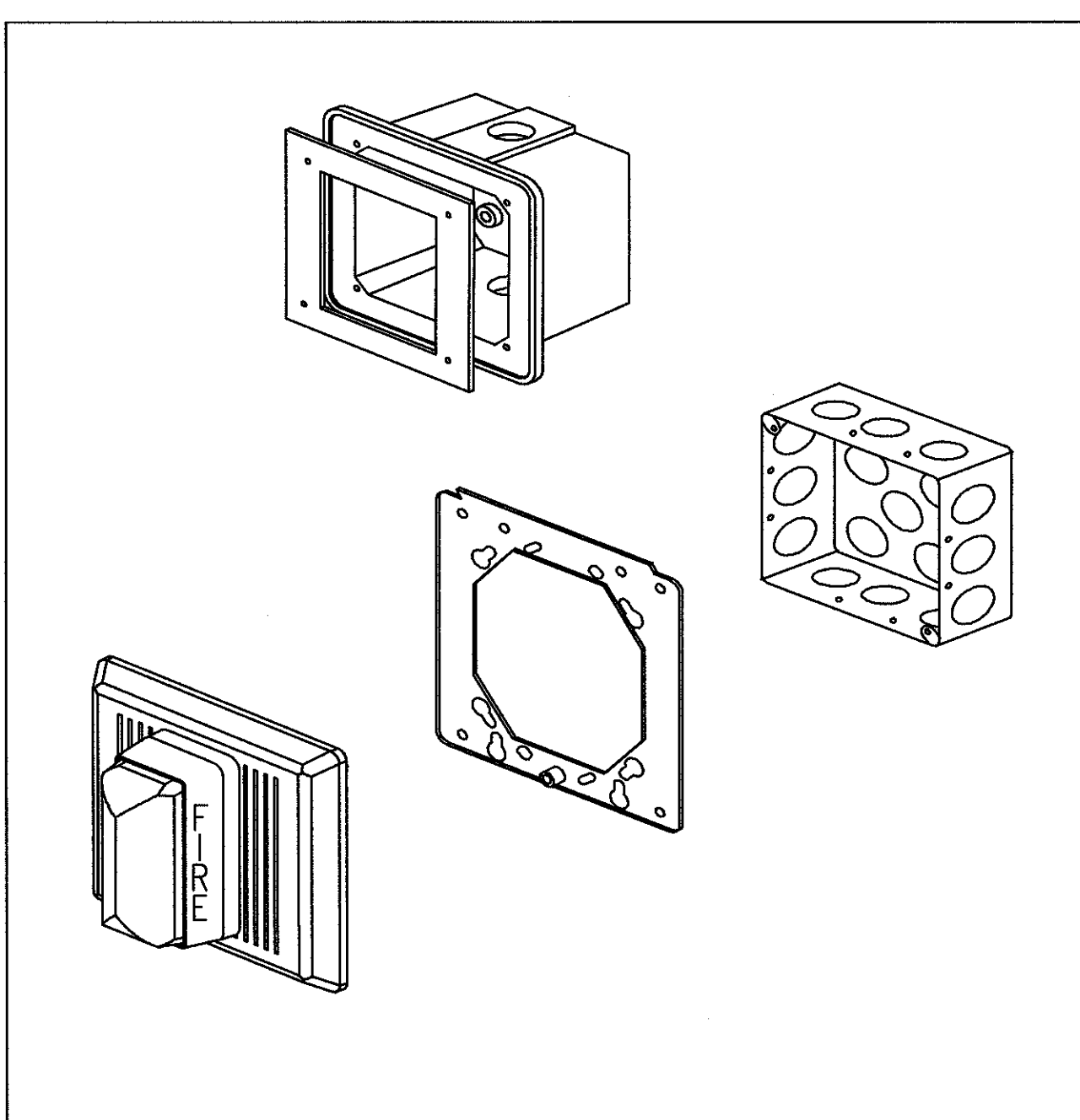


LEGEND

FIRE ALARM

- | | |
|----------------|--|
| F | FIRE ALARM PULL STATION. MOUNTED 48" AFF TO CENTERLINE OF STATION. |
| 15
F | AUDIO/VISUAL ALARM. COMBINATION SPEAKER WITH ADJUSTABLE CANDELA STROBE LIGHT. WALL MOUNTED 90" AFF TO TOP. CEILING MOUNT WHERE INDICATED. NUMBER INDICATES CANDELA RATING OF STROBE. 'WP' INDICATES WEATHERPROOF UNIT. |
| 15
F | VISUAL ALARM. ADJUSTABLE CANDELA STROBE LIGHT. WALL MOUNTED 90" AFF TO TOP. CEILING MOUNT WHERE INDICATED. NUMBER INDICATES CANDELA RATING OF STROBE. REFER TO SPECIAL REQUIREMENTS IN SLEEPING AREAS. NS INDICATES NON-SUPERVISED 120 VOLT REMOTE VISUAL SIGNAL, 177 CANDELA, CONNECTED TO NON-SUPERVISED SMOKE DETECTOR. |
| SFS | SPRINKLER FLOW SWITCH |
| STS | SPRINKLER TAMPER SWITCH |
| MM | MONITOR MODULE |
| S | SMOKE DETECTOR |
| DH | DOOR HOLDER |
| D _S | DUCT SMOKE DETECTOR |
| R | 'S' INDICATES LOCATED IN SUPPLY PLENUM
'R' INDICATES LOCATED IN RETURN PLENUM |
| T | TEST STATION FOR DUCT SMOKE DETECTOR |



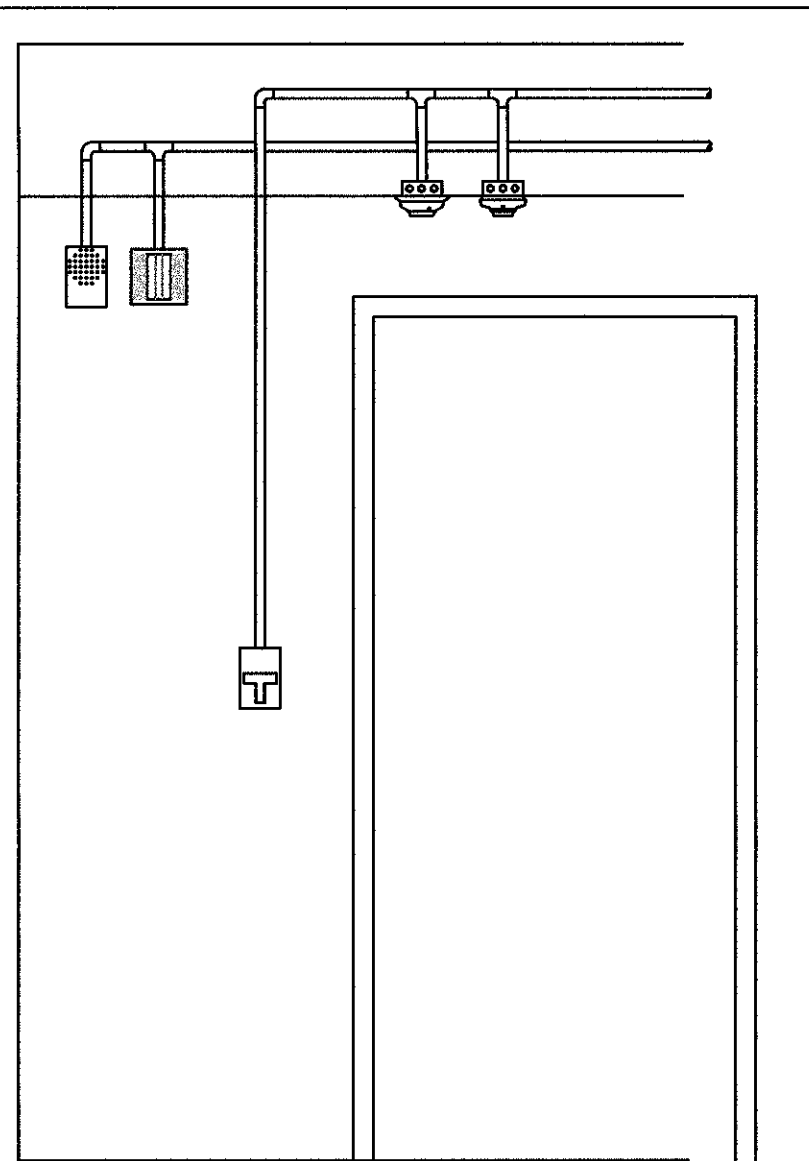
D2 HORN / STROBE MOUNTING DETAIL
NOT TO SCALE

MANUAL PULL STATIONS
SHALL BE MOUNTED AT
48" A.F.F. PER ADA.

PROVIDE JUNCTION BOX (SIZE AS NEEDED FOR DEVICE) AND EMT CONDUIT (3/4" MINIMUM) BETWEEN DEVICES AND BACK TO FIRE ALARM CONTROL PANEL.

WALL MOUNTED
NOTIFICATION APPLIANCES
SHALL BE MOUNTED
BETWEEN 80" AND 96"
A.F.F. PER NFPA 72

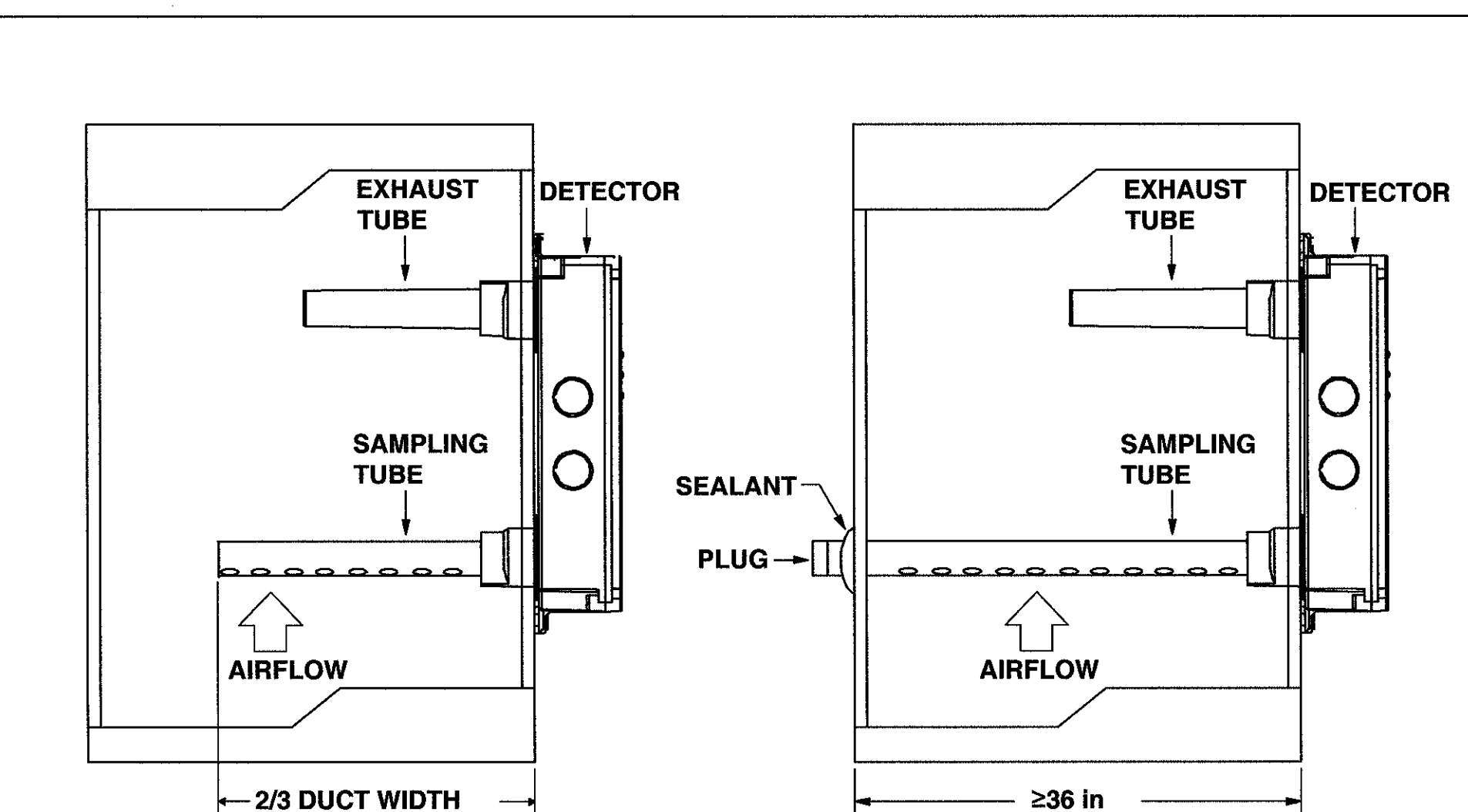
CEILING MOUNTED SMOKE
AND HEAT DETECTORS
SHALL BE INSTALLED IN A
CEILING MOUNTED
JUNCTION BOX (SIZE AS
NEEDED FOR DEVICE) AND
SHALL BE LOCATED NO
CLOSER THAN 4" TO ANY
WALL.



F2 FIRE ALARM DEVICE MOUNTING DETAIL
NOT TO SCALE

ABBREVIATIONS

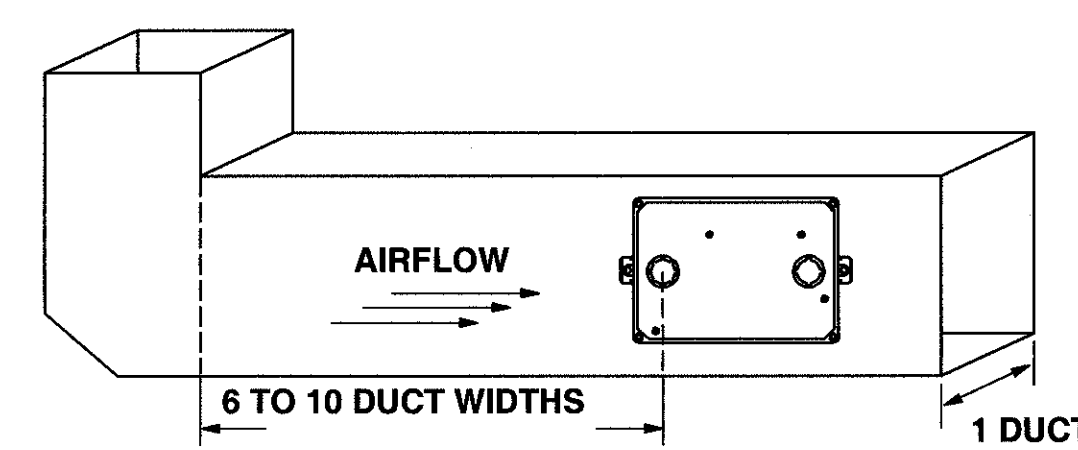
- | | | | |
|--------|--------------------------------------|-------|--|
| A | AMP | MIC | MICROWAVE OR MICROPHONE |
| AC | ALTERNATING CURRENT | NC | NORMALLY CLOSED OR NURSE CALL |
| ADA | AMERICANS WITH DISABILITIES ACT | NEC | NATIONAL ELECTRICAL CODE |
| AFF | ABOVE FINISHED FLOOR | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| AFG | ABOVE FINISHED GRADE | NO | NORMALLY OPEN |
| AWG | AMERICAN WIRE GAUGE | NO. | NUMBER |
| BLDG | BUILDING | PA | PUBLIC ADDRESS |
| C | CONDUIT | PB | PUSH BUTTON |
| cd | CANDELA RATING | PNL | PANEL |
| CLG | CEILING | PVC | POLYVINYL CHLORIDE |
| CH | CHANNEL | REF | REFRIGERATOR |
| CKT | CIRCUIT | RSC | RIGID STEEL CONDUIT |
| CL | CENTERLINE | RTU | ROOF TOP UNIT |
| CMU | CONCRETE MASONRY UNIT | SF | SUPPLY FAN |
| CONC | CONCRETE | SS | SOLID STATE |
| CONT'D | CONTINUED | SWBD1 | SWITCHBOARD, NUMBER AS INDICATED |
| COR | CONTRACTING OFFICER'S REPRESENTATIVE | TYP | TYPICAL |
| CU | COPPER | TV | TELEVISION |
| CUH | CABINET UNIT HEATER | UG | UNDERGROUND |
| DC | DIRECT CURRENT | UL | UNDERWRITERS LABORATORIES |
| DW | DISH WASHER | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| EC | ELECTRICAL CONTRACTOR | V | VOLT |
| EF | EXHAUST FAN | VA | DEPARTMENT OF VETERAN AFFAIRS |
| EGC | EQUIPMENT GROUNDING CONDUCTOR | VA | VOLT-AMPERE |
| EOL | END OF LINE | VAMC | VA MEDICAL CENTER |
| EUH | ELECTRIC UNIT HEATER | VOIP | VOICE OVER INTERNET PROTOCOL |
| EWC | ELECTRIC WATER COOLER | W | WATT |
| FACP | FIRE ALARM CONTROL PANEL | W/ | WITH |
| GD | GARBAGE DISPOSAL | WP | WEATHERPROOF |
| GEC | GROUNDING ELECTRODE CONDUCTOR | WRG | WIRING |
| GFI | GROUND FAULT INTERRUPTER | XFMR | TRANSFORMER |
| GND | GROUND | XP | EXPLOSION-PROOF |
| HP | HORSEPOWER | (R) | LOCATION OF RELOCATED DEVICE OR EQUIPMENT |
| HZ | HERTZ | (RR) | REMOVE AND RELOCATE EXISTING DEVICE OR EQUIPMENT |
| JB | JUNCTION BOX | (RX) | REMOVE EXISTING DEVICE OR EQUIPMENT |
| KCMIL | THOUSAND CIRCULAR MIL | (X) | EXISTING DEVICE OR EQUIPMENT TO REMAIN |
| KV | THOUSAND VOLTS (KILOVOLT) | (XR) | EXISTING DEVICE OR EQUIPMENT TO BE REMOVED AND REPLACED AT SAME LOCATION |
| KVA | THOUSAND VOLTS-AMPS | | |
| KW | THOUSAND WATTS (KILOWATT) | | |
| LED | LIGHT EMITTING DIODE | | |
| LTG | LIGHTING | | |
| MCC | MOTOR CONTROL CENTER | | |
| MCCB | MOLDED CASE CIRCUIT BREAKER | | |
| MCB | MAIN CIRCUIT BREAKER | | |
| MH | MANHOLE | | |



DUCT SMOKE DETECTORS SHALL BE MOUNTED SO THAT THE SAMPLE TUBE IS POSITIONED 6 TO 10 DUCT-WIDTHS FROM ANY BEND OR OBSTRUCTION.

SAMPLING TUBE SHALL EXTEND NO LESS THAN TWO-THIRDS OF THE WAY INTO THE DUCT, AND SHALL BE SUPPORTED ON BOTH ENDS IN DUCTS WITH A WIDTH GREATER THAN 36 INCHES.

PROVIDE EMT CONDUIT (3/4" MINIMUM)
BACK TO FIRE ALARM CONTROL
PANEL.










F5 DUCT SMOKE DETECTOR INSTALLATION DETAIL
NOT TO SCALE

GENERAL NOTES

- B. NOT ALL SYMBOLS INDICATED IN THE LEGEND, OR LISTED ABBREVIATIONS, APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- C. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE AND/OR SMOKE RATING FOR THE SEPARATION. REFER TO SPECIFICATIONS.
- D. ALL CONDUITS, ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- E. PROVIDE WIRE MARKERS TO IDENTIFY CABLES FOR ALL SYSTEMS AT THE ORIGIN, PULL BOXES, AND TERMINATION POINTS. LABELS SHALL BE SELF ADHESIVE OR HEAT SHRINK TYPE. REFER TO SPECIFICATIONS.
- F. SOME WORK UNDER THIS CONTRACT WILL REQUIRE WORK DUTIES TO BE PERFORMED AFTER NORMAL WORKING HOURS. DETERMINATION OF SPECIFIC WORK DUTIES TO BE PERFORMED AFTER HOURS MUST BE MADE BY VA STAFF AT THEIR CONVENIENCE. POSSIBLE WORK REQUIRING AFTER HOURS APPROVAL INCLUDES: POWER OUTAGES AND DISRUPTION OF SERVICES, EXTREME NOISE AND/OR VIBRATION, CUTTING AND PATCHING OF CONCRETE, AND DELIVERIES OF EQUIPMENT.
- G. CARE SHOULD BE TAKEN BY ALL CONTRACTORS TO AVOID DAMAGING OR DISTURBING EXISTING CONSTRUCTION AND FINISHES. CONTRACTORS SHALL BE RESPONSIBLE FOR MAKING ANY REPAIRS NECESSARY TO RECTIFY DAMAGE AND RESTORE EXISTING CONSTRUCTION AND FINISHES TO UNDAMAGED STATE UPON COMPLETION OF WORK AT NO EXPENSE TO THE VA. REPAIR OR REPLACE AND REFINISH, TO THE SATISFACTION OF THE VA, ANY CEILING, FLOOR, OR WALL SURFACES OR STRUCTURES THAT MAY BE DAMAGED IN THE PROCESS OF WORK.
- H. REFER TO SHEET FA001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- I. PROVIDE NEW FIRE ALARM SYSTEM AS INDICATED, REFER TO FLOOR PLAN FOR LOCATIONS OF DEVICES, REFER TO FIRE ALARM MATRIX SUMMARY FOR ADDITIONAL INFORMATION.
- J. PROVIDE SUFFICIENT COMMUNICATION LOOP CIRCUITS TO SERVE MAXIMUM NUMBER OF ADDRESSES RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER PLAN AN ADDITIONAL 50%.
- K. REFER TO FIRE ALARM PLANS FOR LOCATIONS.
- L. NOT ALL SYMBOLS INDICATED IN THE LEGEND, OR LISTED ABBREVIATIONS, APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- M. DASHED SYMBOLS INDICATE ITEMS THAT ARE BEING COMPLETELY REMOVED.
- N. ALL DEMOLITION WORK SHALL COMPLY WITH MEDICAL CENTER REQUIREMENTS AND PROCEDURES.
- O. UNLESS NOTED, OR OTHERWISE SHOWN OR SPECIFIED, ALL MATERIALS AND EQUIPMENT REMOVED OR DEMOLISHED (EXCEPT THAT WHICH IS TO BE SALVAGED OR RELOCATED) AS DIRECTED BY DRAWINGS AND SPECIFICATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.

LIFE SAFETY LINE TYPES

- | | |
|---|--|
|  | FIRE RESISTANT RATED LINE, 1 HOUR |
|  | FIRE RESISTANT RATED LINE, 2 HOUR |
|  | FIRE-RATED, SMOKE BARRIER LINE, 1 HOUR |
|  | FIRE-RATED, SMOKE BARRIER LINE, 2 HOUR |
|  | FIRE-RATED, SMOKE BARRIER LINE, 30 MIN |
|  | NON-RATED, SMOKE BARRIER LINE, (SMOKE RESISTIVE) |
|  | NON-RATED SMOKE RESISTIVE |

NOTE: ALL SYMBOLS MAY NOT BE USED

FULLY SPRINKLERED
BID DOCUMENTS
FOR CONSTRUCTION

VA WESTERN NEW YORK HEALTHCARE SYSTEM
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BUFFALO, NEW YORK 14215

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MANAGER
INFECTION CONTROL
SAFETY OFFICER

DATE	ENGINEER
DATE	MANAGER
DATE	CHIEF OF

Drawing Title	FIRE ALARM LEGEND, GENERAL NOTES, AND ABBREVIATIONS
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MEDICAL CENTER DIRECTOR	DATE
ASSOCIATE MEDICAL CENTER DIRECTOR	DATE

Project Title	BUFFALO GU AHU
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Building Number 1	Checked WLM	Drawn MMF
Location V.A.M.C. BUFFALO, NEW YORK		

Date	09-07-2017
Station No.	

17-S06-FA001



Office of Facilities

Department of Veterans Affairs