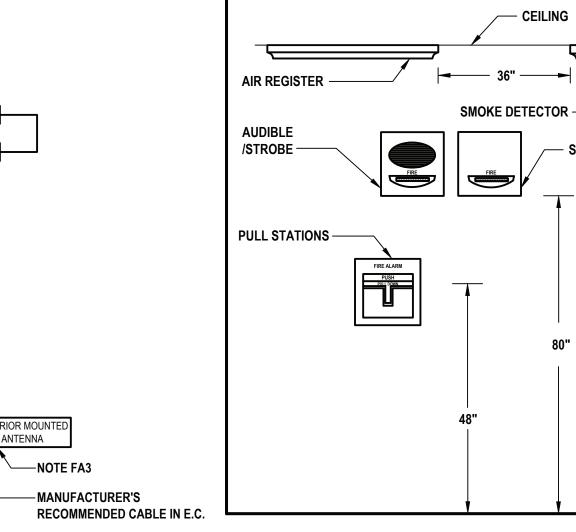


1 Fire Alarm Sequence of Operation
SCALE: NOT TO SCALE

### LIST OF DRAWINGS FA-001.00 FIRE ALARM LEGEND FA-100.00 FIRST FLOOR & MEZZANINE FIRE ALARM PLANS



3 Typical Fire Alarm Device Location
SCALE: NTS

TYPICAL DEVICE LOCATIONS

120VAC — 1D WATER MAIN PIPE GROUND	6820 • F.A.C.P.	INTELLINET 2.0 FIRE SUBSCRIBER  NOTE FA2  MANUFACTURER'S RECOMMENDED CABLE	EXTERIO	
Fire Alarm Riser Diagram (Note FA4)  SCALE: NTS				
WIRE LEGEND				

WIRE DESCRIPTION

1 PAIR TWISTED SHIELDED #18

1 PAIR #14 AWG. NON SHIELDED

#14 AWG. NON SHIELDED

D #12 AWG. NON SHIELDED

TYPE

**FPLP** 

NOTES

THHN NOTE FA1

AS SHOWN ON DRAWINGS

SYMBOL	DESCRIPTION	COMMENTS
FACP	FIRE ALARM CONTROL PANEL.	
RA	REMOTE ANNUNCIATOR WITH BACKBOX.	
<u>(S)</u>	SMOKE DETECTOR.	
RAL (S)	ABOVE CEILING SMOKE DETECTOR WITH REMOTE ALARM LAMP.	
RAL D R1	DUCT DETECTOR WITH REMOTE ALARM LAMP; "S" DENOTES SUPPLY, "R" DENOTES RETURN.	
<b>(</b>	HEAT DETECTOR.	
$igorplus_{F}$	HEAT DETECTOR 200°.	
<b>△</b> co	CARBON MONOXIDE DETECTOR	
ă	HORN/STROBE COMBO.	
<b>▼</b>	SPEAKER/STROBE COMBINATION	
₩P	WEATHER PROOF HORN/STORBE COMBO WITH BACKBOX.	
АМ	ADAPTER MODULE WITH MOUNTING PLATE.	
SH	SMOKE HATCH (F.B.O.).	
茶	STROBE.	
DH	MAGNETIC DOOR HOLDER.	
F	MANUAL PULL STATION WITH BACKBOX.	
R	RELAY.	
IAM	INDIVIDUAL ADDRESSABLE MODULE.	
AES	AUTOMATIC EXTINGUISHING SYSTEM.	
$\boxtimes$	MOTOR STARTER.	
'n	END OF LINE RESISTOR.	
ВТ	BEAM DETECTOR TRANSMITTER.	
BR	BEAM DETECTOR RECEIVER.	
SP	SURGE PROTECTOR.	
8	BELL/STROBE.	
ER(S)	SMOKE DETECTOR FOR ELEVATOR RECALL.	
SRP	SUPPRESSION RELEASING PANEL.	
MS	MAINTENANCE SWITCH.	
SOL	SOLENOID (F.B.O.).	
PS	PRESSURE SWITCH.	
TS	TAMPER SWITCH	
FS	FLOW SWITCH	
CS	COIL SUPERVISORY (F.B.O.).	
CL	AIR COMPRESSOR, LOW PRESSURE (F.B.O.).	
СН	AIR COMPRESSOR, HIGH PRESSURE (F.B.O.).	
CM CM	CONTROL MODULE	
MOB STAGE 2	STAGE 2 BELL.	

FIRE ALARM LEGEND

#### FIRE ALARM RISER NOTES:

- FA1. PROVIDE ALL 120 VOLT CIRCUITS IN CONDUIT.
- FA2. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW INTELLINET 2.0 FIRE SUBSCRIBER INCLUDING ONBOARD INTELLIPRO CARD (AES CORPORATION MODEL NUMBER: 7707P-88-ULP OR APPROVED EQUAL). CONTRACTOR SHALL PROVIDE AND INSTALL FIRE SUBSCRIBER ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL AS REQUIRED TO SEND UNIQUE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO THE FIRE DISTRICT'S CENTRAL STATION MONITORING SERVICE UPON ACTIVATION OF FIRE ALARM SYSTEM. FIRE SUBSCRIBER SHALL BE PROGRAMMED TO SEND UNIQUE SIGNALS TO THE CENTRAL STATION INDICATING ACTIVATION OF CARBON MONOXIDE DETECTORS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, CONDUIT AND ACCESSORIES AS REQUIRED TO INTERCONNECT THE FIRE SUBSCRIBER WITH THE NEW FIRE ALARM CONTROL PANEL, INCLUDING LINE VOLTAGE WIRING. FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH A DIALER WHICH IS COMPATIBLE WITH THE FIRE SUBSCRIBER.
- FA3. CONTRACTOR SHALL PROVIDE AND INSTALL A WEATHERPROOF ANTENNA COMPATIBLE WITH THE FIRE SUBSCRIBER ON THE EXTERIOR OF THE BUILDING SIZED AS REQUIRED TO COMMUNICATE WITH THE DISTRICT'S CENTRAL STATION VIA THE LONG RANGE WIRELESS NETWORK IN THE AREA. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES REQUIRED. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING AND CONDUIT BETWEEN THE ANTENNA AND THE FIRE SUBSCRIBER AS REQUIRED.
- FA4. FIRE ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES AND

#### **GENERAL FIRE ALARM NOTES:**

- 1. ALL WIRING TO BE PROVIDED AND INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE OR AS DICTATED BY CONTRACT SPECIFICATIONS, AND THE LATEST EDITION OF N.F.P.A 72 REQUIRED BY LOCAL ORDINANCE.
- 2. ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.
- 3. GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE No. 12 A.W.G.
- 4. ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.
- 5. FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS
- REQUIREMENTS. 6. REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS. DRAWINGS
- REPRESENT DEVICE QUANTITIES. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING SCALED LOCATIONS. CONTRACTOR TO SUBMIT PLANS STAMPED BY LICENSED NEW YORK PROFESSIONAL ENGINEER ONLY. SHOP DRAWINGS WITHOUT P.E STAMP WILL BE AUTOMATICALLY REJECTED.
- 7. ALL HVAC EQUIPMENT WITH A CFM RATING OF 1000 CFM OR GREATER SHALL BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION.
- 8. PLENUM WIRING TO BE USED IN ALL AREAS. CONDUIT MUST BE USED IN ALL AREAS.
- 9. PROVIDE AND INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS.
- 10. WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE

A. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN. B. THE CABLE SHIELD MUST BE ISOLATED FROM **GROUND AND TERMINATED ONLY IN THE** ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM

- 11. ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED. ALL ALARM INDICATING APPLIANCES SHALL SOUND A 'TEMPORAL 3' CODE PATTERN FOR SMOKE ALARM. EACH CO DETECTOR SOUNDER BASE SHALL SOUND A 'TEMPORAL 4' CODE PATTERN WHEN THAT SPECIFIC DETECTOR IS IN ALARM.
- 12. AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM RESET. PROVIDE ALL REQUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND CONTROL WIRING AND CONDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM INDICATION.
- 13. INSTALL ALL DEVICES IN ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED AS FOLLOWS:
  - A. MANUAL PULL STATIONS 48" O.C. TO HANDLE
  - B. ALARM INDICATING APPLIANCE 80" A.F.F. C. - VERIFY WITH CONTRACT SPECIFICATIONS FOR ANY DEVIATIONS.
- 14. ALL STROBES SHALL BE WIRED TO REMAIN ACTIVE AFTER HORNS ARE SILENCED. STROBES SHALL REMAIN ACTIVE UNTIL ALARM IS RESOLVED.
- 15. PROVIDE AND INSTALL ALL NECESSARY CONTROL MODULES, SYNCHRONIZATION

MODULES AND MONITOR MODULES AS REQUIRED BY MANUFACTURER.

- 16. COORDINATE EXACT LOCATION OF REMOTE ANNUNCIATOR AND F.A.C.P. WITH LOCAL FIRE MARSHALL AND OWNER.
- **EXTRA MATERIALS:**

EM1. REFER TO SECTION 283100 - FIRE DETECTION AND ALARM, SUB-SECTION "EXTRA MATERIALS":

- A. PROVIDE TWO (2) OF EACH TYPE OF MULTI-CRITERIA DETECTOR. B. PROVIDE TWO (2) OF EACH TYPE OF NOTIFICATION APPLIANCE.
- PROVIDE TWO (2) OF EACH TYPE OF PULL STATION.
- D. PROVIDE TWO (2) ADDRESSABLE CONTROL MODULES.

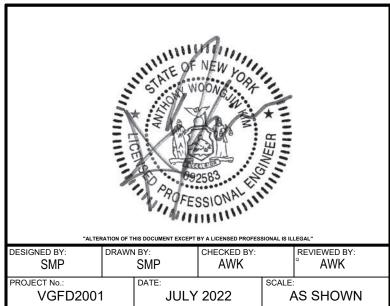
**DUPLICATED FOR CLARIFICATION PURPOSES.** 

DEVICES LISTED ARE NOT IN ADDITION TO THE DEVICES LISTED IN THE SPECIFICATIONS. LIST IS

538 Broad Hollow Road, 4th Floor East Melville, NY 11747 631.756.8000 • www.h2m.com

CONSULTANTS:			

MARK	DATE	DESCRIPTION



## **VAILS GATE FIRE DISTRICT**

New Storage Building (Phase I) New Fire Station (Phase II)



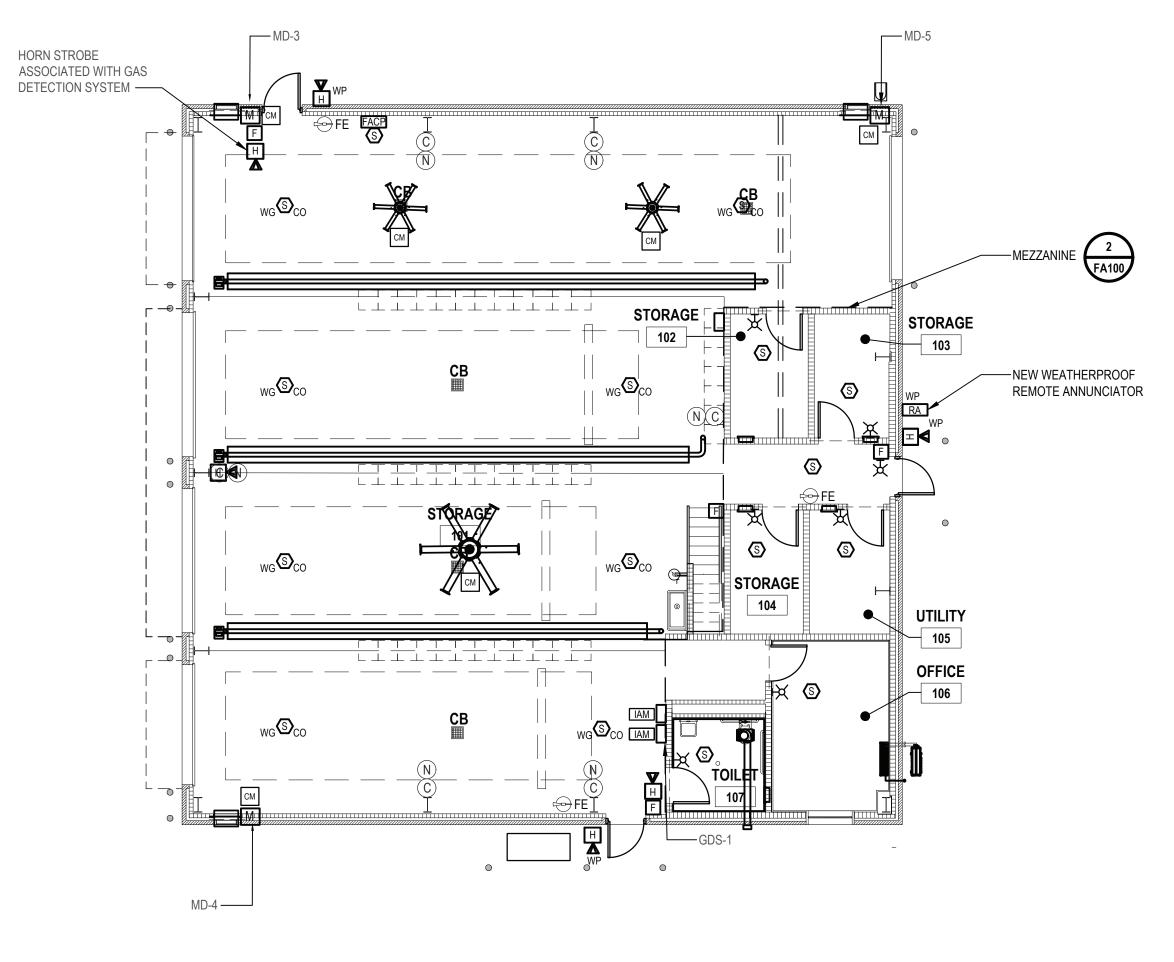
**872 Blooming Grove Turnpike** New Windsor, NY 12553

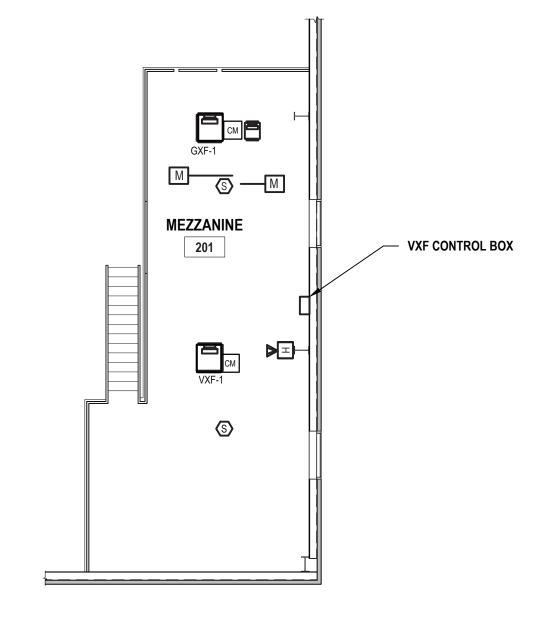
**CONTRACT G GENERAL CONSTRUCTION** 

FINAL BID DOCUMENT

FIRE ALARM LEGEND PHASE 1

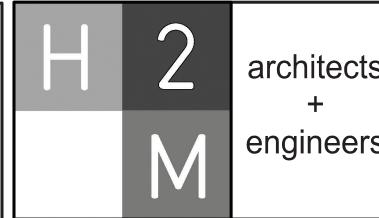
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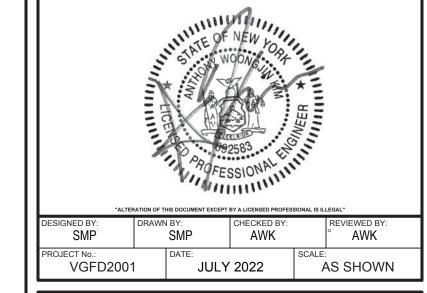




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MARK	DATE	DESCRIPTION



# VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)

New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

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FIRST FLOOR & MEZZANINE FIRE ALARM PLANS PHASE 1

VING No.

FA1 100.00