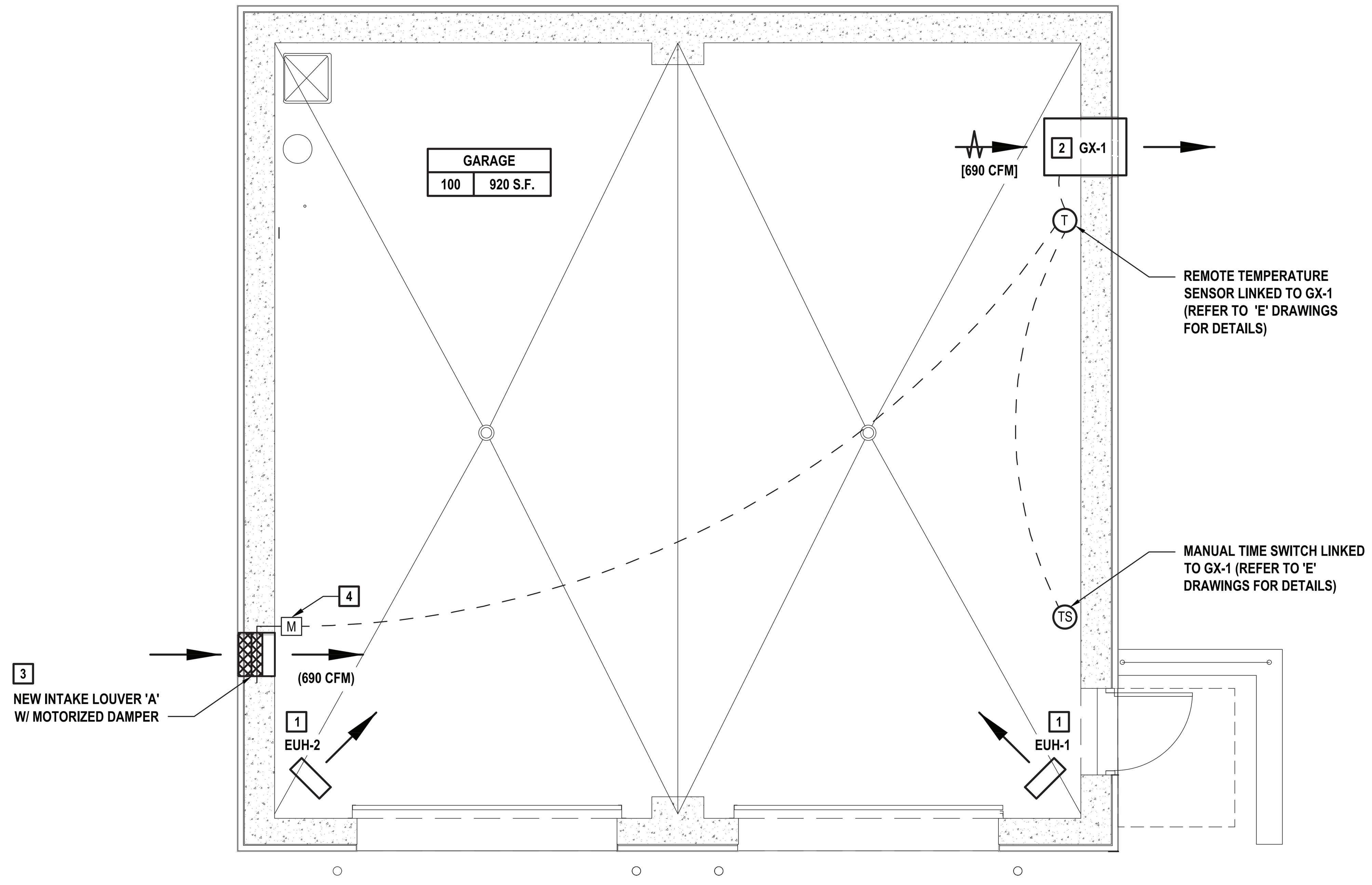


1 **Facilities Storage Building Plan**
SCALE: 1/4"=1'-0"

UNIT HEATERS

EQUIPMENT NO.	LOCATION	AREA SERVED	FAN DATA: FLOW (CFM)	FAN DATA: HP	FAN DATA: VOLTS/ PHASE	TOTAL CAPACITY (MBH)	AIR DATA: TEMP. CHANGE (DEG. F)	AIR DATA: THROW (FT.)	HEATING COIL DATA / ELECTRIC DATA: VOLTS/ PHASE	HEATING COIL DATA / ELECTRIC DATA: TOTAL KW	HEATING COIL DATA / ELECTRIC DATA: AMPS	BASIS OF DESIGN INFORMATION: MNF	BASIS OF DESIGN INFORMATION: MODEL NO.	BASIS OF DESIGN INFORMATION: NOMINAL DIMENSIONS L x W x H	BASIS OF DESIGN INFORMATION: NOMINAL OPERATING WEIGHT (LBS.)	REMARKS
EUH-1, 2	SEE PLANS	STORAGE AREA	650	1/30	208/1	25.6	37	18	208/1	7.5	36	QMARK	MUH-07-8	19 x 7.5 x 21.75	38	1-4

NOTES:
1. PROVIDE AND INSTALL MANUFACTURER SPECIFIED MOUNTING BRACKET
2. SINGLE POLE INTERNAL THERMOSTAT ACCESSORY (UHMT1)
3. 3-POLE POWER DISCONNECT SWITCH (MPDS60)
4. OUTLET MESH (BIRD SCREEN)

FANS

EQUIPMENT NO.	LOCATION	SYSTEM SERVED	PERFORMANCE/CONSTRUCTION REQUIREMENTS: CFM	PERFORMANCE/CONSTRUCTION REQUIREMENTS: EXT S. P. (IN. W.C.)	PERFORMANCE/CONSTRUCTION REQUIREMENTS: FAN/MOTOR RPM	PERFORMANCE/CONSTRUCTION REQUIREMENTS: BHP	BASIS OF DESIGN INFORMATION: MNF	BASIS OF DESIGN INFORMATION: MODEL NO.	BASIS OF DESIGN INFORMATION: NOMINAL DIMENSIONL x W. x H	BASIS OF DESIGN INFORMATION: NOMINAL OPERATING WEIGHT (LBS.)	ELECTRICAL DATA: VOLTS/PHASE	ELECTRICAL DATA: MOTOR HP	REMARKS
GX-1	SEE PLANS	STORAGE AREA	690	0.3	776	0.18	GREENHECK	SBE-1H20-4	38 x 26.25 x 26.25	152	115/1	1/4	1-4

NOTES:
1. LONG WALL HOUSING WITH OSHA GUARD
2. NEMA 3R POWERED DISCONNECT SWITCH
6. DAMPER MOUNTED WD-320-PB-22X22
7. SINGLE POINT POWER CONNECTION
8. DAMPER ACTUATOR (MP-310)

AIR OUTLETS

DESIGNATION	TYPE	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL NO.	NOM. DIMENSIONS	FREE AREA (%)	VOLUME (CFM)	FREE AREA VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)	REMARKS
A	INTAKE LOUVER	GREENHECK	ESD-635HP	20 x 20 x 6	42.5	690	566	0.05	1-3

NOTES:
1. (20x20) VCD-23 LOW LEAKAGE 3V BLADE VOLUME CONTROL DAMPER
2. HONEYWELL MS4103F1225 ACTUATOR
3. GREENHECK POC RETAINING ANGLE

GENERAL NOTES

A. THESE DRAWINGS SERVE AS A GRAPHICAL REPRESENTATION OF THE INTENDED SCOPE OF WORK AND CONSTITUTE ONE PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS.

B. ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING CODE.

C. REFER TO SEQUENCE OF OPERATIONS FOR DETAILS REGARDING EXHAUST FAN (GX-1) CONTROLS.

D. ALL WORK SHALL BE IN COMPLIANCE WITH MANUFACTURER'S CLEARANCE REQUIREMENTS.

E. DO NOT SCALE DRAWINGS. LINE WORK IS SHOWN FOR REFERENCE ONLY.

F. COORDINATE FINAL LOCATIONS OF SENSORS / SWITCHES WITH OWNER.

G. COORDINATE NEW WORK WITH OTHER TRADES.

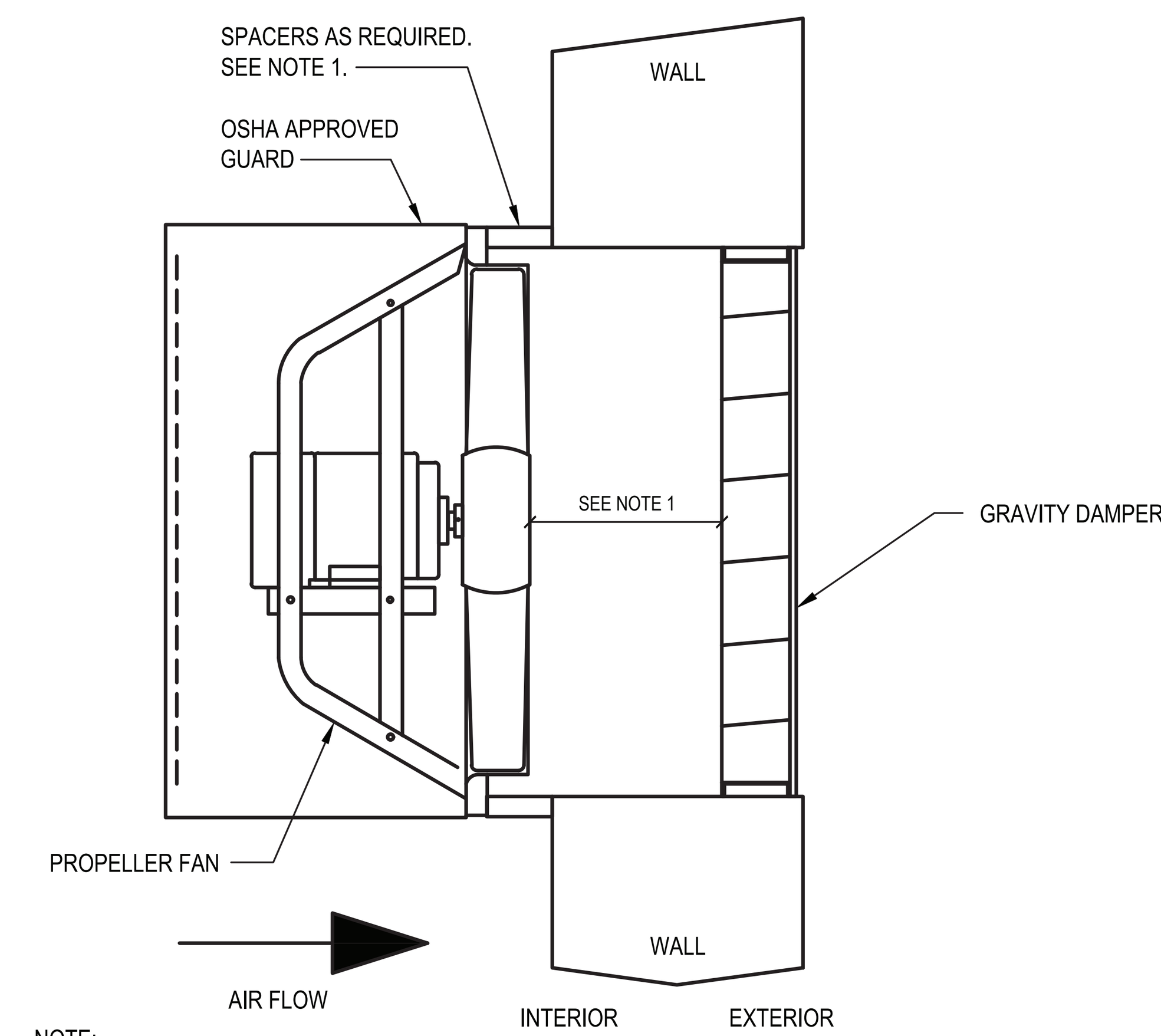
KEY WORK NOTES

1. PROVIDE AND INSTALL NEW ELECTRIC UNIT HEATER EUH-1, 2 WITH APPROPRIATE MOUNTING HARDWARE. MOUNT NEW ELECTRIC UNIT HEATER AS PER MANUFACTURER'S SPECIFICATIONS.

2. PROVIDE AND INSTALL NEW SIDEWALL EXHAUST FAN GX-1 WITH APPROPRIATE MOUNTING HARDWARE. MOUNT NEW SIDEWALL EXHAUST FAN AS PER MANUFACTURER'S SPECIFICATIONS. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL / STRUCTURAL PLANS, AND EXISTING SLOPE OF GRADE.

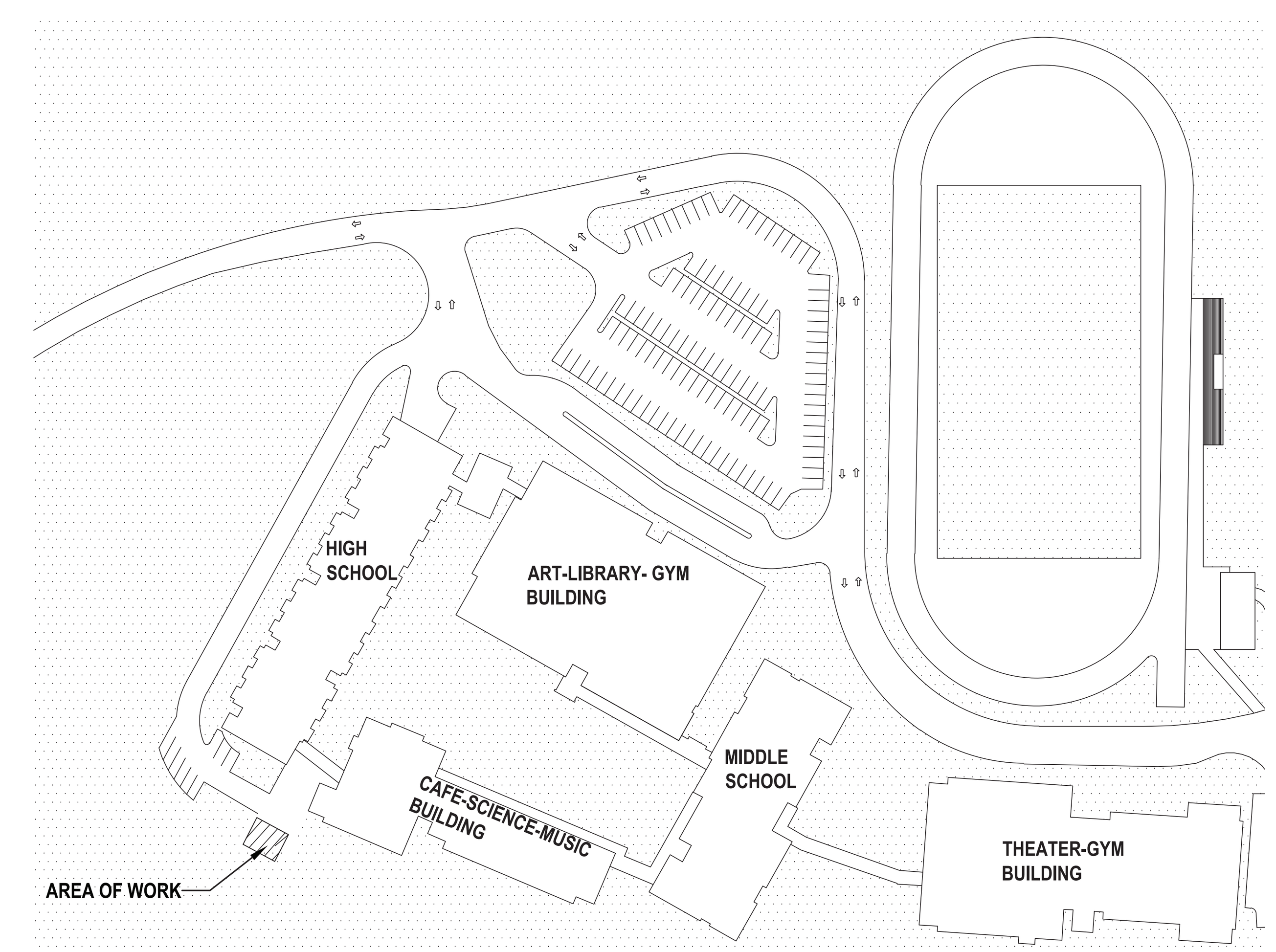
3. PROVIDE AND INSTALL NEW SIDEWALL INTAKE LOUVER 'A' WITH APPROPRIATE MOUNTING HARDWARE. MOUNT NEW SIDEWALL INTAKE LOUVER AS PER MANUFACTURER'S SPECIFICATIONS. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL / STRUCTURAL PLANS, AND EXISTING SLOPE OF GRADE.

4. NEW MOTORIZED DAMPER SHALL BE INTERLOCKED WITH NEW EXHAUST FAN GX-1. DAMPER SHALL OPEN WHEN GX-1 ACTIVATES (REFER TO SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR DETAILS).



NOTE:
1. MAINTAIN MINIMUM CLEARANCE BETWEEN FAN PROPELLER AND LOUVER AS PER MANUFACTURER'S INSTALLATION MANUAL. PROVIDE SPACERS AS NECESSARY TO MAINTAIN CLEARANCE CALLED FOR IN MANUAL.

2 **Sidewall Fan with OSHA Guard**
SCALE: NTS (DETAIL #)



Key Plan
SCALE: N.T.S.

H2M architects + engineers
2700 Westchester Avenue, Suite 415
Purchase, NY 10577
914.358.5623 • www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION
1	XX-XX-XX	FINAL BID DOCUMENT

STATE OF NEW YORK • ALEXANDER HOCHHAUS • LICENSED PROFESSIONAL ENGINEER • 073370

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
CAK	CAK	BMC	AEH

PROJECT No.:	DATE:	SCALE:
IRSD1903	OCTOBER 2021	AS SHOWN

CLIENT

Irvington Union Free School District

Facilities Storage Building at Irvington Campus

Irvington Campus
40 N. Broadway
Irvington, NY 10533

SED Number:66-04-02-02-2-022-001

CONTRACT
CONTRACT G
GENERAL CONSTRUCTION

STATUS
FINAL BID DOCUMENT

SHEET TITLE
HVAC
HIGH SCHOOL FACILITIES STORAGE BUILDING HVAC CONSTRUCTION

DRAWING No.
H1.0