

- 1. CURBS AND FANS SHALL BE FROM THE SAME MANUFACTURER.
- 2. ROOF OPENING IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS.
- 3. CURB HEIGHT SHALL BE 18" ABOVE FINISHED ROOF. 4. ALL FLASHING AND ROOF WORK BY 'H' CONTRACTOR.
- 5. All ROOF PENETRATION WORK BY 'H' CONTRACTOR.
- 6. CONTRACTOR SHALL COORDINATE AND MAINTAIN EXISTING MANUFACTURER ROOFING WARRANTY.

## Roof Exhaust Fan & Curb

VANES PREASSEMBLED ON PLATE SAME AS **RUNNER PLATES** — **DUCT SIZE DUCT SIZE OVER** 24" x 24" — 3 1/4" TYPICAL-

SQUARE ELBOW WITH TYPE "A" DOUBLE

SQUARE ELBOW WITH TYPE "B"

DOUBLE THICKNESS VANES.

THICKNESS VANES



- FLEXIBLE, NON-FLAMMABLE GLASS

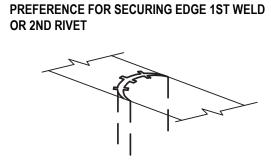
- UNIT HOUSING

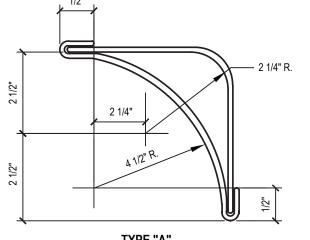
OR DUCT

**FABRIC MATERIAL** 

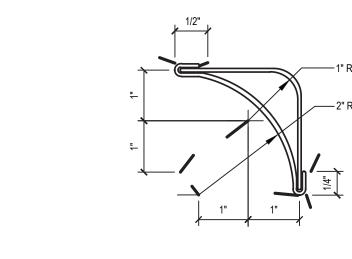
- BOLT WITH NUT AND

**WASHERS** 





TYPE "A" DOUBLE THICKNESS VANES FOR USE IN DUCTS GREATER THAN 24" x 24" IN SIZE. USE SAME GAUGE **GALVANIZED IRON AS DUCT NOT TO EXCEED 20 GAUGE.** 



DOUBLE THICKNESS VANES FOR USE IN DUCTS 24" x 24" AND UNDER

Turning Vanes Detail
SCALE:NTS (DETAIL #

U-STRIP —

WASHER

DUCT

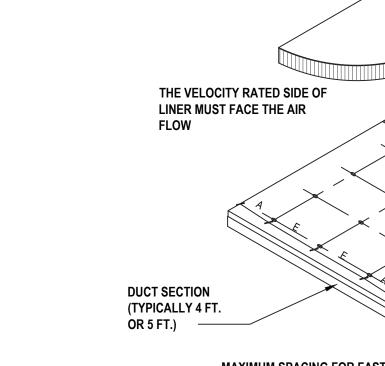
SHEET METAL

**SCREW WITH** 

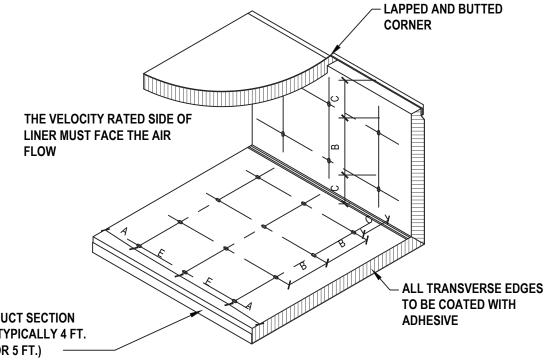
Flexible Duct Connection
SCALE: NTS (DETAIL #)

USE GALVANIZED STEEL FOR VANES IN EITHER STEEL OR ALUMINUM DUCTWORK.

DIMPLES IN PLATE TO ALIGN



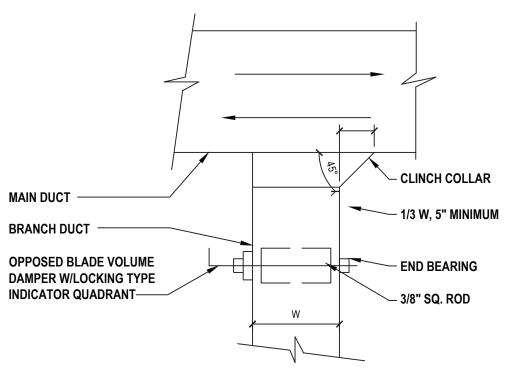
VELOCITY*	DIMENSIONS						
VELOCITY	Α	В	С	Е			
0-1500 FPM	3"	12"	4"	18"			
1501-3500 FPM	3"	6"	4"	16"			



MAXIMUM SPACING FOR FASTENERS.	LINER ADHERED TO THE DUCT WITH
ACTUAL INTERVALS ARE APPROXIMATE.	90% MIN. AREA COVERAGE OF ADHESIVE

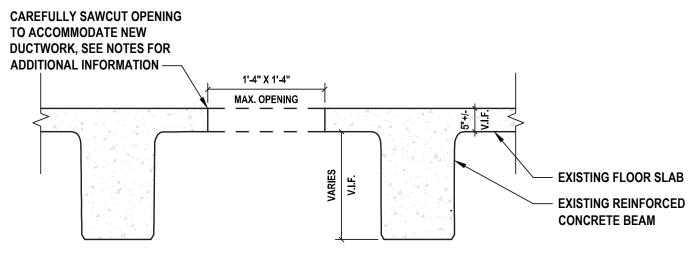
I OCITY*		DIMEN	SIONS	* UNLESS A LOWER LEVEL	
ELOCITY*	Α	В	С	E	SET BY MANUFACTURER OF
FPM	3"	12"	4"	18"	LISTING AGENCY
500 FPM	3"	6"	4"	16"	

**Acoustical Liner Fastening Detail**SCALE: NTS (DETAIL #)



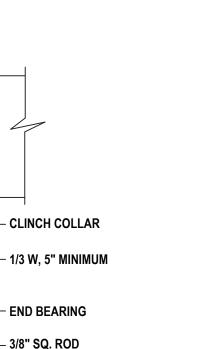
1. FURNISH THIS TYPE OF CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS SHOWN FOR LOW PRESSURE BRANCHES WITH LESS THAN 33% CAPACITY OF MAIN DUCT.

# **Duct Branch Takeoff For Low Pressure Ductowrk**SCALE: NTS



- 1. LOCATIONS OF ALL DUCT AND CONDUIT PENETRATIONS THROUGH THE EXISTING ROOF AND FLOOR DECK SHALL BE COORDINATED IN THE FIELD SUCH THAT THE OPENINGS DO NOT COINCIDE WITH THE
- LOCATIONS OF THE REINFORCED CONCRETE DROPPED BEAMS. 2. OPENINGS SHALL BE LIMITED IN WIDTH TO THE CLEAR DIMENSION
- BETWEEN THE DROPPED BEAMS, AS SHOWN ABOVE.
- 3. MAXIMUM OPENING SHALL BE 1'-4" X 1'-4"
- 4. REFER 'H' DRAWINGS THROUGHOUT FOR APPROXIMATE SIZES AND LOCATIONS OF DUCT PENETRATIONS.
- 5. CONTRACTOR SHALL FIRE STOP ALL FLOOR, WALL AND ROOF PENETRATIONS, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- Typical Roof / Floor Deck Penetration Detail

  SCALE: NTS



2700 Westchester Ave., Suite 415 Purchase, NY 10577

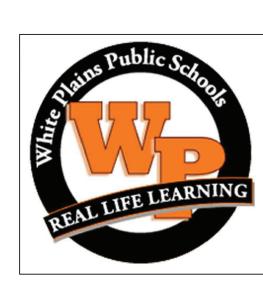
914.358.5623 • www.h2m.com

MARK	DATE	DESCRIPTION
-	07-24-2023	FINAL BID SET



### **White Plains City School District**

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD** 



**550 North Street** White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

**CONTRACT H HEATING VENTILATION AND AIR** CONDITIONING

**FINAL BID SET** 

**MECHANICAL DETAILS AND** SCHEDULES

M500.00

EQUIPMENT NO. LOCATION QUANTITY			PERFORMANCE/CONSTRUCTION REQUIREMENTS				BASIS OF DESIGN INFORMATION						
	QUANTITY	CFM	EXT S. P. (IN. W.C.)	FAN/MOTOR DUTY POINT RPM	FAN / MOTOR MAX RPM	ВНР	MNF	MODEL NO.	NOMINAL OPERATING WEIGHT	ELECTRICAL DATA		REMARKS	
		KEWI					(LBS.)	VOLTS/PHASE	MOTOR HP				
EF-7, 9, 16	ROOFTOP	2	450	0.75	1488	1725	0.12	GREENHECK	G-098-VG	53	115 / 1	1/4	1-5
EF-1, 3, 4, 6, 10, 12	ROOFTOP	6	900	0.75	1677	1725	0.24	GREENHECK	G-099-VG	53	115 / 1	1/4	1-5
EF-8, 14, 15	ROOFTOP	2	1350	0.75	1472	1725	0.31	GREENHECK	G-120-VG	61	115 / 1	1/2	1-6
EF-14	ROOFTOP	1	1800	0.75	1560	1725	0.44	GREENHECK	G-130-VG	65	115 / 1	3/4	1-6
EF-13	ROOFTOP	1	2250	0.75	1486	1725	0.68	GREENHECK	G-140-VG	72	115 / 1	1	1-6
EF-2, 5, 11	ROOFTOP	3	2700	0.75	1215	1725	0.72	GREENHECK	G-160-VG	81	208 / 1	2	1-6

- 1. MOTOR SPEED CONTROLLER TO BE INTEGRAL / MOTOR MOUNTED TO BE USED FOR MANUAL SPEED ADJUSTMENT FOR BALANCING.
- 2. MANUFACTURER PROVIDED HOOD HASP
- 3. NEMA 3R DISCONNECT SWITCH 4. GALVANIZED MESH
- HINGED BASE 6. FIRE ALARM FAN SHUTDOWN REQUIRED