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DATE: 09/15/2023  
PROJECT: GEORGE WASHINGTON ELEMENTARY SCHOOL  
DRAWN BY: JAC

SEAL OF THE CITY OF NEW YORK

White Plains City  
School District

100 Orchard Street  
White Plains, NY, 10604  
66-22-00-01-4-009-416

CONTRACT G  
GENERAL CONSTRUCTION

RE-BID DOCUMENT

MECHANICAL  
SCHEDULES AND DETAILS

M 300.00

| VENTILATION SCHEDULE - GEORGE WASHINGTON ELEMENTARY SCHOOL                                                                          |                    |               |               |                   |                 |                                    |                  |               |                    |         |         |                                |         |         |                  |            |       |           |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|---------------|-------------------|-----------------|------------------------------------|------------------|---------------|--------------------|---------|---------|--------------------------------|---------|---------|------------------|------------|-------|-----------|
| ROOM NO                                                                                                                             | ROOM NAME          | EQUIPMENT TAG | ROOM DATA     |                   |                 | PER OUTSIDE AIR CMV REQUIRED (W99) |                  |               | PER BRTH ZONE REQD |         |         | EXHAUST AIR CMV REQUIRED (W99) |         |         | DESIGN AIR FLOWS |            | NOTES |           |
|                                                                                                                                     |                    |               | TYPE          | DISTR EFFECT (EQ) | AREA SQ FT (AG) | HGT (AG)                           | NO OF PEOPLE (P) | PER SQ FT (P) | PER (P)            | PER (P) | PER (P) | PER (P)                        | PER (P) | PER (P) | PER (P)          | TOTAL REQD |       | ROD (CFM) |
| 215                                                                                                                                 | GIRL'S TOILET ROOM | EF-30         | PUBLIC TOILET | 0.8               | 274             | 10.5                               | 5                |               |                    |         |         |                                |         | 10      | 150              |            | 350   | 1         |
| 219                                                                                                                                 | BOY'S TOILET ROOM  | EF-31         | PUBLIC TOILET | 0.8               | 240             | 10.5                               | 7                |               |                    |         |         |                                |         | 10      | 150              |            | 460   | 1         |
| 315                                                                                                                                 | PUBLIC TOILET      | EF-30         | PUBLIC TOILET | 0.8               | 260             | 10.5                               | 5                |               |                    |         |         |                                |         | 10      | 150              |            | 350   | 1         |
| 321                                                                                                                                 | BOY'S TOILET ROOM  | EF-31         | PUBLIC TOILET | 0.8               | 240             | 10.5                               | 7                |               |                    |         |         |                                |         | 10      | 150              |            | 460   | 1         |
| NOTES                                                                                                                               |                    |               |               |                   |                 |                                    |                  |               |                    |         |         |                                |         |         |                  |            |       |           |
| 1. ALL ROOM AIR FLOWS ARE BASED ON TABLE 60.3 FROM THE 2020 MECHANICAL CODE OF NYC AND/OR LATEST ASHRAE 62.1, WHICHEVER IS GREATER. |                    |               |               |                   |                 |                                    |                  |               |                    |         |         |                                |         |         |                  |            |       |           |

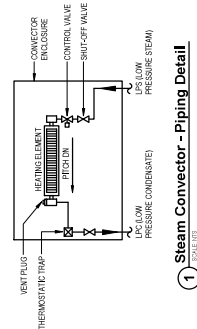
NOTES:  
1. ALL ROOM AIR FLOWS ARE BASED ON TABLE A9.3 FROM THE 2020 MECHANICAL CODE OF NYS AND/OR LATEST ASHRAE 62.1, WHICHEVER IS GREATER.

| EXHAUST FAN SCHEDULE |         |          |           |          |                  |        |               |             |             |                  |         |
|----------------------|---------|----------|-----------|----------|------------------|--------|---------------|-------------|-------------|------------------|---------|
| UNIT                 | SERVICE | LOCATION | MFG       | MODEL    | TYPE             | DRIVE  | AIRFLOW (CFM) | ESP (IN.WG) | SPEED (RPM) | SOUND POWER (dB) | NOTES   |
|                      |         |          |           |          |                  |        |               |             |             |                  |         |
| EF-30                | TOILETS | ROOF     | GREENHECK | G-123-AG | CENTRIFUGAL DOME | DIRECT | 1500          | 0.6         | 1500        | 113.2            | 2081850 |
| EF-31                | TOILETS | ROOF     | GREENHECK | G-123-AG | CENTRIFUGAL DOME | DIRECT | 1500          | 0.6         | 1500        | 113.2            | 2081850 |

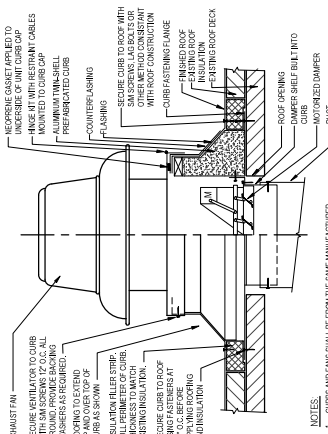
NOTES:  
1. FANS SHALL INCLUDE NEMA-1 DISCONNECT SWITCH, THERMAL OVERLOAD PROTECTION, VARI-GREEN ELECTRONICALLY COMMUTATED (EC) MOTORS WITH DALI ON MOTOR OR CONTROL. ALL FANS SHALL BE UL LISTED AND APPROVED BY THE CITY OF NEW YORK.  
2. FAN SHALL BE UL, DMS LISTED, AIDA CERTIFIED.  
3. JUNCTION BOX MOUNTED AND WIRED.  
4. ONE YEAR STANDARD WARRANTY.  
5. INTERLOCK EXHAUST FAN WITH AUTOMATIC TEMPERATURE CONTROL SYSTEM.

| CONVECTOR SCHEDULE |          |       |                       |                    |                   |                         |                     |               |          |               |         |
|--------------------|----------|-------|-----------------------|--------------------|-------------------|-------------------------|---------------------|---------------|----------|---------------|---------|
| UNIT               | MFG      | MODEL | MOUNTING TYPE         | OUTLET GRILLE TYPE | INLET GRILLE TYPE | TEMPERATURE (DEGREES F) | STEAM HEATING BTU/H | PHYSICAL DATA |          |               | NOTES   |
|                    |          |       |                       |                    |                   |                         |                     | D (INCH)      | H (INCH) | RECESS (INCH) |         |
| CV-1               | STERLING | SEGA  | FREE STANDING CABINET | SLOPING TOP        | FRONT             | 215                     | 19,610              | 8             | 48       | 32            | 1,2,3,4 |
| CV-2               | STERLING | SEGA  | FREE STANDING CABINET | SLOPING TOP        | FRONT             | 215                     | 19,610              | 8             | 48       | 32            | 1,2,3,4 |
| CV-3               | STERLING | SEGA  | FREE STANDING CABINET | SLOPING TOP        | FRONT             | 215                     | 19,610              | 8             | 48       | 32            | 1,2,3,4 |
| CV-4               | STERLING | SEGA  | FREE STANDING CABINET | SLOPING TOP        | FRONT             | 215                     | 19,610              | 8             | 48       | 32            | 1,2,3,4 |

NOTES:  
1. PRECAST ANCHORS EXPOSED CABINET FOOTING ARE FITTED FLUSH AGAINST WALL WITH SLOPED TOP INTEGRAL OUTLET GRILLE AND LOW INTEGRAL INLET GRILLE IN FRONT PANEL.  
2. PRECAST ANCHORS EXPOSED CABINET FOOTING ARE FITTED FLUSH AGAINST WALL WITH SLOPED TOP INTEGRAL OUTLET GRILLE AND LOW INTEGRAL INLET GRILLE IN FRONT PANEL.  
3. CUSTOM COLOR SELECTION BY ARCHITECT.  
4. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS WITH PIPING CONNECTIONS PRIOR TO ORDERING.

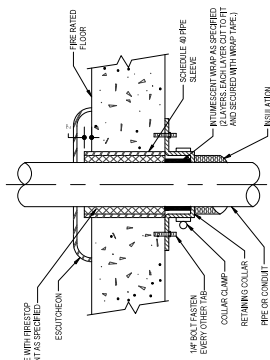


Steam Convector - Piping Detail  
SCALE: 1/8"



NOTES:  
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 12" ABOVE FINISHED ROOF.  
4. ALL FLASHING AND ROOF WORK BY CONTRACTOR.

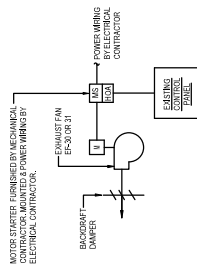
Roof Exhaust Fan & Curb  
SCALE: 1/8"



Pipe Penetration Through Floors  
SCALE: 1/8"

| GRILLE SCHEDULE |                |       |       |            |                  |                |                     |           |                    |            |              |
|-----------------|----------------|-------|-------|------------|------------------|----------------|---------------------|-----------|--------------------|------------|--------------|
| TAG             | TYPE           | MFG   | MODEL | MOUNT TYPE | MODULE SIZE (IN) | NECK SIZE (IN) | AIRFLOW RANGE (CFM) | NC FATING | PRESS LOSS (IN.WG) | NOTES      | LOSS (IN.WG) |
|                 |                |       |       |            |                  |                |                     |           |                    |            |              |
| EG              | EXHAUST GRILLE | TITUS | PAR   | LAY-IN     | 24x24            | 8" DIA         | 0-120               | 13        | 0.1                | 1, 2, 3, 4 | 0.1          |
| EG              | EXHAUST GRILLE | TITUS | PAR   | LAY-IN     | 24x24            | 8" DIA         | 121-210             | 19        | 0.1                | 1, 2, 3, 4 | 0.1          |
| EG              | EXHAUST GRILLE | TITUS | PAR   | LAY-IN     | 24x24            | 8" DIA         | 211-324             | 28        | 0.1                | 1, 2, 3, 4 | 0.1          |
| EG              | EXHAUST GRILLE | TITUS | PAR   | LAY-IN     | 24x24            | 12" DIA        | 325-455             | 28        | 0.1                | 1, 2, 3, 4 | 0.1          |
| EG              | EXHAUST GRILLE | TITUS | PAR   | LAY-IN     | 24x24            | 14" DIA        | 476-640             | 28        | 0.1                | 1, 2, 3, 4 | 0.1          |

NOTES:  
1. COLOR AND MOUNTING STYLE SELECTION BY ARCHITECT. PROVIDE COLOR SAMPLE. OTHERWISE STANDARD FINISH IS #20 WHITE.  
2. GRILLES SHALL BE OF STEEL CONSTRUCTION WITH FLUSH PERFORATED FACE.  
3. PROVIDE VOLUME DAMPER IN BRANCH DUCT.  
4. CONTRACTOR TO VERIFY CEILING TYPE, GRID MODULE, AND LAY-IN FRAME TYPES.



ALL CONTROL WORK (DEMOLITION OR NEW WORK) SHALL BE COORDINATED WITH RAMP ENERGY MANAGEMENT OF THE STATE OF NEW YORK. FOR MORE INFORMATION, CONTACT THE STATE OF NEW YORK ENERGY SERVICES DIVISION AT 518-485-6000. ENE IS A PARTNER OF SCHNEIDER ELECTRIC.

Exhaust Fan - Control Schematic  
SCALE: 1/8"