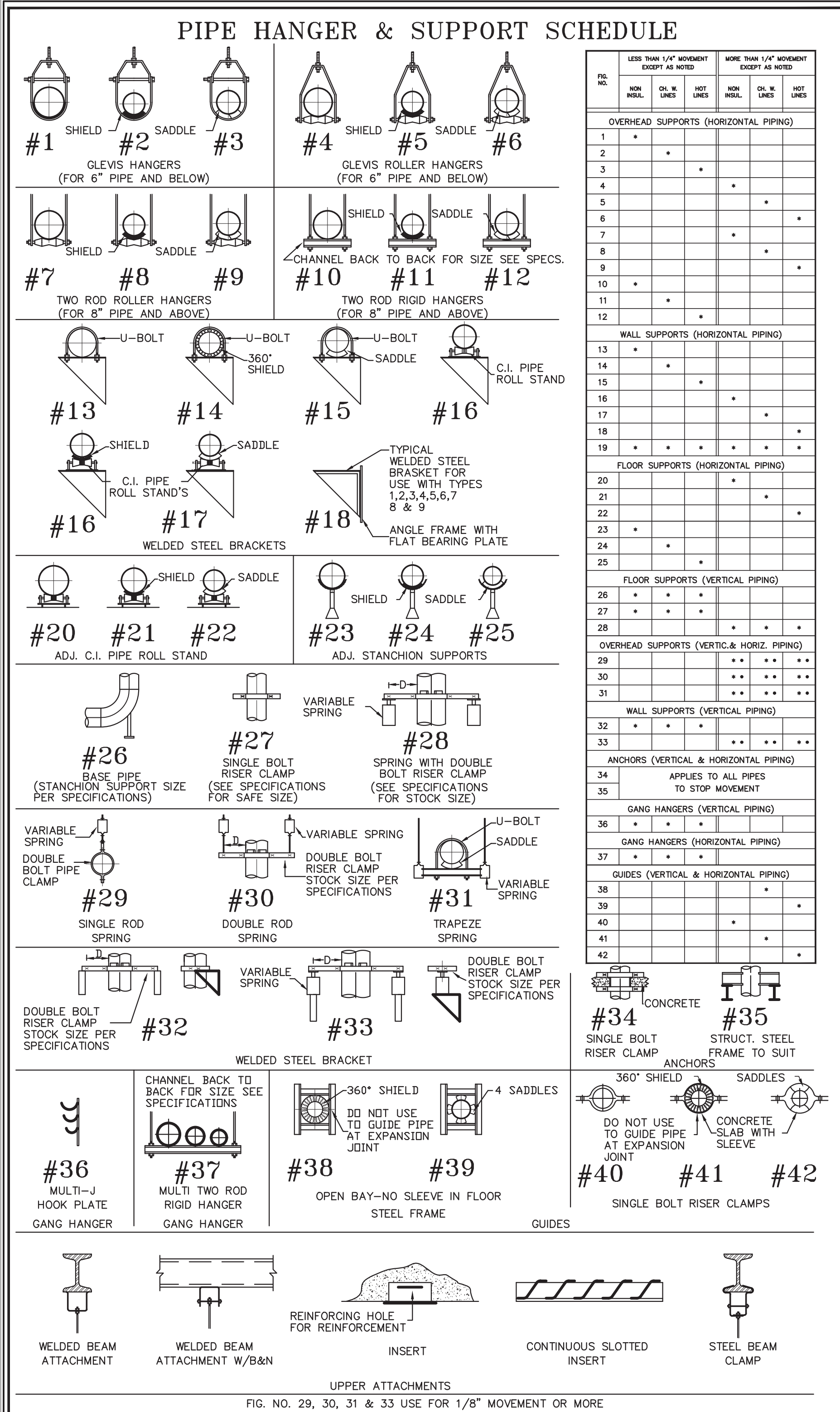
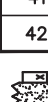
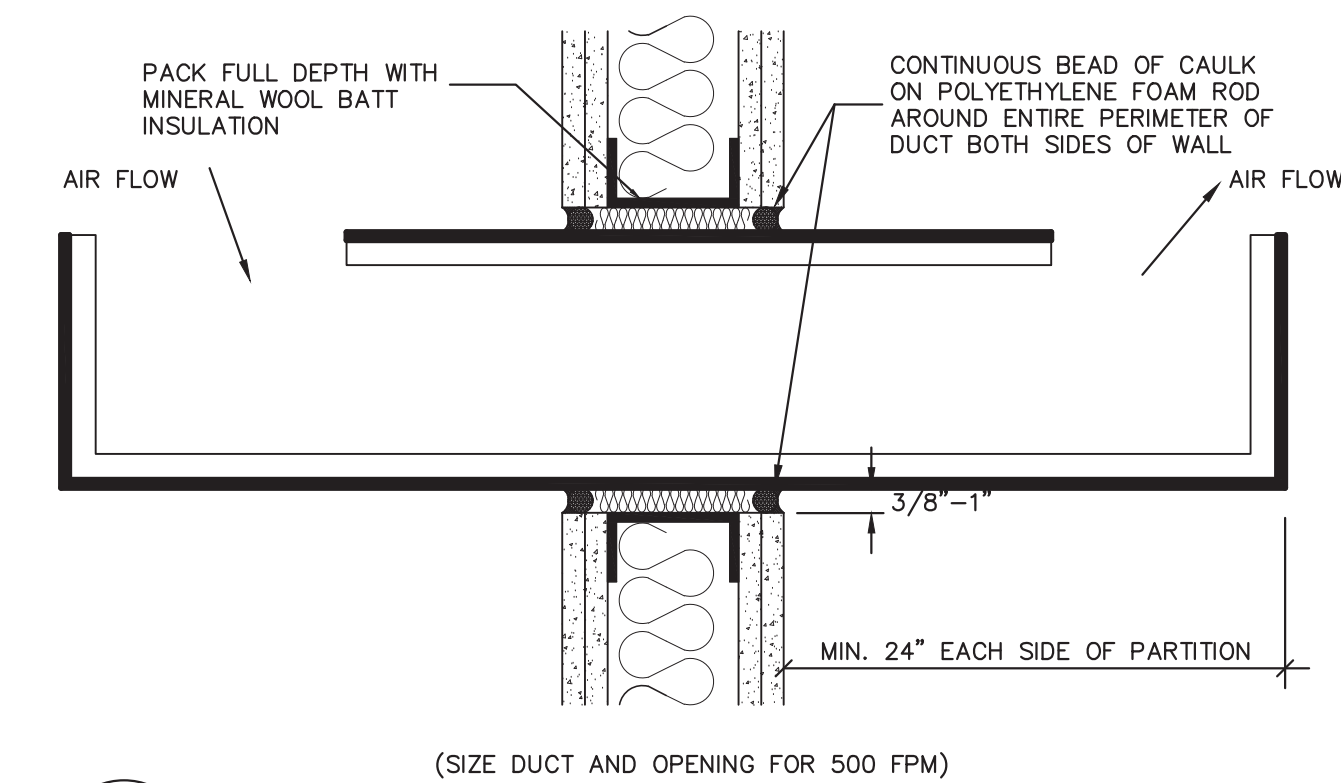


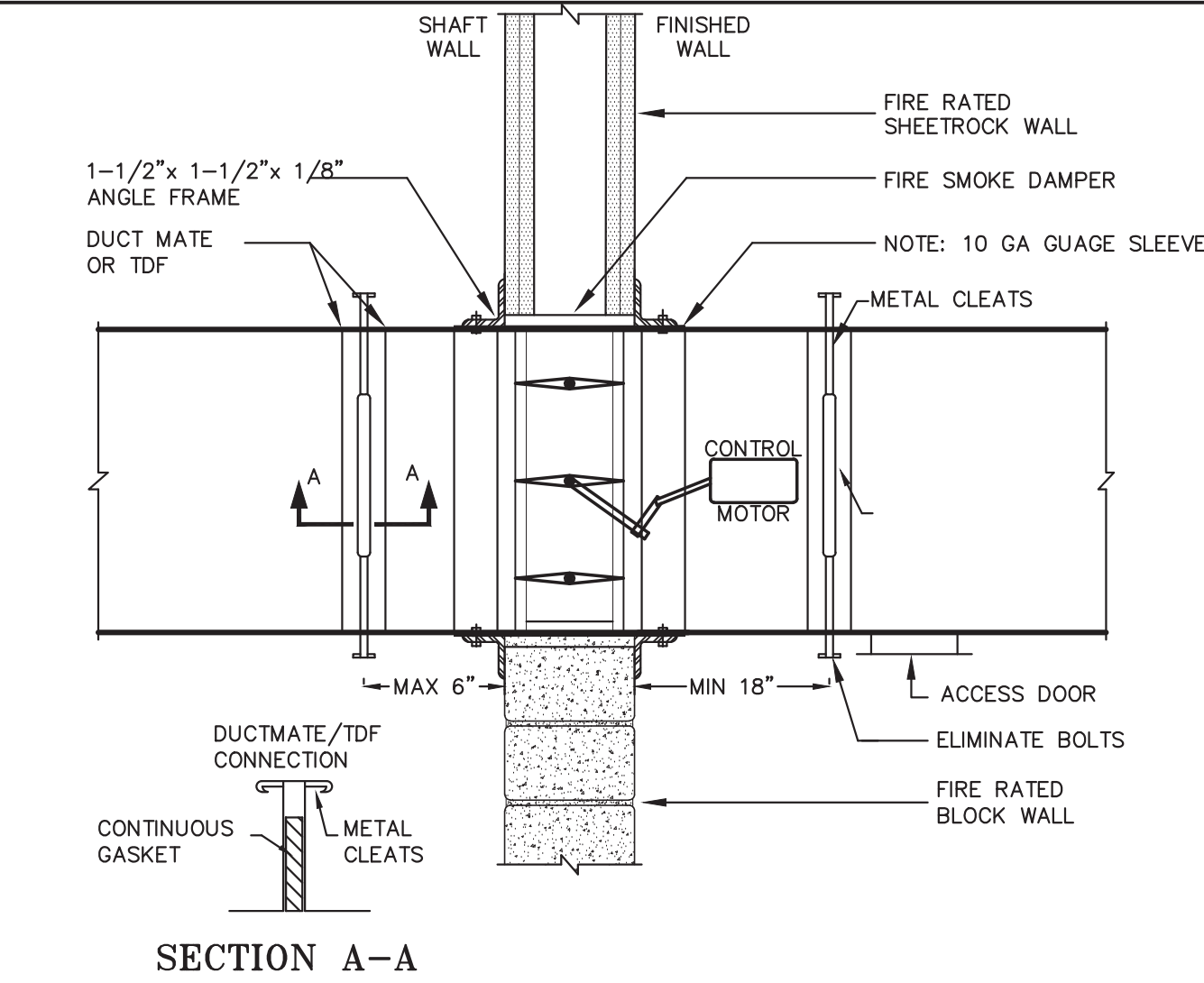


REL. NO.	LESS THAN 1/4" MOVEMENT EXCEPT AS NOTED			MORE THAN 1/4" MOVEMENT EXCEPT AS NOTED		
	NON INSUL.	CL. IN. LINES	HOT LINES	NON INSUL.	CL. IN. LINES	HOT LINES
OVERHEAD SUPPORTS (HORIZONTAL PIPING)						
1	*	*				
2		*				
3		*				
4				*		
5				*	*	
6				*	*	*
7				*	*	*
8				*	*	*
9	*				*	*
10	*	*			*	*
11	*	*			*	*
12		*			*	*
WALL SUPPORTS (HORIZONTAL PIPING)						
13	*	*				
14	*	*				
15		*				
16		*		*	*	*
17		*		*	*	*
18	*	*	*	*	*	*
19	*	*	*	*	*	*
FLOOR SUPPORTS (HORIZONTAL PIPING)						
20			*			
21			*		*	*
22	*				*	*
23	*	*			*	*
24	*	*			*	*
25		*			*	*
FLOOR SUPPORTS (VERTICAL PIPING)						
26	*	*	*	*	*	*
27	*	*	*	*	*	*
28		*	*	*	*	*
OVERHEAD SUPPORTS (VERTIC. & HORIZ. PIPING)						
29		*	*	*	*	*
30		*	*	*	*	*
31		*	*	*	*	*
WALL SUPPORTS (VERTICAL PIPING)						
32	*	*	*	*	*	*
33	*	*	*	*	*	*
ANCHORS (VERTICAL & HORIZONTAL PIPING)						
34	APPLIES TO ALL PIPES TO STOP MOVEMENT					
35						
GANG HANGERS (VERTICAL PIPING)						
36	*	*	*	*	*	*
GANG HANGERS (HORIZONTAL PIPING)						
37	*	*	*	*	*	*
GUIDES (VERTICAL & HORIZONTAL PIPING)						
38			*		*	*
39			*		*	*
40			*		*	*
41			*		*	*
42			*		*	*
  #34 CONCRETE #35 STRUCT. STEEL FRAME TO SUIT    DO NOT USE TO GUIDE PIPE AT JOINT CONCRETE SLAB WITH SLEEVE SADDLES #40 #41 #42 SINGLE BOLT RISER CLAMPS						

4 ROOF MOUNTED EXHAUST FAN ISOLATION DETAIL
M.020 NOT TO SCALE

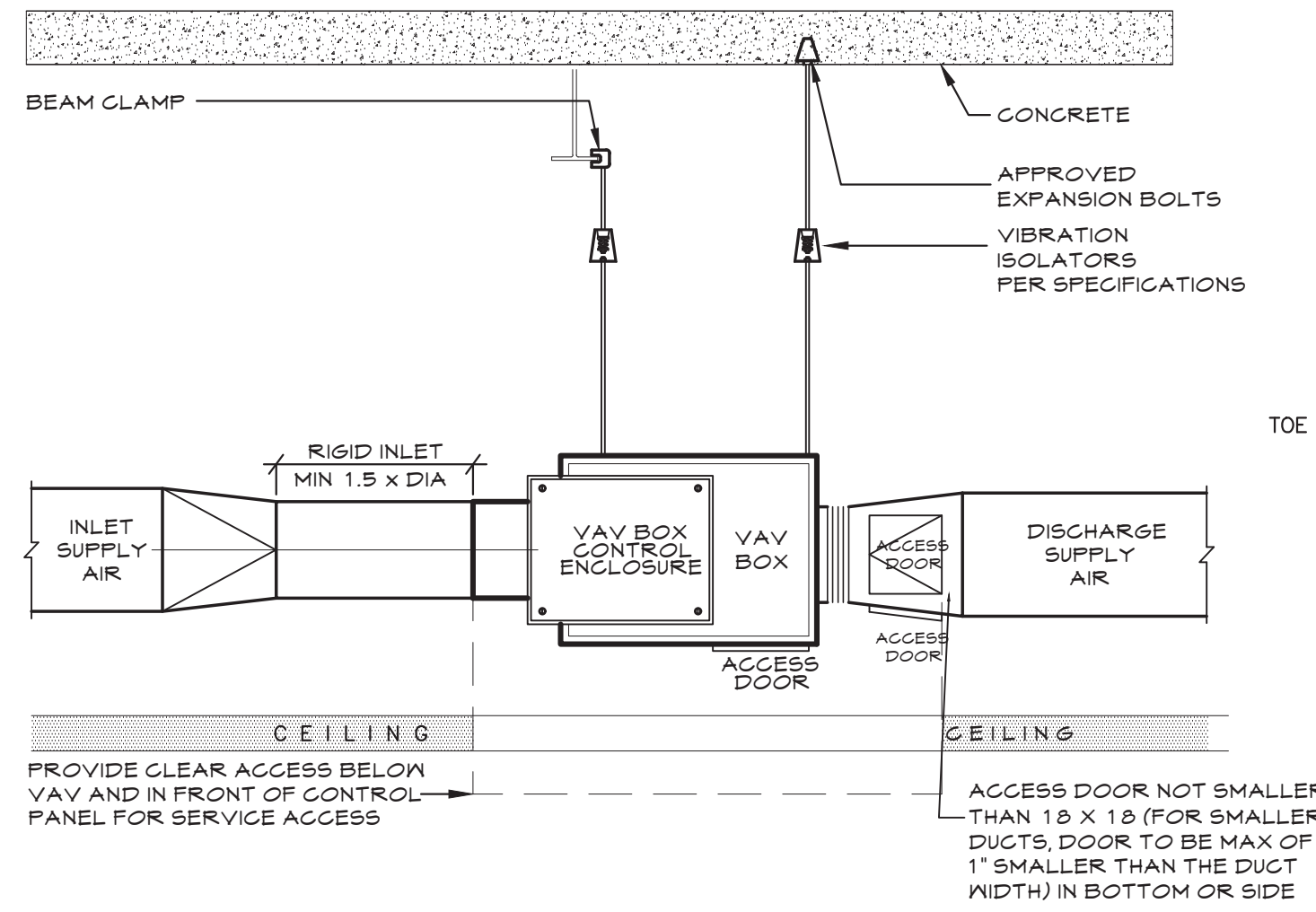


5 RETURN AIR TRANSFER DUCT DETAIL
M.021 NOT TO SCALE

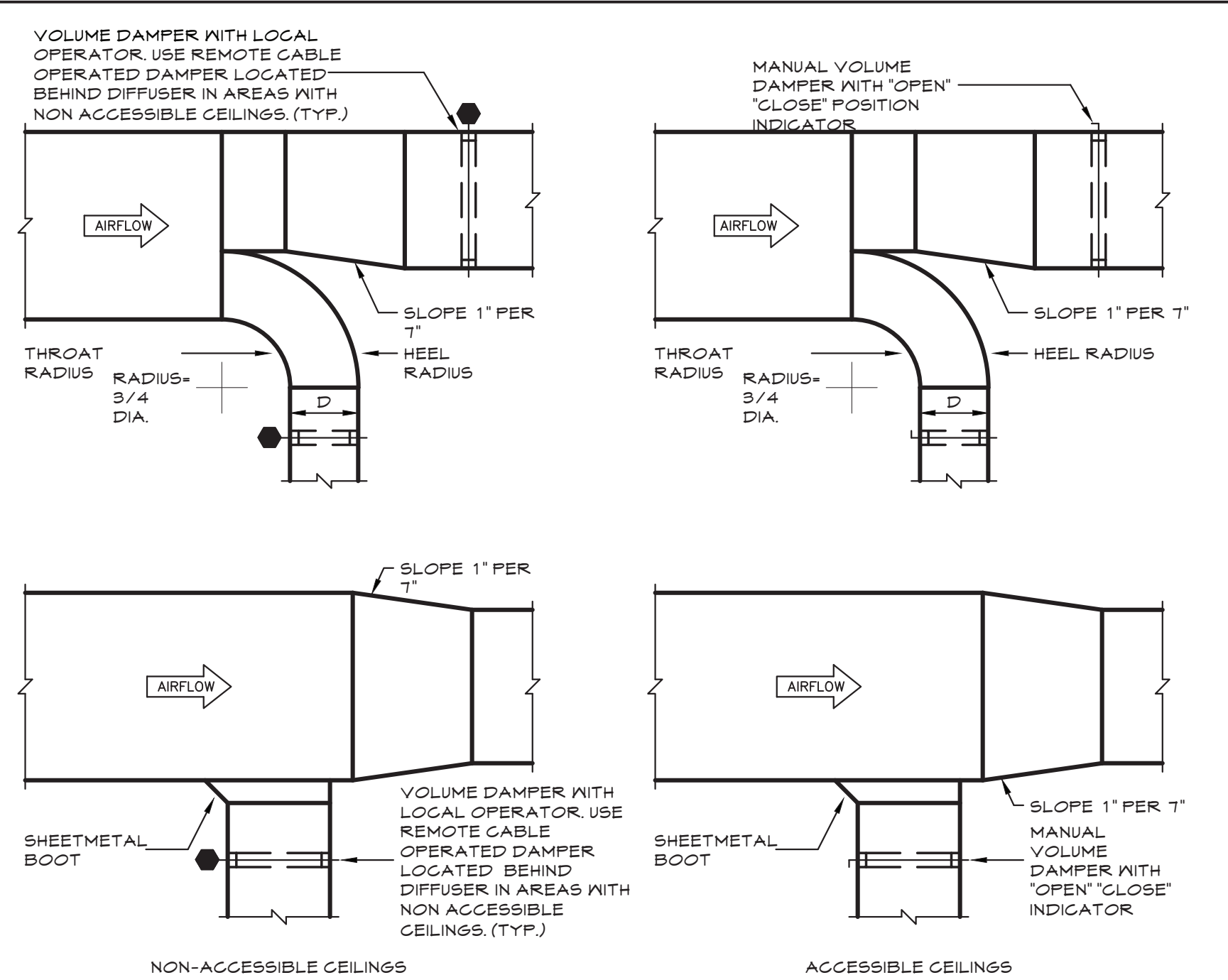


- GENERAL FIRE/SMOKE DAMPER NOTES
LOCATE FIRE/SMOKE AND FIRE DAMPERS AS INDICATED ON PLANS AND AS FOLLOWS:
1. PROVIDE FIRE DAMPERS IN ALL TOILET EXHAUST/GENERAL EXHAUST SYSTEMS AT ALL RATED WALLS. (DUCTS UNDER 3 SQ.FT. IN 1 HOUR WALLS DO NOT NEED FIRE DAMPERS.)
 2. PROVIDE COMBINATION FIRE-SMOKE DAMPERS IN ALL SUPPLY, RETURN AND MAKE-UP SYSTEMS AT ALL RATED WALLS.
 3. SEE ACOUSTIC DETAILS FOR SOUND STOPPING AROUND FIRE/SMOKE DAMPERS
 4. MAINTAIN CODE REQUIRED FIRE SEPARATIONS FROM RATED PARTITIONS TO FIRE SMOKE DAMPER. THIS MAY INVOLVE EXTENDING APPROVED DUCT WRAP AND/OR ADDING ADDITIONAL FITTINGS IN ORDER TO ALLOW THE FIRE SMOKE DAMPERS TO PROPERLY ALIGN WITH THE RATED PARTITIONS.

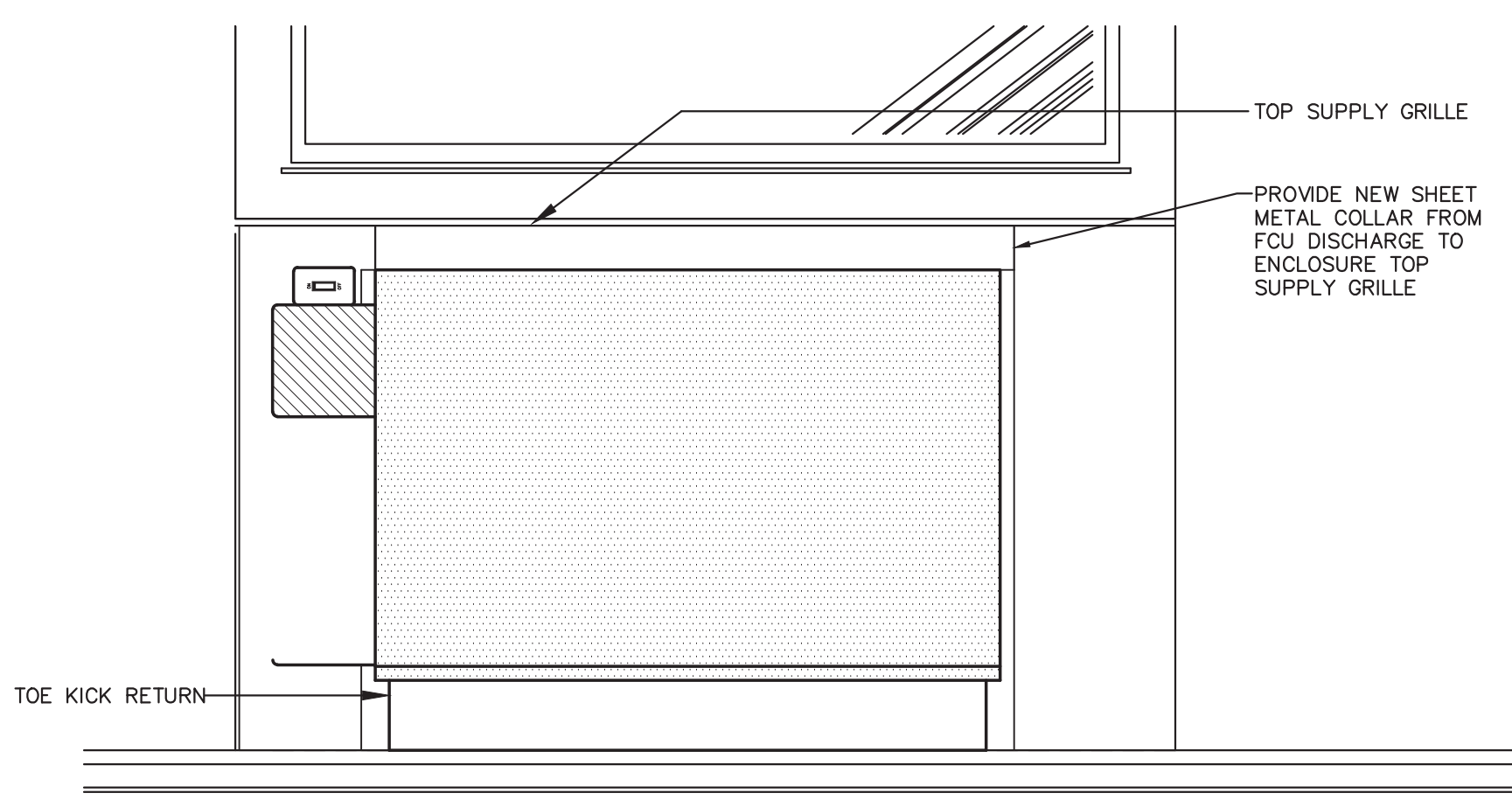
7 BREAK-AWAY FIRE-SMOKE DAMPER
M.103.00 NOT TO SCALE
1 & 1-1/2HR WALLS B.S.& A. CAL.#176-82-M
2 & 3 HR WALLS MEA #177-92-M



8 VAV BOX HANGING AND CONNECTION DETAIL
M.020 NOT TO SCALE

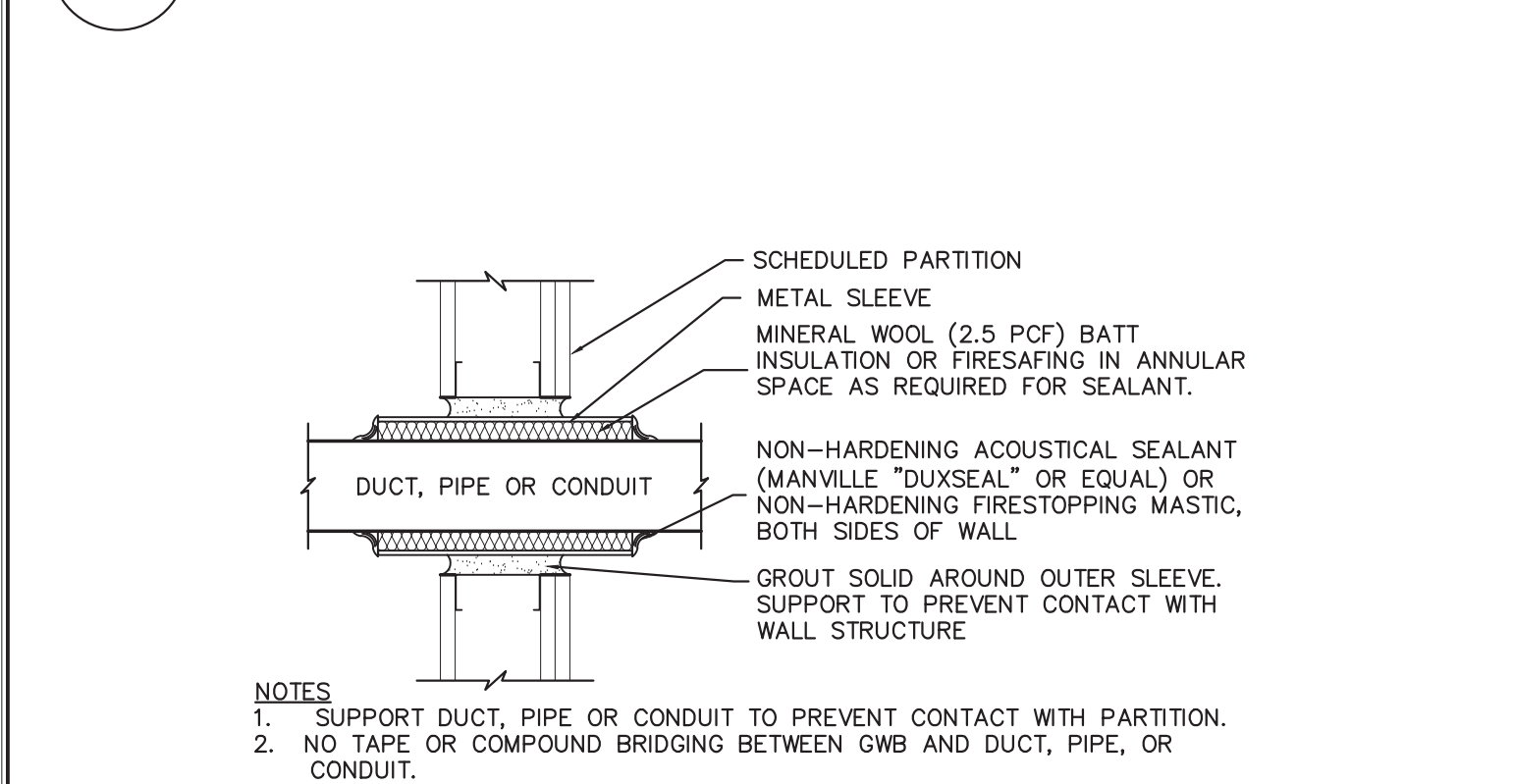


10 TYPICAL DUCTWORK TAKE-OFF DETAILS
M.020 NOT TO SCALE

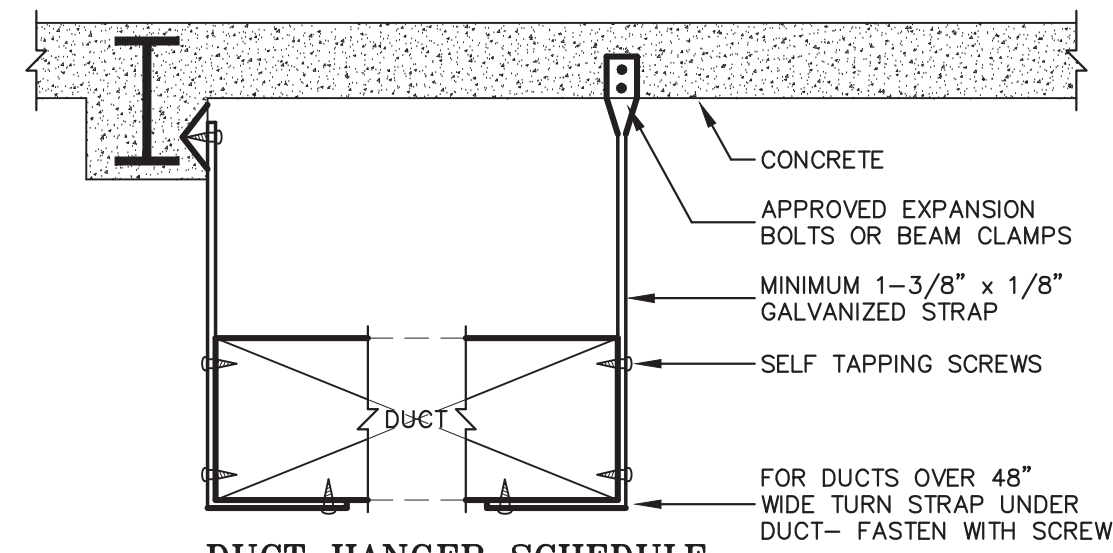


3 FAN COIL ENCLOSURE DETAIL
M.020 N.T.S.

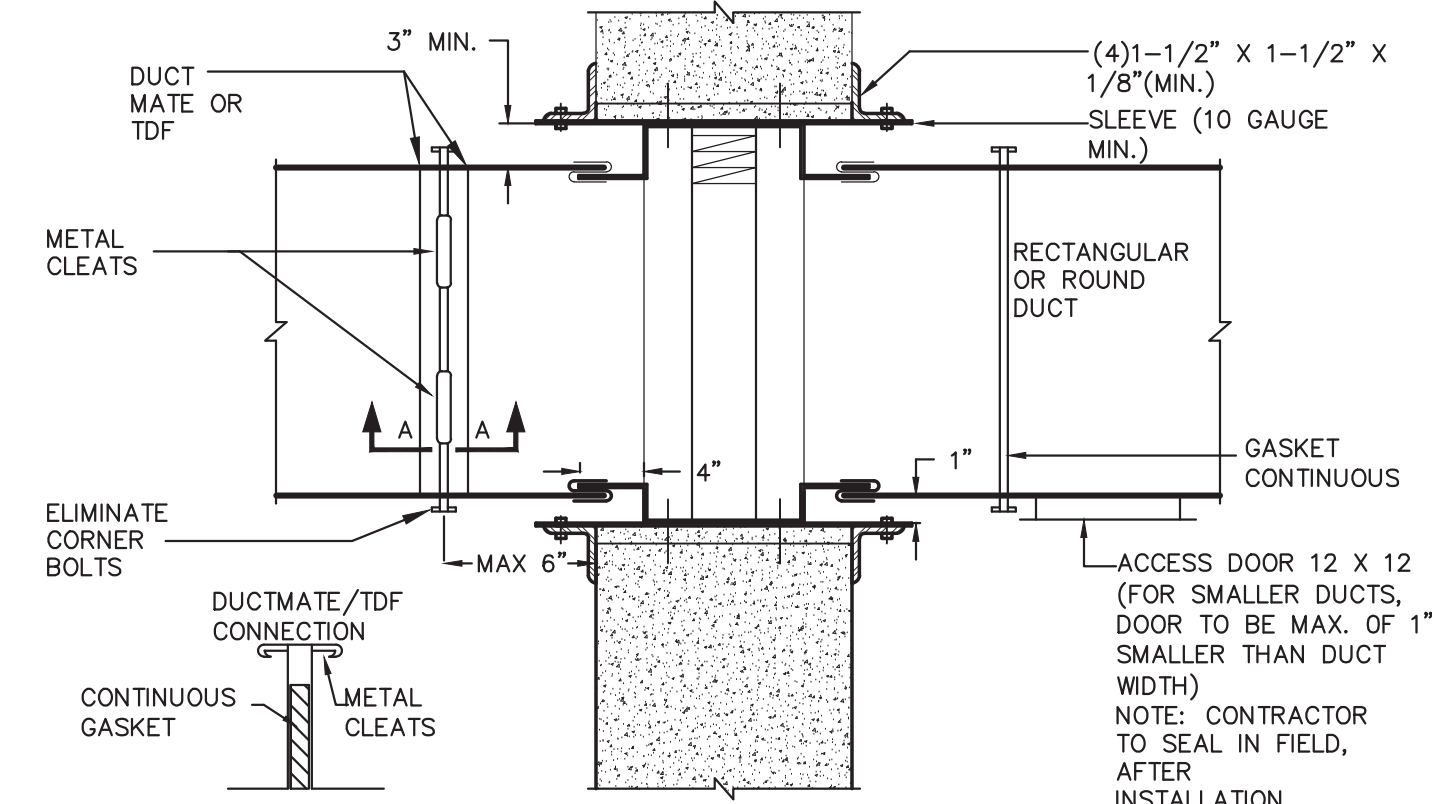
1 PIPE HANGER AND SUPPORT SCHEDULE
M.020 NOT TO SCALE



2 PENETRATION OF FULL HEIGHT GWB PARTITION
M.020 NOT TO SCALE



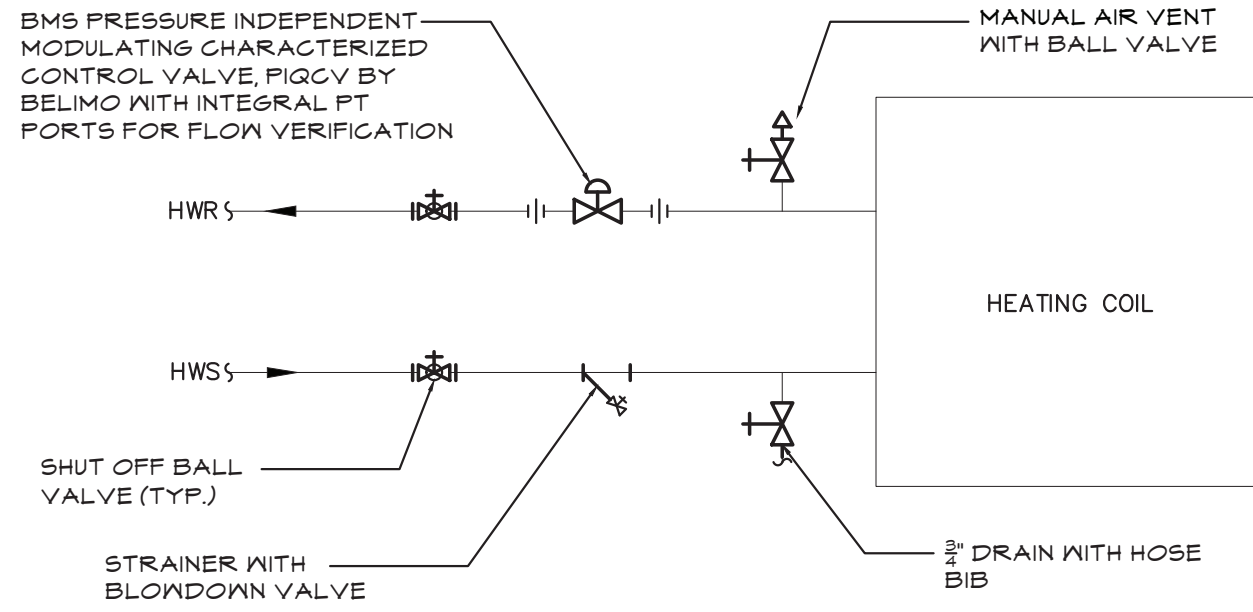
6 METHOD OF DUCT SUPPORT
M.020 NOT TO SCALE



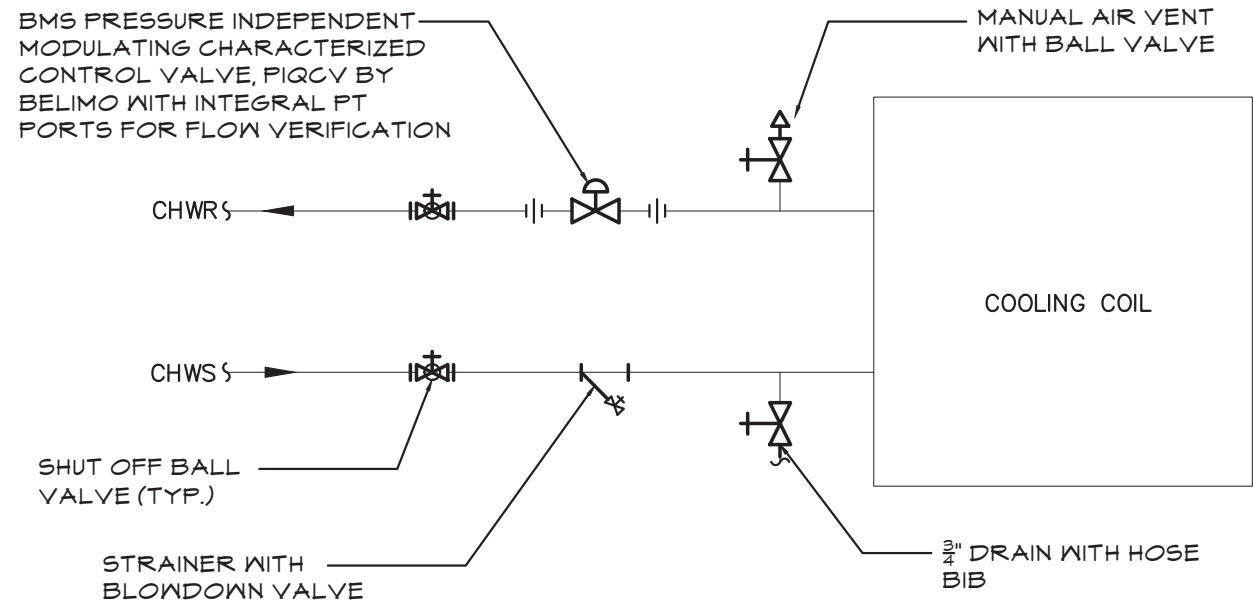
9 FIRE DAMPER DETAIL
M.021 NOT TO SCALE

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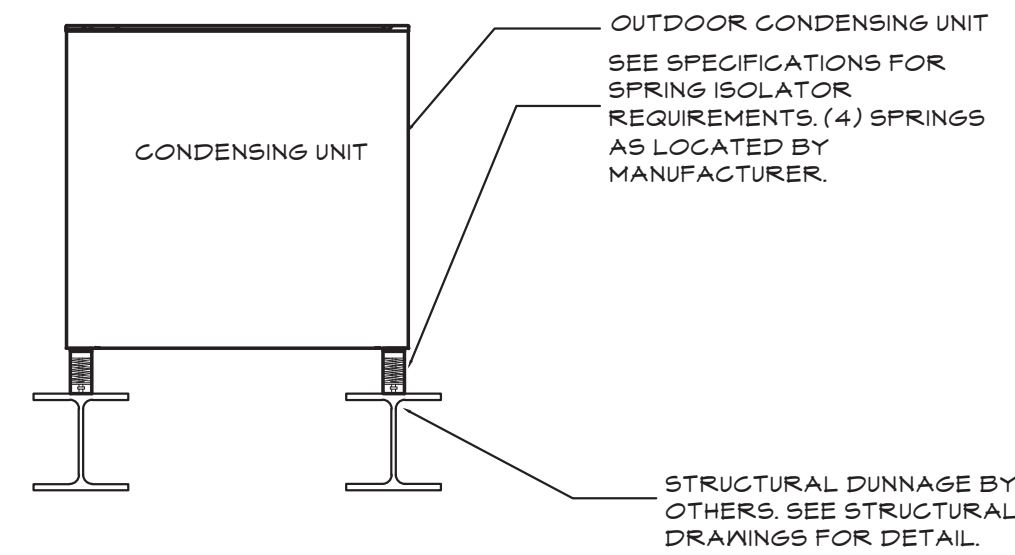
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514	SHEET NUMBER M-020	
DIVISION OF ENGINEERING		SHEET NO. 3 OF 17		
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED DATE: MAY 20, 2021 DPW FILE NO. 52-01-HV-553		
DETAILS		REV NO. 0		



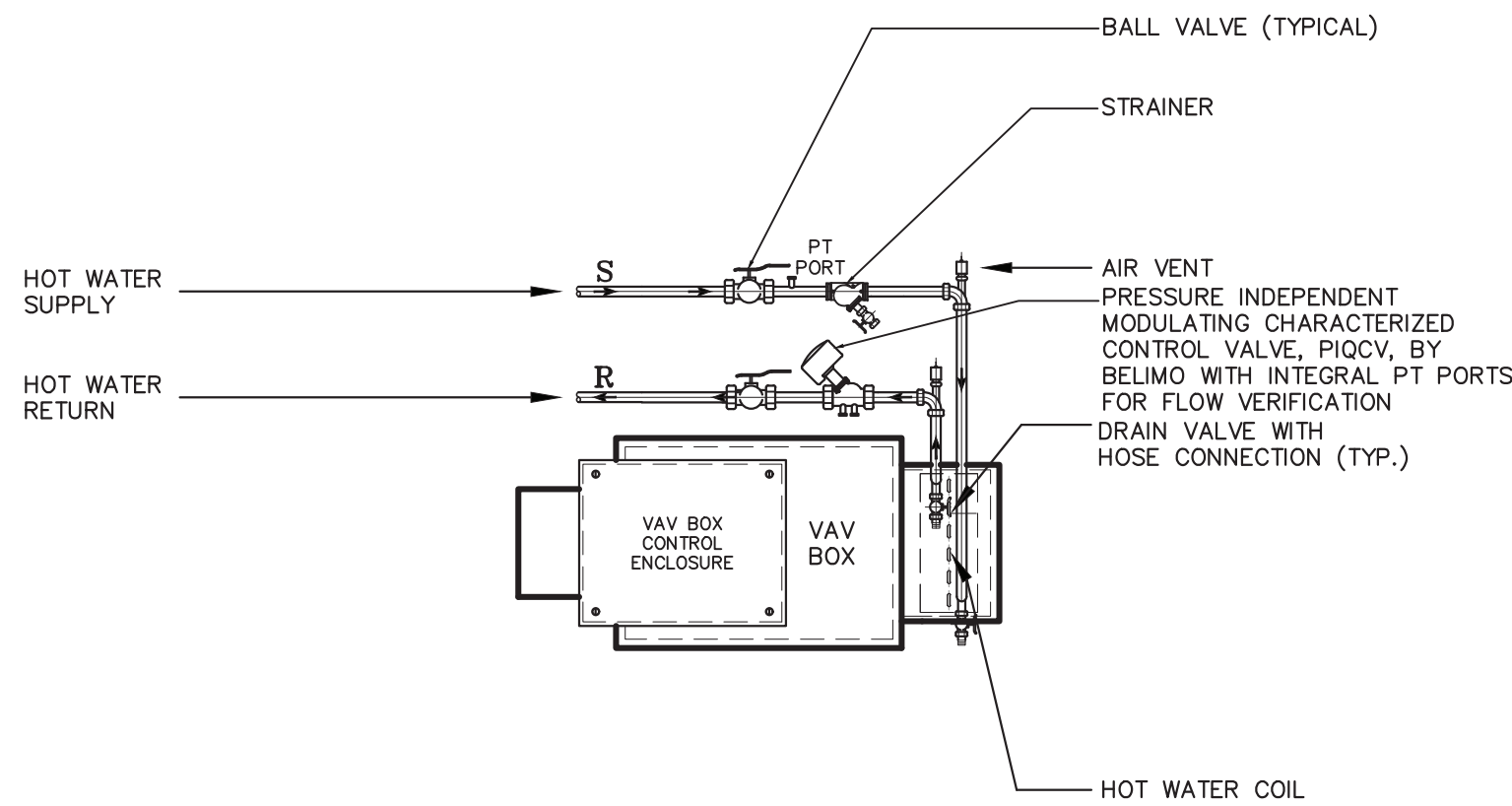
1 HEATING COIL CONNECTION HOT WATER (SINGLE COIL) DETAIL
M.021 NOT TO SCALE



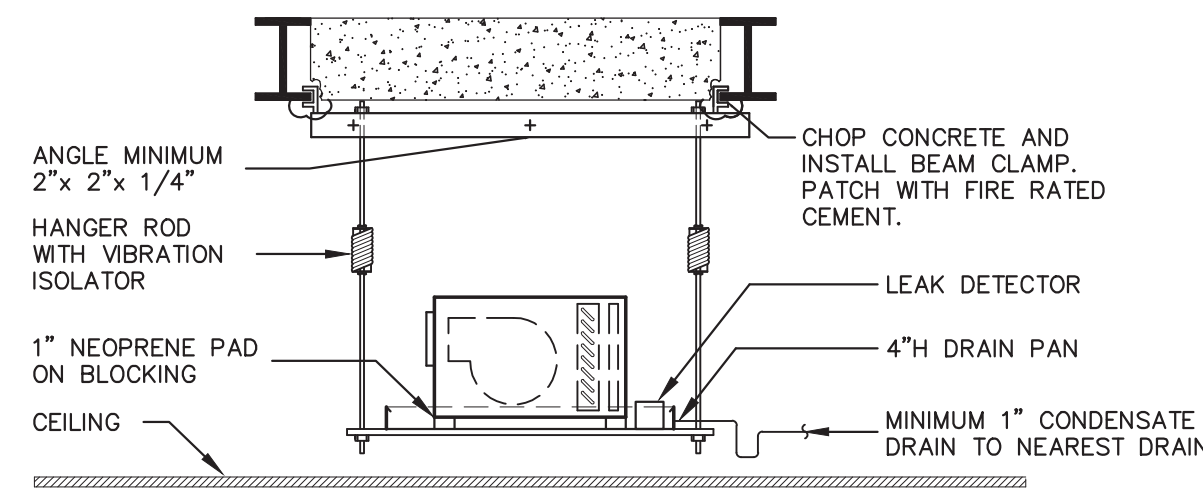
3 COOLING COIL CONNECTION CHILLED WATER (SINGLE COIL) DETAIL
M.021 NOT TO SCALE



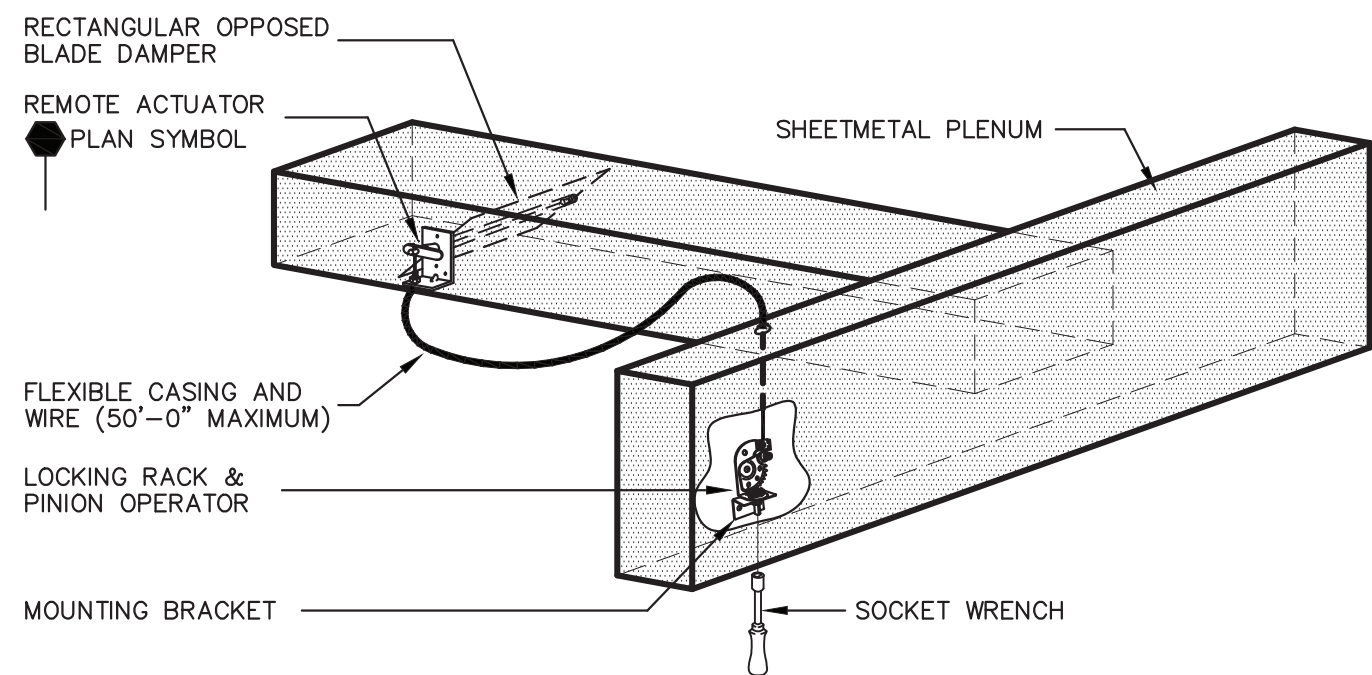
6 CONDENSING UNIT MOUNTING DETAIL
M.021 N.T.S.



2 VAV WITH HOT WATER RE-HEAT COIL PIPING DETAIL
M.021 NOT TO SCALE

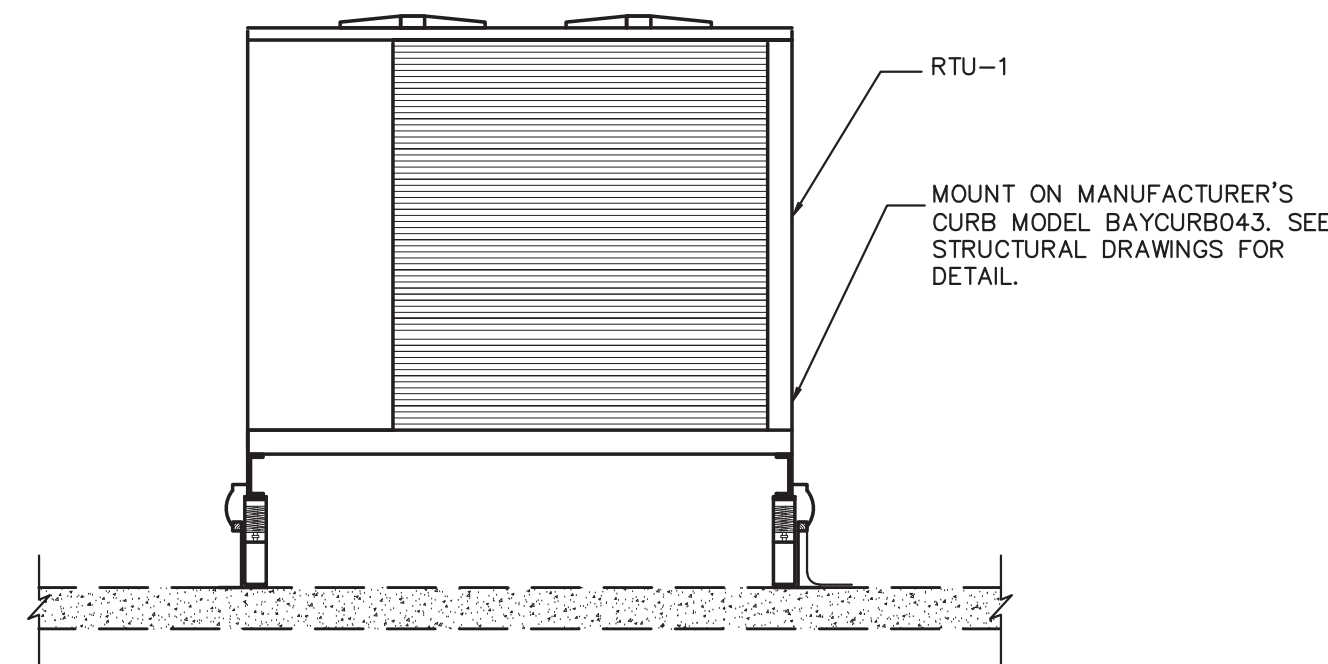


5 CABINET HEATER HANGER DETAIL
M.021 NOT TO SCALE



- NOTES:
1. PROVIDE ANEMOSTAT MODEL 800AW CABLE CONTROL SYSTEM DESIGNED FOR USE WITH EXTERNALLY CONTROLLED ROUND OR RECTANGULAR DAMPERS MOUNTED BEHIND GRILLES AND DIFFUSERS.
 2. CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
 3. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
 4. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

4 REMOTE CABLE OPERATED DAMPER DETAIL
M.021 NTS

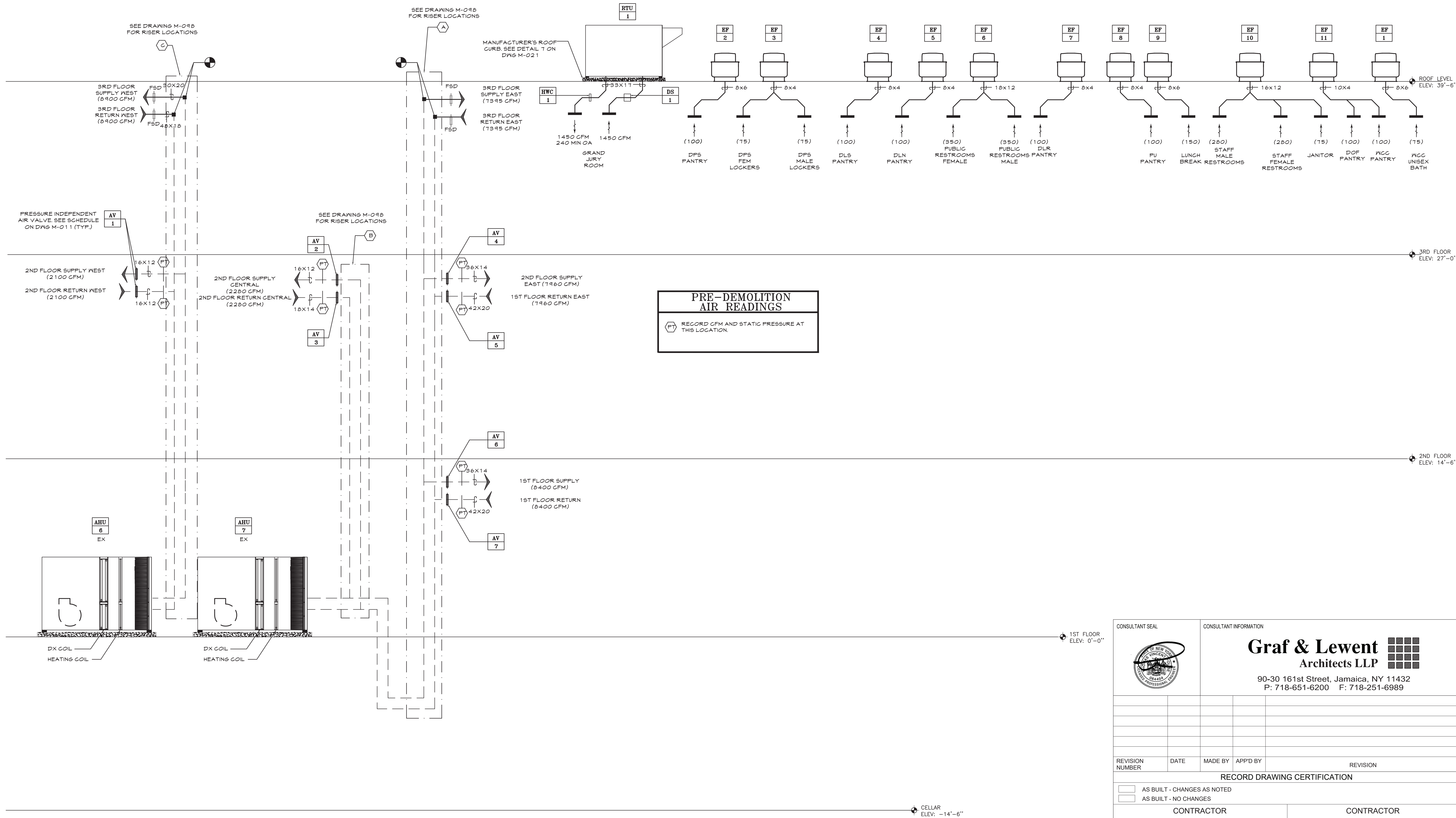


7 RTU-1 SUPPORT DETAIL
M.021 N.T.S.

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LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED DATE: MAY 20, 2021 DPW FILE NO. 52-01-HV-554	
DETAILS		REV NO. 0	

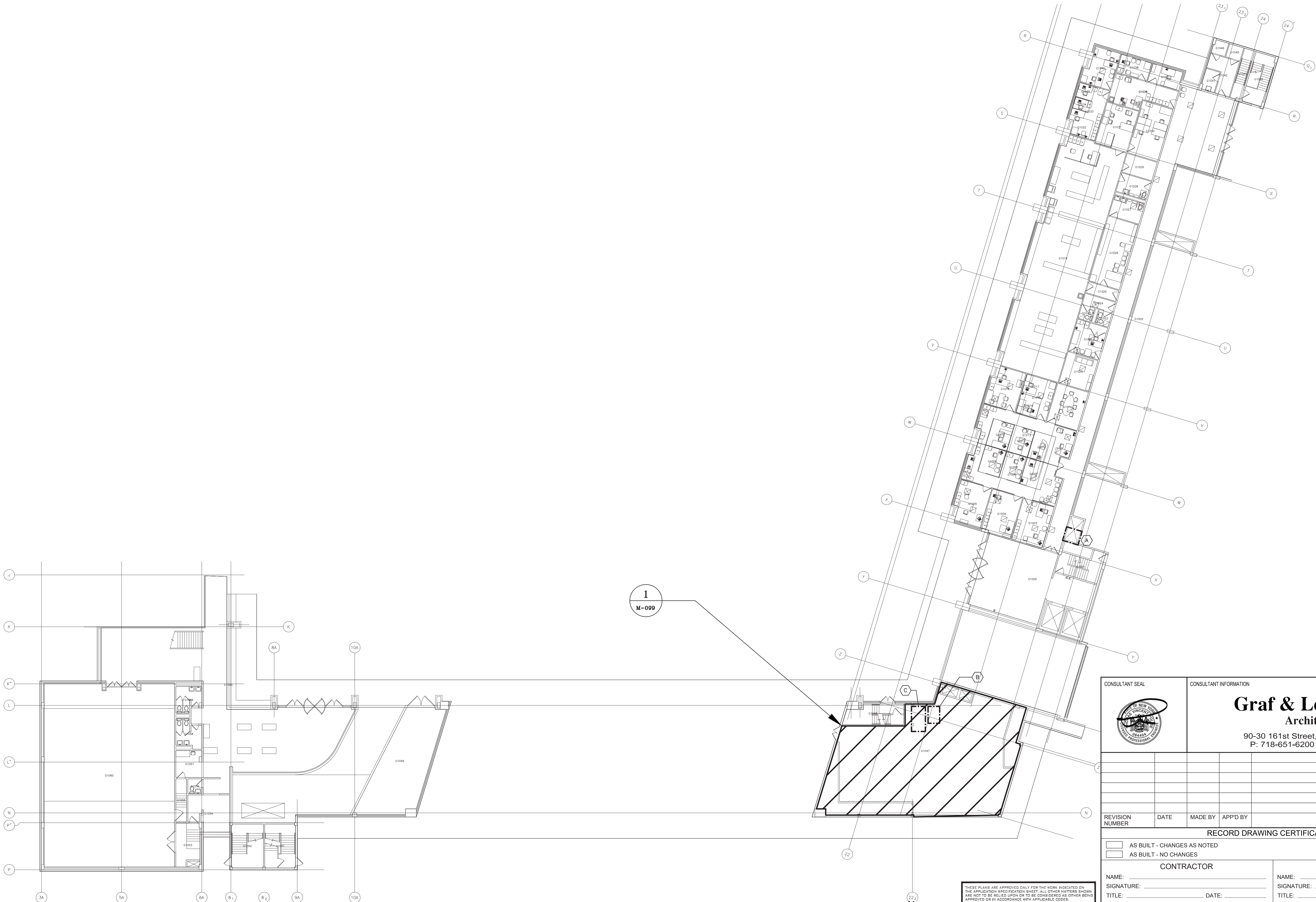


1 AIR RISER DIAGRAM
M.030 N.T.S.

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REVISION		REVISION	
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DIVISION OF ENGINEERING		SHEET NO. 5 OF 17	
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED DATE: MAY 20, 2021 DPW FILE NO. 52-01-HV-555	
AIR RISER DIAGRAM		REV NO. 0	



1 GROUND FLOOR KEY PLAN
M.098 1/18"=1'-0"

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<table><tr><td>REVISION NUMBER</td><td>DATE</td><td>MADE BY</td><td>APP'D BY</td><td>REVISION</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>				REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION																				
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601 GROUND FLOOR KEY PLAN		CONTRACT NUMBER 19-514 SHEET NO. 6 OF 17 SCALE: AS NOTED DATE: MAY 20, 2021 DPW FILE NO. 52-01-HV-556	SHEET NUMBER M-098 REV NO. 0																									

TESTING NOTES

PRE-BALANCING NOTES

1. THE PURPOSE OF THE PREBALANCING IS TO OBTAIN EXISTING DATA ON THE EXISTING UNITS SHOWN TO DETERMINE IF THE EXISTING SYSTEMS ARE OPERATING CORRECTLY. PERFORM THE FOLLOWING TESTS:

FOR EXISTING AIR HANDLING UNITS 6 AND 7 (AHU-6, AHU-7) SHOWN ON THE PLAN:

1. AT EACH PITOT TUBE READING LOCATION INDICATED ON THE PLAN AND AT EACH OF THE SUPPLY AND RETURN DUCT CONNECTIONS TO THE UNIT, TAKE PITOT TUBE TRAVERSE READINGS AND RECORD:

A. TOTAL AIR QUANTITY
B. STATIC PRESSURE
C. AIR TEMPERATURE

2. AT SUPPLY FAN RECORD:

A. TEST AND RECORD FAN RPM'S
B. TEST AND RECORD MOTOR FULL LOAD AMPERES.
C. TRAVERSE OF MAIN SUPPLY DUCTS AND OBTAIN CFM AT FANS
D. TEST AND RECORD SYSTEM STATIC PRESSURE, SUCTION, AND DISCHARGE.
E. TEST RETURN AIR CFM.

F. TEST OUTSIDE AIR CFM.

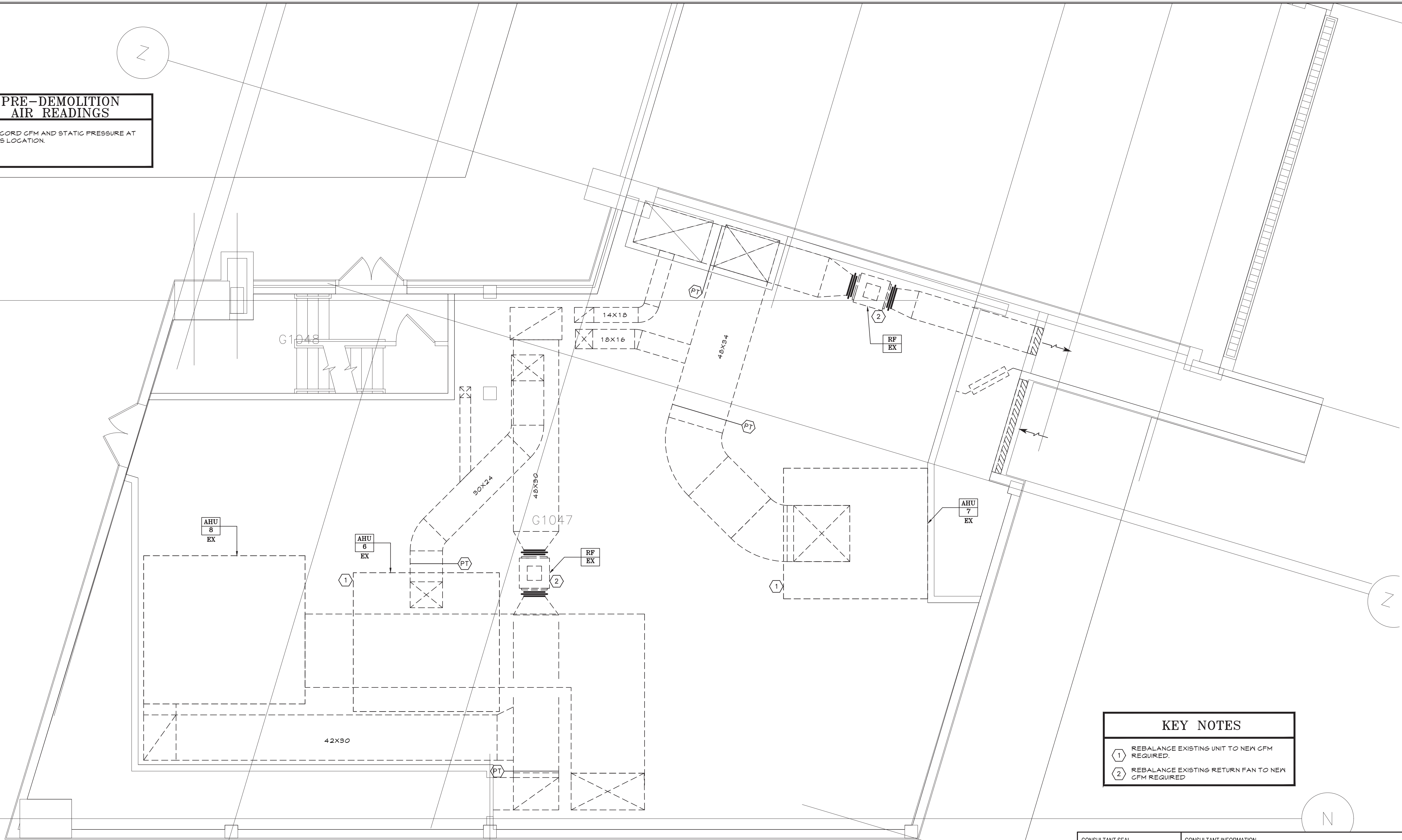
3. CONTRACTOR TO PROVIDE EXISTING CHILLED WATER AND STEAM FLOW RATES FOR EACH AC UNIT.

4. ALL READINGS SHALL BE RECORDED AND COPIES SUBMITTED TO ENGINEER.

5. PROVIDE PRICING TO PERFORM ALL REPAIRS FOUND NECESSARY FOR CONTINUED OPERATION.

**PRE-DEMOLITION
AIR READINGS**

PT RECORD CFM AND STATIC PRESSURE AT THIS LOCATION.



KEY NOTES

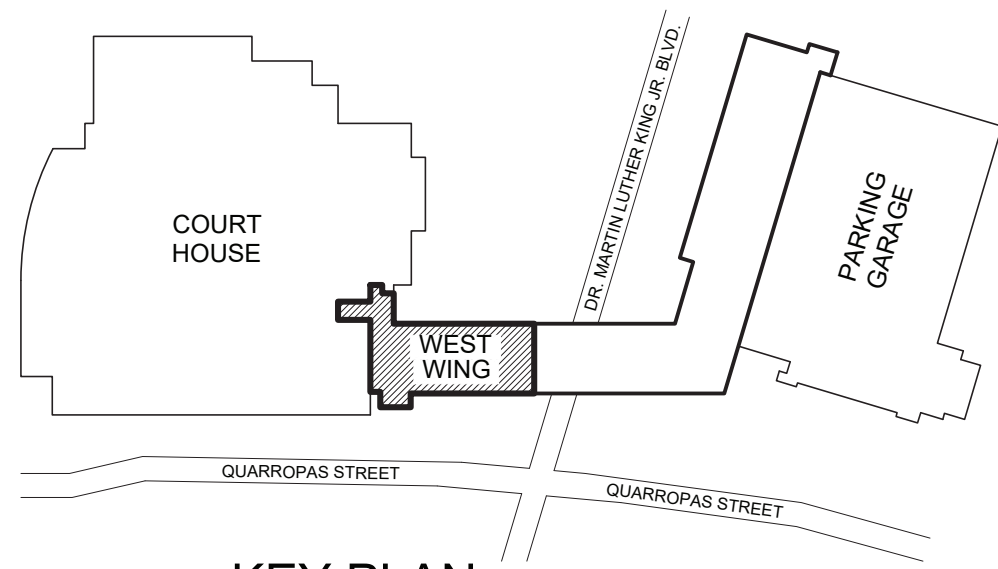
1 REBALANCE EXISTING UNIT TO NEW CFM REQUIRED.

2 REBALANCE EXISTING RETURN FAN TO NEW CFM REQUIRED

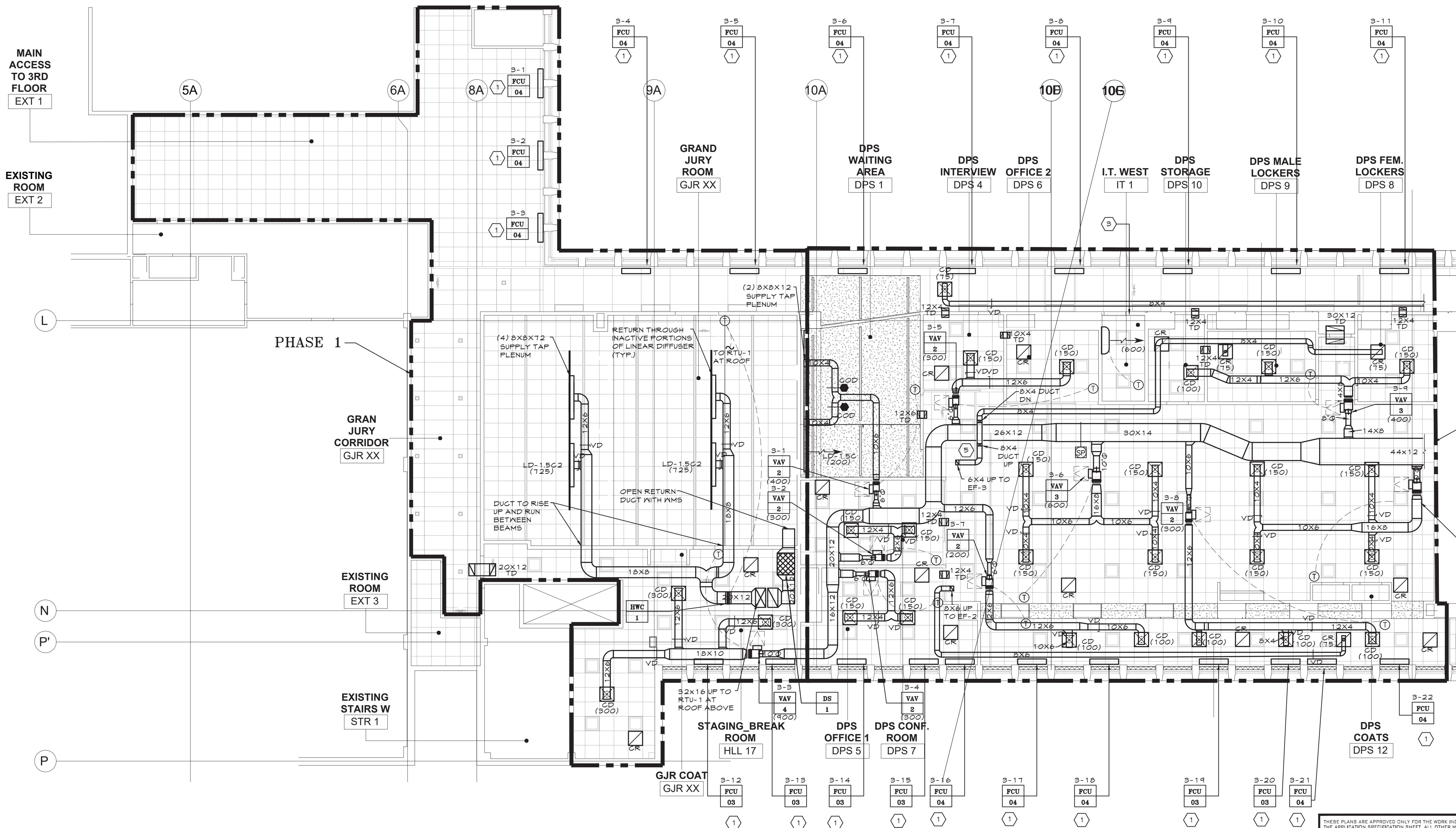
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DIVISION OF ENGINEERING		SHEET NO. 7 OF 17	SCALE: AS NOTED
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		DATE: MAY 20, 2021	DPW FILE NO.
GROUND FLOOR MECHANICAL ROOM PART PLAN		52-01-HV-557	REV NO. 0

1 GROUND FLOOR MECHANICAL ROOM
M.099 1/4"=1'-0"

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1
M.101
1/8"=1'-0"

EQUIPMENT TAG LEGEND

3-1 — *EQUIPMENT UNIQUE IDENTIFICATION TAG
VAV — VARIABLE AIR VOLUME BOX
X — VAV BOX SIZE DESIGNATION. SEE SCHEDULE ON DWS M-010

3-1 — *EQUIPMENT UNIQUE IDENTIFICATION TAG
FCU — FAN COIL UNIT
X — FAN COIL UNIT SIZE DESIGNATION. SEE SCHEDULE ON DWS M-010

*ALL TAGS ARE SUGGESTED NUMBERING SYSTEMS TO ILLUSTRATE INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL UNIQUE NAMING CONVENTIONS AND NUMBERING OF ALL EQUIPMENT IN COORDINATION WITH BUILDING STANDARDS.

GENERAL NOTES

- ALL DUCTWORK TO BE WRAPPED WITH EXTERNAL INSULATION PER DUCT INSULATION SCHEDULE ON DWS M-011 AND SPECIFICATION SECTION 230100. DO NOT PROVIDE DUCTWORK WITH INTERNAL LINING.
- PHASING ZONES ARE INDICATED ON THE DRAWINGS FOR PHASING INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT SEQUENCE FOR ACHIEVING SPECIFIED PHASING. PROTECT ALL UNFINISHED PIPING AND DUCTWORK LEFT OPEN BETWEEN PHASES WITH PLASTIC PROTECTIVE COVERINGS TO PREVENT DUST AND DEBRIS ACCUMULATION. PROVIDE TEMPORARY COOLING AND HEATING AS REQUIRED TO CONDITION SPACES INTENDED TO BE OCCUPIED PRIOR TO COMPLETION OF SYSTEM TIE INS. SYSTEMS IN PHASE 1 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 2. SYSTEMS IN PHASES 3 AND 4 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 6.

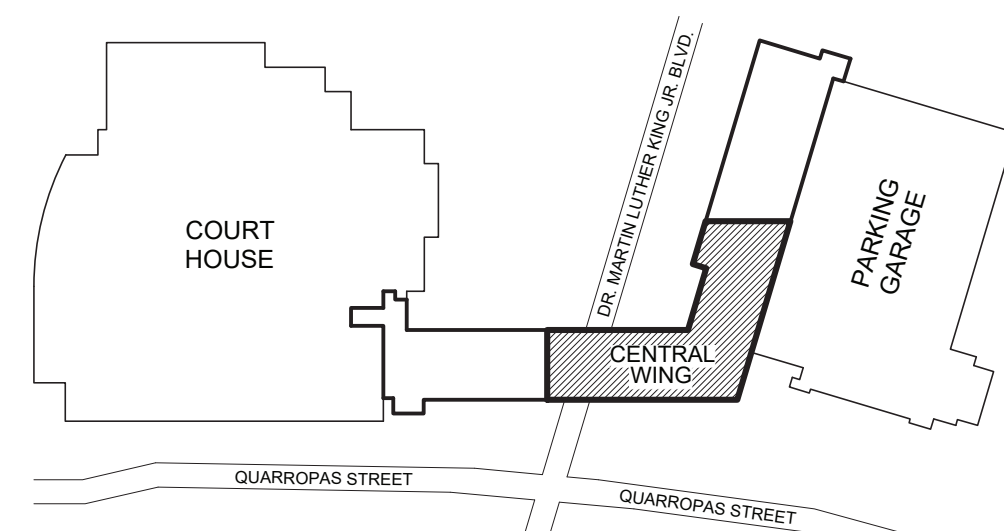
COOLING/HEATING LOADS BY PHASE:
PHASE 1:
GRAND JURY ROOM:
COOLING: 42 MBH
HEATING: 36 MBH
NORTH WING:
COOLING: 235 MBH
HEATING: 67 MBH
PHASE 2:
COOLING: 235 MBH
HEATING: 58 MBH
PHASE 3:
COOLING: 227 MBH
HEATING: 40 MBH
PHASE 4:
COOLING: 180 MBH
HEATING: 49 MBH
PHASE 5:
COOLING: 105 MBH
HEATING: 22 MBH
PHASE 6:
COOLING: 36 MBH
HEATING: 10 MBH
PHASE 7:
COOLING: 23 MBH
HEATING: 7 MBH

KEY NOTES

- NEW FAN COIL IN PLACE OF EXISTING. EXTEND NEW PIPING FROM EXISTING BRANCH PIPING AT MAINS. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 AND 3 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS. SEE ARCHITECTURAL PLANS FOR ENCLOSURE DETAIL.
- NEW FAN COIL IN NEW LOCATION. PROVIDE NEW PIPING CONNECTIONS TO EXISTING MAINS AND EXTEND TO NEW UNIT. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 AND 3 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS.
- PROVIDE NEW SPLIT SYSTEM FOR I.T. ROOM. INCLUDING WALL MOUNTED INDOOR UNIT AND ROOF MOUNTED CONDENSING UNIT. PROVIDE ALL REFRIGERANT PIPING, WIRING AND CONTROLS FOR A COMPLETE SYSTEM. UNIT SIZE/CAPACITIES TO BE DETERMINED PENDING FINAL IT COOLING REQUIREMENTS.
- PROVIDE LINE VOLTAGE COOLING ONLY THERMOSTAT FOR EXHAUST FAN.
- DUCT TO RISE AND RUN TIGHT TO SLAB BETWEEN BEAMS.

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DIVISION OF ENGINEERING		SHEET NO. 8 OF 17	SCALE: AS NOTED
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		DATE: MAY 20, 2021	DPW FILE NO.
MECHANICAL PLAN - 3RD FLOOR WEST WING		52-01-HV-558	REV NO. 0

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K KEY PLAN
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EQUIPMENT TAG LEGEND

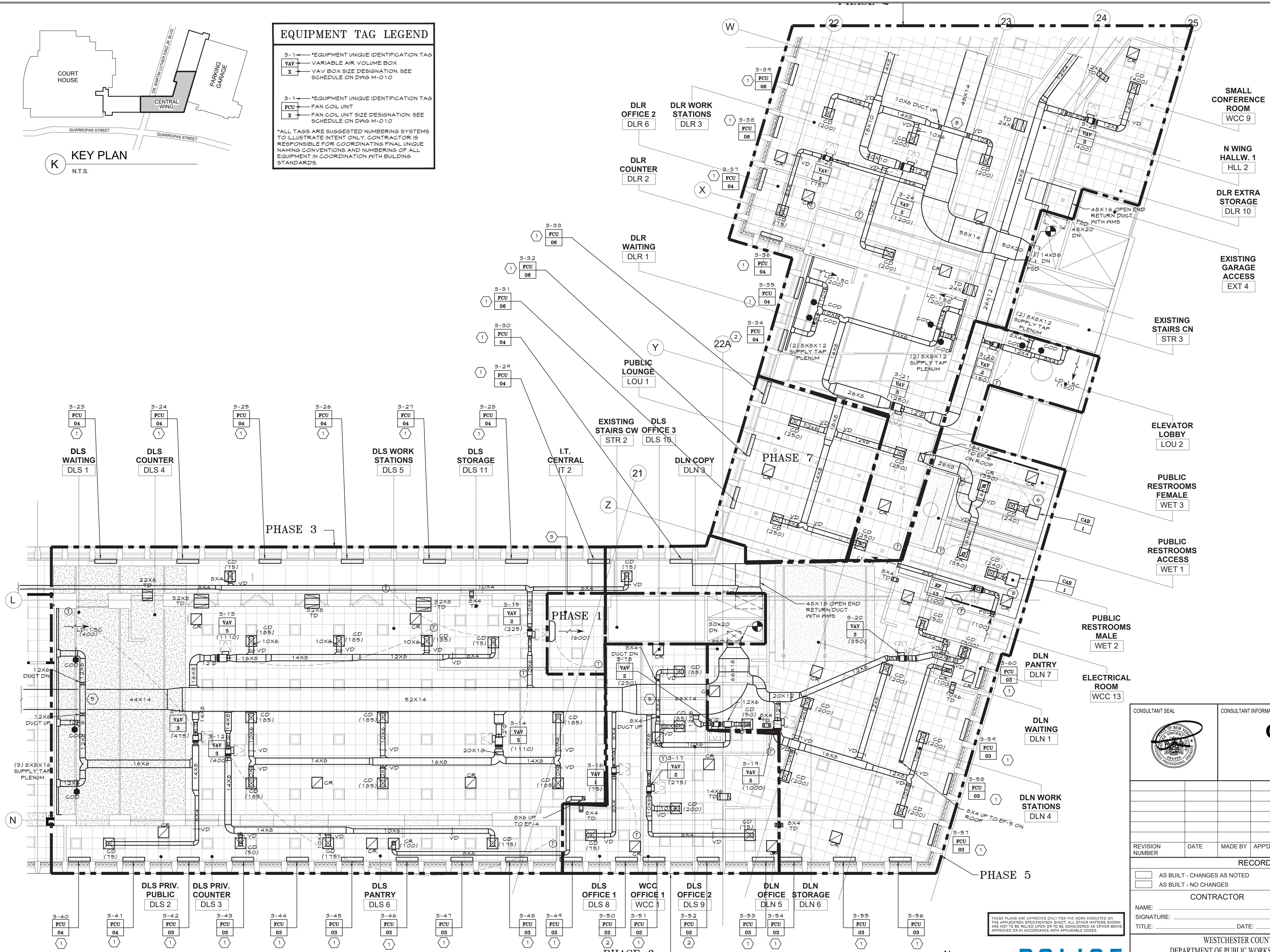
3-1 *EQUIPMENT UNIQUE IDENTIFICATION TAG

VAV VARIABLE AIR VOLUME BOX
X VAV BOX SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010

3-1 *EQUIPMENT UNIQUE IDENTIFICATION TAG

FCU FAN COIL UNIT
X FAN COIL UNIT SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010

*ALL TAGS ARE SUGGESTED NUMBERING SYSTEMS TO ILLUSTRATE INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL UNIQUE NAMING CONVENTIONS AND NUMBERING OF ALL EQUIPMENT IN COORDINATION WITH BUILDING STANDARDS.



GENERAL NOTES

1. PHASING ZONES ARE INDICATED ON THE DRAWINGS FOR PHASING INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT SEQUENCE FOR ACHIEVING SPECIFIED PHASING. PROTECT ALL UNFINISHED PIPING AND DUCTWORK LEFT OPEN BETWEEN PHASES WITH PLASTIC PROTECTIVE COVERING TO PREVENT DUST AND DEBRIS ACCUMULATION. PROVIDE TEMPORARY COOLING AND HEATING AS REQUIRED TO CONDITION SPACES INTENDED TO BE OCCUPIED PRIOR TO COMPLETION OF SYSTEM TIE INS. SYSTEMS IN PHASE 1 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 2. SYSTEMS IN PHASES 3 AND 4 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 6.

COOLING/HEATING LOADS BY PHASE:

PHASE 1:
GRAND JURY ROOM:
COOLING: 42 MBH
HEATING: 56 MBH

NORTH WING:
COOLING: 235 MBH
HEATING: 67 MBH

PHASE 2:
COOLING: 235 MBH
HEATING: 58 MBH

PHASE 3:
COOLING: 227 MBH
HEATING: 40 MBH

PHASE 4:
COOLING: 180 MBH
HEATING: 49 MBH

PHASE 5:
COOLING: 105 MBH
HEATING: 22 MBH

PHASE 6:
COOLING: 36 MBH
HEATING: 10 MBH

PHASE 7:
COOLING: 23 MBH
HEATING: 7 MBH

KEY NOTES

1 NEW FAN COIL IN PLACE OF EXISTING. EXTEND NEW PIPING FROM EXISTING BRANCH PIPING AT MAINS. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 AND 3 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS. SEE ARCHITECTURAL PLANS FOR ENCLOSURE DETAIL.

2 NEW FAN COIL IN NEW LOCATION. PROVIDE NEW PIPING CONNECTIONS TO EXISTING MAINS AND EXTEND TO NEW UNIT. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 AND 3 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS.

3 PROVIDE NEW SPLIT SYSTEM FOR IT ROOM INCLUDING WALL MOUNTED INDOOR UNIT AND ROOF MOUNTED CONDENSING UNIT. PROVIDE ALL REFRIGERANT PIPING, WIRING AND CONTROLS FOR A COMPLETE SYSTEM. UNIT SIZE/CAPACITIES TO BE DETERMINED PENDING FINAL IT COOLING REQUIREMENTS.

4 PROVIDE LINE VOLTAGE COOLING ONLY THERMOSTAT FOR EXHAUST FAN.

5 DUCT TO RISE AND RUN TIGHT TO SLAB BETWEEN BEAMS.

6 EXISTING FLOOR MOUNTED CABINET HEATER TO BE REPLACED WITH NEW CEILING CONCEALED CABINET HEATER.

1 MECHANICAL PLAN - 3RD FLOOR CENTRAL WING
1/8"=1'-0"

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		Graf & Lewent Architects LLP 90-30 161st Street, Jamaica, NY 11432 P: 718-651-6200 F: 718-251-6989	
REVISION NUMBER	DATE	MADE BY	APP'D BY
RECORD DRAWING CERTIFICATION			
CONTRACTOR		CONTRACTOR	
NAME: _____		NAME: _____	
SIGNATURE: _____		SIGNATURE: _____	
TITLE: _____		TITLE: _____	
DATE: _____		DATE: _____	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			
DIVISION OF ENGINEERING			
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601			
MECHANICAL PLAN - 3RD FLOOR CENTRAL WING		CONTRACT NUMBER 19-514	SHEET NUMBER M-102
		SHEET NO. 9 OF 17	
		SCALE: AS NOTED	
		DATE: MAY 20, 2021	
		DPW FILE NO.	REV NO. 0
		52-01-HV-559	

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KEY PLAN
N.T.S.

EQUIPMENT TAG LEGEND

- 3-1 *EQUIPMENT UNIQUE IDENTIFICATION TAG
VAV VARIABLE AIR VOLUME BOX
X VAV BOX SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010
- 3-1 *EQUIPMENT UNIQUE IDENTIFICATION TAG
FCU FAN COIL UNIT
X FAN COIL UNIT SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010
- *ALL TAGS ARE SUGGESTED NUMBERING SYSTEMS TO ILLUSTRATE INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL UNIQUE NAMING CONVENTIONS AND NUMBERING OF ALL EQUIPMENT IN COORDINATION WITH BUILDING STANDARDS.

GENERAL NOTES

1. PHASING ZONES ARE INDICATED ON THE DRAWINGS FOR PHASING INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT SEQUENCE FOR ACHIEVING SPECIFIED PHASING. PROTECT ALL UNFINISHED PIPING AND DUCTWORK LEFT OPEN BETWEEN PHASES WITH PLASTIC PROTECTIVE COVERING TO PREVENT DUST AND DEBRIS ACCUMULATION. PROVIDE TEMPORARY COOLING AND HEATING AS REQUIRED TO CONDITION SPACES INTENDED TO BE OCCUPIED PRIOR TO COMPLETION OF SYSTEM TIE INS. SYSTEMS IN PHASE 1 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 2. SYSTEM IN PHASES 3 AND 4 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 6.
- COOLING/HEATING LOADS BY PHASE:
- PHASE 1:
GRAND JURY ROOM:
COOLING: 42 MBH
HEATING: 36 MBH
NORTH WING:
COOLING: 235 MBH
HEATING: 67 MBH
PHASE 2:
COOLING: 235 MBH
HEATING: 58 MBH
PHASE 3:
COOLING: 227 MBH
HEATING: 40 MBH
PHASE 4:
COOLING: 180 MBH
HEATING: 49 MBH
PHASE 5:
COOLING: 105 MBH
HEATING: 22 MBH
PHASE 6:
COOLING: 36 MBH
HEATING: 10 MBH
PHASE 7:
COOLING: 23 MBH
HEATING: 7 MBH

KEY NOTES

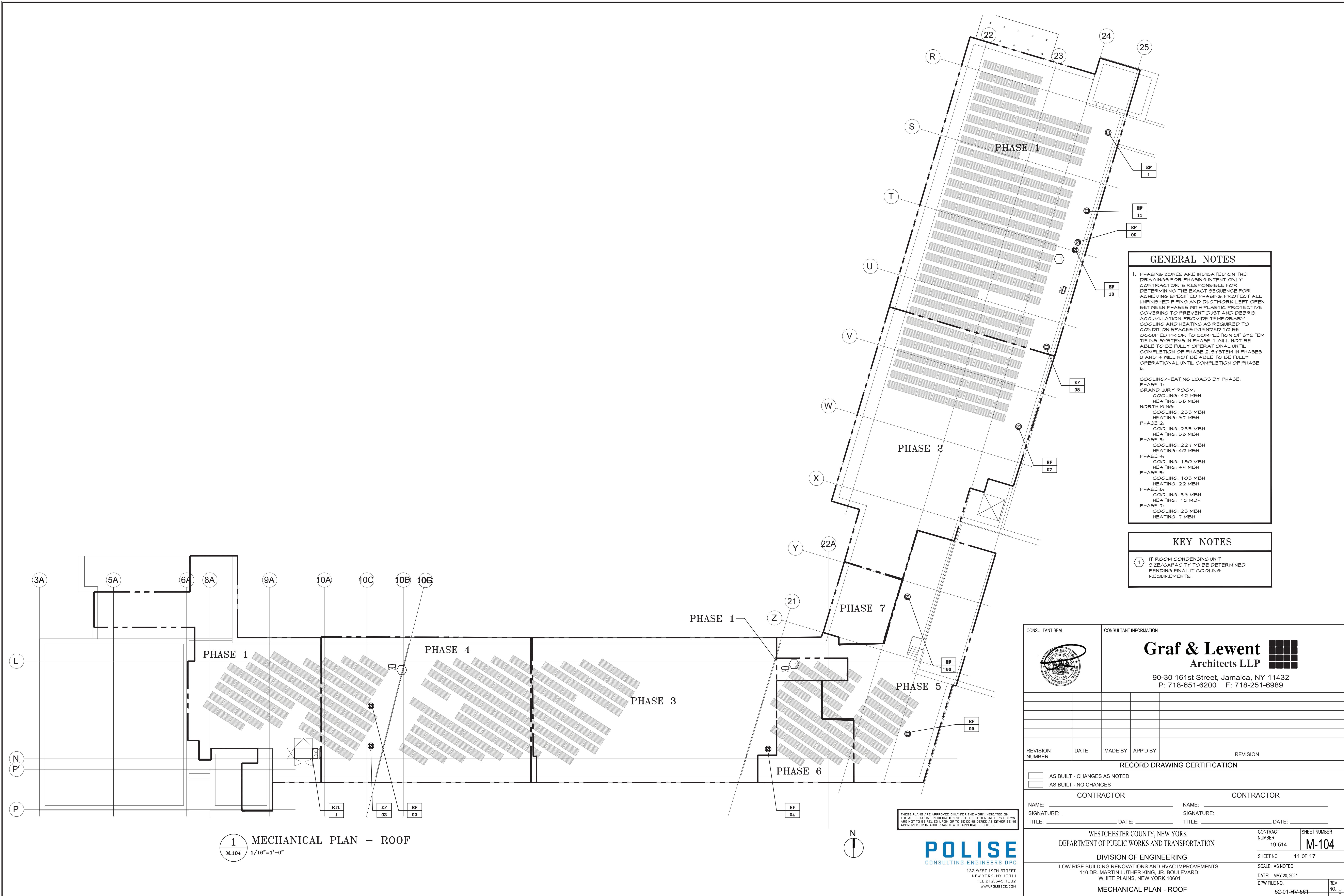
1. NEW FAN COIL IN PLACE OF EXISTING. EXTEND NEW PIPING FROM EXISTING BRANCH PIPING AT MAINS. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 AND 3 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS. SEE ARCHITECTURAL PLANS FOR ENCLOSURE DETAIL.
2. NEW FAN COIL IN NEW LOCATION. PROVIDE NEW PIPING CONNECTIONS TO EXISTING MAINS AND EXTEND TO NEW UNIT. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 AND 3 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS.
3. PROVIDE NEW SPLIT SYSTEM FOR IT ROOM INCLUDING WALL MOUNTED INDOOR UNIT AND ROOF MOUNTED CONDENSING UNIT. PROVIDE ALL REFRIGERANT PIPING, WIRING AND CONTROLS FOR A COMPLETE SYSTEM. UNIT SIZE/CAPACITIES TO BE DETERMINED PENDING FINAL IT COOLING REQUIREMENTS.
4. PROVIDE LINE VOLTAGE COOLING ONLY THERMOSTAT FOR EXHAUST FAN.
5. DUCT TO RISE AND RUN TIGHT TO SLAB BETWEEN BEAMS.

1 MECHANICAL PLAN - 3RD FLOOR NORTH WING
M.103 1/8"=1'-0"

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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DIVISION OF ENGINEERING		SHEET NO. 10 OF 17																										
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		SCALE: AS NOTED																										
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DATE: MAY 20, 2021																										
WHITE PLAINS, NEW YORK 10601		DPW FILE NO. 52-01-HV-560																										
MECHANICAL PLAN - 3RD FLOOR NORTH WING		REV NO. 0																										



GENERAL NOTES

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COOLING/HEATING LOADS BY PHASE:

PHASE 1:
GRAND JURY ROOM:
COOLING: 42 MBH
HEATING: 36 MBH
NORTH WING:
COOLING: 235 MBH
HEATING: 67 MBH
PHASE 2:
COOLING: 235 MBH
HEATING: 58 MBH
PHASE 3:
COOLING: 227 MBH
HEATING: 40 MBH
PHASE 4:
COOLING: 180 MBH
HEATING: 49 MBH
PHASE 5:
COOLING: 105 MBH
HEATING: 22 MBH
PHASE 6:
COOLING: 36 MBH
HEATING: 10 MBH
PHASE 7:
COOLING: 23 MBH
HEATING: 7 MBH

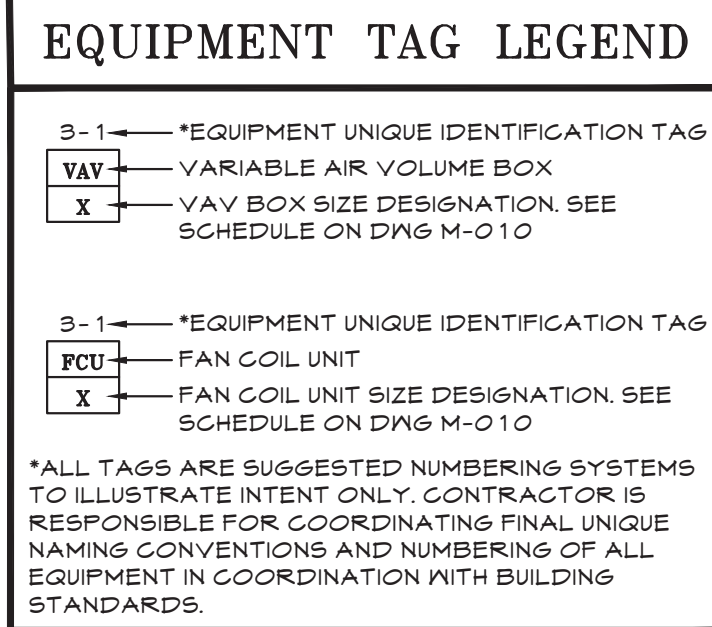
KEY NOTES

1. IT ROOM CONDENSING UNIT SIZE/CAPACITY TO BE DETERMINED PENDING FINAL IT COOLING REQUIREMENTS.

1 MECHANICAL PLAN - ROOF
M.104 1/16"=1'-0"

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514																										
DIVISION OF ENGINEERING		SHEET NUMBER M-104																										
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SHEET NO. 11 OF 17																										
MECHANICAL PLAN - ROOF		SCALE: AS NOTED DATE: MAY 20, 2021 DPW FILE NO. 52-01-HV-561																										
		REV NO. 0																										

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GENERAL NOTES

PHASING ZONES ARE INDICATED ON THE DRAWINGS. FOR PHASING INTENT ONLY, CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT SEQUENCE FOR ACHIEVING SMOOTH PHASING. PROTECT ALL UNFINISHED PIPING AND DUCTWORK LEFT OPEN BETWEEN PHASES WITH PLASTIC PROTECTIVE COVERING TO PREVENT DUST AND DEBRIS ACCUMULATION. PROVIDE TEMPORARY COOLING AND HEATING AS REQUIRED TO CONDITION SPACES INTENDED TO BE OCCUPIED PRIOR TO COMPLETION OF SYSTEM TIE-IN. SYSTEM PHASE 1 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 2. SYSTEM IN PHASES 3 AND 4 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 6.

COOLING/HEATING LOADS BY PHASE:

PHASE 1:
GRAND JURY ROOM:
COOLING: 42 MBH
HEATING: 36 MBH

NORTH WING:
COOLING: 235 MBH
HEATING: 67 MBH

PHASE 2:
COOLING: 235 MBH
HEATING: 55 MBH

PHASE 3:
COOLING: 272 MBH
HEATING: 40 MBH

PHASE 4:
COOLING: 180 MBH
HEATING: 44 MBH

PHASE 5:
COOLING: 105 MBH
HEATING: 22 MBH

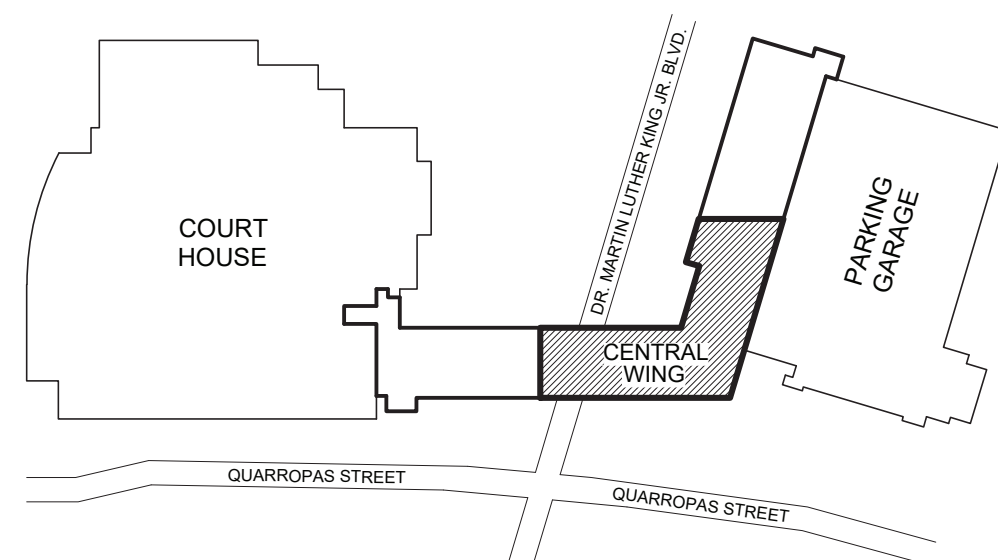
PHASE 6:
COOLING: 36 MBH
HEATING: 10 MBH

PHASE 7:
COOLING: 29 MBH
HEATING: 7 MBH

KEY NOTES

- 1 NEW FAN COIL IN PLACE OF EXISTING. EXTEND NEW PIPING FROM EXISTING BRANCH PIPING AT MAINS. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS.
- 2 NEW FAN COIL IN NEW LOCATION. PROVIDE NEW PIPING CONNECTIONS TO EXISTING MAINS AND EXTEND TO NEW UNIT. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS.
- 3 PROVIDE NEW ISOLATION VALVES AT EXISTING RISERS.
- 4 PROVIDE NEW BMS CONTROL VALVE FOR HW RADIATION ON EXISTING RETURN PIPING.
- 5 EXISTING FIN TUBE IS IN CONFLICT WITH NEW WALL. TRIM EXISTING AND FINS AT NEW WALL AND INSULATE EXISTING PIPING AT WALL PENETRATION.
- 6 PROVIDE NEW FIN TUBE EXISTING FOR EXISTING FIN TUBE TO MATCH EXISTING.
- 7 RE-INSULATE ALL EXISTING SHMS/R AND SCHMS/R PIPING SERVING FAN COIL UNITS IN ITS ENTIRETY.

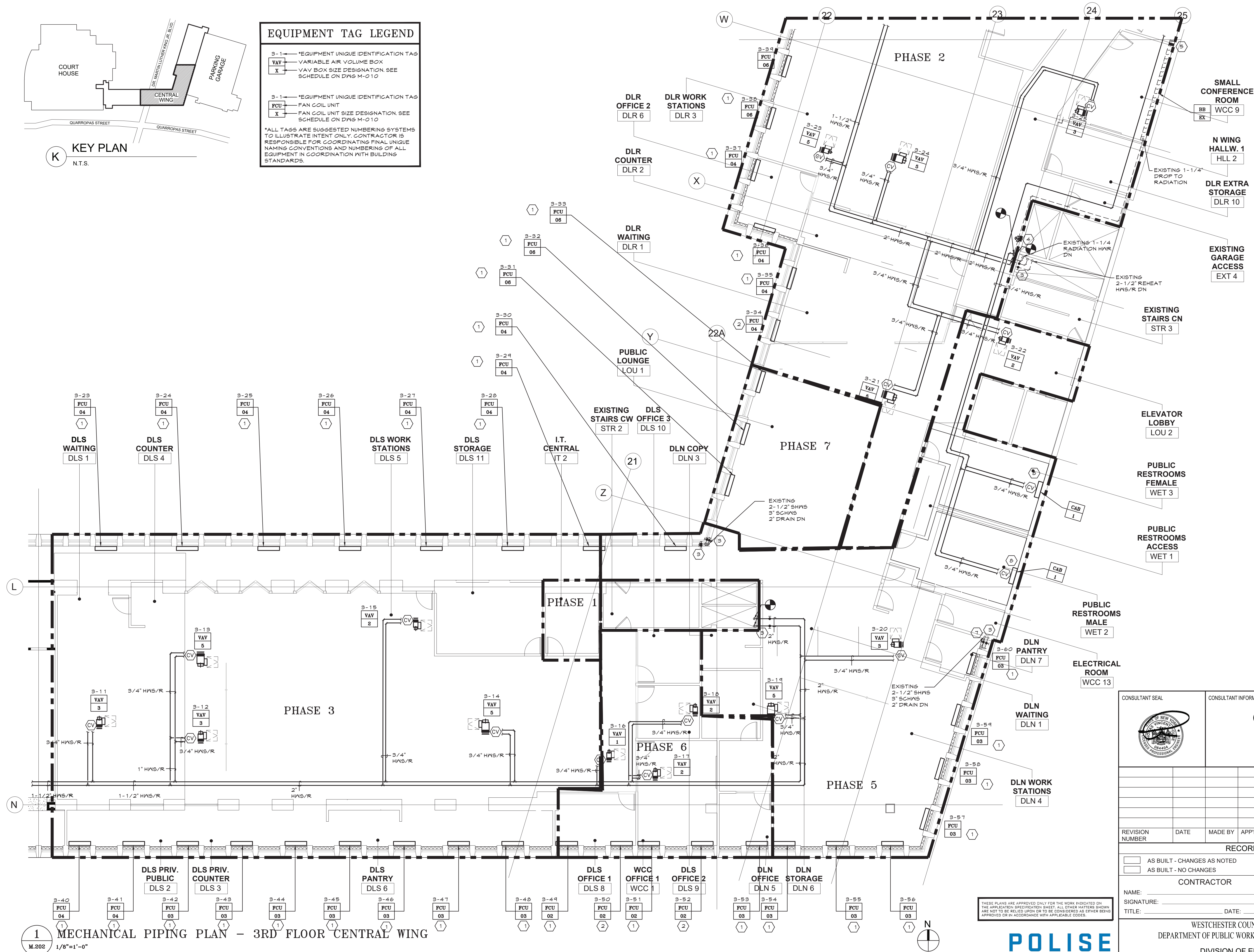




K KEY PLAN
N.T.S.

EQUIPMENT TAG LEGEND	
3-1	*EQUIPMENT UNIQUE IDENTIFICATION TAG
VAV	VARIABLE AIR VOLUME BOX
X	VAV BOX SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010
3-1	*EQUIPMENT UNIQUE IDENTIFICATION TAG
FCU	FAN COIL UNIT
X	FAN COIL UNIT SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010

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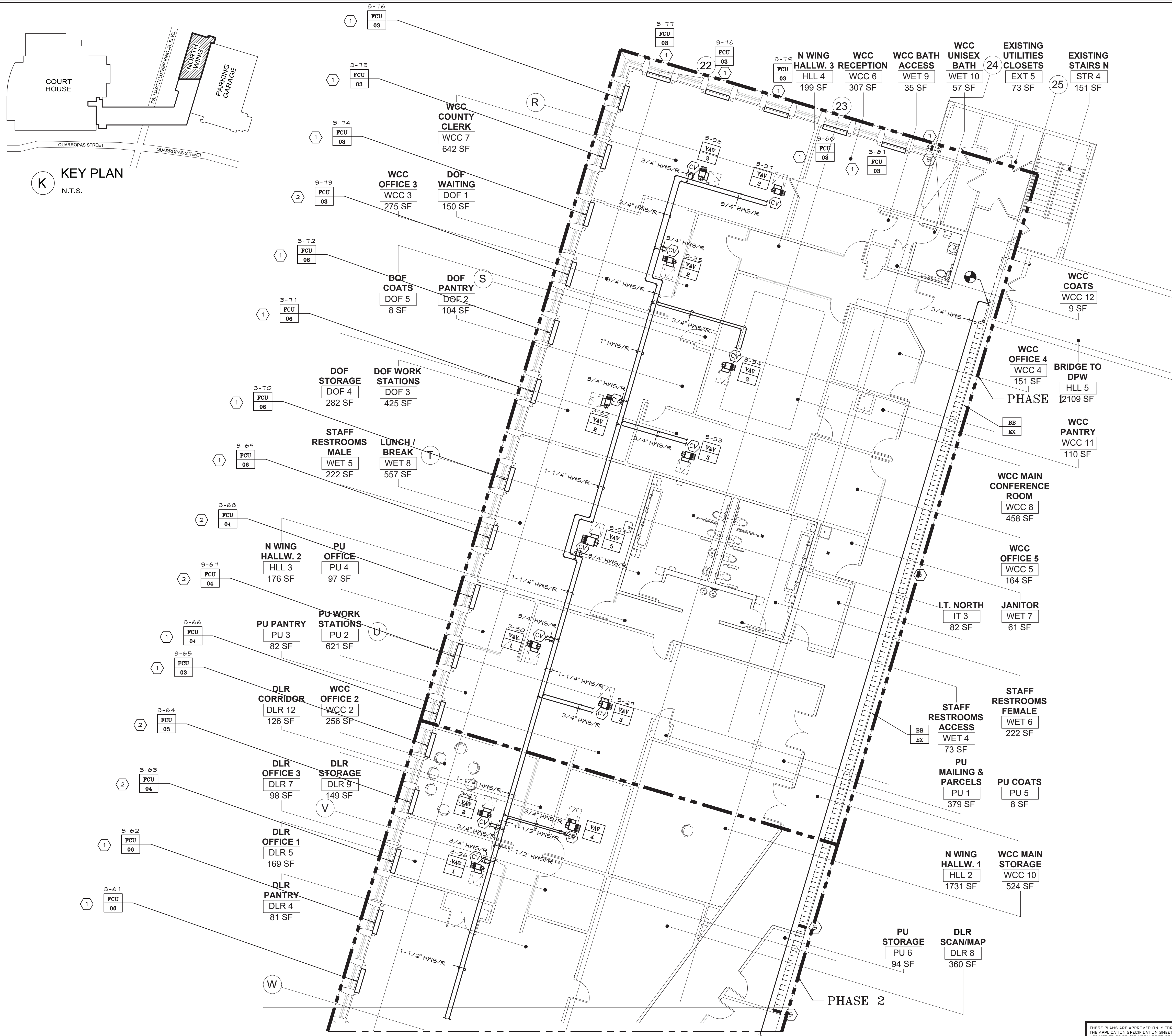


GENERAL NOTES	
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COOLING/HEATING LOADS BY PHASE:	
PHASE 1:	GRAND JURY ROOM:
	COOLING: 42 MBH
	HEATING: 36 MBH
NORTH WING:	COOLING: 235 MBH
	HEATING: 67 MBH
PHASE 2:	COOLING: 235 MBH
	HEATING: 58 MBH
PHASE 3:	COOLING: 227 MBH
	HEATING: 40 MBH
PHASE 4:	COOLING: 180 MBH
	HEATING: 49 MBH
PHASE 5:	COOLING: 105 MBH
	HEATING: 22 MBH
PHASE 6:	COOLING: 36 MBH
	HEATING: 10 MBH
PHASE 7:	COOLING: 23 MBH
	HEATING: 7 MBH

KEY NOTES	
1	NEW FAN COIL IN PLACE OF EXISTING. EXTEND NEW PIPING FROM EXISTING BRANCH PIPING AT MAINS. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 ON DRAWING M-021. PROVIDE ALL NEW BMS CONTROLS.
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3	PROVIDE NEW ISOLATION VALVES AT EXISTING RISERS.
4	PROVIDE NEW BMS CONTROL VALVE FOR HW RADIATION ON EXISTING RETURN PIPING.
5	EXISTING FIN TUBE IS IN CONFLICT WITH NEW WALL. TRIM ENCLOSURE AND FIN AT NEW WALL AND INSULATE EXISTING PIPING AT WALL PENETRATION.
6	PROVIDE NEW FIN TUBE ENCLOSURE FOR EXISTING FIN TUBE TO MATCH EXISTING.
7	RE-INSULATE ALL EXISTING SHWS/R AND SCHWS/R PIPING SERVING FAN COIL UNITS IN ITS ENTIRETY.
8	PROVIDE NEW CABINET HEATER IN PLACE OF EXISTING. SEE DETAIL 5 ON DRAWING M-021 FOR MORE DETAIL.

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MADE BY	APP'D BY
REVISION	
RECORD DRAWING CERTIFICATION	
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AS BUILT - NO CHANGES	
CONTRACTOR	
NAME:	NAME:
SIGNATURE:	SIGNATURE:
TITLE:	TITLE:
DATE:	DATE:
WESTCHESTER COUNTY, NEW YORK	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	
DIVISION OF ENGINEERING	
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS	
110 DR. MARTIN LUTHER KING, JR. BOULEVARD	
WHITE PLAINS, NEW YORK 10601	
MECHANICAL PIPING PLAN - 3RD FLOOR CENTRAL WING	
CONTRACT NUMBER	SHEET NUMBER
19-514	M-202
SHEET NO.	13 OF 17
SCALE: AS NOTED	DATE: MAY 20, 2021
DPW FILE NO.	REV NO.
52-01-HV-563	0

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EQUIPMENT TAG LEGEND

3-1 *EQUIPMENT UNIQUE IDENTIFICATION TAG

VAV X VARIABLE AIR VOLUME BOX

FCU X FAN COIL UNIT

X FAN COIL UNIT SIZE DESIGNATION. SEE SCHEDULE ON DWG M-010

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COOLING/HEATING LOADS BY PHASE:

PHASE 1:

GRAND JURY ROOM:

COOLING: 4.2 MBH

HEATING: 3.6 MBH

NORTH WING:

COOLING: 23.5 MBH

HEATING: 6.7 MBH

PHASE 2:

COOLING: 23.5 MBH

HEATING: 5.8 MBH

PHASE 3:

COOLING: 22.7 MBH

HEATING: 4.0 MBH

PHASE 4:

COOLING: 18.0 MBH

HEATING: 4.9 MBH

PHASE 5:

COOLING: 10.5 MBH

HEATING: 2.2 MBH

PHASE 6:

COOLING: 3.6 MBH

HEATING: 1.0 MBH

PHASE 7:

COOLING: 2.3 MBH

HEATING: 7 MBH

KEY NOTES

1. NEW FAN COIL IN PLACE OF EXISTING. EXTEND NEW PIPING FROM EXISTING BRANCH PIPING AT MAINS. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 ON DRAWING M-02.1. PROVIDE ALL NEW BMS CONTROLS.

2. NEW FAN COIL IN NEW LOCATION. PROVIDE NEW PIPING CONNECTIONS TO EXISTING MAINS AND EXTEND TO NEW UNIT. PROVIDE ALL NEW PIPE TRIM. SEE DETAIL 1 ON DRAWING M-02.1. PROVIDE ALL NEW BMS CONTROLS.

3. PROVIDE NEW ISOLATION VALVES AT EXISTING RISERS.

4. PROVIDE NEW BMS CONTROL VALVE FOR HW RADIATION ON EXISTING RETURN PIPING.

5. EXISTING FIN TUBE IS IN CONFLICT WITH NEW WALL. TRIM ENCLOSURE AND FINS AT NEW WALL AND INSULATE EXISTING PIPING AT WALL PENETRATION.

6. PROVIDE NEW FIN TUBE ENCLOSURE FOR EXISTING FIN TUBE TO MATCH EXISTING.

7. RE-INSULATE ALL EXISTING SHWS/R AND SCHWS/R PIPING SERVING FAN COIL UNITS IN ITS ENTIRETY.

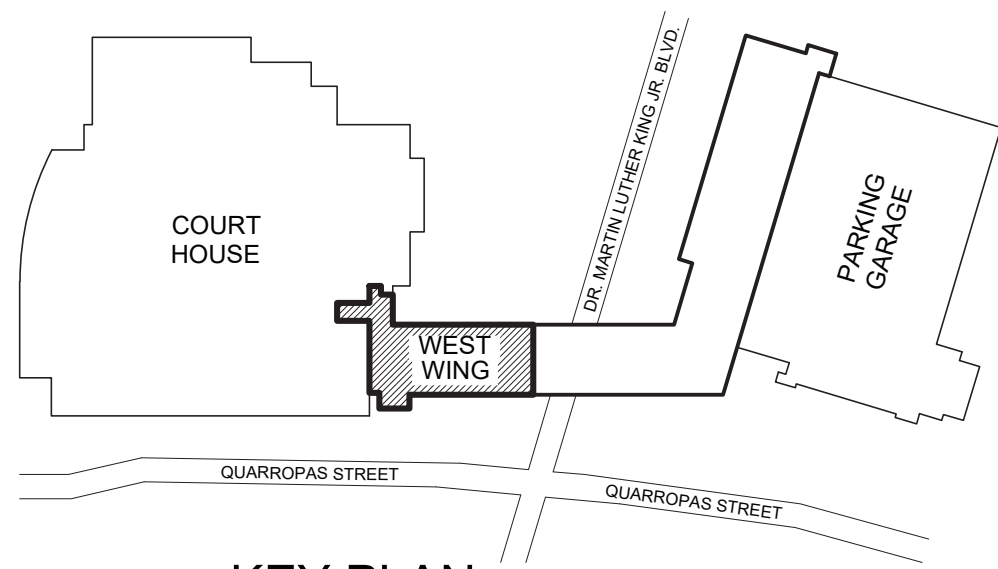
1 MECHANICAL PIPING PLAN - 3RD FLOOR NORTH WING

M.203 1/8"=1'-0"

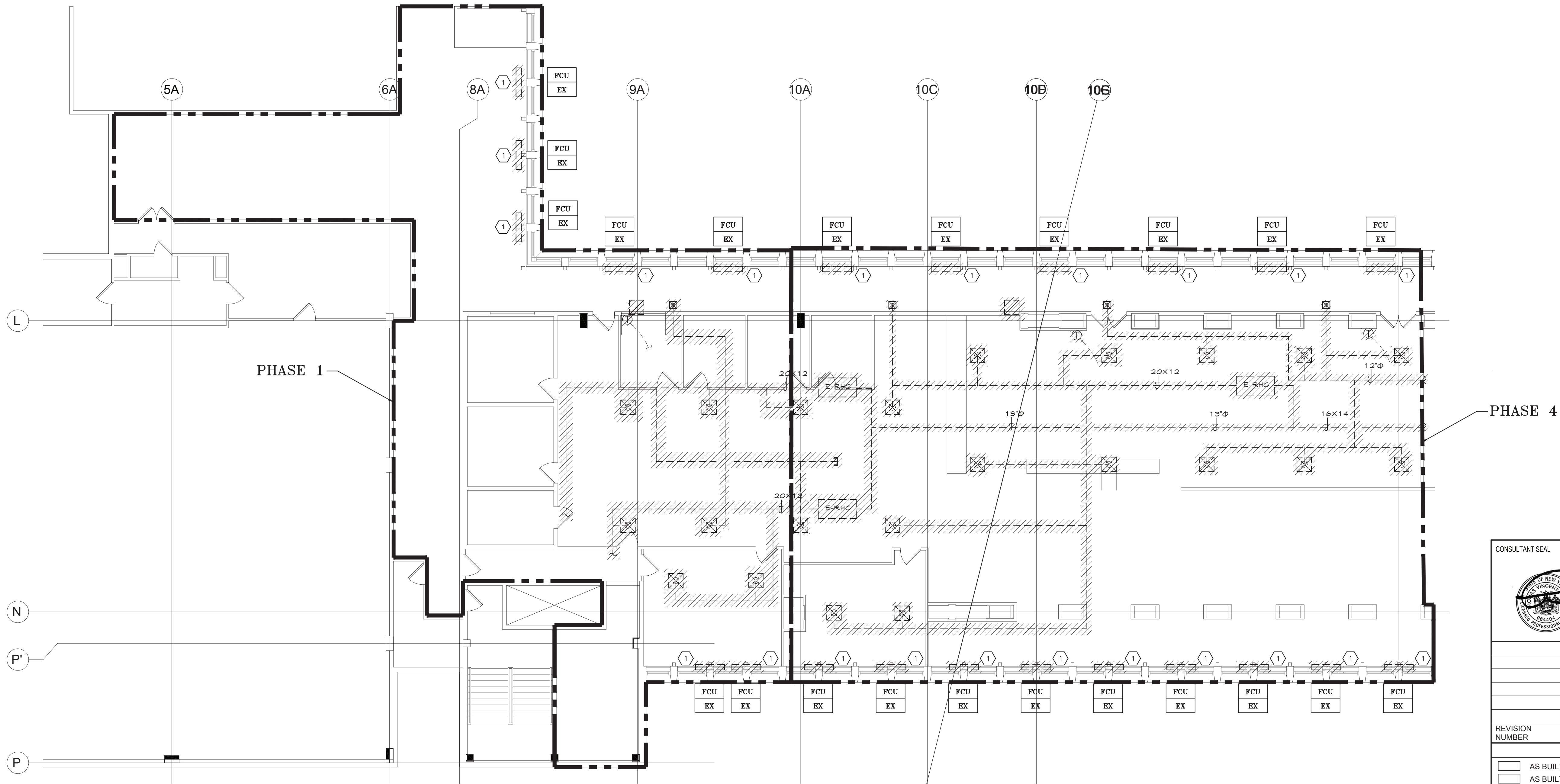
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WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER 19-514																										
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		SHEET NUMBER M-203																										
DIVISION OF ENGINEERING		SHEET NO. 14 OF 17																										
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		SCALE: AS NOTED																										
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DATE: MAY 20, 2021																										
WHITE PLAINS, NEW YORK 10601		DPW FILE NO.																										
MECHANICAL PIPING PLAN - 3RD FLOOR NORTH WING		52-01-HV-564																										
		REV NO. 0																										



K KEY PLAN
N.T.S.



GENERAL NOTES

1. PHASING ZONES ARE INDICATED ON THE DRAWINGS FOR PHASING INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT SEQUENCE FOR ACHIEVING SPECIFIED PHASING. PROTECT ALL UNFINISHED PIPING AND DUCTWORK LEFT OPEN BETWEEN PHASES WITH PLASTIC PROTECTIVE COVERING TO PREVENT DUST AND DEBRIS ACCUMULATION. PROVIDE TEMPORARY COOLING AND HEATING AS REQUIRED TO CONDITION SPACES INTENDED TO BE OCCUPIED PRIOR TO COMPLETION OF SYSTEM TIE INS. SYSTEMS IN PHASE 1 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 2. SYSTEMS IN PHASES 3 AND 4 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 6.

COOLING/HEATING LOADS BY PHASE:

PHASE 1:
GRAND JURY ROOM:
COOLING: 42 MBH
HEATING: 36 MBH
NORTH WING:
COOLING: 235 MBH
HEATING: 67 MBH
PHASE 2:
COOLING: 235 MBH
HEATING: 50 MBH
PHASE 3:
COOLING: 227 MBH
HEATING: 40 MBH
PHASE 4:
COOLING: 180 MBH
HEATING: 49 MBH
PHASE 5:
COOLING: 105 MBH
HEATING: 22 MBH
PHASE 6:
COOLING: 36 MBH
HEATING: 10 MBH
PHASE 7:
COOLING: 23 MBH
HEATING: 7 MBH

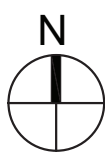
DEMOLITION NOTES

1. EXISTING FAN COIL UNIT TO BE REMOVED AND REPLACED WITH NEW. REMOVE ALL ASSOCIATED CONTROLS.

THE EXISTING FLOOR IS BEING GUT RENOVATED. REMOVE ALL EXISTING DUCTWORK, CONSTANT VOLUME REHEAT COILS, HOT WATER SUPPLY AND RETURN PIPING, AND CONTROLS BACK TO MAINS AND CAP. REMOVE ALL EXISTING PERIMETER FAN COIL UNITS AND PIPING BACK TO HORIZONTAL MAINS AND CAP.

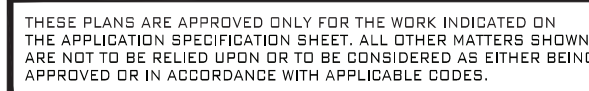
CONSULTANT SEAL		CONSULTANT INFORMATION	
		Graf & Lewent Architects LLP 90-30 161st Street, Jamaica, NY 11432 P: 718-651-6200 F: 718-251-6989	
REVISION NUMBER		DATE	MADE BY
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WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		19-514	
DIVISION OF ENGINEERING		SHEET NUMBER	
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		15 OF 17	
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		SCALE: AS NOTED	
WHITE PLAINS, NEW YORK 10601		DATE: MAY 20, 2021	
MECHANICAL DEMOLITION PLAN - 3RD FLOOR WEST WING		DPW FILE NO.	
52-01-HV-565		REV NO. 0	

1 MECHANICAL DEMOLITION PLAN - 3RD FLOOR WEST WING
M.901 1/8"=1'-0"



THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

POLISE
CONSULTING ENGINEERS DPC
133 WEST 19TH STREET
NEW YORK, NY 10011
TEL 212.645.1002
WWW.POLISECO.COM



THE EXISTING FLOOR IS BEING GUT
RENOVATED. REMOVE ALL EXISTING
DUCTWORK, CONSTANT VOLUME REHEAT
COILS, HOT WATER SUPPLY AND RETURN
PIPING, AND CONTROLS BACK TO MAINS
AND CAP. REMOVE ALL EXISTING
PERIMETER FAN COIL UNITS AND PIPING
BACK TO HORIZONTAL MAINS AND CAP.

CONSULTANT SEAL



CONSULTANT INFORMATION

Graf & Lewent

Architects LLP

90-30 161st Street, Jamaica, NY 11432
P: 718-651-6200 F: 718-251-6989

REVISION NUMBER	DATE	MADE BY	APPD BY	REVISION
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RECORD DRAWING CERTIFICATION

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☐ AS BUILT - NO CHANGES

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TITLE: _____ DATE: _____	TITLE: _____ DATE: _____

WESTCHESTER COUNTY, NEW YORK

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK 10601

MECHANICAL DEMOLITION PLAN - 3RD FLOOR CENTRAL WING

CONTRACT
NUMBER
19-514

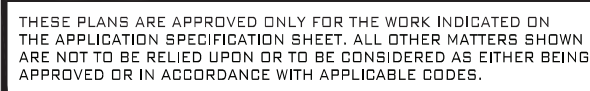
SHEET NUMBER

M-902

SHEET NO. 16 OF 17

SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO.
52-01-HV-566

REV NO.



1. PHASING ZONES ARE INDICATED ON THE DRAWINGS FOR PHASING INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT SEQUENCE FOR PHASING SCHEDULE. CONTRACT ALL UNFINISHED PIPING AND DUCTWORK LEFT OPEN BETWEEN PHASES WITH PLASTIC PROTECTIVE COVERING TO PREVENT DUST AND DEBRIS ACCUMULATION. PROVIDE TEMPERATURE COOLING AND HEATING AS REQUIRED TO CONDITION SPACES INTENDED TO BE OCCUPIED PRIOR TO COMPLETION OF SYSTEM. 2. SYSTEM SHALL BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 2. SYSTEM IN PHASES 3 AND 4 WILL NOT BE ABLE TO BE FULLY OPERATIONAL UNTIL COMPLETION OF PHASE 6.

COOLING/HEATING LOADS BY PHASE

GRAND JURY ROOM:

COOLING: 42 ME

NORTH WING:

COOLING: 235 N

PHASE 2:

COOLING: 235 N
HEATING: 50 MP

PHASE 3:

COOLING: 227 M
HEATING: 10 ME

PHASE 4:

COOLING: 180 N
HEATING: 18 MB

PHASE 5:

COOLING: 105 M
HEATING: 22 MB

PHASE 6:

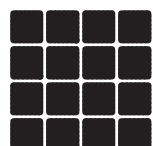
COOLING: 36 ME
HEATING: 12 ME

PHASE 7:

COOLING: 23 MBH
HEATING: 7 MBH

1 EXISTING FAN COIL UNIT TO BE REMOVED AND REPLACED WITH NEW. REMOVE ALL ASSOCIATED CONTROLS

THE EXISTING FLOOR IS BEING GUT RENOVATED. REMOVE ALL EXISTING DUCTWORK, CONSTANT VOLUME REHEAT COILS, HOT WATER SUPPLY AND RETURN PIPING, AND CONTROLS BACK TO MAINS AND CAP. REMOVE ALL EXISTING PERIMETER FAN COIL UNITS AND PIPING BACK TO HORIZONTAL MAINS AND CAP.

CONSULTANT SEAL 	CONSULTANT INFORMATION Graf & Lewent Architects LLP  90-30 161st Street, Jamaica, NY 11432 P: 718-651-6200 F: 718-251-6989									
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