

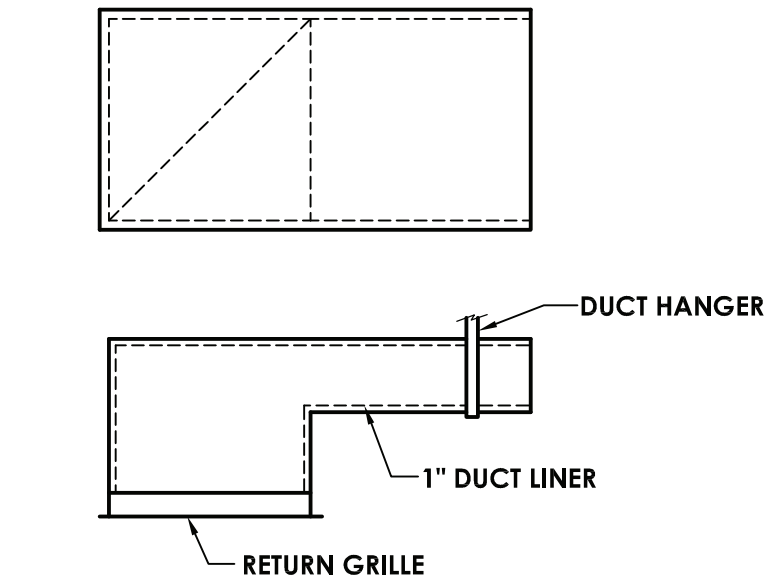
HVAC SYMBOLS LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DOUBLE WALL LINED DUCT		AAD AUTOMATIC AIR DAMPER
	DUCT SECTION - SUPPLY		ACC AIR-COOLED CONDENSING UNIT
	ACCESS DOOR		AD ACCESS DOOR
	ACCESS TRIMMED FLOOR		AHU AIR HANDLING UNIT
	DUCT SECTION - RETURN/EXHAUST		AHU AIR HANDLING UNIT
	DUCT SECTION - ROUND DUCT IN INCHES		RBD ROLLER BLOW DOWN
	DUCT SECTION - FLAT OVAL DUCT IN INCHES		BD BACKDRAFT DAMPER
	ACOUSTIC THERMAL LINING		CW CONDENSER WATER RETURN
	FLEXIBLE DUCTWORK		CS CONDENSER WATER SUPPLY
	FLEXIBLE CONNECTION		CW DOMESTIC COLD WATER
	FIRE DAMPER		EX EXISTING
	SMOKE DAMPER		EA EXHAUST AIR
	COMBINATION FIRE AND SMOKE DAMPER		EF EXHAUST FAN
	VOLUME DAMPER		ER EXISTING TO REMAIN
	AIR DUCT		GC GENERAL CONTRACTOR
	AIR DUCT		HVC HVAC CONTRACTOR
	MULTI-BLADE AIR EXTRACTOR		LPC LOW PRESSURE CONDENSATE
	TURNING VANES		LPS LOW PRESSURE STEAM
	EXISTING WORK TO BE REMOVED (HATCHED)		MC MECHANICAL CONTRACTOR
	POINT OF CONNECTION		NC NORMALLY CLOSED
	POINT OF DISCONNECTION		NO NORMALLY OPEN
	TRANSITION SQUARE TO ROUND		NS NOT TO SCALE
	ROUNDER DIFFUSER		OA OUTSIDE AIR
	SQUARE CEILING DIFFUSER (4-WAY)		PC PLUMBING CONTRACTOR
	SQUARE CEILING DIFFUSER		RA RETURN AIR
	SQUARE OR RECTANGULAR CEILING GRILLE		RTO ROOF/TOP UNIT
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		RV ROOF VENE
	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY		SA SUPPLY AIR
	CEILING DIFFUSER WITH NECK SIZE TYPE A, CFM		TCC TEMPERATURE CONTROLS CONTRACTOR
	CEILING RETURN OR EXHAUST GRILLE WITH SIZE TYPE A, CFM		UH UNIT HEATER
	SUPPLY REGISTER WITH SIZE TYPE A, CFM		UV UNIT VENTILATOR
	RETURN OR EXHAUST GRILLE WITH SIZE TYPE A, CFM		V VENE
	AIR FLOW		
	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK		
	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK		
	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK		
	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK		
	SPACE TEMPERATURE SENSOR		

SYMBOLS GENERAL NOTES:

- 1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.
- HVAC CONTRACTOR GENERAL NOTES:
- A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.
- B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING, THE EXISTING CEILING SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.
- C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.
- E. BEFORE DISCONNECTING, REMOVING, OR SERVING ANY AIR-CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.
- F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWINGS FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.
- G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE UNITS PER UNIT SCHEDULE.
- H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM.
- I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

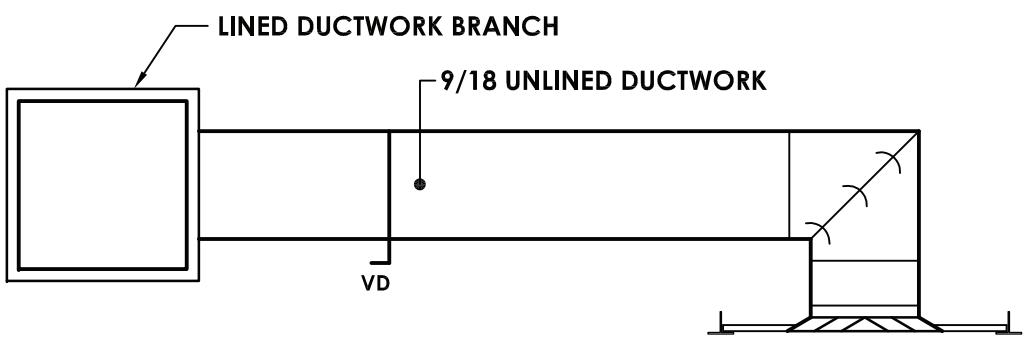
GEORGE FISHER LIBRARY RENOVATION									
		TOTAL	O.A. PER	O.A. PER					
		FOR	PERSON	SQ. FT.	Vbz				
ROOM NAME	SQ. FT.	VENTILATION	(CFM)	(CFM)	(CFM)	Ez			Voz=Vot
LIBRARY	4725	48	5	0.12	807	0.8		1009	
BREAKOUT 1	520	20	10	0.12	262	0.8		328	
BREAKOUT 2	520	20	10	0.12	262	0.8		328	
BREAKOUT 3	280	10	10	0.12	134	0.8		167	

REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
D1	SUPPLY	STEEL	DUCT GRILLE		PRICE SDGE	1
D2	SUPPLY	STEEL	FACE MNTD		PRICE	
D3	SUPPLY	STEEL	FACE MNTD		PRICE	
R1	RETURN/EA	STEEL	FACE MNTD		PRICE SDGER	
R2	RETURN/EA	STEEL	FACE MNTD		PRICE	
R3	RETURN/EA	STEEL	FACE MNTD		PRICE	
REMARKS: 1. PROVIDE AIR SCOOPS						
2.						
3.						

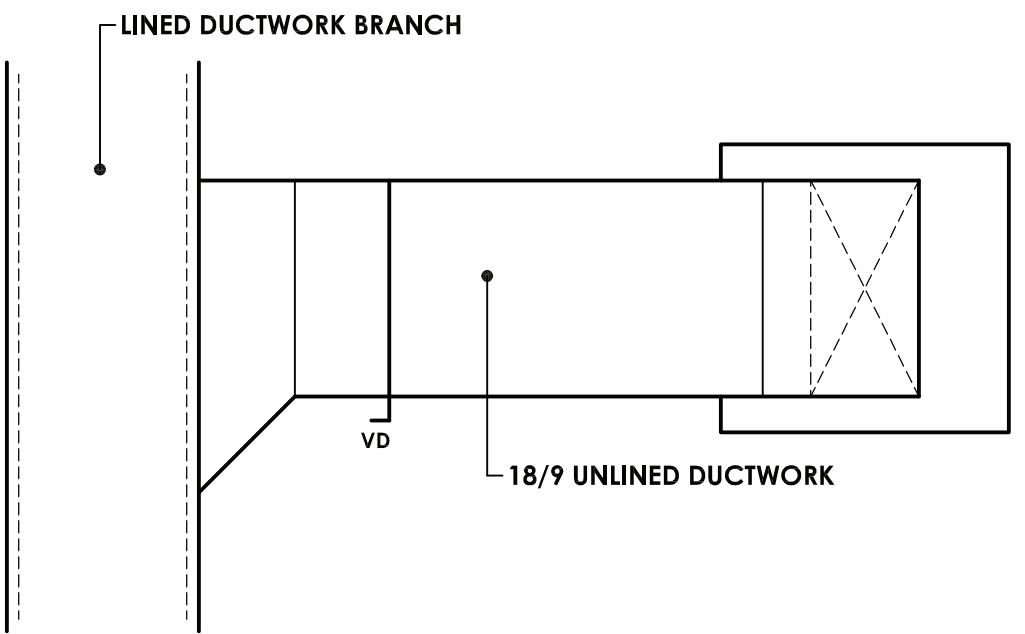


NOTE: COORDINATE HEIGHT OF DUCT BOOT TO AVOID INTERFERENCE WITH LIGHTS AND JOISTS.

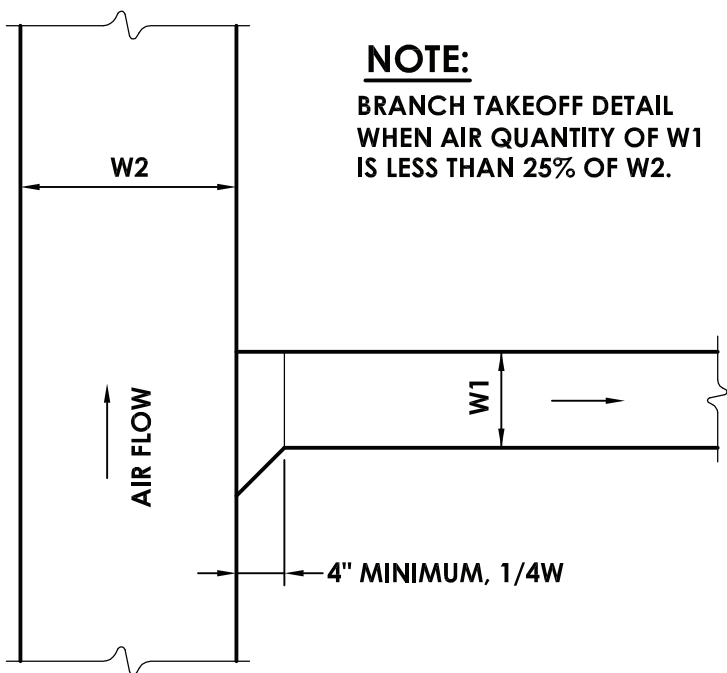
3 DUCT BOOT DETAIL
H000 NOT TO SCALE



2 DIFFUSER D-1 DETAIL
H000 NOT TO SCALE



1 BRANCH TAKE-OFF DETAIL
H000 NOT TO SCALE



NOTE: BRANCH TAKEOFF DETAIL WHEN AIR QUANTITY OF W1 IS LESS THAN 25% OF W2.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	11/30/2020	UJ	3RD DOW CONSTRUCTION DOCUMENTS SUBMISSION
2	01/07/2021	JG	ADDENDUM #1
3	03/27/2021	JG	ISSUED FOR BID

ENVIRONMENTAL CONSULTANT

ADELAIDE ENVIRONMENTAL
HEALTH ASSOCIATES INC.,
1511 ROUTE 22, SUITE C24
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CARMEL CENTRAL SCHOOL DISTRICT

81 SOUTH STREET, P.O. BOX 296, PATTERSON, NEW YORK 12563

CARMEL HIGH SCHOOL SED#: 48.01.02.06.0.003.022
GEORGE FISCHER MIDDLE SCHOOL SED#: 48.01.02.06.0.008.018
MATTHEW PATTERSON SCHOOL SED#: 48.01.02.06.0.010.013
KENT ELEMENTARY SCHOOL SED#: 48.01.02.06.0.001.017
KENT PRIMARY SCHOOL SED#: 48.01.02.06.0.004.016

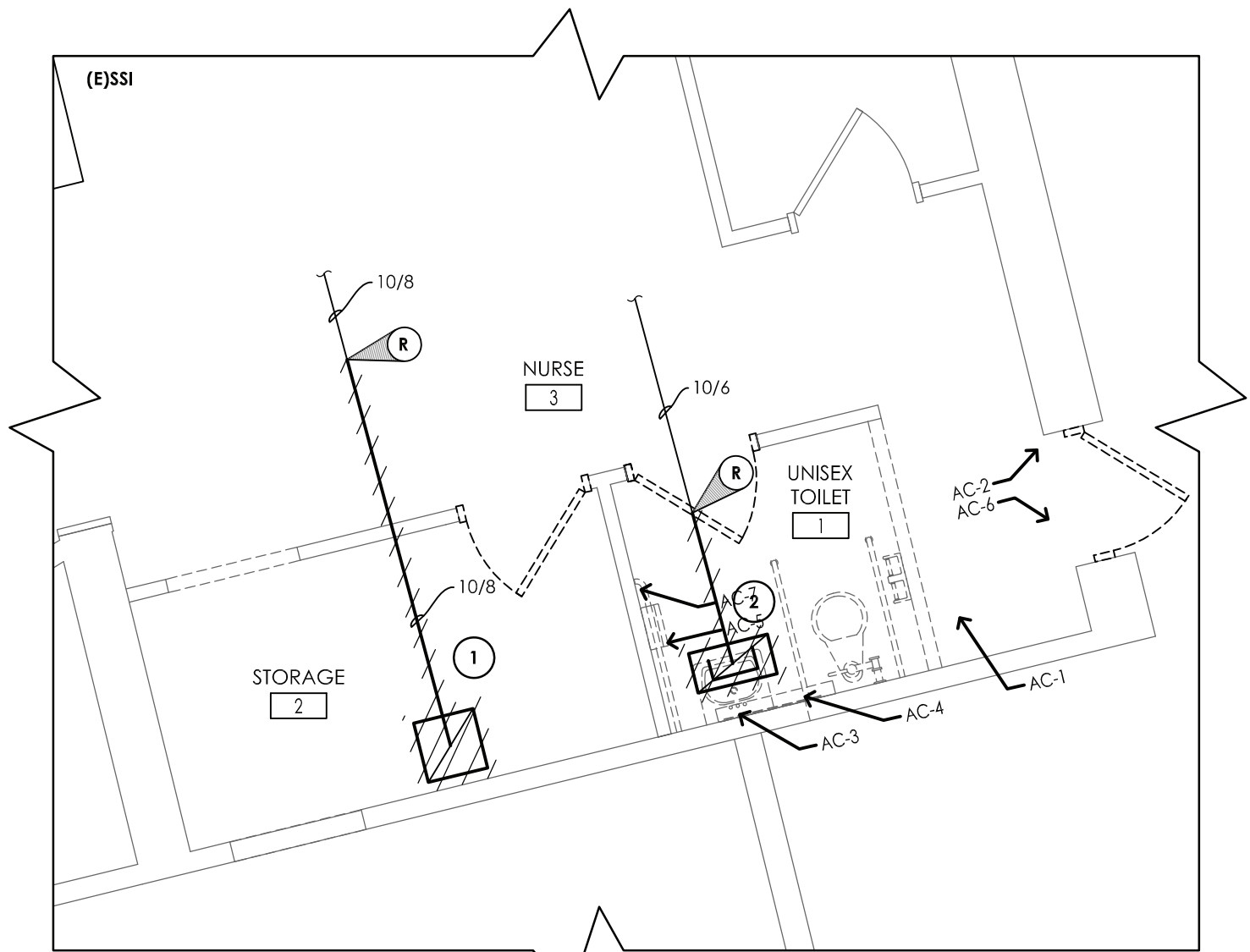
DATE	DRAWN	CHECKED
11/30/2020	NRH	JJM
SCALE: AS NOTED		
SHEET TITLE		
HVAC SCHEDULES, DETAILS, LEGEND AND ABBREVIATIONS		

PROJECT NUMBER

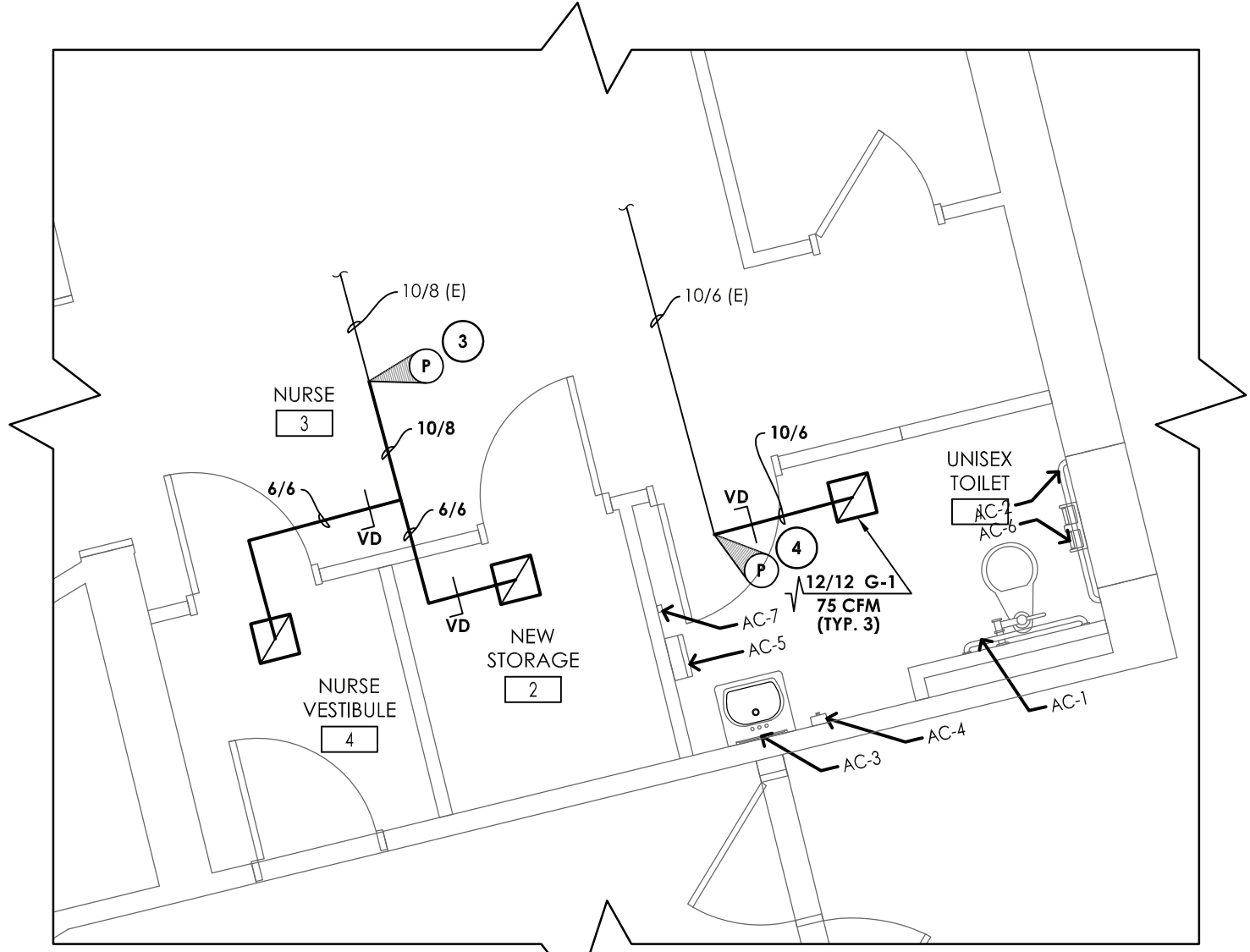
70019.00

GF
H000

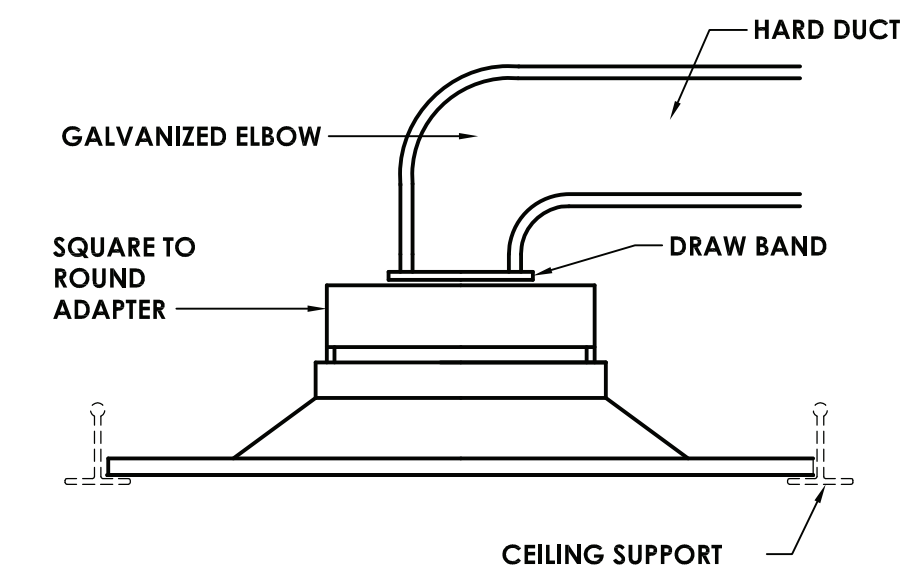
DRAWING NUMBER



1
H200
TOILET ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



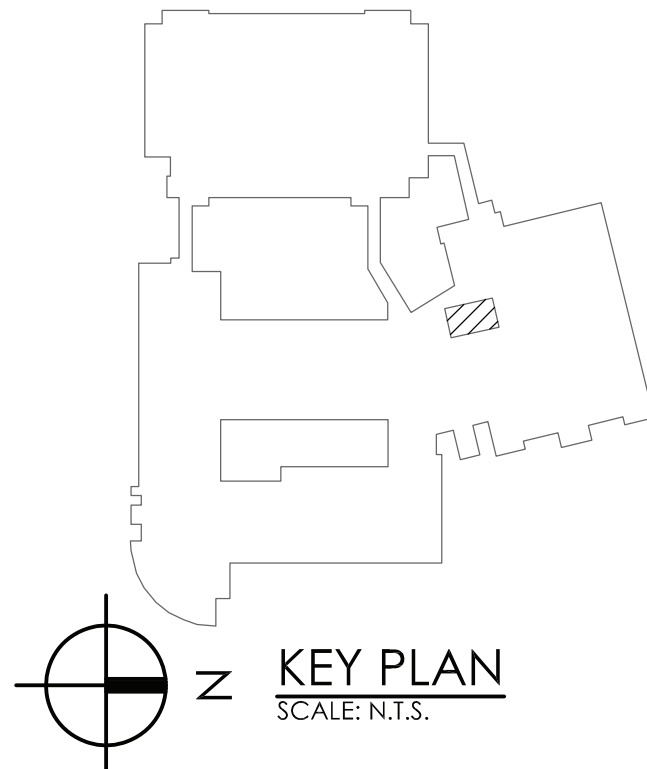
2
H200
TOILET ROOM NEW WORK PLAN
SCALE: 1/4" = 1'-0"



3
H200
HARD DUCT EXHAUST GRILLE DETAIL
NOT TO SCALE

REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
G-1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE \$30	-

- KEY NOTES:**
- 1 REMOVE EXISTING GRILLE AND DUCTWORK TO POINT INDICATED. PREPARE DUCTWORK FOR CONNECTION TO NEW.
 - 2 REMOVE EXISTING EXHAUST GRILLE. PREPARE DUCTWORK FOR NEW GRILLE.
 - 3 PROVIDE NEW GRILLE AND DUCTWORK. JOG DUCTWORK TO MISS WALL RELOCATION.
 - 4 PROVIDE NEW GRILLE AS SCHEDULED. CONNECT TO EXISTING DUCTWORK.



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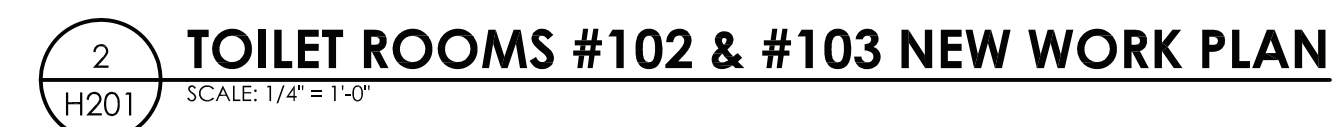
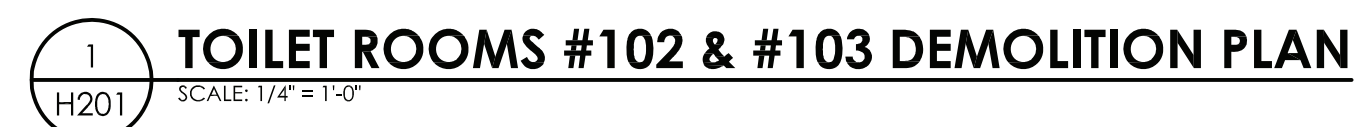
DATE	DRAWN	CHECKED
11/30/2020	ZBH	JJM
SCALE	AS NOTED	
SHEET TITLE		
HVAC DEMOLITION, NEW WORK, DETAILS, AND SCHEDULES PLAN		

PROJECT NUMBER
70019.00
HS H200
DRAWING NUMBER

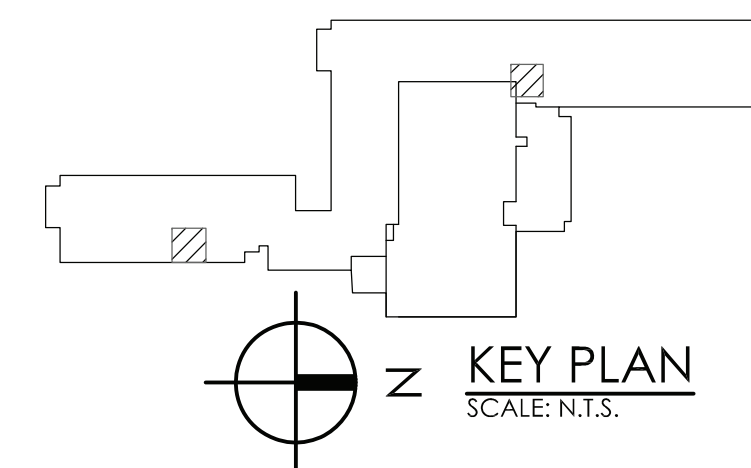
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	11/30/2020	UJ	SED 100% CONSTRUCTION DOCUMENTS SUBMISSION
2	01/07/2021	-	ADDENDUM #1
3	03/22/2021	JG	ISSUED FOR BID

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FAN SCHEDULE												
MARK	LOCATION	SERVICE	TYPE	ROOF OPENING (IN.)	CFM	SP IN W.G.	RPM	ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
								BHP / HP	VOLTS	PHASE		
EF-GF-18	ROOF	TOILETS	DOWN BLAST	20.5x20.5	3,000	0.7	833	0.48 / 0.75	208	3	GREENIECK GB-200	1,2,3
REMARKS:	1. PROVIDE DISCONNECT. 2. ALUMINUM BIRD SCREEN. 3. HINGED BASE.											



- 1 REMOVE DUCTWORK TO EXHAUST RISER. PREPARE DUCTWORK FOR NEW CONSTRUCTION.
- 2 REMOVE EXISTING RETURN GRILLES.
- 3 CONNECT NEW DUCTWORK TO EXISTING RISER. FIELD VERIFY RISER SIZE.
- 4 EXISTING EXHAUST GRILLE TO REMAIN.
- 5 REMOVE AND REPLACE EF-GF-18. MAINTAIN EXISTING CONTROLS. MODIFY EXISTING CURB FOR NEW FAN.

REVISIONS				
NO.	DATE	BY	CHKD	DESCRIPTION
1.	11/20/2020	LJ	CG	SED 100% CONSTRUCTION DOCUMENTS SUBMISSION
Δ	01/07/2021	-	-	ADDENDUM #1
2.	03/27/2021	JG	JP	ISSUED FOR BID

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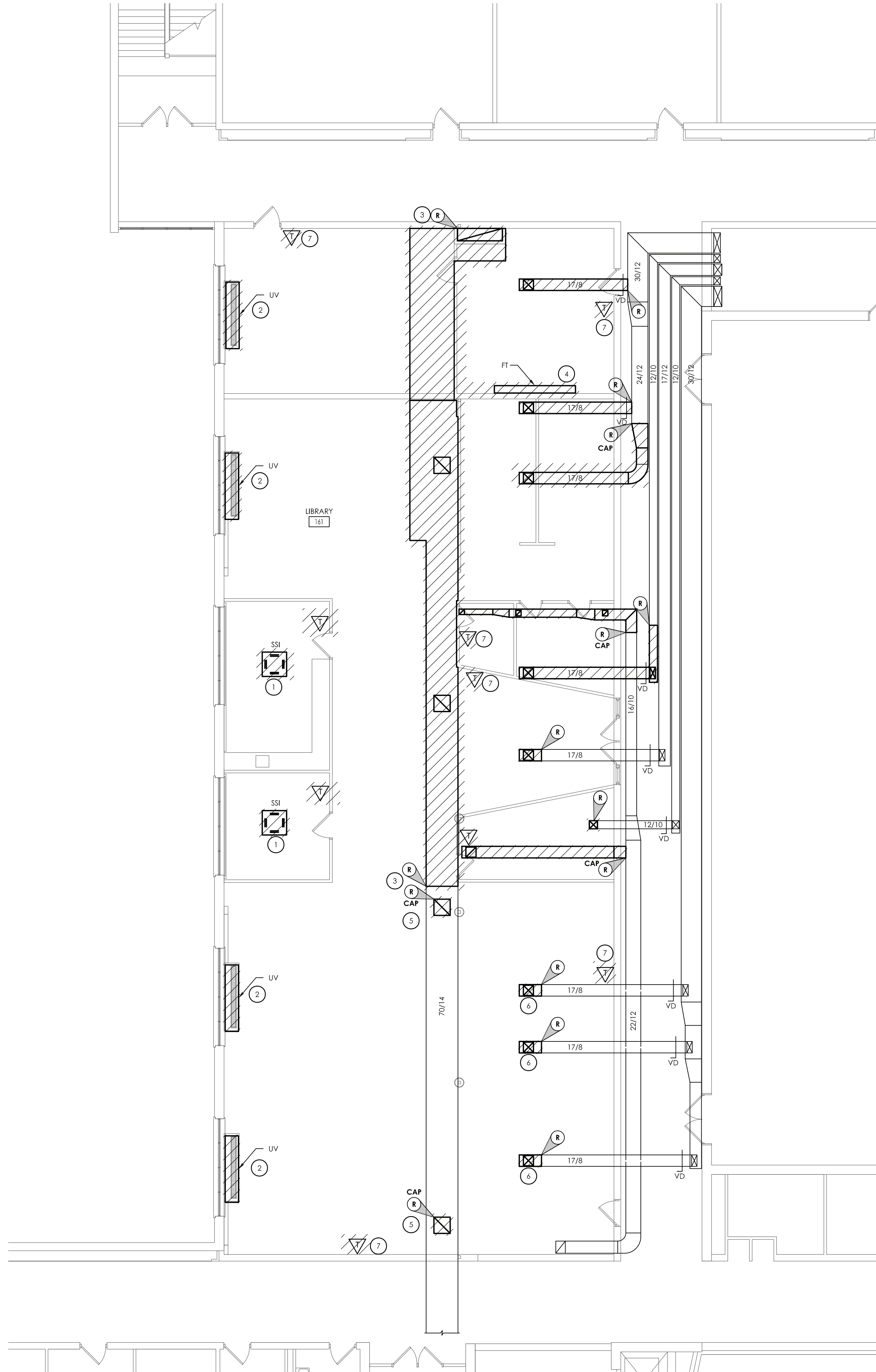
CARMEL HIGH SCHOOL SED#: 48.01.02.06.0.003.022
 RGE FISCHER MIDDLE SCHOOL SED#: 48.01.02.06.0.008.018
 WATHER PATERSON SCHOOL SED#: 48.01.02.06.0.010.013
 KENT ELEMENTARY SCHOOL SED#: 48.01.02.06.0.001.017
 KENT PRIMARY SCHOOL SED#: 48.01.02.06.0.004.016

DATE 11/30/2020	DRAWN ZBH	CHECKED JJM
SCALE AS NOTED		
SHEET TITLE HVAC DEMOLITION, NEW WORK, DETAILS, AND SCHEDULES PLAN		

GF
H201
DRAWING NUMBER

KEY DEMOLITION NOTES:

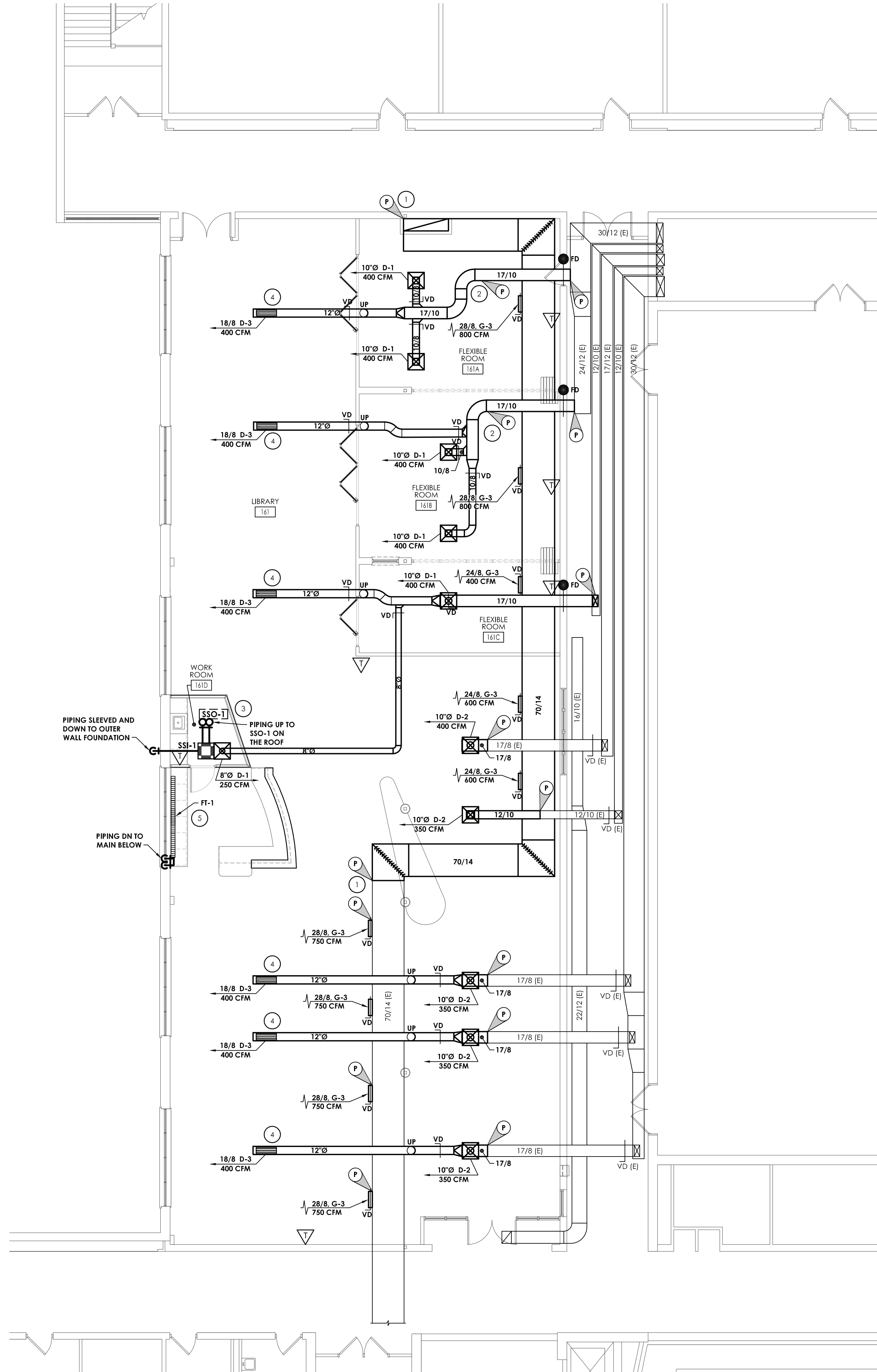
- 1 REMOVE EXISTING SPLIT UNIT, ALL ASSOCIATED CONTROLS, PIPING AND ROOF MOUNTED CONDENSING UNIT. PATCH AND FILL ANY THRU ROOF PENETRATIONS. MAINTAIN ALL EXISTING ROOF WARRANTIES. RETURN SPLIT UNIT AND CONDENSER TO OWNER FOR REUSE.
- 2 REMOVE EXISTING UNIT VENTILATOR, ALL ASSOCIATED CONTROLS AND ROOF MOUNTED CONDENSING UNIT. CAP EXISTING TEAM PIPING BELOW THE FLOOR. PATCH FLOOR AND OUTDOOR AIR OPENING. RETURN UNIT VENTILATOR TO OWNER FOR PARTS.
- 3 REMOVE EXISTING 70"x14" RETURN DUCTWORK TO POINTS INDICATED. PREPARE DUCTWORK FOR NEW CONNECTION.
- 4 REMOVE EXISTING ELECTRICAL FIN TUBE AND ASSOCIATED CONTROLS. RETURN TO OWNER FOR PARTS.
- 5 REMOVE EXISTING GRILLS. PATCH AND SEAL DUCTWORK.
- 6 REMOVE DUCTWORK AND ASSOCIATED GRILLES TO POINT INDICATED.
- 7 REMOVE CONTROLS. PREPARE FOR NEW.



1 LIBRARY HVAC DEMOLITION PLAN
SCALE: 1/8" = 1'

KEY NEW WORK NOTES:

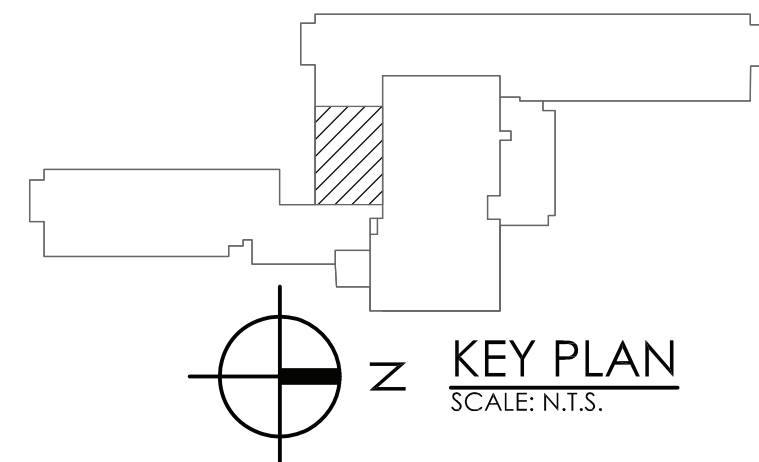
- 1 CONNECT TO EXISTING RETURN DUCTWORK RISER AT THE TOP OF THE CHASE. RUN DUCT TIGHT TO STEEL. COORDINATE LOCATION WITH EXISTING STEEL.
- 2 CONNECT TO EXISTING SUPPLY DUCTWORK. RUN DUCT IN JOIST SPACE, TIGHT TO DECK. COORDINATE DUCT BRANCHING WITH EXISTING JOISTS.
- 3 PROVIDE NEW SPLIT SYSTEM INDOOR UNIT AND OUTDOOR CONDENSING UNIT. ROUTE REFRIGERANT PIPING TO ROOF THROUGH EXISTING PITCH POCKETS.
- 4 ROUTE DUCT AS HIGH AS POSSIBLE IN JOIST SPACE. MOUNT SUPPLY GRILLE FLUSH WITH THE BOTTOM OF THE CEILING LIGHTS.
- 5 CONNECT NEW 3/4" INCH FT-1 PIPE TO EXISTING MAIN BELOW FLOOR.



2 LIBRARY HVAC NEW WORK PLAN
SCALE: 1/8" = 1'

GENERAL NOTES:

1. PROVIDE A PRE-BALANCE REPORT OF ALL SUPPLY AND RETURN GRILLS IN PROJECT AREA.
2. CLEAN ALL REMAINING DUCTWORK IN PROJECT AREA.
3. RE-BALANCE EXISTING AHU TO THE REQUIRED LIBRARY 6000 CFM TOTAL SUPPLY AIR AND 1500 CFM TOTAL OA AIR.



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2	01/07/2021	-	-	ADDENDUM #1
3	03/27/2021	JG	JP	ISSUED FOR BID

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KENT PRIMARY SCHOOL SED#: 48.01.02.06.0.004.016

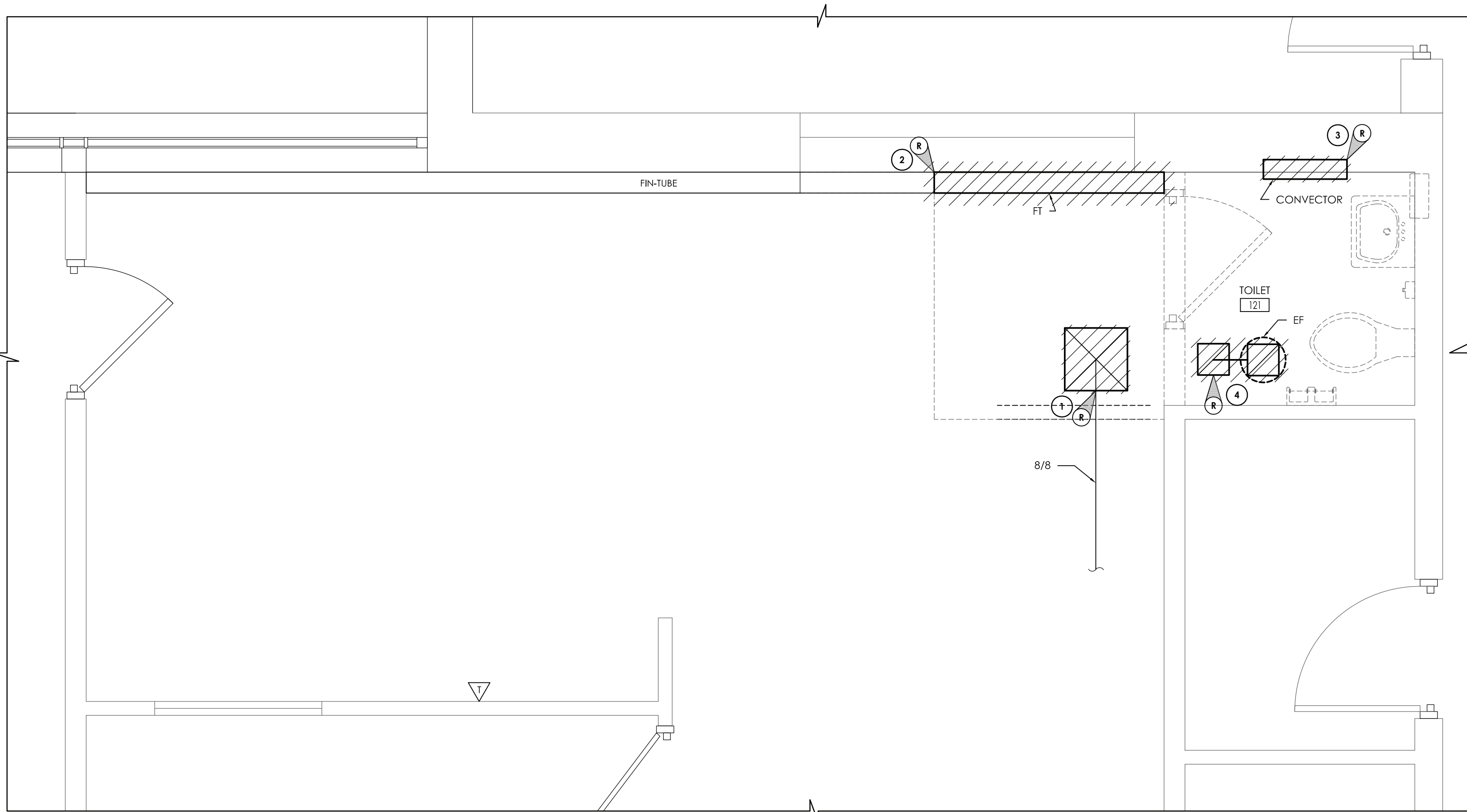
DATE	DRAWN	CHECKED
11/30/2020	ZBH	JJM
SCALE	AS NOTED	
SHEET TITLE		
HVAC DEMOLITION, AND NEW WORK		

PROJECT NUMBER
70019.00

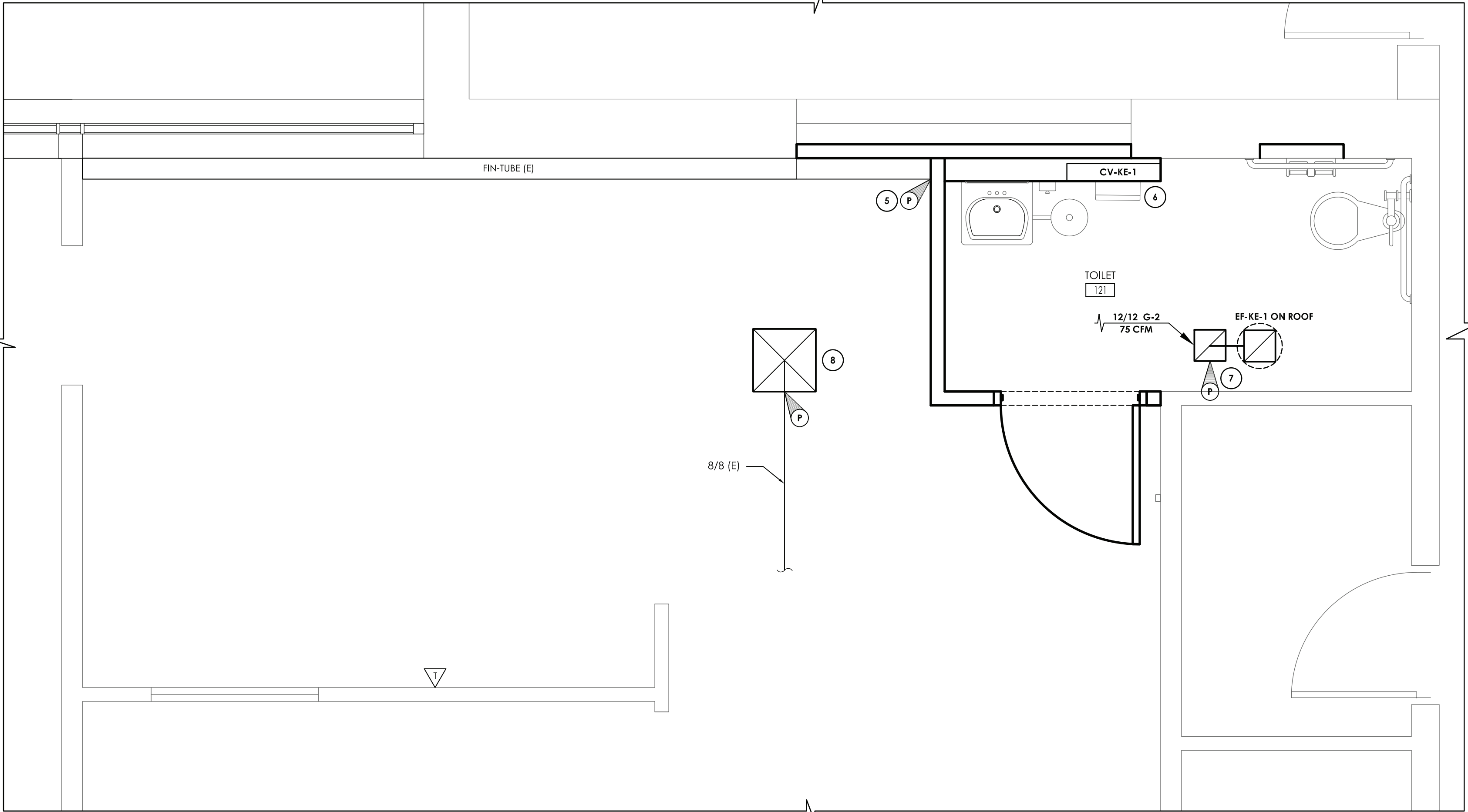
GF
H202
DRAWING NUMBER

KEY NOTES:

- 1 REMOVE EXISTING 18X18 GRILLE. SAVE FOR REINSTALLATION.
- 2 REMOVE EXISTING FIN-TUBE, CONTROL VALVE, AND COVER BACK TO POINT INDICATED. PREPARE PIPING TO NEW CONTROL VALVES AND MODIFIED COVER.
- 3 REMOVE EXISTING CONVECTOR, PREPARE 1" PIPING FOR RELOCATION.
- 4 REMOVE EXISTING EXHAUST FAN, DUCTWORK AND GRILLES. PREPARE CURB OR NEW FAN. FIELD VERIFY SIZE.
- 5 MODIFY EXISTING FIN-TUBE COVER TO FIT NEW CONTROL VALVES. EXTEND PIPING FROM BELOW FLOOR TO NEW LOCATION. PAINT ANY EXPOSED EDGES OR DAMAGE TO MATCH EXISTING.
- 6 PROVIDE NEW CONVECTOR. EXTEND EXISTING PIPING TO NEW UNIT. CONVECTOR SHALL HAVE MOUNTED CONTROLS.
- 7 PROVIDE NEW EXHAUST FAN MOUNTED ON EXISTING ROOF CURB. FIELD VERIFY SIZE. CONTROL ON/OFF WITH OCCUPANCY SENSOR.
- 8 RE-INSTALL EXISTING SUPPLY GRILLE. MODIFY EXISTING DUCTWORK TO ACCOMMODATE NEW LOCATION. FIELD VERIFY DUCTWORK SIZE.



1 TOILET ROOM #121 DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

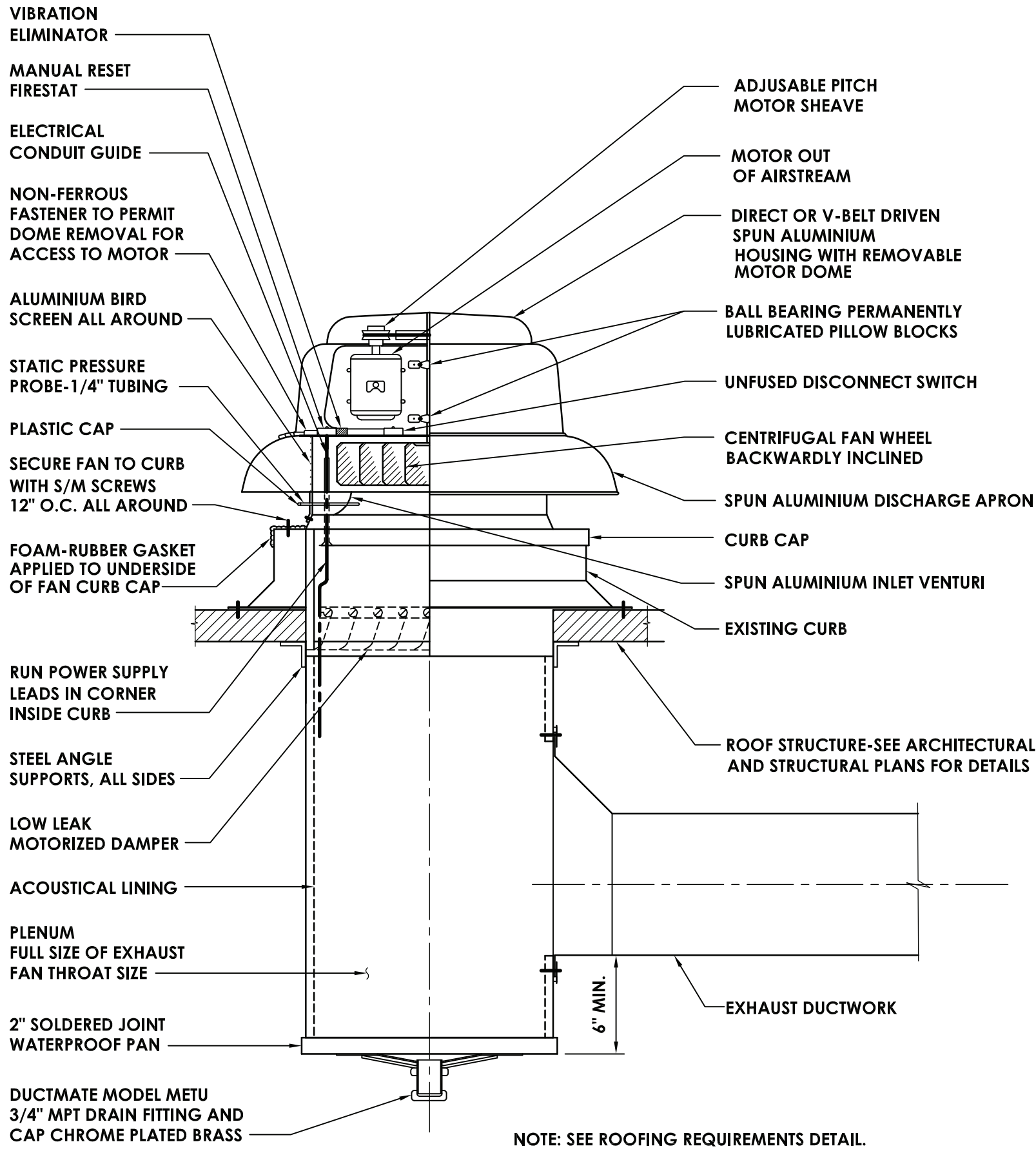


2 TOILET ROOM #121 NEW WORK PLAN
SCALE: 1/2" = 1'-0"

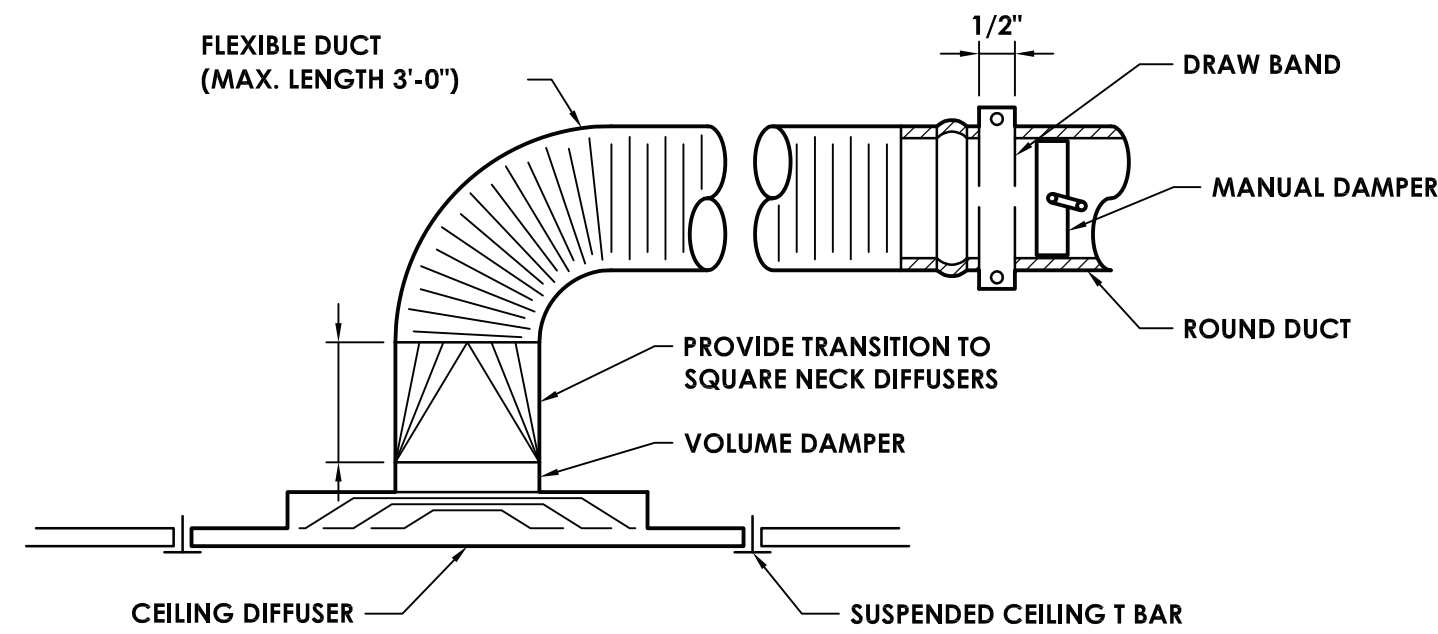
REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
G-2	RETURN/EA	STEEL	SURFACE MOUNT	WHITE	PRICE 530	-

CONVECTOR SCHEDULE							
MARK	MBH	LENGTH	HEIGHT	DEPTH	GPM	TYPICAL UNIT MFG & MODEL NO.	REMARKS
CV-KE-1	3960	36	24	4.25	0.5	VULCAN SF-A	-

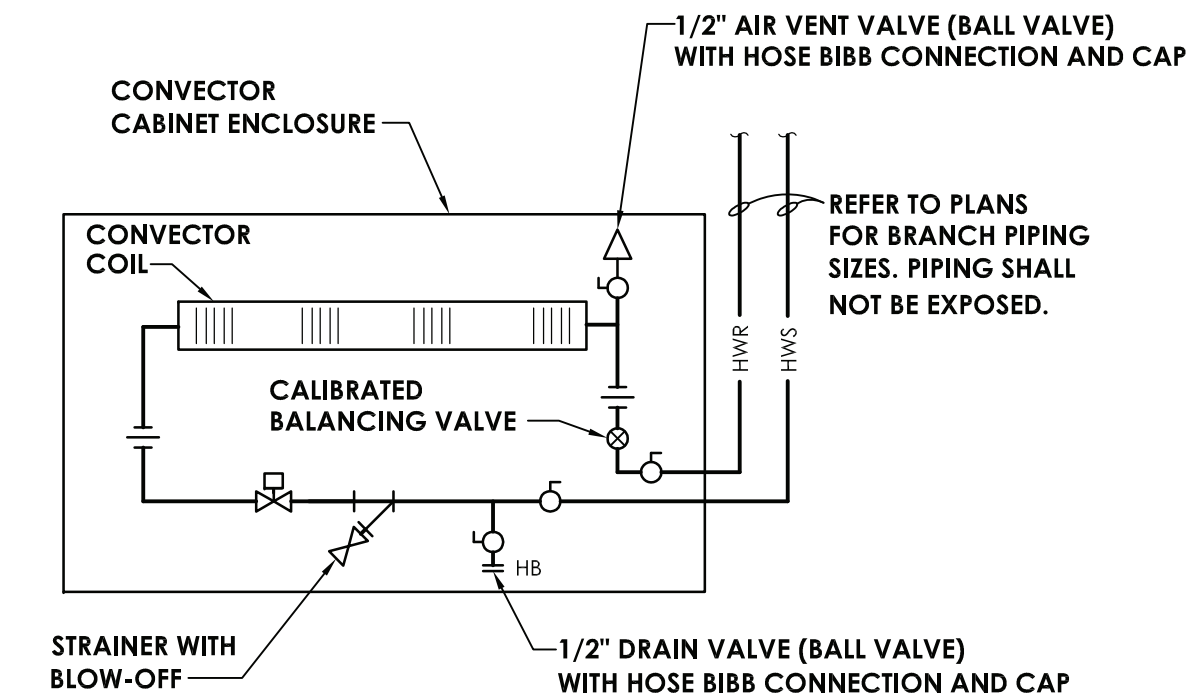
FAN SCHEDULE											
MARK	LOCATION	SERVICE	TYPE	ROOF OPENING (IN.)	CFM	SP IN W.G.	RPM	ELECTRICAL DATA			REMARKS
								BHP / HP	VOLTS	PHASE	
EF-KE-1	ROOF	TOILETS	DOWN BLAST	20.5x20.5	75	0.25	833	0.026 / 1/6	120	1	1,2,3
REMARKS:											
1. PROVIDE DISCONNECT.											
2. ALUMINUM BIRD SCREEN.											
3. HINGED BASE.											



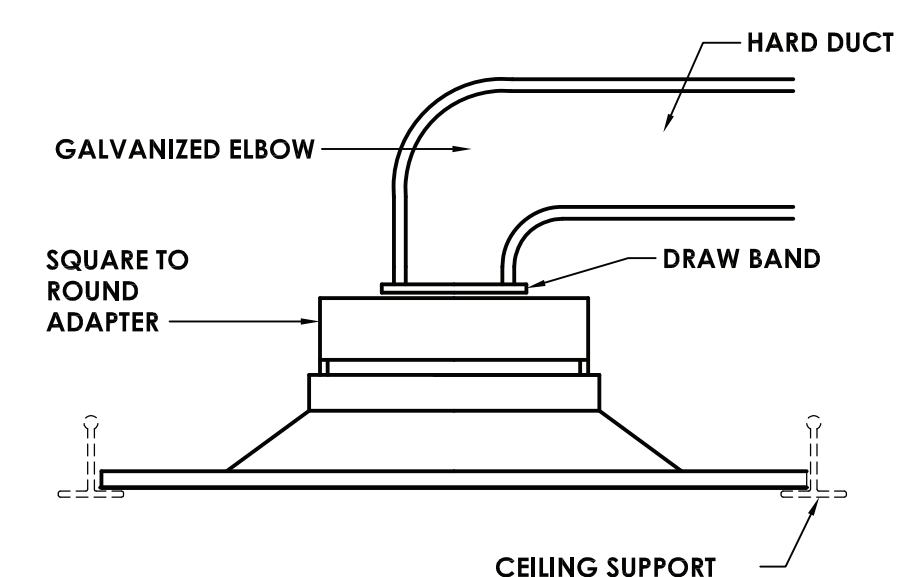
5 EXHAUST FAN DETAIL
NOT TO SCALE



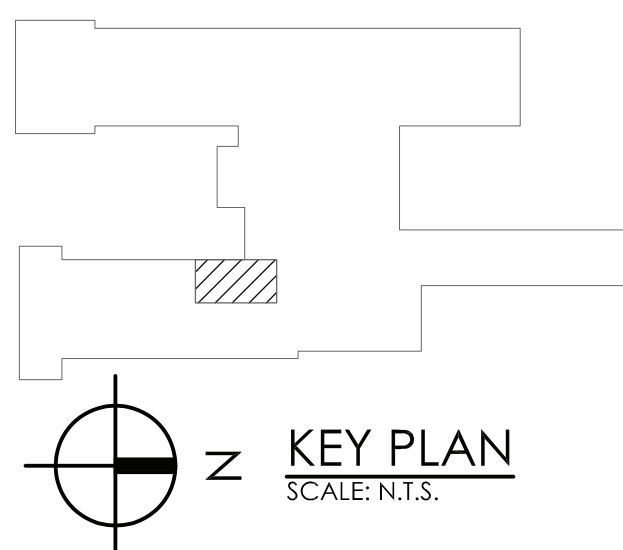
3 DIFFUSER DETAIL
NOT TO SCALE



6 CONVECTOR DETAIL
NOT TO SCALE



4 HARD DUCT EXHAUST GRILLE DETAIL
NOT TO SCALE



REVISIONS			
NO.	DATE	BY	CHKD DESCRIPTION
1	11/30/2020	U	CG SED 100% CONSTRUCTION DOCUMENTS SUBMISSION
2	01/07/2021	J	ADDENDUM #1
3	03/29/2021	JG	ISSUED FOR BID

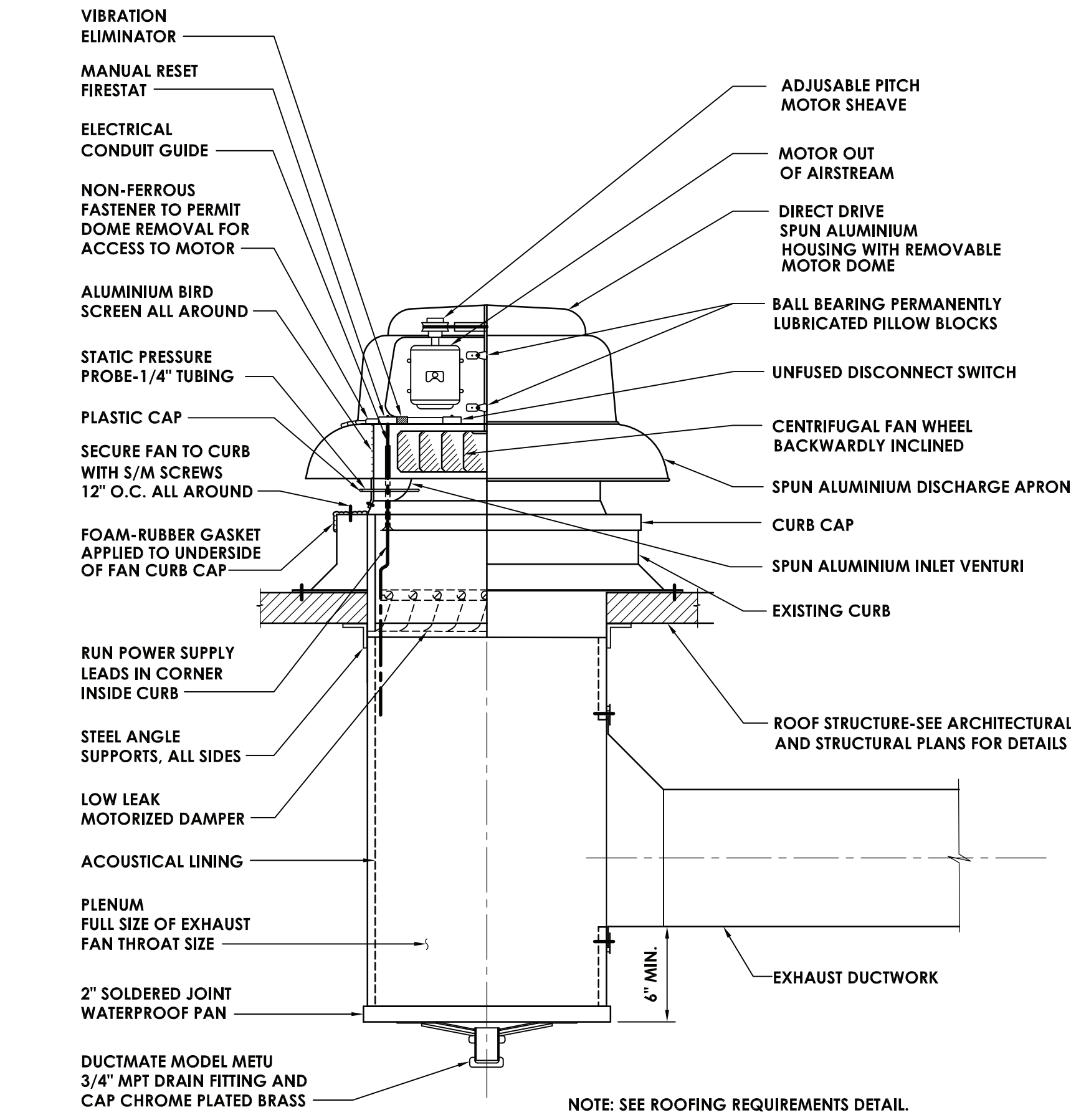
ENVIRONMENTAL CONSULTANT
ADELAIDE ENVIRONMENTAL
HEALTH ASSOCIATES INC.
1511 ROUTE 22, SUITE C24
BREWSTER, NY 10509
TEL. 845.278.7710
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CARMEL CENTRAL SCHOOL DISTRICT
81 SOUTH STREET, P.O. BOX 296, PATERSON, NEW YORK 12563
CARMEL HIGH SCHOOL SED#: 48.01.02.06.0.003.022
GEORGE FISCHER MIDDLE SCHOOL SED#: 48.01.02.06.0.008.018
MATHER PATTERSON SCHOOL SED#: 48.01.02.06.0.010.013
KENT ELEMENTARY SCHOOL SED#: 48.01.02.06.0.001.017
KENT PRIMARY SCHOOL SED#: 48.01.02.06.0.004.016

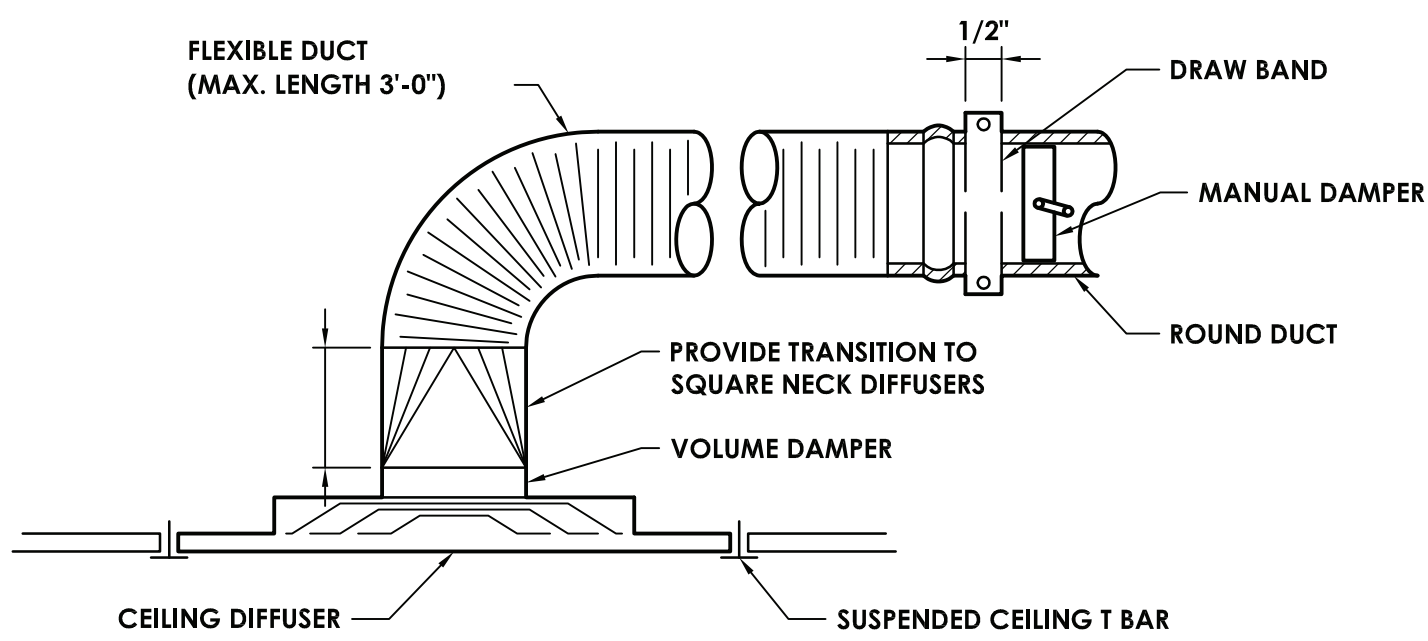
DATE	DRAWN	CHECKED
11/30/2020	ZBH	JJM
SCALE	AS NOTED	
SHEET TITLE		
HVAC DEMOLITION, NEW WORK, DETAILS, AND SCHEDULES PLAN		

PROJECT NUMBER
70019.00
KE
H202
DRAWING NUMBER

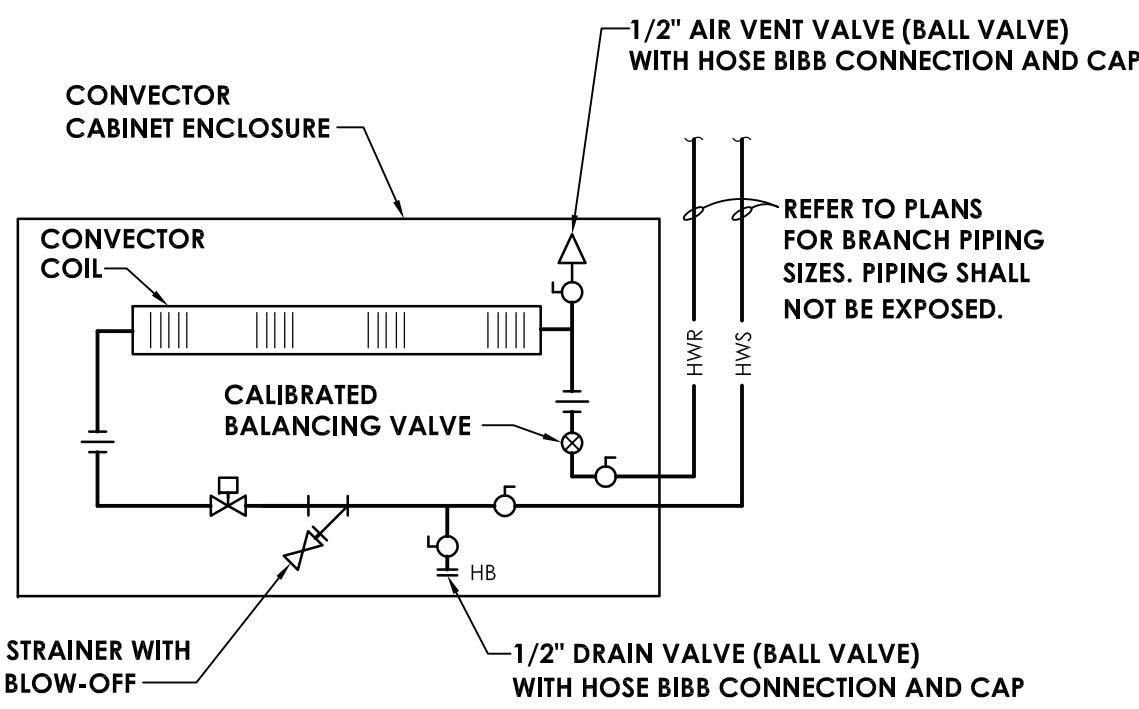
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Date last accessed: 3/24/2021 8:31 AM
Date last plotted: 3/24/2021 9:52 AM
Plotted By: James Masula



5 EXHAUST FAN DETAIL
H203 NOT TO SCALE



6 DIFFUSER DETAIL
H203 NOT TO SCALE

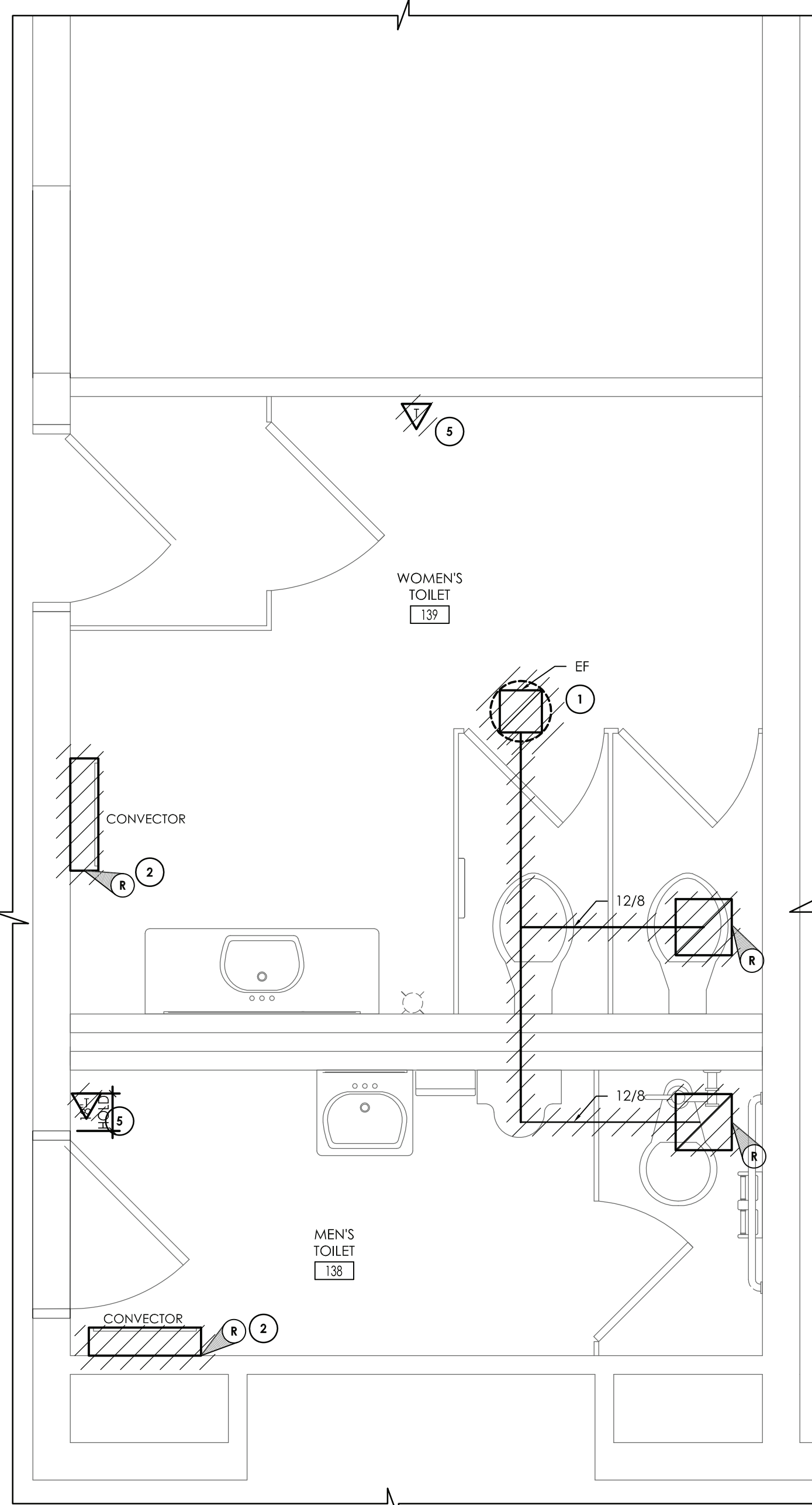


7 CONVECTOR DETAIL
H203 NOT TO SCALE

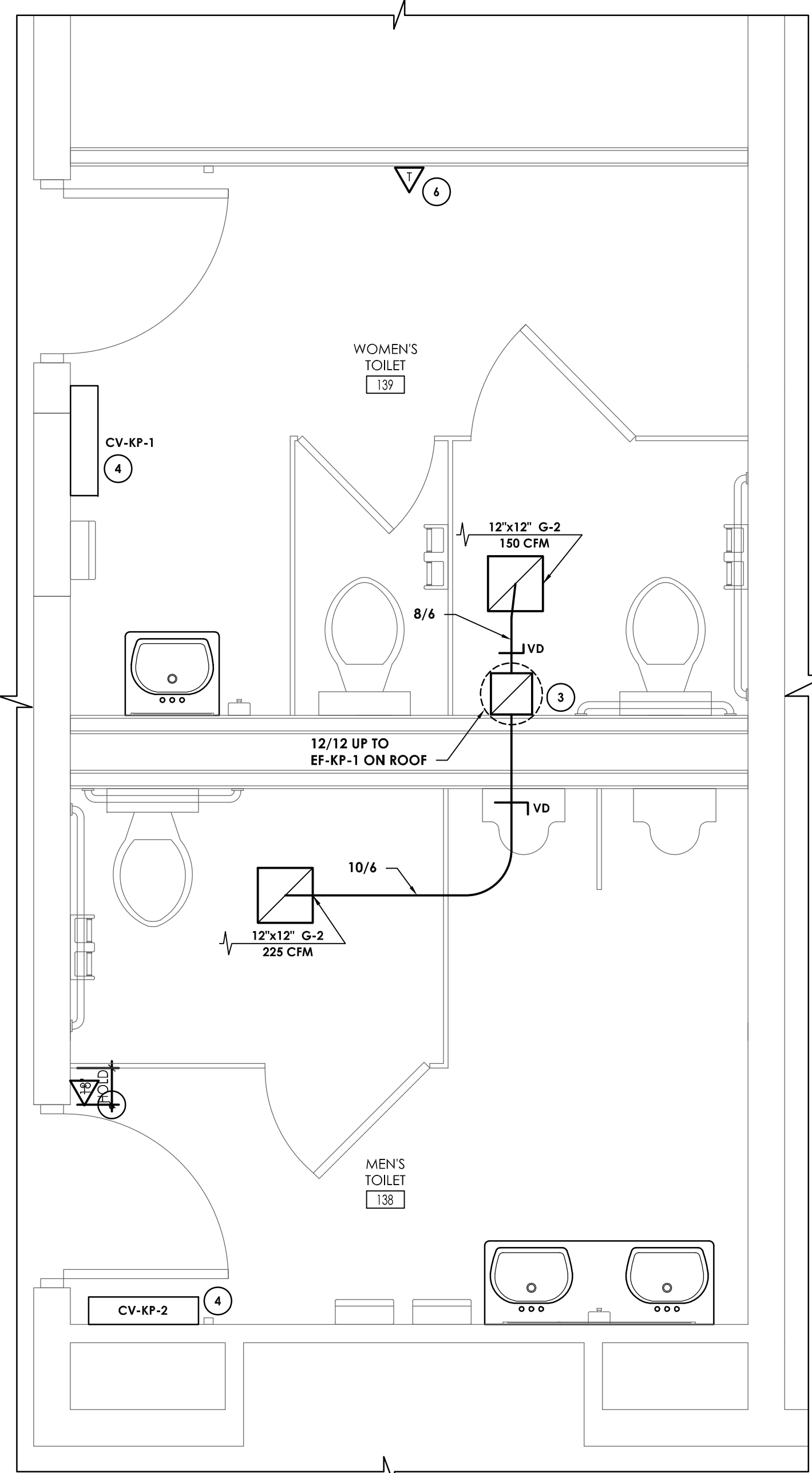
REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
G-2	RETURN/EA	STEEL	SURFACE MOUNT	WHITE	PRICE 530	-

CONVECTOR SCHEDULE							
MARK	MBH	LENGTH	HEIGHT	DEPTH	GPM	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
CV-KP-1	3960	36	24	4.25	0.5	VULCAN SF-A	*
CV-KP-2	3960	36	24	4.25	0.5	VULCAN SF-A	*

FAN SCHEDULE												
MARK	LOCATION	SERVICE	TYPE	ROOF OPENING (IN.)	CFM	SP IN W.G.	RPM	ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
								BHP / HP	VOLTS	PHASE		
EF-KP-1	ROOF	TOILETS	DOWN BLAST	14.5x14.5	375	0.5	1144	0.07 / 0.25	120	1	GREENHECK GB-101	1,2,3
EF-KP-2	ROOF	TOILETS	DOWN BLAST	14.5x14.5	150	0.35	1127	0.06 / 1/6	120	1	GREENHECK GB-071	1,2,3
REMARKS:												
1. PROVIDE DISCONNECT.												
2. ALUMINUM BIRD SCREEN.												
3. HINGED BASE.												



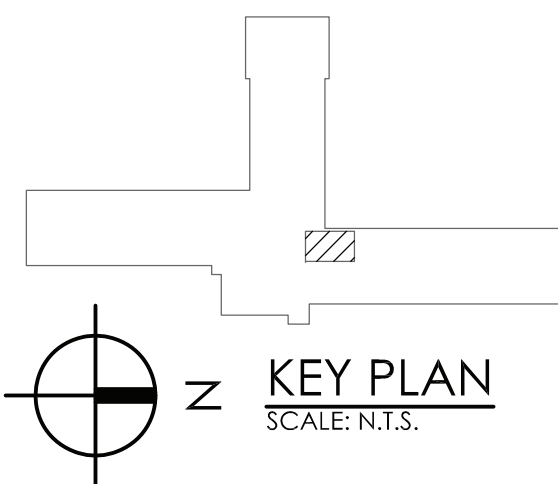
1 TOILET ROOMS #138 & #139 REMOVAL PLAN
H203 SCALE: 1/2" = 1'-0"



2 TOILET ROOMS #138 & #139 CONSTRUCTION PLAN
H203 SCALE: 1/2" = 1'-0"

KEY NOTES:

- 1 REMOVE EXISTING ROOF-MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK AND GRILLES. FIELD VERIFY CURB SIZE FOR NEW FAN.
- 2 REMOVE EXISTING CONVECTOR. PREPARE PIPING AND CONTROLS FOR NEW UNIT.
- 3 PROVIDE NEW EXHAUST FAN. MOUNT TO EXISTING CURB. BALANCE FAN FOR NEW AIRFLOW.
- 4 EXTEND PIPING AND CONTROLS TO NEW CONVECTOR. COORDINATE WITH GENERAL CONTRACTOR FOR FLOOR/WALL CUTS.
- 5 REMOVE EXISTING TEMPERATURE CONTROLS. SAVE FOR RE-INSTALLATION.
- 6 RE-INSTALL SALVAGED TEMPERATURE CONTROLS.



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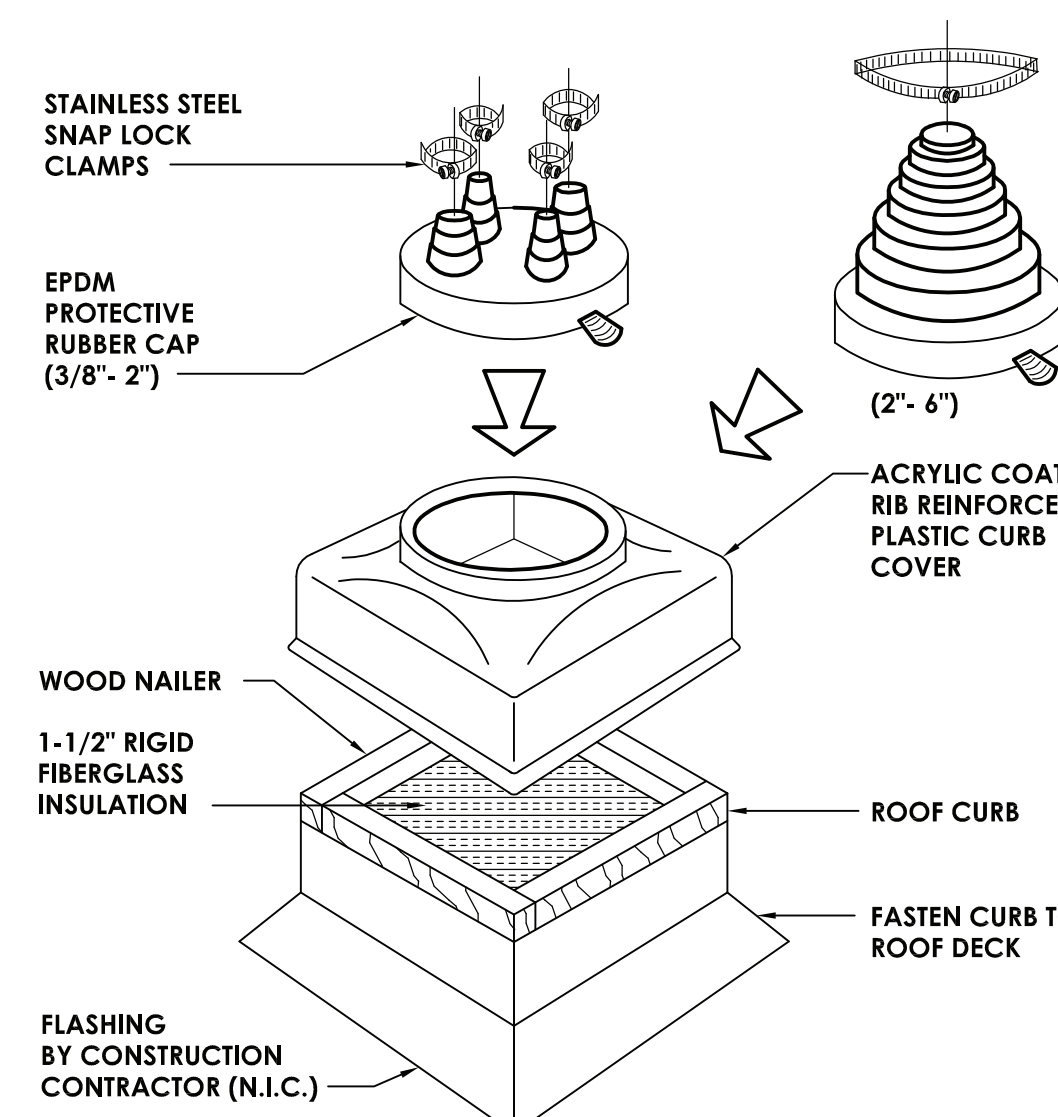
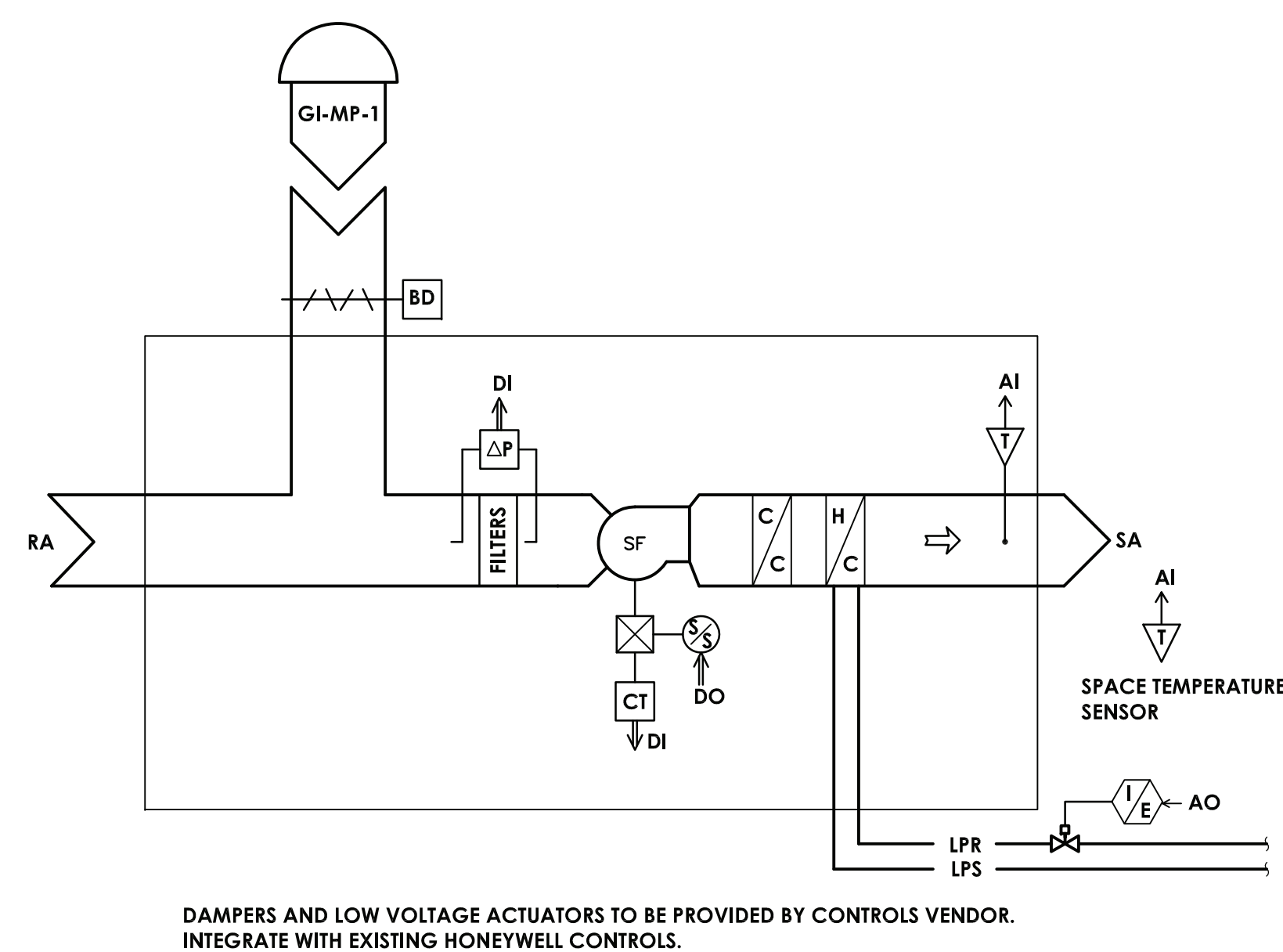
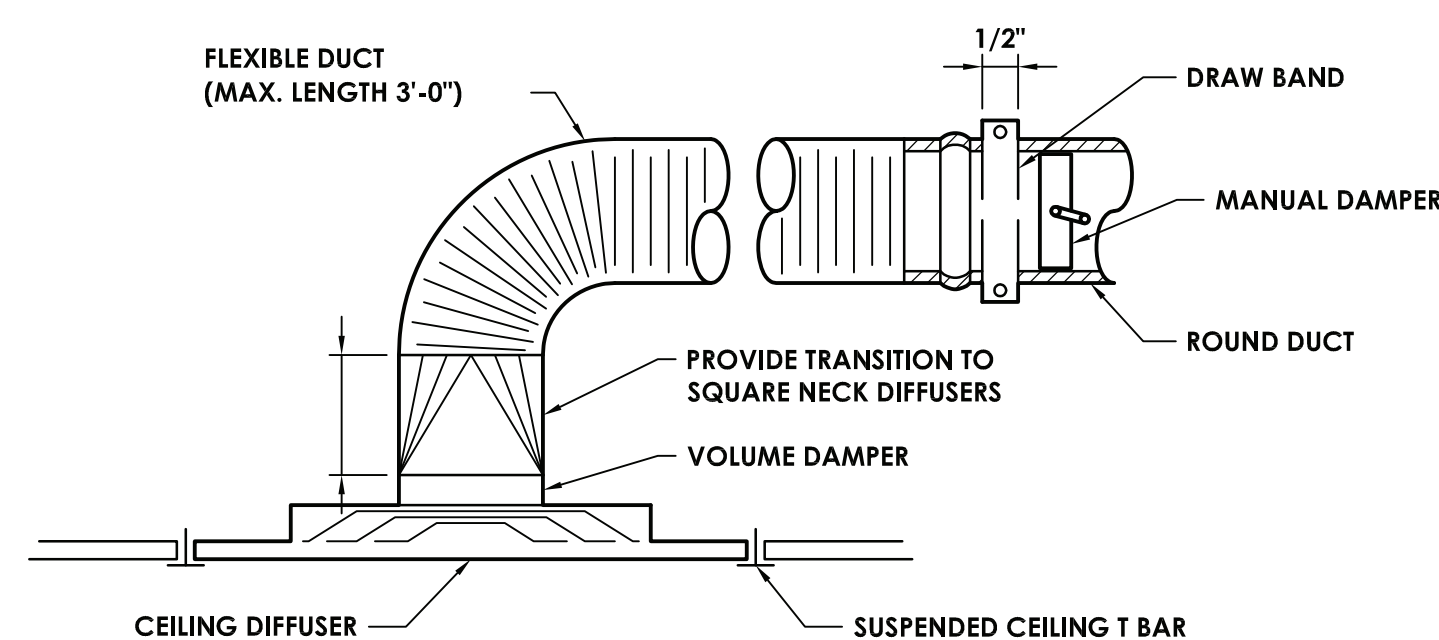
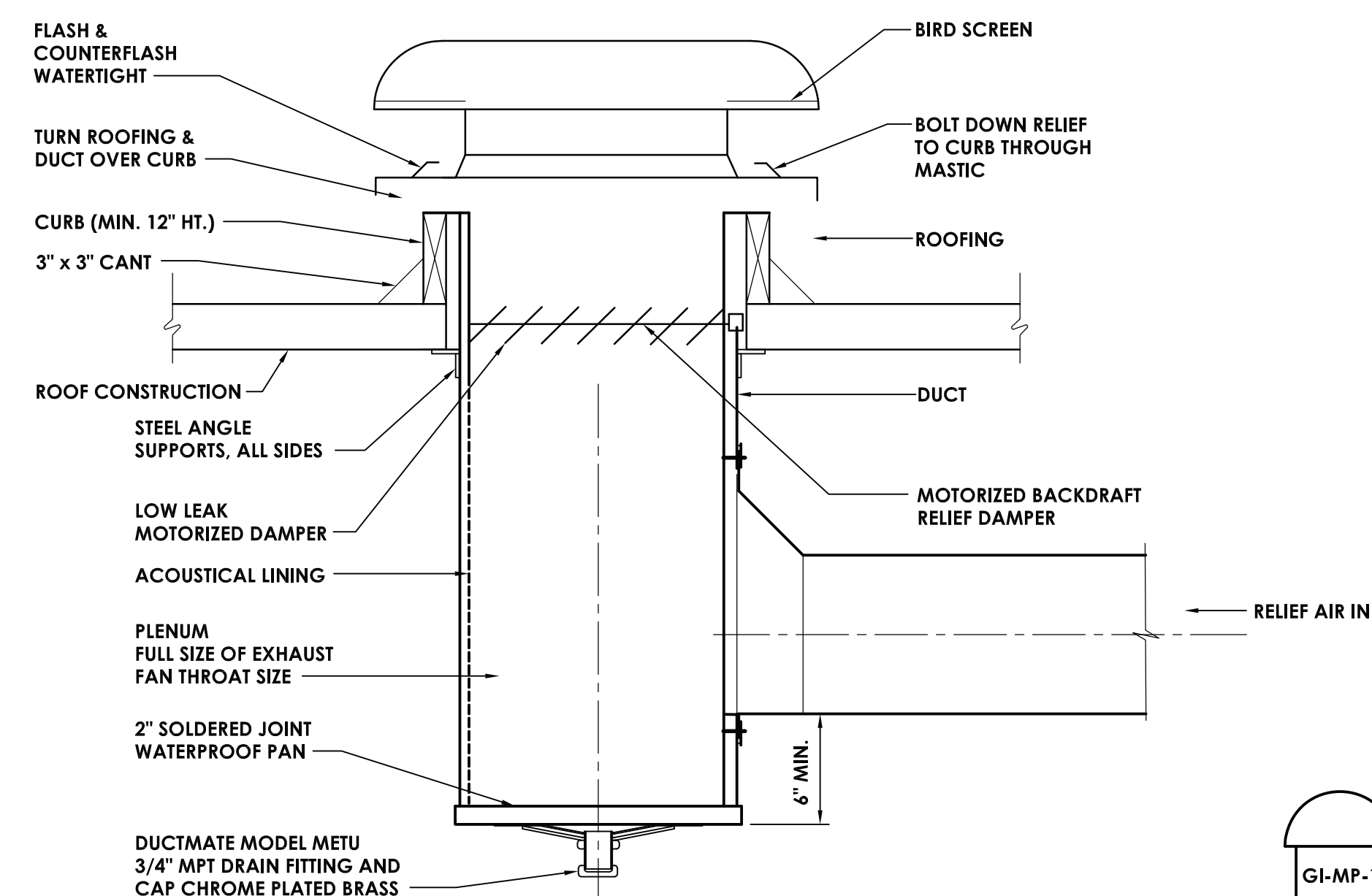
REVISIONS		NO.	DATE	BY	CHKD	DESCRIPTION
		1	11/30/2020	U	CG	SED 100% CONSTRUCTION DOCUMENTS SUBMISSION
		2	01/07/2021	-	-	ADDENDUM #1
		3	03/29/2021	JG	JP	ISSUED FOR BID

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KENT PRIMARY SCHOOL SED#: 48.01.02.06.0.004.016

DATE	DRAWN	CHECKED
11/30/2020	ZBH	JJM
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HVAC DEMOLITION, NEW WORK, DETAILS, AND SCHEDULES PLAN		

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KP
H203
DRAWING NUMBER



GRAVITY INTAKE SCHEDULE								
MARK	LOCATION	SERVICE	THROAT AREA (SQ. FT.)	HOOD AREA (SQ. FT.)	AIR FLOW (CFM)	SP (IN. W.G.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
GHP-1	ROOF	VENTILATION AIR	1	3	100	0.011	LOREN COOK 12x12GI	1
REMARKS: 1. PROVIDE WITH WIRE MESH BIRD SCREEN.								

MATTHEW PATTERSON SED OA CALCULATION												
SPACE	TOTAL SQ. FT.	CFM/M ² AT MAXIMUM	OCCUPANT DENSITY #/1000 SQFT	TOTAL OCCUPANCY FOR VENTILATION		O.A. PER PERSON (CFM)	O.A. PER SQ. FT. (CFM)	Vbz (CFM)	Ex	Voz=Vot (CFM)	DESIGN OUTSIDE AIR CFM	DESIGN SUPPLY AIR CFM
NURSE'S OFFICE - 4	347	0.29	5.00	2	5	0.06	29.495		0.8	37	100	400

[illegible]

OUTDOOR CONDENSING UNIT SCHEDULE									
MARK	MANUFACTURER	MODEL	NOM.HEATING CAPACITY BTU/HR	NOM.COOLING CAPACITY BTU/HR	ELECTRICAL			WEIGHT (LBS)	REMARKS:
					POWER (Ø/V/Hz)	MCA (AMPS)	RLA (AMPS)		
SSO-MP-1	DAIKIN	RXL12QM/JU9	13,600	10,800	208-230/60/1	13	12	70	1,2,3
REMARKS: <div>1. PROVIDE DISCONNECT.</div> <div>2. PROVIDE MANUFACTURER'S SNOW HOOD.</div> <div>3. PROVIDE RECTORSIDE BIG FOOT STAND MODEL: B5551 WITH 18" INCH CLEARANCE ABOVE ROOF DECK.</div>									

-  **KEY PLAN**
SCALE: N.T.S.