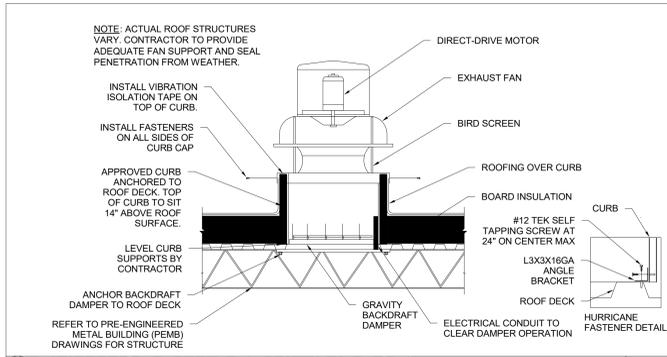
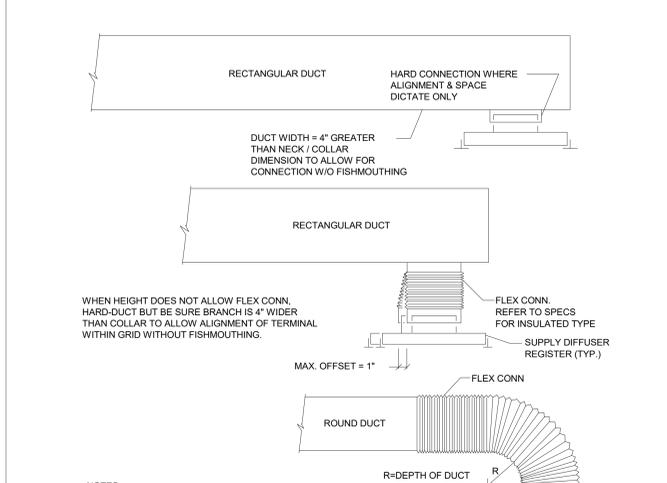


- NOTES:
1. MOUNT THERMOSTAT ON WALL OR COLUMN 48" AFF.
 2. INTERNALLY LINED DUCT WITH 1" THICK ACOUSTIC INSULATION.
 3. REFER TO ARCHITECTURAL AND PEMB FOR ADDITIONAL DETAILS.
 4. SECURE CURB TO ROOF STRUCTURE AND RTU TO CURB WITH FASTENERS AS DETAIL.
 5. INSTALL 3/8" THICK FOAM TAPE BETWEEN CURB AND RTU FOR VIBRATION ISOLATION AND TO PREVENT AIR LEAKAGE.

1 ROOF TOP UNIT DETAIL SCALE N.T.S.

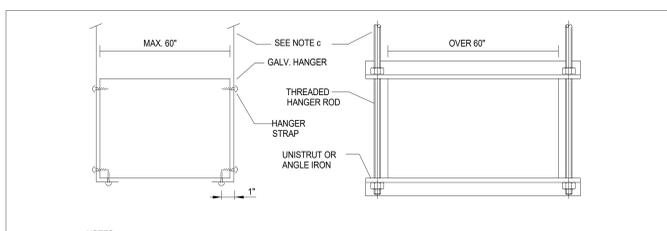


2 EXHAUST FAN DETAIL (DIRECT) SCALE N.T.S.



- NOTES:
1. THESE DETAILS ALLOW DUCTWORK TO BE PROVIDED BEFORE CEILING GRID IS INSTALLED THEN DIFFUSER/REGISTER CAN BE POSITIONED INTO GRID.
 2. PROVIDE INSULATED TRANSITION ROUND TO SQUARE IF REQUIRED AT DIFFUSER.
 3. PROVIDE NYLON TY-WRAP TOOL OR REUSABLE SS DRAW BAND PER SPECS.
 4. FLEX DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT.
 5. LENGTH OF FLEX DUCT SHALL NOT EXCEED 6'-0" WITH UP TO ONE BEND.
 6. PROVIDE DUCT MOUNTED VOLUME DAMPER WHENEVER POSSIBLE. TRY TO AVOID NECK DAMPERS.

3 DIFFUSER CONNECTION DETAIL SCALE N.T.S.



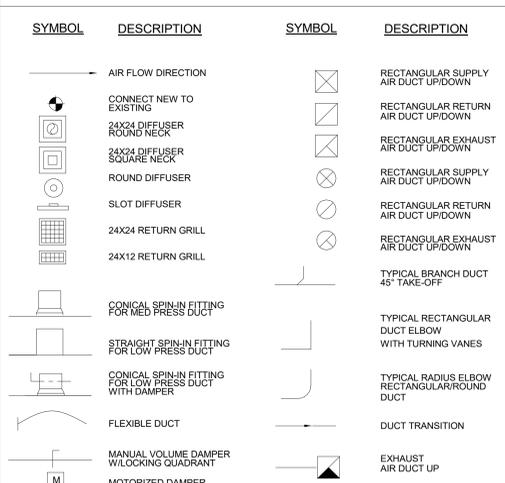
- NOTES:
1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 6 SQ FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
 2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
 3. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.

4 DUCT HANGER SUPPORT DETAIL SCALE N.T.S.

SPECIFICATIONS

1. Follow all local and state codes/ordinances and general conditions of contract. Pay all required fees and obtain all required permits. Submit these plans to building department for plan review. Implement all code review required changes into installation.
2. Equipment, insulation and controls shall be provided as required by the adopted energy code.
3. Verify all existing conditions prior to ordering equipment, providing price quote and/or fabricating ductwork or piping. Change orders will not be required for non-compliance.
4. Contractor shall purchase, receive, uncrate, assemble, insure, and install in conformance to manufacturer's recommendations all mechanical equipment.
5. Mechanical drawings are schematic and not to be scaled. Refer to architectural, certified drawings, and site measurements for all dimensions prior to duct and piping fabrication.
6. As-built scale drawings shall be provided by contractor and submitted to division 15 Engineer at completion showing all piping, duct, and equipment changes.
7. Contractor shall check shop drawings for 100% compliance with contract documents. Submit four (4) copies to division 15 engineer for review prior to ordering.
8. Base bid on specified equipment as shown on plans and in specifications. Substitutions will be processed as change-orders after bidding with all electrical, building alterations, flue requirements and dollar amounts included.
9. Extra costs or change orders allowed only if approved in writing by engineer with dollar amount prior to ordering equipment or fabricating ductwork or piping. No extensions of completion time unless agreed upon by all parties.
10. Provide 2 operating manuals to owner and engineer for all systems and equipment including manufacturer's maintenance manuals. Include lubrication, filter types and sizes, starting and stopping procedures. List contractor's telephone numbers.
11. Supports and anchors shall be provided for Mechanical work. No chain, tape, or wire.
12. Sleeves shall be provided for all pipe and ducts thru walls, floors, and ceilings.
13. Conceal all work in finished areas.
14. Cut and patch to match adjacent areas. No structural member shall be cut or notched.
15. Electrical: confirm voltage, phase, and ampacity with electrical contractor prior to ordering equipment. All 24v controls including interlock wiring for Mechanical equipment by division 15 contractor. Provide magnetic starters for all 3-phase motors with protection on all three leads. Electrical equipment to automatically restart after power failure. All wire in conduit per NEC latest edition.
16. Vibration isolation shall be provided for all equipment. Provide UL listed flexible duct connections on all fans.
17. Temperature control shall be by equipment manufacturer 24v low voltage. Provide all transformers, relays, thermostats, min 18 ga. low voltage wiring in conduit per NEC for a complete operating system.
18. Provide condensate pumps as required where gravity drain condensate is not possible. Provide condensate acid neutralization for all condensate drains to sanitary sewer.
19. Ductwork shall be galvanized sheet metal with 45 max reducing fitting, 20 max increasing fittings. All construction and installation shall be per SMACNA and code standards.
20. Grease duct shall be listed factory duct, or field fabricated to code. Field fabricated grease duct shall be welded 10 gauge steel and shall be fully wrapped with city approved 3" fire wrap. All grease duct shall have cleanouts at each change of direction and each building level penetrated by duct run. All horizontal grease ducts less than 75 feet developed length shall slope at 1/4" per linear foot back to hood, or to an approved grease reservoir/pollution control unit/ grease exhaust fan. Horizontal grease ducts in excess of 75 feet developed length shall slope at 1" per linear foot.
21. All environmental air exhaust (not considered hazardous or noxious) shall discharge a minimum of 3' from property lines and operable openings, and a minimum of 10' from mechanical air intakes. Product conveying exhaust outlets shall discharge a minimum of 10' from property lines, operable openings, and above adjoining grade. Product conveying exhaust outlets shall discharge a minimum of 3' from exterior walls and roofs.
22. Duct insulation for all rectangular HVAC supply/return ducts shall be internally lined. Duct insulation for all round/oval spiral HVAC supply/return ducts that are located in unconditioned spaces shall be internally lined. Liner shall be Schuler Permacote 1.5" thick ul-181 class-1 EPA registered anti-microbial fiberglass liner attached with silo-klips 12" oc each way and 100% coverage of flame proof adhesive. Duct exposed to weather to be insulated with liner at 3" thickness. Increase duct interior dimension to allow for liner. Elbows for rectangular duct shall be provided multi-bend turning vanes or 1.5 centerline radius. Round ducts shall be externally wrapped with 1.5" thick Halstead insul-tube ul-181 class-1 covered fiberglass strapped and taped in place. Exposed spiral duct is not to be insulated on exterior. Flexible ductwork shall be limited to 8ft or max allowed by local code. Flexible ductwork shall be provided with UL listed and plenum rated Thermflex FlexFlow elbow supports at inlet/outlet connections.
23. All return air plenum materials shall be plenum rated or shall be enclosed in a plenum rated enclosure.
24. Seal duct joints and seams with a minimum of 10' from property lines, operable openings, and above adjoining grade. Use approved connectors and 100% silicone sealant.
25. Provide balancing dampers in accessible locations as required. Test and air balance all systems to attain quantities shown on plans. Air CFM flow rates shall be adjusted as required based on site altitude. Balance with dampers at central intake in fittings at main trunk with registers/diffusers wide open or provide dampers at registers/diffusers as required due to inaccessibility of manual balancing dampers. Motors to draw 95% max nameplate amps. Tabulate all motors, grilles, registers, and diffusers with full type-written test and balance report submitted to engineer for approval prior to final payment. Balance airflow within 5% of noted CFM.
26. Fire dampers and fire smoke dampers where noted on plan or where required: Provide Greenheck or equal listed damper approved for application. No dampers shall be installed in hazardous, range, or grease exhaust ducts. Ducts 4" or less in diameter penetrating fire rated assemblies do not require fire dampers, provide approved fire caulking at penetrations. All fire/smoke dampers shall be 120V rated and wired by electrical contractor and shall be interlocked with fire protection controls. Provide remote test stations as required by code.
27. Gas piping shall be schedule 40 black iron with Vega Mega/Press-connect fittings complying with ANSI L-C-4CSAG-20-12 inside building and from meter to building where not buried. Verify gas line routing with architect and building department prior to installation. Costs involved in gas service shall be included in bid. Provide line size valve immediately prior to entering building. Provide equipment regulators to suit pressure supplied and gas equipment requirements. Gas piping on roof shall run on 1/2" Line C-Post supports per code. Paint all exposed gas piping per code. Prior to each piece of equipment, provide gas valve, union, dirt leg, all accessible per code.
28. Requests for information (RFIs) from contractor shall include at least one proposed solution which complies with the intent of these contract documents.
29. Fire caulk fire rated wall/ceiling/door penetrations with HILTI or equal listed fire caulk.
30. Guarantee all labor and new equipment per this contract for one year from the date of acceptance by owner.

LEGEND



GAS FIRED ROOFTOP HVAC UNIT SCHEDULE

PLAN CODE	MANUFACTURER	MODEL #	COOLING DATA				HEATING DATA		FAN DATA		ELECTRICAL DATA				WT. (LBS)	AREA SERVED	DIMENSIONS INC. CURB (LxWxH)	NOTES	
			95F AMBIENT, 80F DB RET, 62F WB RET	NOMINAL ARI TONS	MBH TOTAL	MBH SENSIBLE	EER (SEER2)	IEER	MBH INPUT	A/FUE %	CFM AT ALT.	E.S.P. "WC	OSA INTAKE MIN. SETTING CFM	VOLTS					PHASE
RTU #1	TRANE	YHC092F4	7.5	89.0	62.4	12.6	14.5	200	80	3,000	1.1	REFER TO OSA CALCS	460	3	20.0	25	1400	89'x54'x65'	1, 2, 3, 5, 6, 8, 9, 10, 12, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25
RTU #2	TRANE	YHC036E4	7.0	37.1	25.1	(15.0)	-	120	80	1,000	0.94	REFER TO OSA CALCS	460	3	12.0	15	850	70'x45'x55'	1, 2, 3, 5, 6, 8, 9, 10, 12, 15, 16, 17, 18, 22, 23, 24, 25

GAS FIRED SPACE HEATER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL #	HEATING DATA		FAN DATA		ELECTRICAL DATA				WT. (LBS)	AREA SERVED	NOTES		
			TYPE AT ALT.	INPUT MBH @ SL	EFFICIENCY %	CFM AT ALT.	E.S.P. "WC	OSA INTAKE MIN. SETTING CFM	VOLTS	PHASE				FLA	HP
GSH #1	CAMBRIDGE	S1850	DIRECT	1850	92	8,565	0.19	100%	460	3	11.1	7.5	2200	100 - HANGAR	1, 2, 3, 4, 5, 6, 7, 9, 11, 16, 17, 18, 19, 20, 21

FAN SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	TYPE	AREA SERVED	FAN DATA			ELECTRICAL DATA				WT. (LBS)	FAN CONTROL	NOTES			
					CFM AT ALTITUDE	S.P. "WC	RPM	SYSTEM TYPE	BLADE TYPE	DRIVE	ROOF (WALL) OPENING				VOLTS	PHASE	HP (WATTS)
EF #1 & 2	GREENHECK	AER-20-VG	SIDEWALL PROPPELLER	SEE PLANS	4250	0.3	1436	EXHAUST	PROP	DIRECT	(22.5"x22.5")	115	1	1	150	E	1, 2, 5, 6, 7, 8, 11, 13, 15, 16 INTERLOCK TO OPERATE WITH GSH-1.
EF #3	GREENHECK	G-140-VG	ROOF CENTRIFUGAL	SEE PLANS	1500	0.3	1200	EXHAUST	BI	DIRECT	18.5"x18.5"	115	1	1/2	90	G	1, 2, 3, 5, 6, 7, 8, 14, 15, 16
KEP #1	GREENHECK	CUE-100H-VG	ROOF CENTRIFUGAL	SEE PLANS	800	1.0	2411	EXHAUST	BI	DIRECT	15.5"x15.5"	115	1	1/2	100	E	1, 2, 4, 6, 7, 8, 14, 15, 16. PROVIDE WITH 24" VENTED CURB, GREASE CUP, INTERLOCK TO OPERATE WITH GH-1.

DUCTLESS FAN COIL UNIT SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	TYPE	AREA SERVED	COOLING DATA SEE CU SCHEDULE	HEATING DATA		FAN DATA			ELECTRICAL		OUTDOOR AIR CFM	AREA SERVED	Notes	
						NOMINAL ARI TONS	CU-#	MBH TOTAL	REFRIGERANT	CONDENSER FAN CFM @ 0.07" SP	HP	MCA				WATTS
DFC #1	SAMSUNG	RNS09ABC	WALL MOUNTED	0.75	CU-1	-	392	-	-	1	27	208/230	1	-	SEE PLANS	1, 2, 3, 6, 7, 8, 9, 10, 11, 12

AIR COOLED CONDENSING UNIT SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	NOMINAL ARI TONS	MBH TOTAL	MBH SENSIBLE	EER (SEER2)	REFRIGERANT	CONDENSER FAN CFM @ 0.07" SP	COMPRESSOR/FAN DATA		ELECTRICAL DATA				WT. (LBS)	EQUIPMENT SERVED	NOTES	
									STAGES	SOUND RATING (DB)	VOLTS	PHASE	MCA	MOCP				
CU #1	SAMSUNG	RXS09ACC	0.75	9	99	(24.5)	R-410A	-	-	1	45	208/230	1	12	20	100	DFC-1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

ELECTRIC UNIT HEATER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	WATTS	BTU/H	ELECTRICAL DATA		WT. (LBS)	CFM @ S.L.	AREA SERVED	EQUIPMENT CONTROL	DIMENSIONS	NOTES
					VOLTS	PHASE						
EUH #1	MODINE	HER 50	5,000	17,100	208	1	40	380	SEE PLANS	B	15" X 17.5" X 17.5" H	1, 3, 4, 6, 7, 8

CEILING FAN SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	TYPE	AREA SERVED	FAN DATA			ELECTRICAL DATA				WT. (LBS)	FAN CONTROL	NOTES		
					SIZE	S.P. "WC	RPM	FINISH	BLADE TYPE	DRIVE	VOLTS				PHASE	HP (WATTS)
FAN #1-2	BIG ASS FANS	BA6-24	STRUCTURE MOUNTED	SEE PLANS	24 FT	-	61	ALUM	AIRFOIL	GEAR	460	3	2.0	250	B	1, 2, 3, 4, 5, 6, ONE CONTROLLER TO OPERATE BOTH HANGAR FANS

ENERGY RECOVERY VENTILATOR UNIT SCHEDULE

PLAN CODE	MANUFACTURER	MODEL #	SUMMER (COOLING) DATA		WINTER (HEATING) DATA		FAN DATA		ELECTRICAL DATA				WT. (LBS)	AREA SERVED	DIMENSIONS INC. CURB (LxWxH)	NOTES	
			NOMINAL SUPPLY TEMPERATURE (DEG F)	OSA ENTHALPY RECOVERY RATIO (%)	-10F AMBIENT, 70F DB RET, 58F WB RET	NOMINAL SUPPLY TEMPERATURE (DEG F)	OSA ENTHALPY RECOVERY RATIO (%)	SUPPLY CFM @ ALT	EXHAUST CFM @ ALT	E.S.P. "WC	VOLTS	PHASE					MCA
ERV #1	GREENHECK	ERV-10-20L-VG	74.4	85.8	54.0	79	600	600	0.75	208	1	21.9	25	300	SEE PLANS	46'x34'x28'	1, 2, 5, 6, 7, 8, 9, 11, 12, 15 (2 KW), 19, 20



REVISIONS

MARK	PERMIT COMMENTS (REV #)	DESCRIPTION	DATE
1			

Key Plan

SIGNATURE STEWART (SWF) HANGAR

1188 1ST STREET, NEW WINDSOR, NY 12553



SIGNATURE FLIGHT SUPPORT 13485 VETERANS WAY, SUITE 600 ORLANDO, FLORIDA 32827

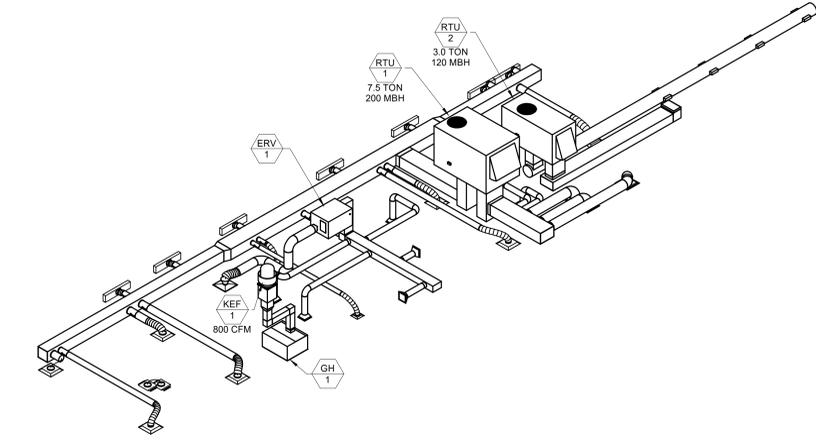
ISSUE DATE: 06/12/2024 COMM. NO.: 2023-177

DRAWN BY: JH CHECKED BY: DL / RS

MECHANICAL DETAILS AND SCHEDULES

M001

APPLICABLE CODES	
2020 BUILDING CODE OF NEW YORK STATE	
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE	
2020 MECHANICAL CODE OF NEW YORK STATE	
2020 PLUMBING CODE OF NEW YORK STATE	
2020 FUEL GAS CODE OF NEW YORK STATE	
2015 TENANT CONSTRUCTION REVIEW MANUAL	



1 MECHANICAL ISOMETRIC

CO2 PURGE SYSTEM SEQUENCE OF OPERATIONS

WHEN CO2 SENSOR DETECTS LEVELS OF SPACE CO2 ABOVE 900 PPM, THE ASSOCIATED UNIT SHALL OPEN THE OSA DAMPER TO THE HIGH VALUE. THE OSA DAMPER SHALL STAY AT THE HIGH VALUE UNTIL THERE IS A CALL FOR ECONOMIZING OR THE CO2 LEVEL HAS DROPPED BELOW THE CO2 SENSOR SETPOINT (500 PPM).

RTU-1: 30%
RTU-2: 20%

SENSOR SPECIFICATIONS:
ARMSTRONG MODEL AMC-310
CO2 SENSOR MUST BE INSTALLED 3-6 FEET ABOVE FINISHED FLOOR

PLAN CODE GH #	MANUFACTURER	MODEL	TYPE	DIMENSIONS	EXHAUST DATA			SUPPLY DATA		ELECTRICAL DATA		FIRE PROTECTION SYSTEM	WT (LBS)	NOTES	
					COOKING LOAD	EXHAUST RATE (CFM/FT)	SP ("W.C.)	TOTAL CFM	SP ("W.C.)	TOTAL CFM	VOLTS				PHASE
GH-1	GREENHECK	GXEW-48-S	WALL CANOPY	48" X 39" W X 24" H	HEAVY	200	0.58	800	-	-	115	1	ANSUL R-102	200	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15

PLAN CODE LVR #	MANUFACTURER	MODEL #	TYPE	CONSTRUCTION	APPLICATION	CFM	SIZE (IN.)	PD ("W.C.)	FINISH	QUANTITY	NOTES

PLAN CODE # X XXX	MANUFACTURER	MODEL # / SERIES	TYPE	CONSTRUCTION	NOMINAL CFM	SIZE (INCHES)	FINISH	NOTES	AIR DEVICE NUMBER (SEE SCHEDULE)	NECK SIZE IN INCHES
1 X XXX	PRICE	SCD	CEILING DIFFUSER	STEEL	SEE PLANS	SEE PLANS	SEE ARCH	2		
2 X XXX	PRICE	TB03	SLOT SUPPLY DIFFUSER	STEEL	SEE PLANS	4 FT LONG	SEE ARCH	2, 7, 12, 14, 17		
3 X XXX	PRICE	PDF	PERFORATED CEILING DIFFUSER	ALUMINUM	SEE PLANS	SEE PLANS	STANDARD	2, 6		
4 X XXX	PRICE	81	RETURN GRILLE	ALUMINUM	SEE PLANS	SEE PLANS	STANDARD	2, 9, 19		
5 X XXX	PRICE	81	EXHAUST REGISTER	ALUMINUM	SEE PLANS	SEE PLANS	STANDARD	2, 9, 19		
6 X XXX	PRICE	ATG	DOOR/WALL TRANSFER GRILLE	ALUMINUM	SEE PLANS	SEE PLANS	STANDARD	2		
7 X XXX	PRICE	SDG	SPIRAL DUCT SUPPLY DIFFUSER	STEEL	SEE PLANS	SEE PLANS	STANDARD	4, 5		

OUTSIDE AIR CALCULATIONS: IMC Code (table 403.3)											
HVAC SYSTEM:		RTU-1		7.5 Ton Cooling		Total SA = 3,000 CFM		Set OSA min set = 20.0%			
Room Type:	Room Name and Room #	AREA (sqft)	OSA per person	OSA CFM per sqft	People per 1000sqft	# of People	Total min OSA CFM req'd	Total minimum OSA CFM req'd	Total Room Supply Air (SA) CFM	Total OSA CFM Provided	Result:
Break Rooms (ASHRAE62.1 2016 T.6.2.1.1)	101 - Kitchenette (PARTIAL)	234	5.0	0.12	50	12	87	108	900	180	Complies.
Occupiable Storage Rooms (ASHRAE62.1)	102 - Stock Room/Pantry	300	5.0	0.06	2	1	21	26	475	95	Complies.
Corridors	103 - Corridor	342	0.0	0.06	0.0	0.0	21	26	400	80	Complies.
Corridors	104 - Corridor	134	0.0	0.06	0.0	0.0	8	10	50	10	Complies.
Toilet Rooms (EXHAUST)	105 - Women	64					0	0	50	10	Complies.
Toilet Rooms (EXHAUST)	106 - Men	63					0	0	100	20	Complies.
Toilet Rooms (EXHAUST)	109 - Unisex	81					0	0	100	20	Complies.
Office	111 - Fl. Ops. Office	120	5.0	0.06	5	1	10	13	125	25	Complies.
Office	112 - Maint. Office	119	5.0	0.06	5	1	10	13	125	25	Complies.
Conference	113 - Conf.	376	5.0	0.06	50	19	117	146	675	135	-
Total Floor Area =		1,833					273	341	3,000	600	

* SPACE CONTAINS DEMAND CONTROLLED VENTILATION. REFER TO CO2 SEQUENCE FOR DETAIL.

OUTSIDE AIR CALCULATIONS: IMC Code (table 403.3)											
HVAC SYSTEM:		GSH-1		0.0 Ton Cooling		Total SA = 8,565 CFM		Set OSA min set = 100.0%			
Room Type:	Room Name and Room #	AREA (sqft)	OSA per person	OSA CFM per sqft	People per 1000sqft	# of People	Total min OSA CFM req'd	Total minimum OSA CFM req'd	Total Room Supply Air (SA) CFM	Total OSA CFM Provided	Result:
Warehouses	100 - Hangar	33,813	10.0	0.06	0.0	0.0	2,029	2,536	8,565	8,565	Complies.
Total Floor Area =		33,813					2,029	2,536	8,565	8,565	

OUTSIDE AIR CALCULATIONS: IMC Code (table 403.3)											
HVAC SYSTEM:		RTU-2		3.0 Ton Cooling		Total SA = 1,200 CFM		Set OSA min set = 10.0%			
Room Type:	Room Name and Room #	AREA (sqft)	OSA per person	OSA CFM per sqft	People per 1000sqft	# of People	Total min OSA CFM req'd	Total minimum OSA CFM req'd	Total Room Supply Air (SA) CFM	Total OSA CFM Provided	Result:
Occupiable Storage Rooms (ASHRAE62.1)	114 - Maintenance Parts & Shop	808	5.0	0.06	2	2	57	71	1,200	120	-
Total Floor Area =		808					57	71	1,200	120	

* SPACE CONTAINS DEMAND CONTROLLED VENTILATION. REFER TO CO2 SEQUENCE FOR DETAIL.

OUTSIDE AIR CALCULATIONS: IMC Code (table 403.3)											
HVAC SYSTEM:		ERV-1		0.0 Ton Cooling		Total SA = 600 CFM		Set OSA min set = 100.0%			
Room Type:	Room Name and Room #	AREA (sqft)	OSA per person	OSA CFM per sqft	People per 1000sqft	# of People	Total min OSA CFM req'd	Total minimum OSA CFM req'd	Total Room Supply Air (SA) CFM	Total OSA CFM Provided	Result:
Break Rooms (ASHRAE62.1 2016 T.6.2.2.1)	101 - Kitchenette (PARTIAL)	334	5.0	0.12	50	17	124	154	600	600	Complies.
Total Floor Area =		334					124	154	600	600	



REVISIONS		
MARK	DESCRIPTION	DATE
1	PERMIT COMMENTS	08/20/24
2	REV RFI	08/20/24

Key Plan

SIGNATURE STEWART (SWF)
HANGAR

1188 1ST STREET, NEW WINDSOR, NY 12553



SIGNATURE FLIGHT SUPPORT
13485 VETERANS WAY, SUITE 600
ORLANDO, FLORIDA 32827

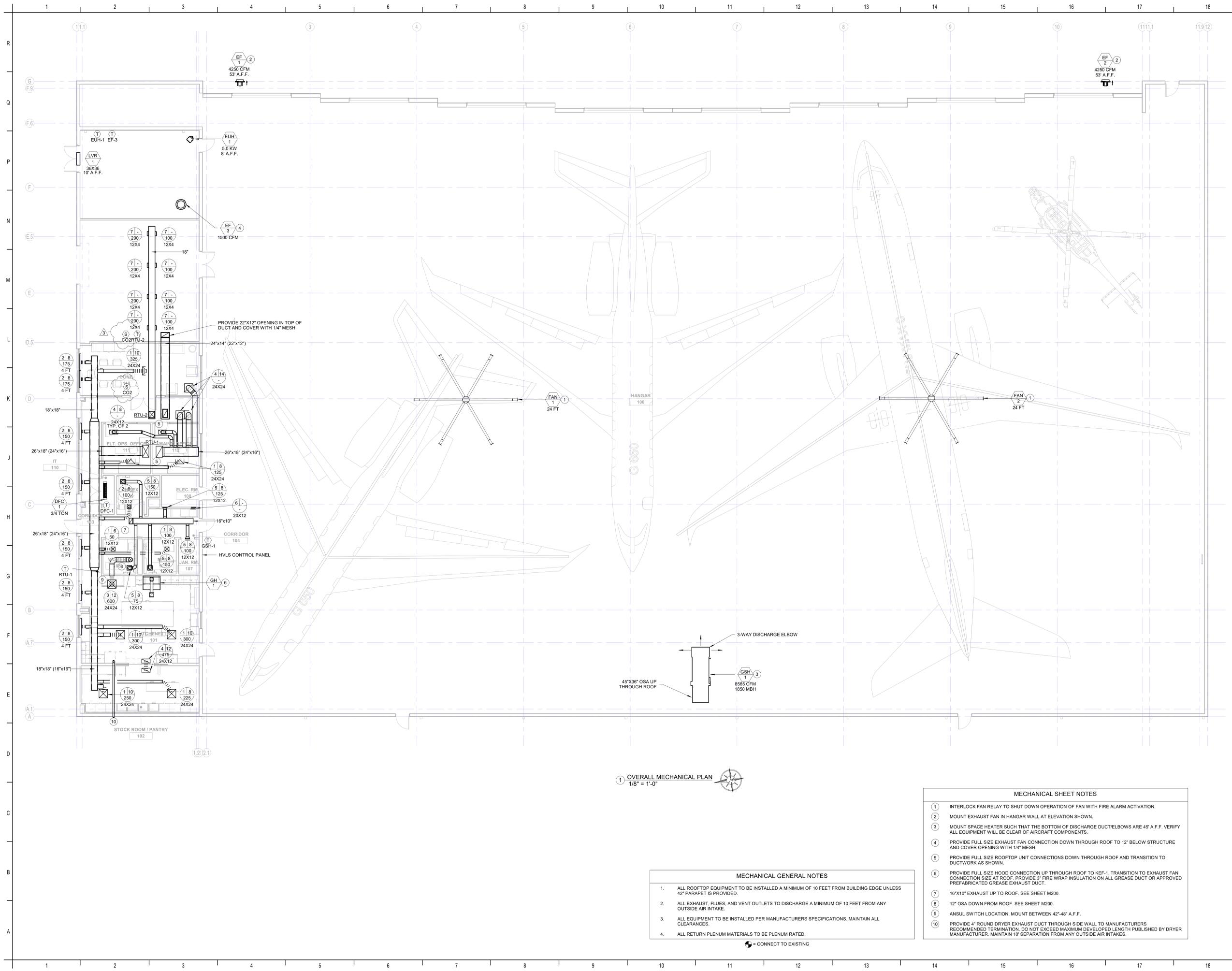
ISSUE DATE: 06/12/2024
COMM. NO.: 2023-177

DRAWN BY: JH CHECKED BY: DL / RS

MECHANICAL DETAILS AND SCHEDULES

M002

100% PERMIT SET



1 OVERALL MECHANICAL PLAN
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

- ALL ROOFTOP EQUIPMENT TO BE INSTALLED A MINIMUM OF 10 FEET FROM BUILDING EDGE UNLESS 42" PARAPET IS PROVIDED.
- ALL EXHAUST, FLUES, AND VENT OUTLETS TO DISCHARGE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. MAINTAIN ALL CLEARANCES.
- ALL RETURN PLENUM MATERIALS TO BE PLENUM RATED.

☐ = CONNECT TO EXISTING

MECHANICAL SHEET NOTES

- INTERLOCK FAN RELAY TO SHUT DOWN OPERATION OF FAN WITH FIRE ALARM ACTIVATION.
- MOUNT EXHAUST FAN IN HANGAR WALL AT ELEVATION SHOWN.
- MOUNT SPACE HEATER SUCH THAT THE BOTTOM OF DISCHARGE DUCT/ELBOWS ARE 45" A.F.F. VERIFY ALL EQUIPMENT WILL BE CLEAR OF AIRCRAFT COMPONENTS.
- PROVIDE FULL SIZE EXHAUST FAN CONNECTION DOWN THROUGH ROOF TO 12" BELOW STRUCTURE AND COVER OPENING WITH 1/4" MESH.
- PROVIDE FULL SIZE ROOFTOP UNIT CONNECTIONS DOWN THROUGH ROOF AND TRANSITION TO DUCTWORK AS SHOWN.
- PROVIDE FULL SIZE HOOD CONNECTION UP THROUGH ROOF TO KEF-1. TRANSITION TO EXHAUST FAN CONNECTION SIZE AT ROOF. PROVIDE 3" FIRE WRAP INSULATION ON ALL GREASE DUCT OR APPROVED PREFABRICATED GREASE EXHAUST DUCT.
- 16"x10" EXHAUST UP TO ROOF. SEE SHEET M200.
- 12" OSA DOWN FROM ROOF. SEE SHEET M200.
- ANSUL SWITCH LOCATION. MOUNT BETWEEN 42"-48" A.F.F.
- PROVIDE 4" ROUND DRYER EXHAUST DUCT THROUGH SIDE WALL TO MANUFACTURERS RECOMMENDED TERMINATION. DO NOT EXCEED MAXIMUM DEVELOPED LENGTH PUBLISHED BY DRYER MANUFACTURER. MAINTAIN 10" SEPARATION FROM ANY OUTSIDE AIR INTAKES.



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SIGNATURE FLIGHT SUPPORT
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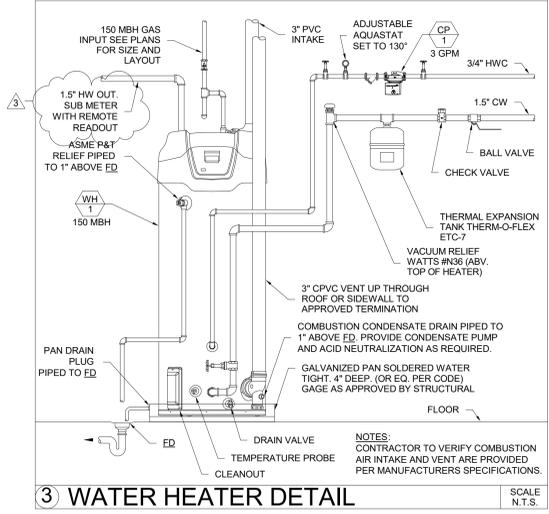
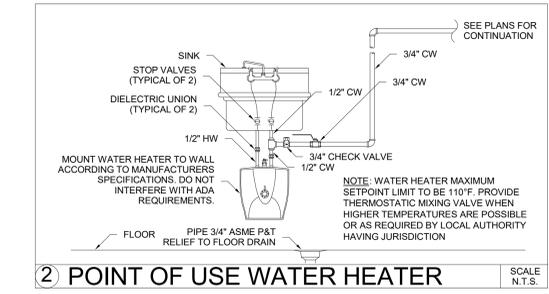
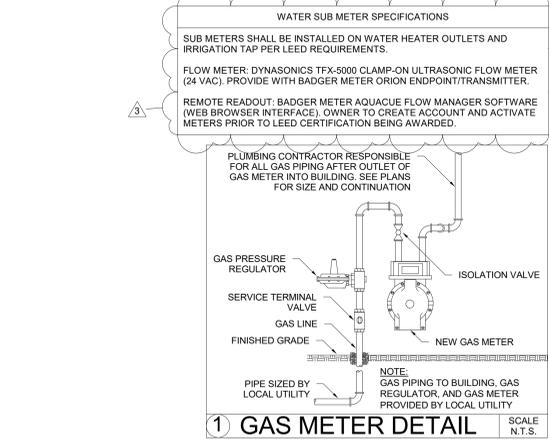
OVERALL MECHANICAL PLAN

M100

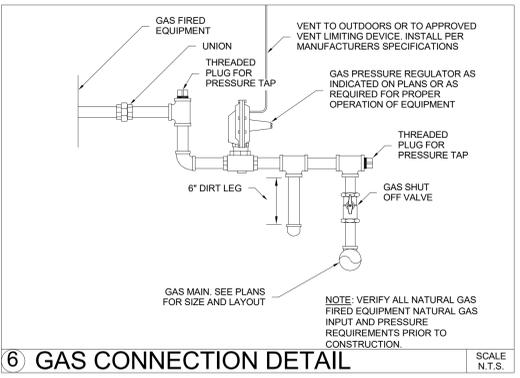
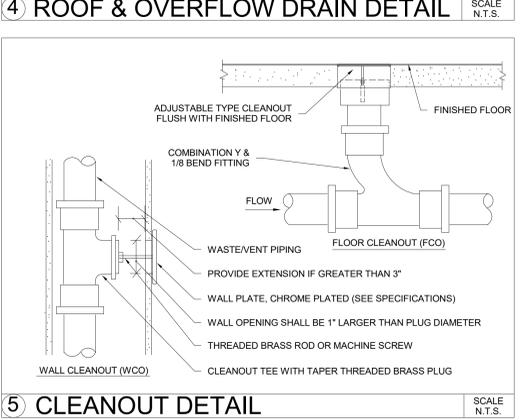
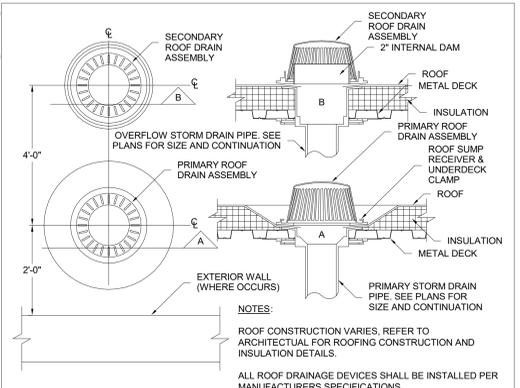
APPLICABLE CODES	
2020 BUILDING CODE OF NEW YORK STATE	
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE	
2020 MECHANICAL CODE OF NEW YORK STATE	
2020 PLUMBING CODE OF NEW YORK STATE	
2020 FUEL GAS CODE OF NEW YORK STATE	
2015 TENANT CONSTRUCTION REVIEW MANUAL	

SAND AND OIL SEPARATOR CALCULATIONS	
NUMBER OF PARKING SPACES	10
1-3 VEHICLES	6 CU. FT.
1 ADDITIONAL CU. FT. PER VEHICLE UP TO 10 VEHICLES	7 CU. FT.
0.15 ADDITIONAL CU. FT. PER VEHICLE ABOVE 10 VEHICLES	0 CU. FT.
CU. FT. REQUIREMENT	13 CU. FT.
GAL. REQUIREMENT	97 GAL.

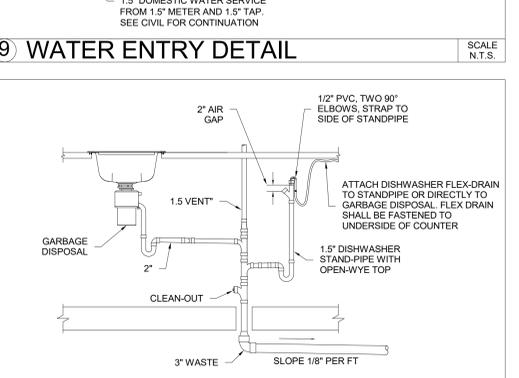
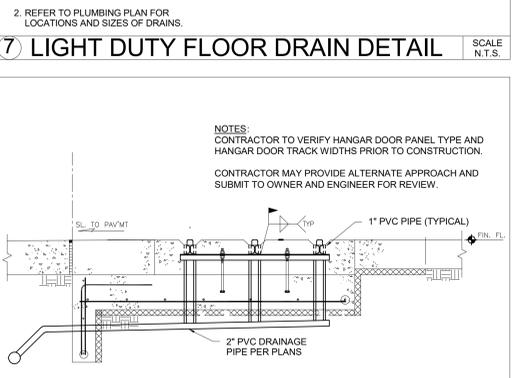
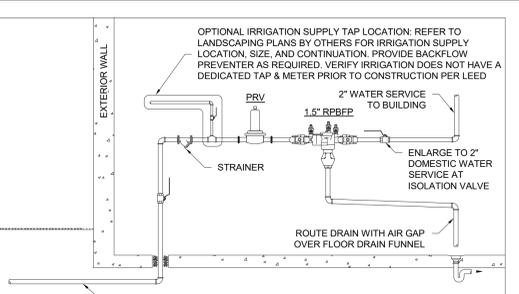
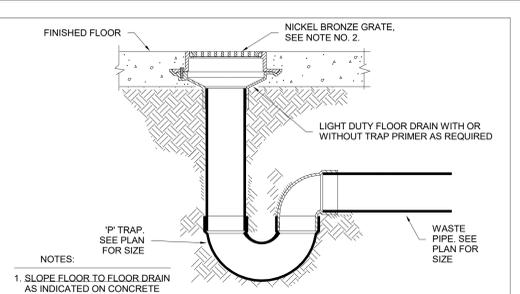
GREASE INTERCEPTOR CALCULATIONS (2018 UPC)			
FIXTURE	QUANTITY	DRAINAGE F.U.	TOTAL DRAINAGE F.U.
DISHWASHER	1	2.0	2.0
FLOOR DRAIN	1	2.0	2.0
COMMERCIAL SINK W/ FOOD WASTE	1	3.0	3.0
HAND SINK	1	2.0	2.0
TOTAL D.F.U. =			9.0
MINIMUM GREASE INTERCEPTOR SIZE (TABLE 1014.3.6) = 750			



- ### SPECIFICATIONS
- Follow all local and state codes/ordinances and general conditions of contract. Pay all required fees and obtain all required permits. Submit these plans to building department for plan review. Implement all code review required changes into installation.
 - Equipment, insulation and controls shall be provided as required by the Adopted energy code.
 - Visit site to verify existing conditions prior to ordering equipment. Provide price quote or fabricating piping. Change orders for non-compliance will not be accepted.
 - Plumbing drawings are schematic and not to be scaled. Refer to architectural, certified drawings, and site measurements for all dimensions prior to duct and piping fabrication.
 - Contractor shall purchase, receive, uncrate, assemble, insure, and install in conformance to manufacturer's recommendations all Plumbing equipment. Plumbing Contractor shall install and final connect owner furnished equipment as indicated.
 - Provide 2 operating manuals to owner and engineer for all systems and equipment including manufacturer's maintenance manuals. Include lubrication, filter types and sizes, starting and stopping procedures. List contractor's telephone numbers.
 - Supports and anchors shall be provided for plumbing work. No chain, tape, or wire.
 - Sleeves shall be provided for all pipe through walls, floors, and ceilings. Provide chrome plated escutcheons for piping penetrations in finished areas.
 - Conceal all work in finished areas.
 - Cut and patch to match adjacent areas. No structural member shall be cut or notched.
 - Any pressure reducing valves should be arranged, tested, and maintained per FM Global Property Loss Prevention Data Sheet 3-11: *Pressure Reducing Valves*. Immediately after installation and once a year after that, conduct a full flow test on the valve. The annual performance Test Record of Pressure Reducing Valves Form (Form 2707) should be used for all full flow tests.
 - Electrical: confirm voltage, phase, and ampacity with electrical contractor prior to ordering equipment. All 24v controls including interlock wiring for plumbing equipment by division 15 contractor. Provide magnetic starters for all 3-phase motors with protection on all three leads. Electrical equipment to automatically restart after power failure. All wire in conduit per NEC latest edition.
 - Excavate for all mechanical work. Compact to 95% AASHO or proctor density in 6" maximum lifts at optimum moisture content. Provide if any settlement within first years guarantee.
 - Valves shall be provided to isolate each piece of equipment and for all rough-ins excluding waste and vent.
 - Water valves shall be Apollo ball valve line-size rated for 200 psig wog. Gas valves shall be AGA listed line-size lubricated.
 - Waste and vent piping shall be cast iron no-hub listed for location installed. Schedule-40 plastic PVC may be used if code approved. Provide cleanouts 50'-0" min of appropriate type inside buildings. Vent through roof with a total cross sectional area to equal to or greater than building sewer main shall be provided.
 - Pipe each evaporative pan drain with p-trap 3/4" minimum to waste. Provide condensate pumps as required where gravity drain condensate is not possible. Provide condensate acid neutralization for all condensate drains to sanitary sewer.
 - Water piping shall be type-L copper (or approved PEX piping and fittings where allowed by local codes) above grade with no-lead ASTM B32 solder and ASMT B813 flux soldered joint (or with Vega ProPress fittings where allowed by local codes). Buried piping or piping within 6" of grade shall be 1/2" silver alpha-brazed joint type-K. Insulate all hot and cold water lines routed in ceiling or crawl space with 1/2" thick preformed fiberglass (1" for circulated Hot Water lines) with UL-181 class-1 plenum rated jacket. Route all piping inboard of building insulation to avoid freezing. Electric heat trace all piping located in unheated areas with Chromalox 7.0 watts/ft cable and 1" thick fiberglass piping insulation with cover (do not route PEX piping in unheated areas).
 - Insulate all horizontal roof drain piping with 1.5" fiberglass insulation with UL-181 class-1 plenum rated jacket.
 - Pressure test all piping per code but to at least 150% max working pressure.
 - Fire caulk fire rated wall/ceiling/floor penetrations with HLL T1 or equal listed fire caulk.
 - Guarantee all labor and new equipment for one year from the date of acceptance by owner.



PLUMBING FIXTURE SCHEDULE									
ITEM	FIXTURE	MANUFACTURER	MODEL NO.	CW	HW	WASTE	VENT	REMARKS	NOTES
WC1	WATER CLOSET - FLUSH VALVE	ZURN	Z5615	1"	-	3"	2"	1.1 GPM TRIM KIT, ZTR6200-ONE FLUSH VALVE, ZURN ZN1201-N WALL CARRIER, ADA COMPLIANT	1, 5, 6, 10, 12
L1	LAVATORY	ELKAY	ELUH1511	1/2"	1/2"	1.5"	1.5"	UNDERMOUNT, KOHLER TOUCHLESS K-7517-VS FAUCET (1.5 GPM), SLOAN ESD-410-SF SOAP DISPENSER	4, 7, 8, 10, 12, 15 (110 DEG F), ADA COMPLIANT
U1	URNAL	ZURN	Z5755	3/4"	-	2"	1.5"	WALL HUNG, ZURN ZER6003 SERIES BATTERY POWERED FLUSH VALVE, 0.125 GPM	2, 6, 10, 12, 17
S1	BREAK ROOM SINK	ZLINE	SR500-36	1/2"	1/2"	2"	1.5"	UNDERMOUNT, DELTA 9659-DST FAUCET (1.5 GPM), IN-SINK-ERATOR BADGER 5 (1/2 HP)	4, 7, 8, 10, 12, 15 (120 DEG F)
S2	HAND SINK - ADA	ZLINE	SUS-15 (SINGLE COMP.)	1/2"	1/2"	2"	1.5"	UNDERMOUNT, DELTA FAUCET 1903-DST	4, 7, 10, 12, 15 (110 DEG F), ADA COMPLIANT
PE	POT FILLER	ZLINE	GEM-FFP	3/4"	-	-	-	REFER TO ARCHITECTURAL FOR FINISH	
IMB	ICE MAKER WALL BOX	SHIQUX CHIEF	696 Series OX Box	1/2"	-	-	-	ABS HOUSING, HAMMER ARRESTER, LEAD-FREE VALVE, ICE MAKER STANDARD PACK	PROVIDE FIRE RATED MODEL IF INSTALLED WITHIN FIRE RATED WALL OR PARTITION
CMB	COFFEE MAKER WALL BOX	SHIQUX CHIEF	696 Series OX Box	1/2"	-	-	-	ABS HOUSING, HAMMER ARRESTER, LEAD-FREE VALVE, WATTS SD-3 DOUBLE-CHECK BACKFLOW PREVENTER, AND INLINE FILTER	PROVIDE FIRE RATED MODEL IF INSTALLED WITHIN FIRE RATED WALL OR PARTITION
DWB	DISHWASHER WALL BOX	SHIQUX CHIEF	696 Series OX Box	-	1/2"	-	-	ABS HOUSING, HAMMER ARRESTER, LEAD-FREE VALVE	PROVIDE FIRE RATED MODEL IF INSTALLED WITHIN FIRE RATED WALL OR PARTITION
WB	WALL BOX	OX BOX	Washing Machine Standard Pack	1/2"	1/2"	3	1.5"	ABS HOUSING, SEPARATE DRAIN BOX FIRE RATED MODEL FOR FIRE RATED WALLS	20
S3	UTILITY SINK	ELKAY	B1C18X18X	1/2"	1/2"	1.5"	1.5"	FLOOR MOUNT, ELKAY LK40AT08L2H DECK FAUCET (1.5 GPM)	2, 4, 7, 8, 10, 11, 12
S4	UTILITY SINK	ULINE	H-8968R	1/2"	1/2"	1.5"	1.5"	FLOOR MOUNT, FACTORY PROVIDED FAUCET, PROVIDE AERATOR TO LIMIT FLOW TO 1.5 GPM	2, 4, 7, 8, 10, 11, 12
MS	MOP SINK	FIAT	TSB-100	1/2"	1/2"	3"	1.5"	FIAT 830-AA FAUCET WITH BRACE, PAUL HOOK (1.5 GPM)	6, 8, 10, 12
HC1	HOSE BIBB	WOODFORD	24P	1/2"	-	-	-	WITH VACUUM BREAKER	VERIFY LOCATION
HC2	HOSE BIBB (FREEZE-PROOF)	WOODFORD	867	3/4"	-	-	-	FLUSH NON-FREEZE BOX TYPE, ALL BRASS WITH ROUGH BRASS BOX COVER, SELF DRAINING BODY W/ DOUBLE CHECK BACKFLOW PREVENTER	VERIFY LOCATION
ID	TRENCH DRAIN	NEENAH FOUNDRY	R-4900-BA (GRATE)	-	-	-	-	AIRCRAFT RATED, GRAY IRON CLASS 35 GRATE WITH EPOXY COATING	REFER TO STRUCTURAL FOR TRENCH DRAIN DETAILS
FS1	FLOOR SINK	ZURN	Z1901	-	-	3"	1.5"	4" DEEP SEAL TRAP, 12X12, ACID RESISTANT, DOME STRAINER, FULL GRATE	16
FS2	FLOOR SINK	ZURN	Z1901	-	-	3"	1.5"	4" DEEP SEAL TRAP, 12X12, ACID RESISTANT, DOME STRAINER, HALF GRATE	16
ED	FLOOR DRAIN	ZURN	Z400 TYPE N	-	-	SEE PLAN	SEE PLAN	DEEP SEAL TRAP, BRASS GRATE	16
SH	SHOWER - TILE WALLS (ADA)	AQUATIC	SB6036	1/2"	1/2"	2"	1.5"	ADA COMPLIANT, KOHLER K-304 MIXING VALVE (120 DEG F), HANDHELD KOHLER ADA SHOWERING PACKAGE (1.5 GPM), SHOWER DRAIN	14, 16, GRAB BARS AND SEAT, SHOWER DRAIN, 60"X36" PAN (VERIFY WITH ARCH)
ESH	EMERGENCY SHOWER/EYE WASH	ULINE	H-10735	1"	1"	-	-	PROVIDE WITH MIXING VALVE (70 DEG F), COMPLY WITH ANSI Z358.1-2009 STANDARD	
DF	DRINKING FOUNTAIN	ELKAY	EZWS-EDPBM117K	1/2"	-	1.5"	1.5"	HILLOW WATER COOLER, 370 W, 4.0 FLA EZH20 BOTTLE FILLING STATION	2, 10, 12
RBFP	BACKFLOW PREVENTER	WATTS	LF009	-	-	-	-	REDUCED PRESSURE TYPE, TWO CHECK VALVES, ONE RELIEF VALVE, INLET/OUTLET VALVES, STRAINER, TEST COCK, DRAIN FUNNEL	UNIT SHALL HAVE ASSE APPROVAL
PRV	PRESSURE REDUCING VALVE	WATTS	LF223	-	-	-	-	PILOT-OPERATED, BRASS, LEAD FREE	NS/FANSI 372
RD	ROOF DRAIN	ZURN	Z121	-	-	SEE PLAN	-	CAST IRON DOME STRAINER, 12"D	
OD	OVERFLOW DRAIN	ZURN	Z121	-	-	SEE PLAN	-	CAST IRON DOME STRAINER	
ECO-A	FLOOR CLEANOUT - AIRCRAFT RATED	ZURN/NEENAH FOUNDRY	Z1440R-3487	SEE PLAN	-	-	-	ZURN CAST IRON CLEANOUT WITH PLUG, NO HUB, NEENAH AIRPORT CLEANOUT, DUCTILE IRON FRAME AND LID, PROVIDE EPOXY COATING ON LID.	
WH-1	WATER HEATER	STATE	SUF100-160NE	1.5"	1.5"	-	-	100 GALLON, 160 MBH S.L. NATURAL GAS INPUT SEE DETAIL, 120V/1P, 27.75" DIA X 75.5" H	12-13: 3" PVC COMBUSTION AIR INTAKE AND CPVC VENT SET TEMPERATURE TO 140 DEG F
WH-2	WATER HEATER	STATE	GTS-910-NIEA	1"	1"	-	-	TANKLESS, 0.5 GPM MINIMUM, 380 MBH S.L. NATURAL GAS INPUT, 120V/1P, 25"X13"X25"H	12, 13, 5" PVC COMBUSTION AIR INTAKE AND CPVC VENT
WH-3	WATER HEATER	STATE	ES6 2 SSS K	3/4"	3/4"	-	-	2.5 GALLON, 1.5 KW ELECTRICAL INPUT SEE DETAIL, 120V/1P, 13.75" L X 11" D X 13.75" H	12, 13
CP-1	CIRCULATION PUMP	GRUNDFOS	UP 15-10 B7	-	1/2"	-	-	3 GPM @ 3 FT HD, 115V/1P, 1/25 HP, BRASS HOUSING, SS IMPELLER, SEE DETAIL	
SOI-1	SAND-OIL INTERCEPTOR	PRE-CAST	1500 GALLON	-	-	6"	3"	1500 GALLON	
GI-1	GREASE INTERCEPTOR	PRE-CAST	800 GALLON	-	-	3"	3"	800 GALLON	
EAV-1	ELECTRICALLY-ACTUATED BUTTERFLY VALVE	ASSURED AUTOMATION	STLESSAA	24"	-	-	-	24" DUCTILE IRON, 120 VAC ACTUATOR (MODEL K4) INSTALL WITHIN AIRCRAFT RATED VALVE BOX SIZED PER MFR, AIRCRAFT RATED MANHOLE COVER	INTERLOCK WITH FIRE ALARM SYSTEM, VALVE TO BE NORMALLY CLOSED AND SHALL OPEN DURING FIRE ALARM EVENT. VALVE SHALL OPEN IN EVENT OF POWER FAILURE
EAV-2	ELECTRICALLY-ACTUATED BUTTERFLY VALVE	ASSURED AUTOMATION	STLESSAA	6"	-	-	-	6" DUCTILE IRON, 120 VAC ACTUATOR (MODEL K4) INSTALL WITHIN AIRCRAFT RATED VALVE BOX SIZED PER MFR, AIRCRAFT RATED MANHOLE COVER	INTERLOCK WITH FIRE ALARM SYSTEM, VALVE TO BE NORMALLY OPEN AND SHALL CLOSE DURING FIRE ALARM EVENT. VALVE SHALL CLOSE IN EVENT OF POWER FAILURE



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 10082
 08/12/2024

REVISIONS		
MARK	DESCRIPTION	DATE
1	PERMIT COMMENTS (REV 01)	08/20/24
2		08/20/24

Key Plan

1188 1ST STREET, NEW WINDSOR, NY 12553

SIGNATURE STEWART (SWF) HANGAR

1188 1ST STREET, NEW WINDSOR, NY 12553

SIGNATURE AVIATION

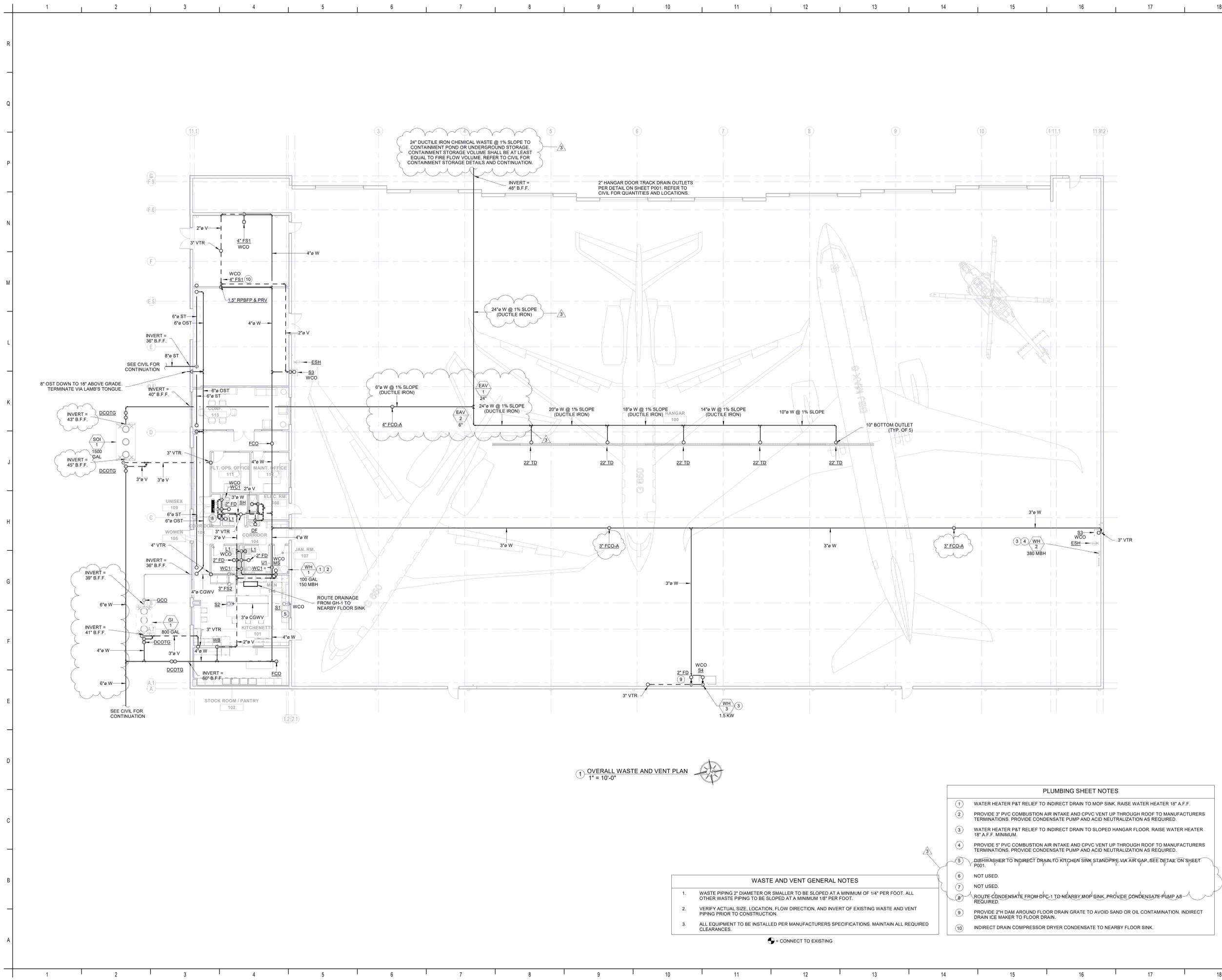
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PLUMBING DETAILS AND SCHEDULES

P001

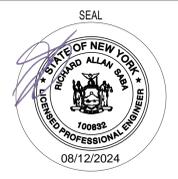


1 OVERALL WASTE AND VENT PLAN
1" = 10'-0"

- WASTE AND VENT GENERAL NOTES**
1. WASTE PIPING 2" DIAMETER OR SMALLER TO BE SLOPED AT A MINIMUM OF 1/4" PER FOOT. ALL OTHER WASTE PIPING TO BE SLOPED AT A MINIMUM 1/8" PER FOOT.
 2. VERIFY ACTUAL SIZE, LOCATION, FLOW DIRECTION, AND INVERT OF EXISTING WASTE AND VENT PIPING PRIOR TO CONSTRUCTION.
 3. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. MAINTAIN ALL REQUIRED CLEARANCES.

- PLUMBING SHEET NOTES**
1. WATER HEATER P&T RELIEF TO INDIRECT DRAIN TO MOP SINK. RAISE WATER HEATER 18" A.F.F.
 2. PROVIDE 3" PVC COMBUSTION AIR INTAKE AND CPVC VENT UP THROUGH ROOF TO MANUFACTURERS TERMINATIONS. PROVIDE CONDENSATE PUMP AND ACID NEUTRALIZATION AS REQUIRED.
 3. WATER HEATER P&T RELIEF TO INDIRECT DRAIN TO SLOPED HANGAR FLOOR. RAISE WATER HEATER 18" A.F.F. MINIMUM.
 4. PROVIDE 5" PVC COMBUSTION AIR INTAKE AND CPVC VENT UP THROUGH ROOF TO MANUFACTURERS TERMINATIONS. PROVIDE CONDENSATE PUMP AND ACID NEUTRALIZATION AS REQUIRED.
 5. DISHWASHER TO INDIRECT DRAIN TO KITCHEN SINK STANDPIPE VIA AIR GAP. SEE DETAIL ON SHEET P001.
 6. NOT USED.
 7. NOT USED.
 8. ROUTE CONDENSATE FROM DFC-1 TO NEARBY MOP SINK. PROVIDE CONDENSATE PUMP AS REQUIRED.
 9. PROVIDE 2" DAM AROUND FLOOR DRAIN GRATE TO AVOID SAND OR OIL CONTAMINATION. INDIRECT DRAIN ICE MAKER TO FLOOR DRAIN.
 10. INDIRECT DRAIN COMPRESSOR DRYER CONDENSATE TO NEARBY FLOOR SINK.

◻ = CONNECT TO EXISTING



REVISIONS

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1	REB RFI		08/20/24
2			08/20/24

Key Plan

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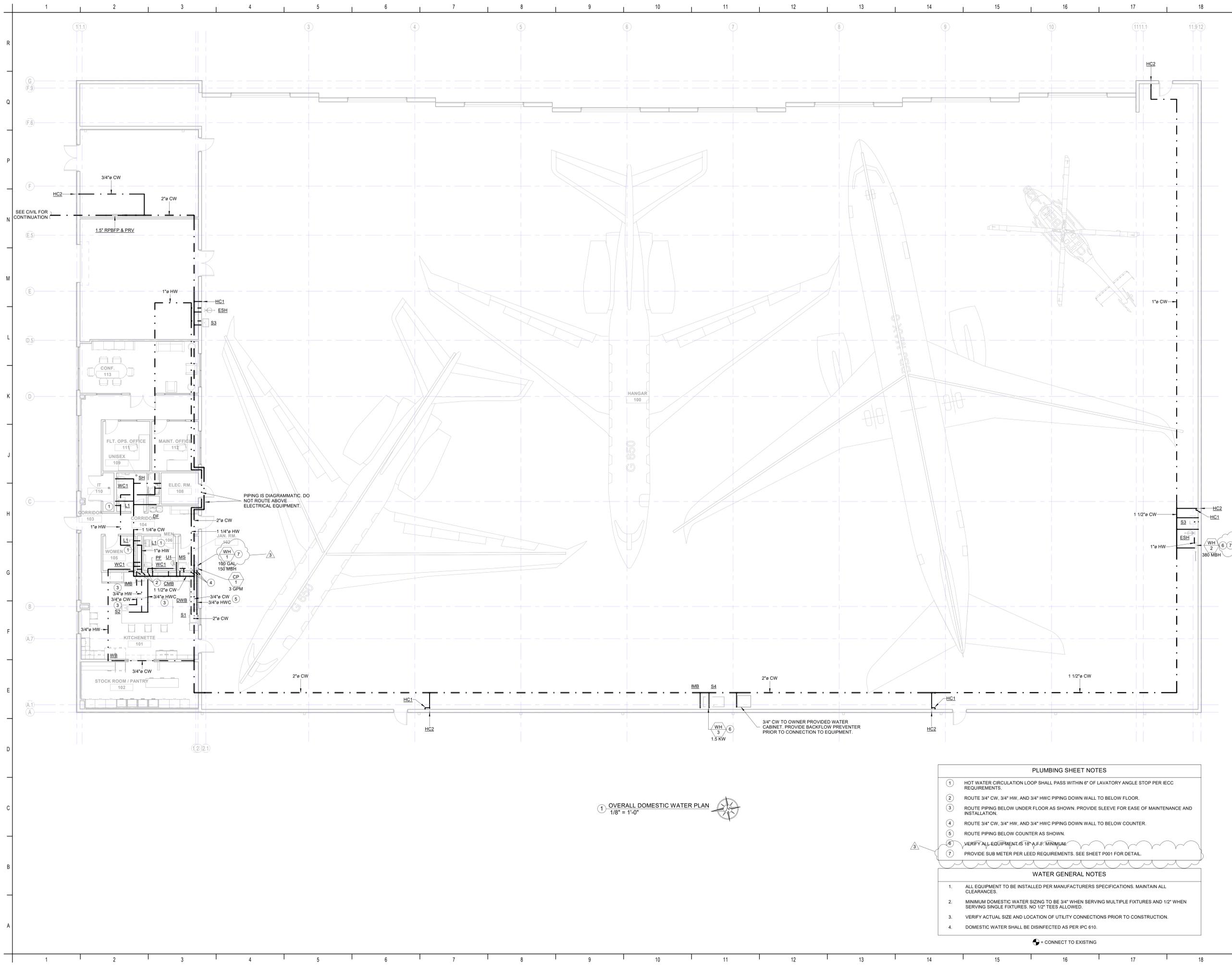
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OVERALL WASTE AND VENT
PLAN

P100

100% PERMIT SET



1 OVERALL DOMESTIC WATER PLAN
1/8" = 1'-0"

- PLUMBING SHEET NOTES**
- HOT WATER CIRCULATION LOOP SHALL PASS WITHIN 6" OF LAVATORY ANGLE STOP PER IECC REQUIREMENTS.
 - ROUTE 3/4" CW, 3/4" HW, AND 3/4" HWC PIPING DOWN WALL TO BELOW FLOOR.
 - ROUTE PIPING BELOW UNDER FLOOR AS SHOWN. PROVIDE SLEEVE FOR EASE OF MAINTENANCE AND INSTALLATION.
 - ROUTE 3/4" CW, 3/4" HW, AND 3/4" HWC PIPING DOWN WALL TO BELOW COUNTER.
 - ROUTE PIPING BELOW COUNTER AS SHOWN.
 - VERIFY ALL EQUIPMENT IS 18" A.F.F. MINIMUM.
 - PROVIDE SUB METER PER LEED REQUIREMENTS. SEE SHEET P001 FOR DETAIL.
- WATER GENERAL NOTES**
- ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. MAINTAIN ALL CLEARANCES.
 - MINIMUM DOMESTIC WATER SIZING TO BE 3/4" WHEN SERVING MULTIPLE FIXTURES AND 1/2" WHEN SERVING SINGLE FIXTURES. NO 1/2" TEES ALLOWED.
 - VERIFY ACTUAL SIZE AND LOCATION OF UTILITY CONNECTIONS PRIOR TO CONSTRUCTION.
 - DOMESTIC WATER SHALL BE DISINFECTED AS PER IPC 610.
- CONNECT TO EXISTING



REVISIONS

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1	PERMIT COMMENTS	06/20/24
2	REVISED	06/20/24

Key Plan

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OVERALL DOMESTIC WATER PLAN

P200