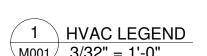
21013 POLICE HQ FIT-OUT

MECHANICAL INDEX MECHANICAL COVERSHEET M001 HVAC PLANS HVAC SCHEDULES M202

PLUMBING INDEX DWV PLUMBING PLANS PLUMBING DETAILS & SCHEDULES

		HVA	C SCHEDI	JLE		
SYMBOL	ABBR.	MEANING	SYMBOL	MEANING	ABBR.	MEANING
CHWS	CHWS	CHILLED WATER SUPPLY		PUMP (SCHEMATIC)	DN	DOWN
CHWR	CHWR	CHILLED WATER RETURN		PUMP (SCHEMATIC)	CD	CONDENSATE DRAIN
CW	CW	CONDENSER WATER LINE	T	THERMOSTAT	FV	FOOT VALVE
GW	GW	GREY WATER LINE (NON-POTABLE)		THERMOSTAT	NC	NORMALLY CLOSED
С	С	DOMESTIC COLD WATER SUPPLY	H	HUMIDISTAT	FR	FROM
DX-	DX	REFRIGERANT SUPPLY AND RETURN COMBINED		HOMIDISTAT	ETR	EXHAUST THROUGH ROOF
		CONTROL WIRE	P	PRESSURE SENSOR	TLD	TO LATER DETAIL
├		PIPE TURNING UP		FRESSURE SENSOR	UF/UG	UNDER FLOOR/UNDER GROUND
├		PIPE TURNING DOWN	(v)	VELOCITY SENSOR	AF/AG	ABOVE FLOOR/ABOVE GROUND
├		TRAP WITH CLEANOUT	V	VELOCIT I SENSON	USS	UNDER SIDE OF SLAB, STEEL OR ROOF
├		SHUT-OFF VALVE	013	VARIABLE AIR VOLUME TERMINAL SHOWN	AFG	ABOVE FINISHED GRADE
<i>←</i>		BALANCING COCK	EH EH	WITH ELECTRIC HEAT AND TAG	CTE	CONNECT TO EXISTING
→		CHECK VALVE/BACKFLOW VALVE	18x8	LINED RECTANGULAR DUCT WITH	NTS	NOT TO SCALE
<u></u>		THREE-WAY VALVE	1,000	INTERIOR DIMENSIONS	VAV	VARIABLE AIR VOLUME
├		REDUCER/ENLARGER	18/8	WRAPPED OVAL DUCT WITH	PD	PRESSURE DROP
, _P ,		SOLENOID VALVE	10/0	INTERIOR DIMENSIONS	FCU	FAN COIL UNIT
(SOLENOID VALVE	18Ø	UNINSULATED ROUND DUCT	AHU	AIR HANDLING UNIT
<u> </u>		WYE STRAINER	100	WITH INTERIOR DIMENSIONS	CH	CHILLER
, ,		WILCHIAMEN	100	FLEXIBLE DUCT WITH SIZE LABEL	EX	HEAT EXCHANGER
←		VACUUM BREAKER		TELXIBLE DOOT WITH SIZE LABEL	EF	EXHAUST FAN
} 		WATER HAMMER ARRESTOR	18Ø	DUCT WITH FIRE DAMPER AND	DX	DIRECT EXPANSION
├		REGULATOR	100	ACCESS DOOR	DIFF	DIFFUSER
- _		POSITIVE PRESSURE AIR FLOW (SUPPLY)	A 12"Ø	AIR TERMINAL TAG	CCT	CIRCUIT
─		NEGATIVE PRESSURE AIR FLOW (RETURN)	450	OFW	EH	ELECTRIC HEAT
U/C		GC TO UNDERCUT DOOR 3/4" OR AS NOTED	8C-001 10	FAN COIL UNIT TAG	EDH	ELECTRIC DUCT HEATER
24x12				CFM OA	EXH	EXHAUST
24/12		OVAL DUCT WIDTH AND HEIGHT (IN.)		SUPPLY DUCT RECTANGULAR SECTION	S	SUPPLY
24Ø		ROUND DUCT DIAMETER (IN.)		EXHAUST DUCT RECTANGULAR SECTION	R	RETURN
				EXHAUST/OA DUCT RECTANGULAR SECTION	RA	RETURN AIR
			\otimes	SUPPLY DUCT OVAL SECTION	GC	GENERAL CONTRACTOR
			\otimes	SUPPLY DUCT ROUND SECTION	OD	OUTSIDE DIMENSION (ROUND, DIAMETER)



		PLUMBI	NG SCHE	DUL	_E		
SYMBOL	ABBR.	MEANING	SYMBOL	ABBR.	MEANING	ABBR.	MEANING
RWL	RWL	RAIN WATER LEADER ABOVE FLOOR LEVEL	₩		VALVE IN RISER	WH	WATER HEATER
RWL	RWL	RAIN WATER LEADER BELOW FLOOR LEVEL	Ş		OOLENOID VALVE	PT	PRESSURE TANK
GWL	GWL	GREY WATER LEADER ABOVE FLOOR LEVEL	├		SOLENOID VALVE	CI	CAST IRON
GWL	GWL	GREY WATER LEADER BELOW FLOOR LEVEL			WYE STRAINER	CU	COPPER
	S	BATHROOM SOILED WASTE ABOVE FLOOR LEVEL	\ \\\		Wiestrainer	FD	FLOOR DRAIN
	S	BATHROOM SOILED WASTE BELOW FLOOR LEVEL	}		VACUUM BREAKER	RD	ROOF DRAIN
-W-	W	WASTE DRAINAGE ABOVE FLOOR LEVEL	├		REGULATOR	AD	AREA DRAIN
	W	WASTE DRAINAGE BELOW FLOOR LEVEL			WATER HAMMER ARRESTOR	IRR	IRRIGATION
V	V	VENT PIPE	€		PIPE TURNING DOWN	DN.	DOWN
СС	С	DOMESTIC COLD WATER SUPPLY	├		PIPE TURNING UP	CD	CONDENSATE DRAIN
	Н	DOMESTIC HOT WATER SUPPLY	├ ────────────────────────────────────		POOL DIRECTIONAL RETURN	FV&S	FOOT VALVE AND STRAINER
HWR-	HWR	DOMESTIC HOT WATER RETURN	<u> </u>		VACUUM CONNECTION	A/C	AIR CONDITIONER
	IRR	IRRIGATION LINE	<u></u>	HB	HOSE BIB	D/W	DISHWASHER
SUC	SUC	FRESH WATER SUCTION LINE			END CAP	NC	NORMALLY CLOSED
G	G	GAS	<u></u>		ANTI VORTEX DRAIN	FR.	FROM
F	F	FIRE PROTECTION			ANTI VORTEX DRAIN	WV	WET VENT
PR	PR	POOL RETURN	♦		FLOOR RETURN	VTR	VENT THROUGH ROOF
PS	PS	POOL SUPPLY	,		PLOOR RETURN	TLD	TO LATER DETAIL
GW	GW	GREY WATER LINE (NON-POTABLE)	├		VENT PIPE	UF/UG	UNDER FLOOR/UNDER GROUND
		CONTROL WIRE	A		PLUMBING FIXTURE TAG	AF/AG	ABOVE FLOOR/ABOVE GROUND
\times \times \times \times \times \times		EXISTING PIPE TO BE REMOVED			T EUNIDING FIXTURE TAG	USS	UNDER SIDE OF SLAB, STEEL, OR ROOF
			R		CATCHBASIN TAG	AFG	ABOVE FINISHED GRADE
. CO	CO	CLEANOUT	В		CATCHBASIN TAG	CTE	CONNECT TO EXISITING
⊱——© CO	CO	CLEANOUT TO GRADE			ROADWAY CATCHBASIN	NTS	NOT TO SCALE
├────────────────────────────────────	COAC	CLEANOUT WITH ACCESS COVER			HOADWAT CATCHBASIN	BWW	BERMUDA WATERWORKS
──		P-TRAP	н	МН	HYDRANT	TBD	TO BE DETERMINED
├ ────────────────────────────────────	GW	RUNNING TRAP AND VENT		IVIT	HIDHANI	FFD	FUNNEL FLOOR DRAIN
		SHUT-OFF VALVE	MH		MANHOLE	PD	PORCH DRAIN
<u></u>		BALANCING COCK			IVITAINIOLL		
\		CHECK VALVE/BACKFLOW VALVE			PUMP (SCHEMATIC)		
\		THREE-WAY VALVE			1 ONII (OOIILMATIO)		
$\longleftarrow \qquad \qquad$		REDUCER/ENLARGER	H		WATER METER		

1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE LOCAL CODES IN FORCE.

2. ALL INSTALLATION OF PIPE, FIXTURES & EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICE.

3. ALL EQUIPMENT SHALL BE MOUNTED ON OR SUSPENDED FROM THE STRUCTURE WITH RESILIENT HARDWARE & SHALL BE INSTALLED WITH SUFFICIENT PROTECTIVE MEASURES TO PREVENT TRANSMISSION OF VIBRATIONS TO THE SUPPORTING STRUCTURE & OTHER

4. DO NOT SUPPORT CONDUIT OR PIPING FROM EXISTING DUCTWORK NOR SUPPORT

DUCTWORK FROM EXISTING CONDUIT OR PIPING. DO NOT DRILL STRUCTURAL MEMBERS USE BEAM CLAMPS OR OTHER APPROVED STRUCTURAL ATTACHMENT DEVICES. CLAMPS & HANGARS SHALL ATTACH TO BOTH SIDES OF BEAM TO PREVENT MOMENTS & TWISTING. WHERE DIRECT ACCESS TO STRUCTURAL MEMBERS IS NOT POSSIBLE, PROVIDE INTERMEDIATE UNISTRUT TRAPEZE HANGARS FOR SPAN OF OBSTRUCTION.

THESE DRAWINGS ARE BASED ON CURRENT KNOWLEDGE & PROPER COORDINATION BY THE CONTRACTOR ON SITE IS REQUIRED TO ENSURE COMPATABILITY WITH SITE CONDITIONS. FHE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY CLAIM PERTAINING TO COORDINATION.

7. SEAL ALL PENETRATIONS THROUGH RATED WALLS WITH APPROVED FIRESTOPPING CAULK. CONTRACTOR SHALL PROVIDE & INSTALL AT ALL WALL & FLOOR PENETRATIONS A PERMANENT FIRE STOP SYSTEM. THE PENETRATION SEAL MATERIAL MUST BE UNAFFECTED BY MOISTURE & MUST MAINTAIN THE INTEGRITY OF THE FLOOR OR WALL ASSEMBLY FOR ITS

8. THE CONTRACTOR SHALL VERIFY ALL FIREWALL PENETRATIONS & SHALL INSTALL APPROPRIATELY RATED FIRE DAMPER ASSEMBLIES & FIRE STOPPING AS REQUIRED BY THE

9. SERVICE ACCESS DOORS SHALL BE PROVIDED FOR ALL FIXTURES, PIPE FITTINGS & EQUIPMENT WHERE REQUIRED FOR SERVICING. ALL FIRE DAMPERS SHALL BE ACCESSIBLE THROUGH RATED DUCT ACCESS DOORS. 10. ALL CEILING OR WALL SERVICE ACCESS DOORS SHALL MATCH CEILING & WALL FINISH. FINAL

LOCATION TO BE COORDINATED ON SITE. 11. THERMOSTATS SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR LEVEL UNLESS OTHERWISE INDICATED.

12. ALL DUCT TAPS FOR FINAL RUNOUTS TO DIFFUSERS, GRILLES & CEILING CASSETTES/FAN COILS SHALL BE EQUIPPED WITH BALANCING DAMPERS.

13. ALL DUCT DIMENSIONS ARE CLEAR INSIDE. 14. ALL DOORS TO WASHROOMS, BATHROOMS & CHANGING ROOMS TO BE UNDERCUT 1/2"

UNLESS OTHERWISE SPECIFIED. 15. FLEXIBLE DUCT TO BE INSTALLED AS TIGHT AND WITH AS FEW CURVES AS POSSIBLE.

MAXIMUM LENGTH 6'-0", EXCEPT WHERE SHOWN AND NOTED. 16. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED

17. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HVAC CONTROLS & CONTROL WIRING. ALL CONTROL WIRING SHALL BE RUN IN EMT OR PVC CONDUIT, AS APPROPRIATE.

18. ALL CONDUITS, POWER WIRING & ALL OTHER ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE PROVIDED BY DIVISION 16. MECHANICAL CONTRACTOR SHALL ENSURE THAT ELECTRICAL CONTRACTOR INCLUDES FOR ALL ELECTRICAL ITEMS RELATED TO THE MECHANICAL INSTALLATION WHICH HAVE BEEN EXCLUDED FROM THE MECHANICAL SCOPE AND VERIFY ALL ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.

19. DUCTWORK SHALL CONFORM TO THE FOLLOWING ASPECT RATIOS: A. RECTANGULAR DUCT: <3:1

B. RECT. W/INCREASED METAL THICKNESS: >3:1 AND <4:1 C. SPIRAL OVAL DUCT: >4:1

20. INSTALL DUCT IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE 2018.

21. INSTALL DUCT AND HYDRONIC PIPING INSULATION IN ACCORDANCE WITH INTERNATIONAL **ENERGY CONSERVATION CODE 2018.** 22. CONDENSATE DRAIN LOCATIONS TBD BY CONTRACTOR AND SHALL BE BY AIR-GAP INDIRECT

CONNECTION TO NEAREST SUITABLE SANITARY OR GREY WATER DRAINAGE PIPES. ALL CONDENSATE DRAINS (INCLUDING IN CEILINGS & SHAFTS) SHALL BE INSULATED WITH AN APPROPRIATE THICKNESS OF INSULATING MATERIAL (≤ 1" - ½" ARMAFLEX; > 1" - 1"

23. SLOT DIFFUSERS SHALL BE PROVIDED WITH EITHER FACTORY BUILT OR FIELD BUILT INSULATED PLENUMS TO ALLOW DUCT CONNECTION.

24. BORDERS, FRAMES, COLOURS & OTHER AESTHETIC FEATURES OF DIFFUSERS, GRILLES, REGISTERS, LOUVRES & OTHER AIR TERMINAL DEVICES SHALL BE APPROVED BY OWNER &/OR ARCHITECT. MECHANICAL CONTRACTOR SHALL PROVIDE DETAIL OF INSTALLATION METHOD AS PART OF PRODUCT SUBMITTAL

25. ITEMS OF MATERIAL & EQUIPMENT NOT SPECIFICALLY NOTED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS BUT WHICH ARE NECESSARY TO MAKE A COMPLETE & OPERATING INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORKS.

26. CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL MATERIALS, COMPONENTS AND EQUIPMENT FOR REVIEW WITHIN 2 WEEKS OF CONTRACT AWARD. 27. ALL PERFORMANCE REQUIREMENTS & PRODUCT SPECIFICATIONS MUST BE REVIEWED BY A FACTORY ENGINEER OR AUTHORIZED REPRESENTATIVE FOR CONFORMANCE WITH DESIGN PRIOR TO PURCHASE. QUESTIONS SHOULD BE SUBMITTED IN WRITING TO ONSITE

FNGINFFRING 28. DUCT ELEVATIONS (TOD OR BOD) WHERE SHOWN ARE PROVIDED AS A GUIDE TO THE CONTRACTOR AS TO THE DUCT LAYOUT & SHALL NOT BE USED IN LIEU OF COORDINATION FOR MANUFACTURE. DUCT ELEVATIONS WHERE SHOWN ARE INCLUSIVE OF 2" INSULATION.

WALLS & CEILINGS UNLESS OTHERWISE INDICATED ON DRAWINGS. 30. ALL MATERIALS EXPOSED WITHIN ANY PLENUM SPACE SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT

29. REFRIGERANT PIPING FOR MINI-SPLIT AIR CONDITIONING SYSTEMS SHALL BE CONCEALED IN

RATING OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. 31. ALL DUCTS, PIPEWORK, VALVES, DAMPERS, EQUIPMENT AND OTHER ACCESSORIES SHALL BE LABELLED AS TO THEIR USE WITH DIRECTIONAL ARROWS (IF SUITABLE) WITH PLASTIC TAGS OR ADHESIVE STICKERS.

32. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL UNIT LOCATIONS AND REQUIRED OPENINGS FOR DUCTWORK, PIPING & RETURN AIR PLENUMS BASED ON THE AS BUILT CONDITIONS OF THE SITE. GC SHALL PROVIDE SUCH OPENINGS AS

10. INSULATION:

1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE LOCAL CODES

ALL EQUIPMENT AND MATERIALS SHALL BE NEW.

ALL INSTALLATION OF PIPE, FIXTURES & EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICE.

THESE DRAWINGS ARE BASED ON CURRENT KNOWLEDGE. PROPER COORDINATION BY THE CONTRACTOR WITH ALL OTHER TRADES ON SITE IS REQUIRED TO ENSURE COMPATABILITY WITH SITE CONDITIONS.

SERVICE ACCESS DOORS SHALL BE PROVIDED FOR ALL FIXTURES. PIPE FITTINGS & EQUIPMENT WHERE REQUIRED FOR SERVICING. 6. ALL CEILING OR WALL SERVICE ACCESS DOORS SHALL MATCH CEILING &

WALL FINISH. FINAL LOCATION TO BE COORDINATED ON SITE. PROVIDE & INSTALL SHUT-OFF VALVES FOR ALL FIXTURES INSTALLATION. REFER TO PLUMBING SCHEDULES FOR ALL FIXTURE LINE SIZES AND CONNECTIONS.

8. PROVIDE & INSTALL SHUT-OFF VALVES & UNIONS FOR ALL EQUIPMENT (PUMPS, PRESSURE TANKS, WATER HEATERS ETC.) INSTALLATION.

9. ALL DEWATERING OF PIPE TRENCHES FOR INSTALLATION OF PIPING BY GENERAL CONTRACTOR. TRENCH TO BE KEPT DRY UNTIL INSPECTION & BACKFILLING IS COMPLETE.

A. DOMESTIC HOT WATER - 1/2" FIBREGLASS OR ARMAFLEX B. HOT WATER RETURN - 1/2" FIBREGLASS OR ARMAFLEX

C. HORIZONTAL GREY & RAIN WATER PIPE & ALL EXPOSED (CEILING & SHAFT) CONDENSATE PIPE - 1" FIBREGLASS D. STEAM PIPE - 2" FIBREGLASS

11. INSULATION SHALL BE CONTINUOUS AND THE VAPOUR BARRIER SHALL BE PRESERVED AT ALL HANGARS, JOINTS, FITTINGS & EQUIPMENT. HANGARS SHALL BE OVERSIZED AS REQUIRED TO ACCOUNT FOR INSULATION

A. COLD WATER SUPPLY - NPS SCH 40 PVC OR UPONOR CTS SDR9 PEX

PIPE & FITTINGS B. DOMESTIC HOT WATER - NPS SCH 80 CPVC OR UPONOR CTS SDR9 PEX PIPE & FITTINGS C. HOT WATER RETURN - NPS SCH 80 CPVC OR UPONOR CTS SDR9 PEX

D. DRAINS & VENTS - NPS SCH 40 PVC PIPE WITH PVC DRAINAGE (DWV)

E. SEWER & STORM - NPS SDR35 PVC GASKETED PIPE & FITTINGS F. GAS (OUTSIDE) - NPS SDR11 POLYETHYLENE PLASTIC GAS PIPE SUITABLE FOR UNDERGROUND BURIAL. MANUFACTURED IN ACCORDANCE WITH ASTM D 2513.

G. GAS (INSIDE) - CTS TYPE L COPPER TUBING (ACR) ALL JOINTS TO BE EXPOSED PER CODE REQUIREMENTS. BELOW GRADE COPPER TO BE PLACED IN YELLOW FLEX CONDUIT. H. FUEL PIPING - DOUBLE WALLED PLASTIC FUEL PIPE. PIPE SHALL BE

PLACED IN PROTECTIVE SLEEVE FOR BURIAL. 13. PIPE & FITTINGS WITHIN 6" OF DOMESTIC WATER PUMPS SHALL BE SCH 40

GALVANIZED WITH THREADED FITTINGS.

14. ALL JOINT THREADS SHALL BE SEALED WITH PTFE TAPE OR OTHER APPROPRIATE PIPE THREAD SEALANT

15. ALL PVC TO METAL PIPE JOINTS SHALL BE MPT PVC TO FPT METAL FITTING. 16. CLEANOUTS SHALL BE INSTALLED IN ALL PIPES DRAINING UNDER GRAVITY INSTALLED AT EACH 90° BEND IN PIPE. AT THE TOP AND BOTTOMS OF RISERS AND AT A MAXIMUM INTERVAL OF 50 FEET.

17. ALL DRAINAGE, VENT, RAINWATER & GREY WATER PIPING SHALL HAVE A MINIMUM SLOPE (UNLESS NOTED) OF: A. LESS THAN 3" DIAMETER: 1/4"PER FOOT

B. 3" OR MORE DIAMETER: 1/8"PER FOOT.

18. ALL CONDUITS, WIRING AND ALL OTHER ASSOCIATED ELECTRICAL EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM SHALL BE

19. ALL RELATED CIVIL WORKS SHALL BE PROVIDED BY CIVIL TRADES. MECHANICAL CONTRACTOR SHALL ENSURE THAT GENERAL CONTRACTOR INCLUDES FOR ALL CIVIL WORKS RELATED TO THE MECHANICAL INSTALLATION WHICH HAVE BEEN EXCLUDED FROM THE MECHANICAL SCOPE AND VERIFY ALL CIVIL REQUIREMENTS PRIOR TO INSTALLATION.

20. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED 21. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS UNLESS

INDICATED OTHERWISE. 22. PENETRATIONS THROUGH FIRE RATED PARTITIONS (INCLUDING FLOOR SLABS SHALL BE TREATED WITH APPROPRIATE FIRE STOPPING MEASURES

AS REQUIRED BY THE BUILDING CODE. 23. PIPE ENDS SHALL BE CUT SQUARE AND DEBURRED INSIDE & OUTSIDE BEFORE BEING FITTED.

24. ITEMS OF MATERIAL & EQUIPMENT NOT SPECIFICALLY NOTED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS BUT WHICH ARE NECESSARY TO MAKE A COMPLETE & OPERATING INSTALLATION SHALL BE

INCLUDED IN THE CONTRACTOR'S SCOPE OF WORKS. 25. CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL MATERIALS. COMPONENTS AND EQUIPMENT FOR REVIEW WITHIN 2 WEEKS OF

CONTRACT AWARD.

BDA GOVT. COVID-19 SAFETY REGULATIONS CURRENTLY IN FORCE

1. CONTRACTORS ARE TO FOLLOW ALL RELEVANT

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The Contractor shall check and verify all levels, datum points and dimensions and report any discrepancy or omission to the Engineer prior to construction.

Read this drawing alongside architectural and any other Consultants' documentation. OES shall not be held

responsible for lack of Contractor coordination or violations

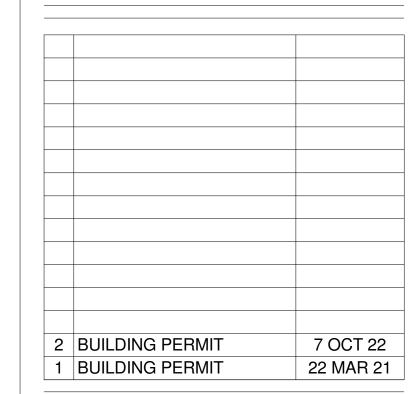
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resulting from incorrect application process.

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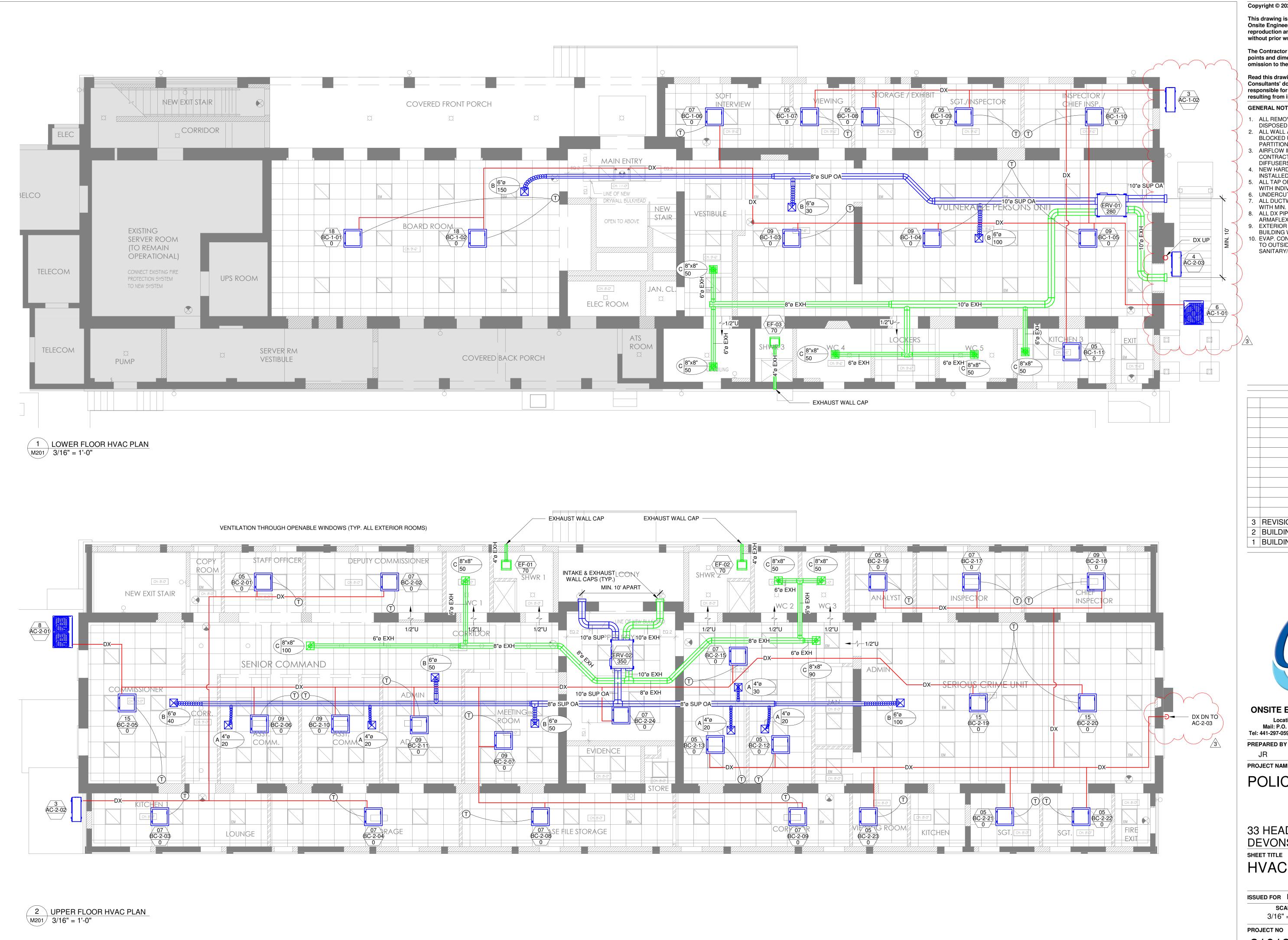
POLICE HQ FIT-OUT

33 HEADQUARTERS HILL DEVONSHIRE, DV02 SHEET TITLE

MECHANICAL COVERSHEET

PROJECT NAME

ISSUED FOR BUILDING PERMIT SHEET SIZE 24" x 36" 3/32" = 1'-0" SHEET NO PROJECT NO



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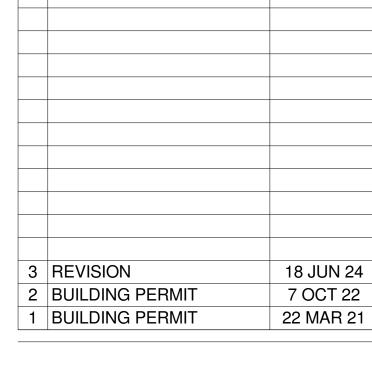
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GENERAL NOTES:

- 1. ALL REMOVED EQUIPMENT TO BE LAWFULLY
- DISPOSED OF OFF SITE. 2. ALL WALL AND FLOOR PENETRATIONS TO BE BLOCKED UP TO SAME FIRE RATING AS ADJACENT
- PARTITION. 3. AIRFLOW IMPEDIMENTS TO BE CHECKED BY CONTRACTOR BEFORE FINAL PLACEMENT OF
- DIFFUSERS. 4. NEW HARD RECT/ROUND DUCT TO BE BE
- INSTALLED WHERE SHOWN. 5. ALL TAP OFFS AND DIFFUSERS TO BE EQUIPPED
- WITH INDIVIDUAL DAMPERS.
- 6. UNDERCUT DOORS WHERE SHOWN. 7. ALL DUCTWORK AND FAN COILS TO BE INSULATED
- WITH MIN. R-8 INSULATION. 8. ALL DX PIPING TO BE INSULATED WITH 1/2" WALL
- ARMAFLEX OR SIMILAR APPROVED INSULATION.
- 9. EXTERIOR DX PIPING TO BE SURFACE MOUNTED TO BUILDING WITH LINE SET COVERS.
- 10. EVAP. CONDENSATE LINES TO DRAIN BY GRAVITY TO OUTSIDE OF BUILDING OR TO BUILDING SANITARY/WASTE SYSTEM BY APPROVED AIR GAP.







ONSITE ENGINEERING SERVICES LTD.

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PROJECT NAME

POLICE HQ FIT-OUT

33 HEADQUARTERS HILL DEVONSHIRE, DV02

HVAC PLANS

ISSUED FOR REVISION SHEET SIZE 24" x 36" 3/16" = 1'-0" PROJECT NO SHEET NO REVISION M201

	DIFFUSER & REGISTER SCHEDULE										
NOTE: CONT ORDERING	NOTE: CONTRACTOR SHALL VERIFY CEILING TYPE, AIR TERMINAL COLOUR, BORDER & ALL OTHER OPTIONS WITH ARCHITECT &/OR OWNER PRIOR TO ORDERING										
TYPE	MANUFACTURER	MODEL	NECK SIZE	COUNT	REMARKS						
Α	TITUS	TMS	4"ø	5	12" x 12" SUPPLY DIFFUSER						
В	B TITUS TMS 6"ø 7 12" x 12" SUPPLY DIFFUSER										
C TITUS 271FS 8"x8" 10 12" x 12" RETURN GRILLE											

										ERV SCHE	DULE						
						FRESH A	IR SIDE			ROOM	AIR SIDE						
			VOLTAGE /	FLOW	MOTOR	SUM	MER	WI	NTER	FLOW	MOTOR	FAN	M.C.A.	M.O.C.P.			
UNIT NUMBER	SERVICE	LOCATION	PHASE / HZ	RATE (CFM)	POWER (HP)	E.D.B.T. ('F)	E.W.B.T. ('F)	E.D.B.T. ('F) E.W.B.T. ('F	F) RATE (CFM)	POWER (HP)	SETTING	(A)	(A)	MANUFACT.	MODEL NUMBER	REMARKS
ERV-01	LOWER FLOOR	LOWER FLOOR	208-230/1/60	280		90	76	53	51	250			4.1	15.0	GREENHECK	MINIVENT-450	CO2 SENSOR CONTROLLED. OR EQUIVALENT APPROVED.
ERV-02	UPPER FLOOR	UPPER FLOOR	208-230/1/60	350		90	76	53	51	340			4.1	15.0	GREENHECK	MINIVENT-450	CO2 SENSOR CONTROLLED. OR EQUIVALENT APPROVED.

												FAN	COIL SCHEDU	JLE										
										MAXII	MUM REFRIC	ERANT CONCE	NTRATION ALLOW	ED (R-410A): 26	LBS/1000 CU. FT.									
OUTDOOR UNIT							SPE	CIFICATION	ONS											REFRIGERAN	T CONCENTRATION	CALCULATIONS		
INDOOR UNIT NUMBER	SERVICE / ROOM	MANUFACT.	MODEL NUMBER	LOCATION	MAX AIR FLOW (CFM)		VOLTS / PHASE / HZ	M.C.A. (A)	M.O.C.P. (A)	ENTERIN DBT (F)	G ENTERIN RH (%)		CAPACITY (MBH OT. ACTUAL TOT.) ACTUAL SEN	OUTSIDE ACCESSORIES	REMARKS	ROOM AREA (SF)	ADDT'L AF (SF)	REA HEIGH (FT)	,	REFRIGERANT CHARGE (LBS)	REFRIGERANT DENSITY (LBS/1000 CU. FT.)	REMARKS	LOCATION
AC-1-01			•									·	·	·					·	,				
BC-1-01	BOARD ROOM	DAIKIN	FXZQ18TAVJU	CEILING MOUNT	495	H/L	208-230/1/60	0.9	15	74	55%	18,000	15,470	10,700	0		738	0	9' - 6"	7,014	20.3	2.89		
BC-1-02	BOARD ROOM	DAIKIN	FXZQ18TAVJU	CEILING MOUNT	495	H/L	208-230/1/60	0.9	15	74	55%	18,000	15,470	10,700	0		738	0	9' - 6"	7,014	20.3	2.89		
BC-1-03	VULNERABLE PERSONS UNIT	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	8.0	15	74	55%	9,500	8,170	5,665	0		1,112	0	16' - 6		20.3	1.11		
BC-1-04	VULNERABLE PERSONS UNIT	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	8.0	15	74	55%	9,500	8,170	5,665	0		1,112	0	16' - 6	10,001	20.3	1.11		
BC-1-05	VULNERABLE PERSONS UNIT	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	0.8	15	74	55%	9,500	8,170	5,665	0		1,112	0	16' - 6		20.3	1.11		
BC-1-06	SOFT INTERVIEW	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	8.0	15	74	55%	7,500	6,815	4,970	0		127	0	9' - 6"	-,	20.3	16.76		
BC-1-10	INSPECTOR/CHIEF INSPECTOR	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	8.0	15	74	55%	7,500	6,815	4,970	0		135	0	9' - 6"	1,284	20.3	15.81		
AC-1-02				T ==	_	1		_																
BC-1-07	VIEWING	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	8.0	15	74	55%	5,800	5,100	4,060	0		61	0	9' - 6"		10.1	17.39		
BC-1-08	STORAGE/EXHIBIT	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	8.0	15	74	55%	5,800	5,100	4,060	0		70	0	9' - 6"	000	10.1	15.24		
BC-1-09	SGT./INSPECTOR	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	8.0	15	74	55%	5,800	5,100	4,060	0		101	0	9' - 6"	960	10.1	10.52		
BC-1-11	LOWER KITCHEN	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	8.0	15	74	55%	5,800	5,100	4,060	0		82	0	9' - 6"	782	10.1	12.92		
AC-2-01						1 1											1							
BC-2-04	STORAGE	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	8.0	15	74	55%	7,500	6,815	4,970	0		167	545	8' - 0"	-,	31.7	5.57		
BC-2-05	COMISSIONER	DAIKIN	FXZQ15TAVJU	CEILING MOUNT	388	H/L	208-230/1/60	8.0	15	74	55%	15,000	12,867	8,950	0		248	0	10' - 0	,	31.7	12.78		
BC-2-06	ASST COMMANDER 1	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	8.0	15	74	55%	9,500	8,170	5,665	0		136	0	9' - 0"	-,	31.7	25.93		
BC-2-07	MEETING ROOM	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	8.0	15	74	55%	9,500	8,170	5,665	0		171	0	9' - 0"	1,,,,,	31.7	20.60		
BC-2-08	CASE FILE STORAGE	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	0.8	15	74	55%	7,500	6,815	4,970	0		185	0	8' - 0"	-,,,	31.7	21.36		
BC-2-09	LOCKER CORRIDOR	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	0.8	15	74	55%	7,500	6,815	4,970	0		153	0	8' - 0"	-,	31.7	25.88		
BC-2-10	ASST COMMANDER 2	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	0.8	15	74	55%	9,500	8,170	5,665	0		136	0	9' - 0"	1,223	31.7	25.93		
BC-2-11	ADMIN	DAIKIN	FXZQ09TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	0.8	15	74	55%	9,500	8,170	5,665	0		546	0	9' - 0"	-,	31.7	6.45		
BC-2-15	WAITING	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	0.8	15	74 74	55%	7,500	6,815	4,970	0		196	0	10' - 0	,	31.7 31.7	16.13		
BC-2-19	SERIOUS CRIME UNIT	DAIKIN	FXZQ15TAVJU	CEILING MOUNT	388	H/L	208-230/1/60	0.8	15	74	55%	15,000	12,867	8,950	0		800	0	10' - 0	0,000	0	3.96		
BC-2-20	SERIOUS CRIME UNIT UPPER FOYER	DAIKIN	FXZQ15TAVJU	CEILING MOUNT	388	H/L	208-230/1/60	0.8	15	74	55%	15,000	12,867	8,950	0		800	0		3,000	31.7 31.7	3.96		
BC-2-24 AC-2-02	UPPER FOTER	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	8.0	15	74	55%	7,500	6,815	4,970			234	U	8' - 0"	1,868	31./	16.97		
BC-2-01	STAFF OFFICER	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	□ /I	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060	0		78	0	8' - 0"	625	0	14.41		
BC-2-01	DEPUTY COMMISSIONER	DAIKIN	FXZQ07TAVJU	CEILING MOUNT		I 1/L	208-230/1/60	0.8		74	55%	7,500	6,815	4,000	0		138	0	8' - 0"		9	8.16		
BC-2-02 BC-2-03	KITCHEN/LOUNGE	DAIKIN		CEILING MOUNT	320 320	H/L H/L	208-230/1/60	0.8	15 15	74	55%	7,500	6,815	4,970	0		154	545	8' - 0"	-	9	1.61		
AC-2-03	INTOTIEN/EGGINGE	DAIRIN	TAZQOTTAVOO	OLILING MOONT	320	11/	200-230/1/00	0.0	13	74	33 /6	7,500	0,013	4,970	0		134	343	0 - 0	3,330	9	1.01		
BC-2-12	INTERVIEW 2	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060	0		80	Λ	8' - 0"	640	9.7	15.16		
BC-2-12 BC-2-13	INTERVIEW 1	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060			80	<u> </u>	8' - 0"		9.7	15.16		
BC-2-16	ANALYST	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/I	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060			65	<u> </u>	8' - 0"		9.7	18.66		
BC-2-17	INSPECTOR	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	320	H/L	208-230/1/60	0.8	15	74	55%	7,500	6,815	4,970	0		106	<u> </u>	8' - 0"		9.7	11.41		
BC-2-17 BC-2-18	CHIEF INSPECTOR	DAIKIN	FXZQ07TAVJU	CEILING MOUNT	335	H/L	208-230/1/60	0.8	15	74	55%	9,500	8,170	5,665	0		127	<u> </u>	8' - 0"		9.7	9.54		
BC-2-21	SGT EAST 1	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/I	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060	0		60	<u> </u>	8' - 0"		9.7	20.16		
BC-2-22	SGT EAST 2	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/I	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060	0		61	<u> </u>	8' - 0"		9.7	19.78		
BC-2-23	VIEWING ROOM	DAIKIN	FXZQ05TAVJU	CEILING MOUNT	300	H/L	208-230/1/60	0.8	15	74	55%	5,800	5,100	4,060			48	0	8' - 0"		9.7	25.47		

					CONDENSING	G UNIT SCHE	DULE					
UNIT						NOMINAL	VOLTAGE /			STARTING		
NUMBER	SERVICE	LOCATION	MANUFACT.	MODEL	REFRIGERANT	SIZE/TYPE	PHASE / HZ	M.C.A. (A)	M.O.P. (A)	CURRENT (A)	INTERLOCK WITH	REMARKS
AC-1-01	LOWER FLOOR	EAST WALL	DAIKIN	RXYQ72TTJU	R-410A	72,000	208-230/3/60	27.6	35			
AC-1-02	LOWER FLOOR	EAST WALL	DAIKIN	RXTQ36TAVJU	R-410A	36,000	208-230/1/60	16.5	29.1			
AC-2-01	UPPER FLOOR	WEST WALL	DAIKIN	RXYQ96TTJU	R-410A	96,000	208-230/3/60	36.3	45			
AC-2-02	UPPER FLOOR	WEST WALL	DAIKIN	RXTQ36TAVJU	R-410A	36,000	208-230/1/60	16.5	29.1			
AC-2-03	UPPER FLOOR	EAST WALL	DAIKIN	RXTQ48TAVJU	R-410A	48,000	208-230/1/60	35	29.1			

EXHAUST FAN SCHEDULE											
MARK	MODEL	MANUFACTURER	AIR FLOW (CFM)	VOLTS/PHASE/HZ	FEATURES	COMMENTS					
EF-01	AE50110DC	BROAN	70	120/1/60		OCCUPANCY SENSOR CONTROL					
EF-02	AE50110DC	BROAN	70	120/1/60		OCCUPANCY SENSOR CONTROL					
EF-03	AE50110DC	BROAN	70	120/1/60		OCCUPANCY SENSOR CONTROL					

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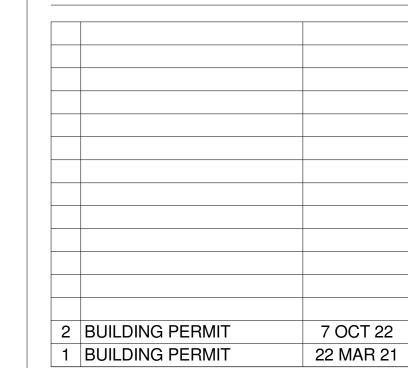
The Contractor shall check and verify all levels, datum points and dimensions and report any discrepancy or omission to the Engineer prior to construction.

Read this drawing alongside architectural and any other Consultants' documentation. OES shall not be held responsible for lack of Contractor coordination or violations resulting from incorrect application process.

GENERAL NOTES:

- 1. ALL REMOVED EQUIPMENT TO BE LAWFULLY DISPOSED OF OFF SITE.
- 2. ALL WALL AND FLOOR PENETRATIONS TO BE BLOCKED UP TO SAME FIRE RATING AS ADJACENT PARTITION.
- 3. AIRFLOW IMPEDIMENTS TO BE CHECKED BY CONTRACTOR BEFORE FINAL PLACEMENT OF DIFFUSERS.
- 4. NEW HARD RECT/ROUND DUCT TO BE BE
- INSTALLED WHERE SHOWN. 5. ALL TAP OFFS AND DIFFUSERS TO BE EQUIPPED WITH INDIVIDUAL DAMPERS.
- 6. UNDERCUT DOORS WHERE SHOWN. 7. ALL DUCTWORK AND FAN COILS TO BE INSULATED
- WITH MIN. R-8 INSULATION. 8. ALL DX PIPING TO BE INSULATED WITH 1/2" WALL
- ARMAFLEX OR SIMILAR APPROVED INSULATION.
- 9. EXTERIOR DX PIPING TO BE SURFACE MOUNTED TO BUILDING WITH LINE SET COVERS.
- 10. EVAP. CONDENSATE LINES TO DRAIN BY GRAVITY TO OUTSIDE OF BUILDING OR TO BUILDING SANITARY/WASTE SYSTEM BY APPROVED AIR GAP.







ONSITE ENGINEERING SERVICES LTD.

Location: 27 Jubilee Rd. Devonshire DV06 Mail: P.O. Box HM 2170, Hamilton HMJX, Bermuda Tel: 441-297-0592 | Fax: 441-295-1988 | Email: info@onsite.bm **APPROVED BY**

PREPARED BY CHECKED BY

PROJECT NAME

POLICE HQ FIT-OUT

33 HEADQUARTERS HILL DEVONSHIRE, DV02 SHEET TITLE

HVAC SCHEDULES

ISSUED FOR BUILDING PERMIT

SHEET SIZE 24" x 36"

PROJECT NO SHEET NO 21013

CRB

M202



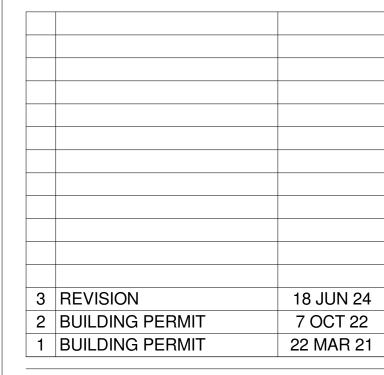
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PREPARED BY CHECKED BY APPROVED BY
JR JR CRB

PROJECT NAME

POLICE HQ FIT-OUT

33 HEADQUARTERS HILL DEVONSHIRE, DV02

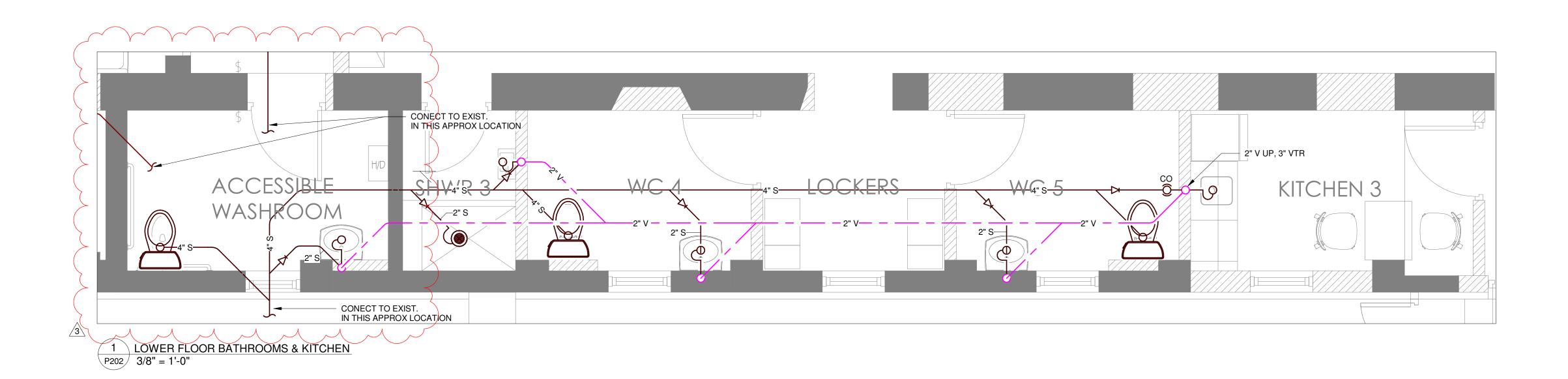
SHEET TITLE

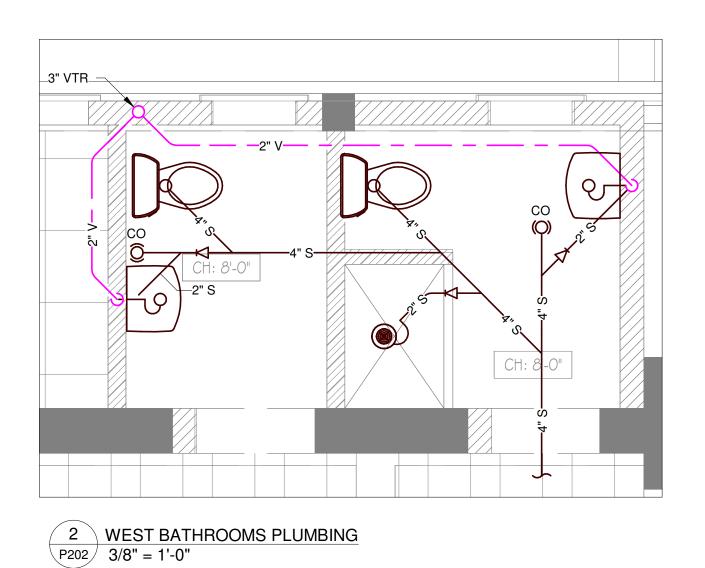
DWV PLUMBING PLANS

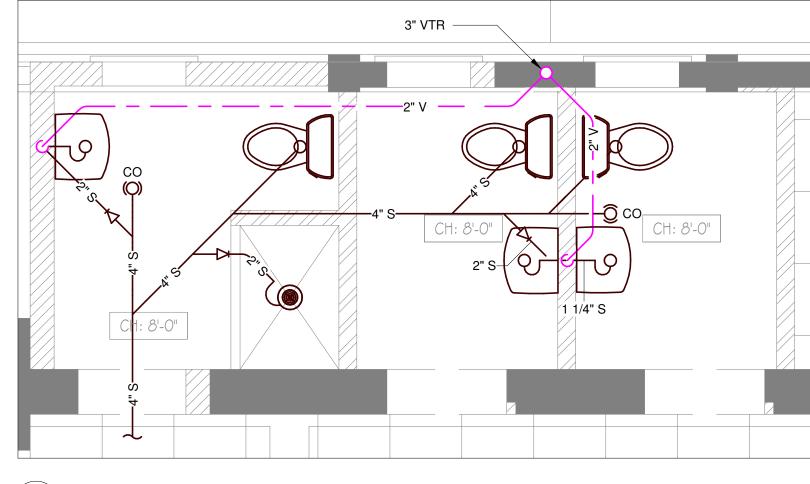
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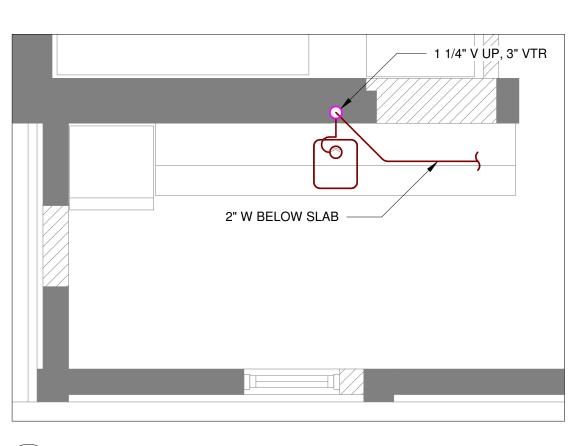
SCALE 3/16" = 1'-0" 24" x 36"

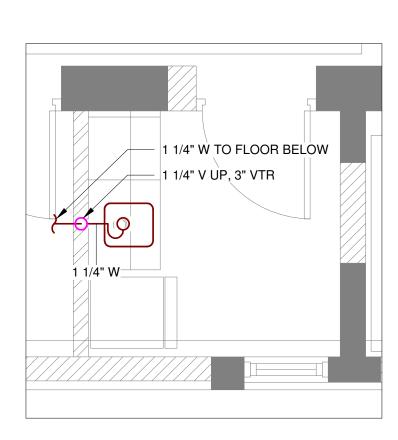
PROJECT NO SHEET NO REVISION 3











3 EAST BATHROOMS PLUMBING P202 3/8" = 1'-0"

4 UPPER KITCHEN/LOUNGE PLUMBING P202 3/8" = 1'-0"

5 UPPER EAST KITCHEN PLUMBING P202 3/8" = 1'-0"

				DOM	ESTIC WATER I	PUMP SCHE	EDULE				
MARK	SERVICE	LOCATION	MOTOR POWER (HP)	FLOW RATE (USGPM)	DISCHARGE PRESSURE (PSIG)	MAX. NPSH (PSIG)	MOTOR SPEED (RPM)	VOLTS/PHASE /HZ	MANUFACTURER	MODEL	COMMENTS
P-01	POLICE HQ	PUMP ROOM	1	22.5	-	-	3600	115-230/1/60	MYERS	CTJ07	OR SIMILAR APPROVED

WATER HEATER SCHEDULE												
MARK	SERVICE	LOCATION	TANK SIZE (US GAL)	HOT WATER TEMPERATURE (F)	RECOVERY TIME (MIN.)	ELEMENT POWER (kW)	NUMBER OF ELEMENTS	VOLTS/PHASE/HZ	CURRENT (AMPS)	MANUFACTURER	MODEL	COMMENTS
WH-01	POLICE HQ	PUMP ROOM	80	110	60	4.5 + 4.5	1 + 1	208-240/1/60	30	RHEEM	HPLD80	OR SIMILAR APPROVED

			PRESS	URE TANK SCHEDULE				
MARK	SERVICE	LOCATION	CAPACITY (US GAL)	WORKING PRESSURE RANGE (PSIG)	DRAWDOWN (US GAL)	MANUFACTURER	MODEL	COMMENTS
PT-01	POLICE HQ	PUMP ROOM	87	60-80	22.5	WELLMATE	WM-25WB	OR SIMILAR APPROVED
7	Y	Y	CIDCIII	ATION DUMP COUEDING	Y	Y	Y	Y

					CIRCULA	ATION PUMP SO	CHEDULE				
	MARK	SERVICE	LOCATION	MOTOR POWER (HP)	FLOW RATE (USGPM)	DISCHARGE PRESSURE (PSIG)	MAX. NPSH (PSIG)	VOLTS/PHASE /HZ	MANUFACTURER	MODEL	COMMENTS
	RP-01	POLICE HQ	PUMP ROOM	0.1	2.5	-	-	120/1/60	GRUNDFOS	UPS 15-58 FC	OR SIMILAR APPROVED
7											3

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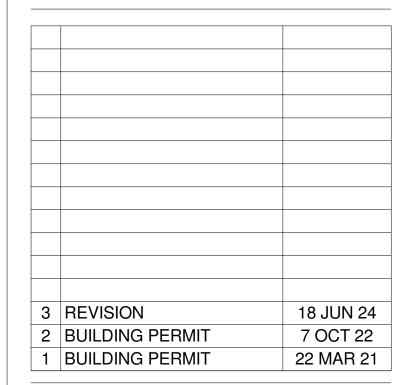
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PREPARED BY CHECKED BY APPROVED BY

JR JR CRB

PROJECT NAME

POLICE HQ FIT-OUT

33 HEADQUARTERS HILL DEVONSHIRE, DV02

SHEET TITLE

PLUMBING DETAILS & SCHEDULES

ISSUED FOR REV	ISION	
SCALE		SHEET SIZE
3/8" = 1'-0)"	24" x 36"
PROJECT NO	SHEET NO	REVISIO
21013	P202	3