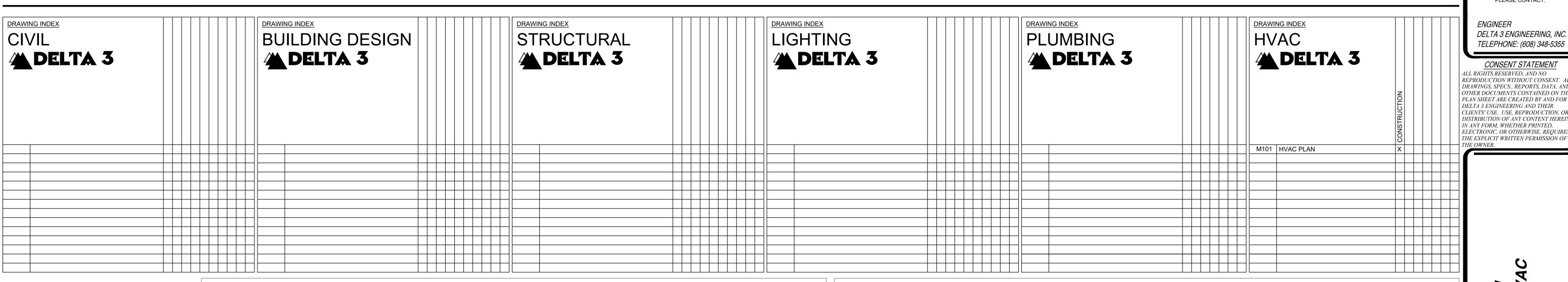
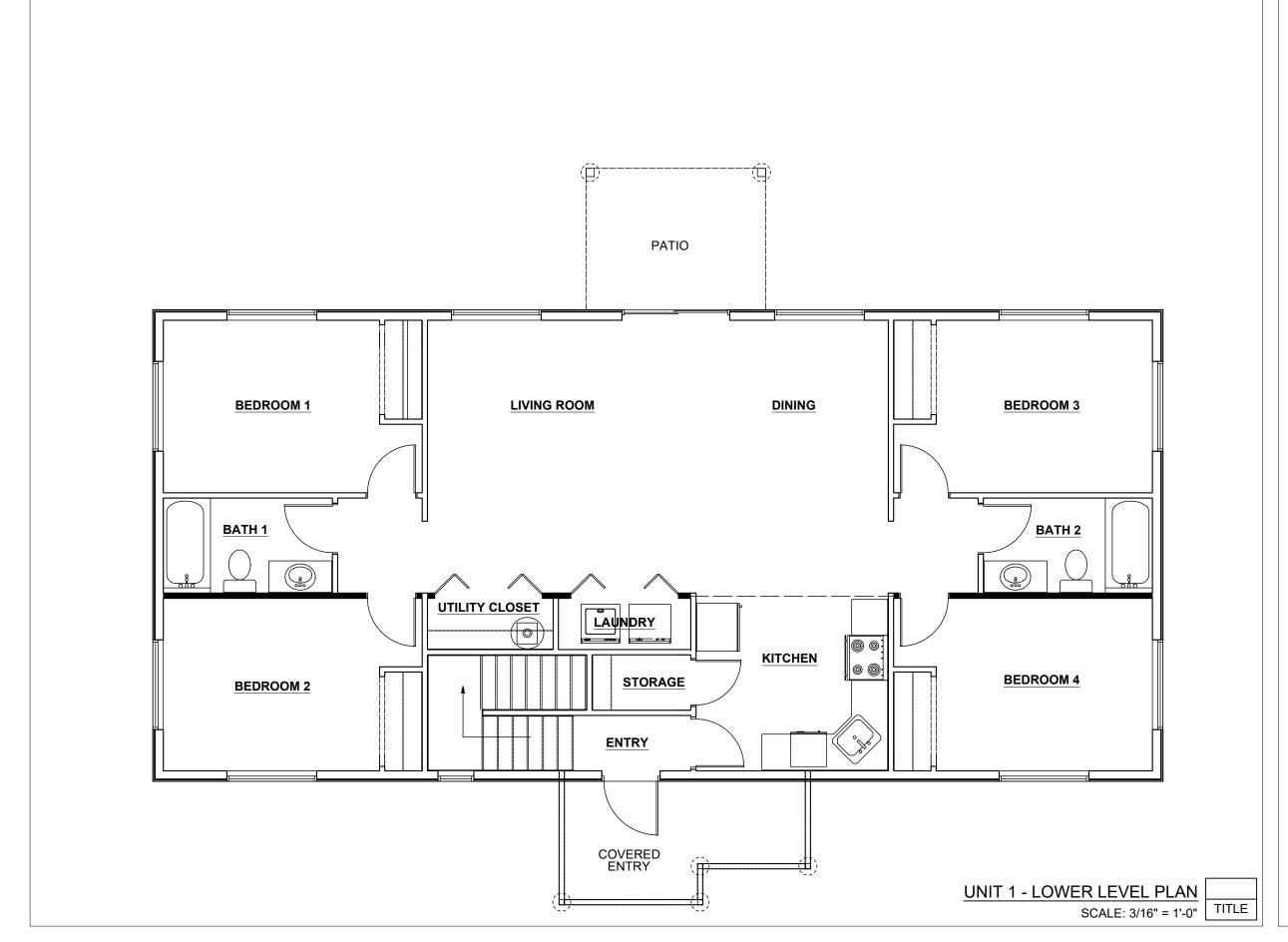
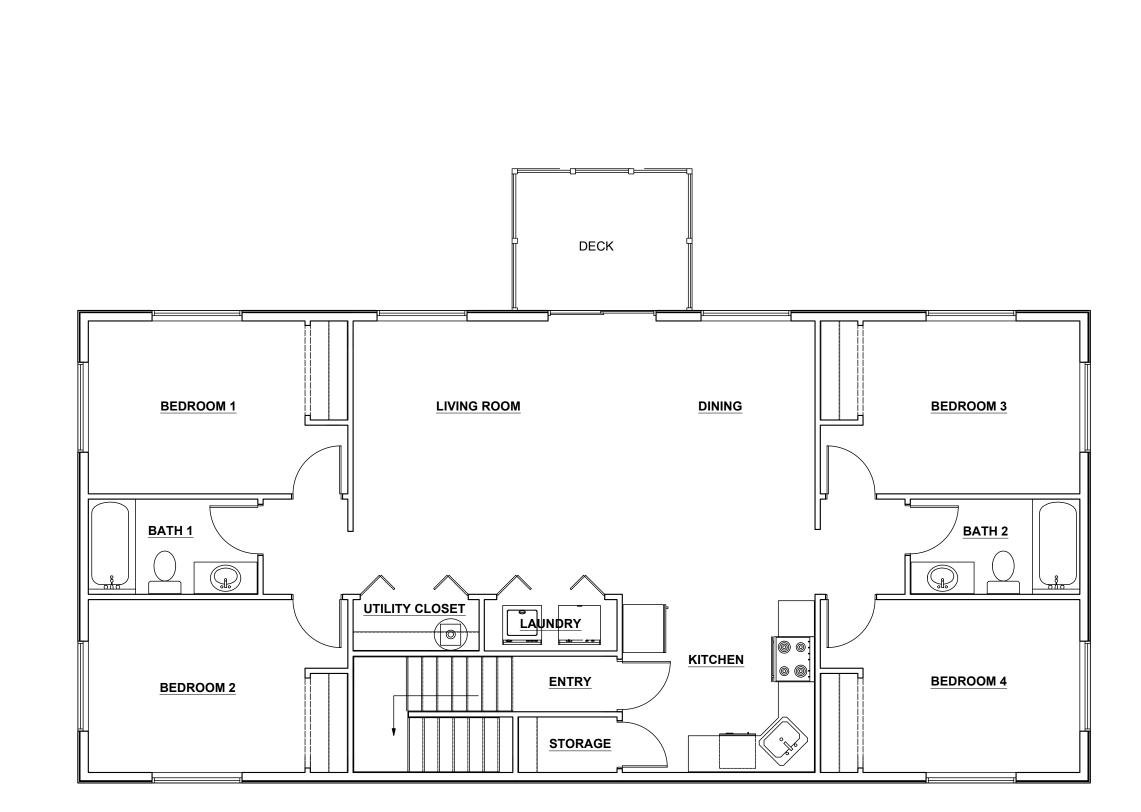
SWTC - 2 STORY DUPLEX - HVAC

FENNIMORE, WI 53809







UNIT 2 - UPPER LEVEL PLAN SCALE: 3/16" = 1'-0" TITLE

FACILITY AREA SCHEDULE UNIT 1 - LOWER LEVEL UNIT 2 - UPPER LEVEL

1,456 S.F. 1,456 S.F.

CONTRACTOR NOTE !!!
ALL CONTRACTORS INVOLVED IN THE CONSTRUCTION OF THIS PROJECT MUST BE A LICENSED CONTRACTOR OR UNDER THE DIRECT SUPERVISION OF A LICENSED

CONTRACTOR. SPRINKLER AND / OR FIRE ALARM PLANS WHEN REQUIRED ARE TO BE DESIGNED, SUBMITTED, AND INSTALLED OR ALTERED AS REQUIRED BY GENERAL CONTRACTOR.

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE CONTACT:

NO. DATE DESCRIPTION

CONSTRUCTION PROJECT NUMBER D23-091 SHEET SCALE AS NOTED WHEN PRINTED AT 24x36 N. ROGSTAD DATE ISSUED APRIL 28 2023 PROJECT COVER SHEET DESC.

SHEET TITLE:

AS-BUILT:

SHEET

EULIDIVE	ENT SCHE			HEATING			HEATING					COOLIN	NG					VENTILATION				MA	AKE UP AIR	HEATING	
, EQUITIVIE	SYSTEM	UNIT	MANUFACTURE	MODEL NO.	EXTERNAL S.P. IN. W.G.	CFM	OUTPUT (BTUH)	ELEC. REQ.	SYSTEM	UNIT	MANUFACTURE	MODEL NO.	COOLING (btuh)	ELEC. REQ.	NOTES	EXHAUST FAN NO.	MANUFACTURE	MODEL NO.	CFM REQD	ELEC. NOTES	UNIT	MANUFACTURE	MODEL NO. C	HEATING OUTPUT FM (BTUH)	ELEC. ENG REQ.
OM 1	RADIANT	EBB-2	CADET	3F750-1 (36")	N/A	N/A	2,560	120v,6.3 amp	BUILT IN	AC-1	AMANA	PBC092G00CC	9,300	115V - 1ph - 8.7a								<u>'</u>	<u> </u>		
OM 2	RADIANT	EBB-2	CADET	3F750-1 (36")	N/A	N/A	2,560	120v,6.3 amp	BUILT IN	AC-1	AMANA	PBC092G00CC	9,300	115V - 1ph - 8.7a								60 ofm CONI	Γ. FRESH AIR THROUGH F	DV	PRO
OM 3	RADIANT	EBB-2	CADET	3F750-1 (36")	N/A	N/A	2,560	120v,6.3 amp	BUILT IN	AC-1	AMANA	PBC092G00CC	9,300	115V - 1ph - 8.7a								60 CITI CON	I. FRESH AIR THROUGH <u>F</u>	<u>KV</u>	GRANT
OM 4	RADIANT	EBB-2	CADET	3F750-1 (36")	N/A	N/A	2,560	120v,6.3 amp	BUILT IN	AC-1	AMANA	PBC092G00CC	9,300	115V - 1ph - 8.7a		HRV	BROAN	B110H65RS	60	120v 1ph 1,2,3					87. PU
	RADIANT	EBB-1	CADET	2F500-1 (30")	N/A	N/A	1,710	120v,4.2 amp		·		COOLING VIA TRANSI	FER AIR			THEV	BROAN	BTIOTIOSICS	CONT.	0.6 amp					898 120v DUE
	RADIANT	EBB-1	CADET	2F500-1 (30")	N/A	N/A	1,710	120v,4.2 amp				COOLING VIA TRANSI	FER AIR								IH F	LECTRO INDUCTRIES	EM-MB02-120-1-06	20	120v 1ph
OINING,	RADIANT	EBB-3	CADET	6F1500-1 (72")	N/A	N/A	5,120	120v,12.5 amp	BUILT IN	AC-1	AMANA	PBC092G00CC	9,300	115V - 1ph - 8.7a							IH E	LECTRO INDUSTRIES	EM-MB02-120-1-06 CC	ONT. 5,459	13.3 amp
	RADIANT	EBB-1	CADET	2F500-1 (30")	N/A	N/A	1,710	120v,4.2 amp		·		NO COOLING	i												аттр
NTILATION	—— PIED SPACE S SHALL BE PR	ROVIDED DI	JRING THE PERIODS T	AL MEANS, OR MECHAN HAT A ROOM OR SPACE LOCATED A MINIMUM O	E IS OCCUPIED.	2	2015 IMC DESIGN (CRITERIA		REAS S OMS	(a)	A AC				600 btuh)						┌─ AC-1 (9,3	00 btuh)		
ECHANICAL ORIZONTALI IR EXHAUST ORROSION ATURAL VEN DUVERS OR HE OUTDOC ECHANICAL HATS APPRO HENTILATION HE SYSTEM HE PROJECT ECHANICAL ONTROLS TO NINHABITED ATURAL OR	& GRAVITY OF LY FROM ANY FROM ANY FAND INTAKE RESISTANT SO THER OPEN OTHER OPEN OTHER OPEN OTHER OPEN OTHER OPEN OF ENGINEER. VENTILATION OF ENGINEER. VENTILATION HAT WILL OPE	OUTDOOR AY HAZARDO OPENINGS CREENS, LO AN OCCUP NINGS TO THEN THIS MAN SHALL BE QUAL TO EA SIGNED. HALL BE BA OF SUPPLY N SYSTEMS ERATE SUCCH AS CRAN	US OR NOXIOUS CONT. THAT TERMINATE OUT OUVERS OR GRILLES. PIED SPACE SHALL BETHE OUTDOORS AND HA IETHOD IS DESIGNED. PROVIDED BY A METH ACH OTHER WITH OUT LANCED BY AN APPROTING THE AIR FLOW RAT SHALL BE PROVIDED NET OUT	SHALL BE LOCATED A MAINMENT SOURCE. TOOORS SHALL BE PROTUCE THROUGH WINDOWS, EAVE A MINIMUM OPENATION OF SUPPLY AND RESTORED TO METHOD AND INDITES. PROVIDE BALANCION WITH MANUAL OR AUTOER SPACES ARE OCCUPICS SHALL BE PROVIDED	DTECTED WITH DOORS, ABLE AREA TO ETURN AIR E PRESSURE ICATED THAT ING REPORT TO DMATIC PIED.	U	JNITS - each		OCCUPANCY CLASSII		APARTMENT LAUNDR APARTMENT LAUNDR S	O 72/75 JR 72/75 JR 72/75		36" EBB-2 2,560 btuh EACH HEA UNIT TO BE PROVIDE ONBOARD THERMOS MOUNT TIGHT TO FL	DOM 1	ALL SO CONTROLS A MAX OF 48" A.F.F	LIVING ROOM	72" <u>EBB-3</u> 5,120 btuh EACH HEA UNIT TO BE PROVIDE ONBOARD THERMOS MOUNT TIGHT TO FLO	ATING ED WITH STAT. OOR.	DINING		BEDROOM 36" EE 2,560 UNIT 1 ONBO			DRA OTH PLA DEI CLII. DIS IN A ELE THE
ALL BE LOO 10' FROM OPENING FOR DUC PROPER' & ROOFS WHICH A EXHAUST EAS WHER PLIANCES, R, EMIT HEA SAFETY. YSTEMS N RRIDORS:	CATED AS SUG PROPERTY L SS INTO BUILD ITS CONVEYIN ITY LINE, 10' FF S, 30' FROM CC RE IN THE DIR SYSTEM SHAI RE MACHINES, EQUIPMENT, AT, ODORS, FU SHALL NOT SE IS TO BE RIG	CH: LINE, 3' FRC DINGS, AND NG EXPLOS ROM OPER, DMBUSTIBL RECTION OF ALL BE PRO' , VATS, TAN , AND PROC UMES, SPR ERVE AS SU	OM EXTERIOR WALLS AI 10' ABOVE ADJOINING SIVE OR FLAMMABLE VA ABLE OPENINGS INTO I LE WALLS AND OPERAB F DISCHARGE, & 10' AB VIDED, MAINTAINED, AI NKS, FURNACES, FORG CESSES PRODUCE DUS EAY, GAS OR SMOKE IN	TS DISCHARGING TO THE ND ROOFS, 10' FROM COME OF THE PROOFS, FUMES OR DUST BUILDINGS, 6' FROM EXEL OPENINGS INTO BUILDING GRADING OPERATED FOR ALLES, SALAMANDERS, AND OPERATED FOR ALLES, SALAMANDERS, AND OR PARTICLES THAT QUANTITIES INJURIOUST, RELIEF OR VENTILES, AND THE OR PARTICLES THAT QUANTITIES INJURIOUST, RELIEF OR VENTILES, AND THE OR PARTICLES THAT QUANTITIES INJURIOUST, RELIEF OR VENTILES, OSECT ENGINEER FOR	DPERABLE ST: 30' FROM KTERIOR WALLS JILDINGS E. L OCCUPIED ND OTHER T FLOAT IN THE JIS TO HEALTH LATION AIR S. ANY DEVIATION	Te Ba FL OI IN Me	easured S.P. (+	n (date): /ER Brand Brand Brand M FM (1st test, all dampers) (If Measured Tota CFM ÷ Design total CFM	EQUIPME Model# Model# Model# Model# EASURED PERI open) Measured S.P. (-) PROPORTION differs from December % (Adjuite % (Adjuite	FORMANCE NED CFM esign Total I ust all room C	Rated tons Rated tons Total Static Pressure Dy 10%, or more) FM's by this % to re-proportion	n airflows)		FRES	ÚNIT TO BI ONBOARD MOUNT TI	EACH HEATING PROVIDED WITH THERMOSTAT. BHT TO FLOOR.	FRES TO BU	/ IF PE	ELECTR AND BR	30" 1,71' UNIT ONE MOU	EBB-1 0 btuh EACH I T TO BE PROV BOARD THERI UNT TIGHT TO	VIDED WITH MOSTAT.	BATH 2 20 cfm EXHAUS	ST T	

DUCTING SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10'. 5. DUCTS CONNECTING TO FURNACES SHALL HAVE A CLEARANCE TO COMBUSTIBLES IN

ACCORDANCE WITH THE FURNACE MANUFACTURE'S INSTALLATION INSTRUCTIONS.

DUCT REGISTERS. GRILLES AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH

MANUFACTURE'S INSTALLATION INSTRUCTIONS. 7. DUCT COVERINGS (INSULATION) SHALL NOT PENETRATE A WALL OR FLOOR REQUIRED TO HAVE A

FIRE RESISTANCE RATING OR REQUIRED TO BE FIRE BLOCKED. SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM, IN THE RETURN AIR DUCT UPSTREAM OR ANY FILTERS, EXHAUST AIR

CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC PLUS EMBEDDED FABRICS SYSTEM OR TAPES. TAPES & MASTICS USED TO SEAL DUCTWORK

SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181A-P" FOR PRESSURE SENSITIVE TAPE. "181A-M" FOR MASTIC OR "181A-H" FOR HEAT SENSITIVE TAPE. 10. EACH SUPPLY AIR BRANCH TAKE OFF AND ADDITIONAL LOCATIONS REQUIRED TO PERMIT ACCURATE BALANCING OF THE SYSTEM SHALL BE PROVIDED WITH VOLUME CONTROL DAMPERS.

HVAC TESTING AND MANUALS NOTES:

1. BALANCING: EVERY HEATING, VENTILATING AND AIR CONDITIONING SYSTEM SHALL BE BALANCED UPON INSTALLATION. THE PERSON OR AGENCY RESPONSIBLE FOR BALANCING OF THE VENTILATING SYSTEM SHALL DOCUMENT IN WRITING THE AMOUNT OF OUTDOOR AIR BEING PROVIDED AND DISTRIBUTED FOR THE BUILDING OCCUPANTS AND ANY OTHER SPECIALTY VENTILATION. THE DOCUMENT SHALL BE RETAINED AT THE SITE AND SHALL BE MADE AVAILABLE TO THE DEPARTMENT UPON REQUEST.

2. HVAC CONTROL SYSTEMS SHALL BE TESTED TO ASSURE THAT CONTROL ELEMENTS ARE CALIBRATED, ADJUSTED AND IN PROPER WORKING CONDITION.

OPERATING AND MAINTENANCE MANUAL:

3.1. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER OR OPERATOR. THE MANUAL SHALL INCLUDE BASIC DATA RELATING TO THE OPERATION AND MAINTENANCE OF HVAC SYSTEMS AND EQUIPMENT.

3.2. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. WHERE APPLICABLE, HVAC CONTROLS INFORMATION SUCH AS DIAGRAMS, SCHEMATICS, CONTROL SEQUENCE DESCRIPTIONS, AND MAINTENANCE AND CALIBRATION INFORMATION SHALL BE INCLUDED.

MISC NOTES:

LEGEND

1. ALL WORK SHALL COMPLY WITH ALL FEDERAL CODES, STATE CODES AND LOCAL BUILDING CODES AND ORDINANCES, NFPA, AND OSHA REQUIREMENTS.

INSTALL ALL EQUIPMENT IN ACCORDANCE TO THE LATEST EDITION OF THE MANUFACTURES RECOMMENDATIONS.

3. DUCT INSULATION SHALL COMPLY WITH THE IECC.

- DUCTWORK

HRV CONTORLS

REMOTE THERMOSTAT

— — — — CONTROL WIRING

COORDINATE ALL EQUIPMENT AND DUCT LOCATIONS WITH LIGHTING, STRUCTURAL MEMBERS, DOORS, AND ANY OTHER POTENTIAL CONFLICTS.

5. ALL LOW VOLTAGE WIRING, INCLUDING CONTROL WIRING, SHALL BE PROVIDED BY THE HVAC CONTRACTOR. THE HVAC CONTRACTOR SHALL PROVIDE TEMPERATURE CONTROLS AND ALL MISC. EQUIPMENT TO MAKE THE HVAC SYSTEM COMPLETE, OPERATIONAL AND CODE COMPLIANT. THERMOSTAT CONTROLS SHALL BE LOCATED A MAXIMUM OF 48" A.F.F. TO TOP OF UNIT.

THE HVAC DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. ADDITIONAL OFFSETS, FITTINGS, ACCESSORIES, AND COORDINATION NEEDED FOR A COMPLETED SYSTEM IS THE HVAC CONTRACTORS RESPONSIBILITY.

HVAC EQUIPMENT

REQUIREMENTS -

LVING, DINING, KITCHEN

LOWER LEVEL

BEDROOM 1

BEDROOM 2

BEDROOM 3

BEDROOM 4

UTILITY CLOSET

BATH 1

BATH 2

LAUNDRY

STORAGE

ENTRY

REQUIRED

HEATING

4,548 btuh

4,548 btuh

4,548 btuh

4,548 btuh

624 btuh

624 btuh

7,914 btuh

40 btuh

40 btuh

40 btuh

2,647 btuh

187 btuh

6,481 btuh

44 btuh

34 btuh

858 btuh

41 btuh

BATH 2

UTILITY CLOSET

LAUNDRY

STORAGE

ENTRY

LVING, DINING, KITCHEN

8. ANY CHANGES TO MATERIALS SPECIFIED ON PLAN MUST BE APPROVED BY THE PROJECT

9. INSTALL CLEAN SET OF FILTERS IN ALL UNITS AT TIME OF TESTING AND BALANCE.

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2015 IMC				٩S		S					Ç	
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513 btuh

7,442 btuh

35 btuh

37 btuh

470 btuh

840 btuh

237 btuh

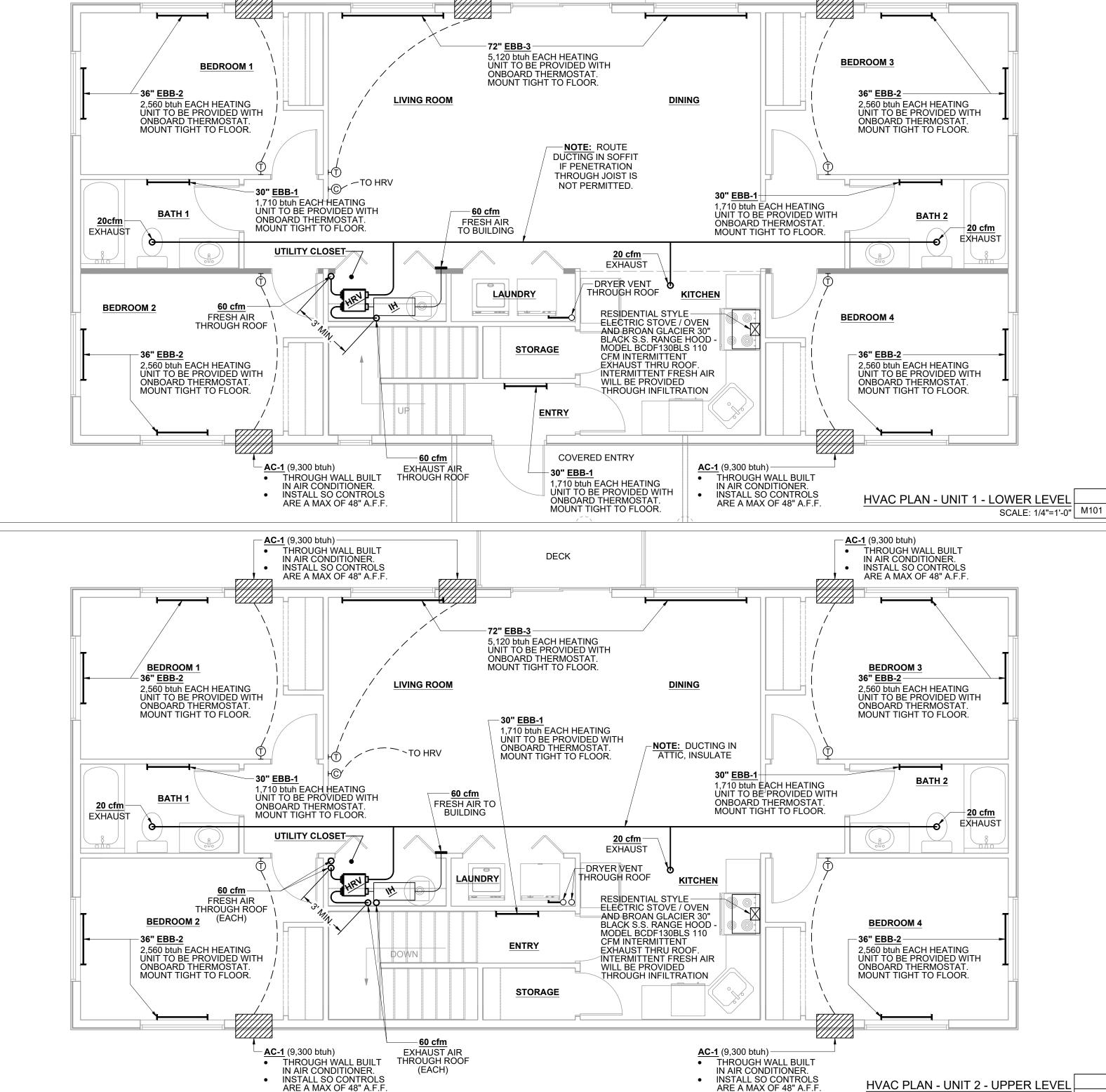
7,030 btuh

61 btuh

65 btuh

140 btuh

367 btuh



NT ◆PLANNING & CADD SERVIC PHONE: (608) 348-5355 PHONE: (563) 542-900

> JESTIONS THIS PROJECT, CONTACT:

GINEERING, INC. (608) 348-5355

STATEMENT ED, AND NO HOUT CONSENT.

REPORTS, DATA, AN CONTAINED ON TH EATED BY AND FOR NG AND THEIR REPRODUCTION, OF ANY CONTENT HEREIN HER PRINTED. HERWISE, REQUIRES TEN PERMISSION OF

NO. DATE DESCRIPTION

CONSTRUCTION D23-091 NUMBER SHEET SCALE AS NOTED WHEN PRINTED AT 24x36 DRAWN J.Bailie BY DATE ISSUED APRIL 28 2023 SHEET DESC. HVAC PLAN

SHEET TITLE:

SCALE: 1/4"=1'-0" M101

AS-BUILT: