GENERAL CODE NOTES

- 1. COMPLY WITH THE CURRENT INTERNATIONAL RESIDENTIAL CODE (IRC), INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), UNIFORM PLUMBING CODE (UPC), INTERNATIONAL FIRE CODE (IFC), WASHINGTON STATE ENERGY CODE (WSEC), EVERGREEN STANDARDS V3.0.1 AND ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS FOR EQUIPMENT, MATERIALS AND INSTALLATION.
- 2. CONFORM TO CURRENT SMACNA STANDARDS, IMC AND WSEC FOR DUCT CONSTRUCTION, SEALING, MATERIAL, AND INSTALLATION.
- 3. PROVIDE DUCT INSULATION ON ALL SUPPLY DUCTWORK & EXHAUST DUCTWORK IN ATTIC UNLESS SPECIFICALLY INDICATED. INSULATION THICKNESS AND R-VALUE SHALL COMPLY WITH WSEC AS A MINIMUM.
- 4. PROVIDE RECORD DRAWINGS AND OPERATION & MAINTENANCE MANUALS. COMPLY WITH WSEC AS A MINIMUM.
- 5. REFER TO DIVISION 22, 23 SPECIFICATIONS AND DRAWINGS FOR COMPLETE REQUIREMENTS.

GENERAL PLUMBING & PIPING NOTES

- 1. MAKE CHANGE OF DIRECTION AND CONNECTIONS TO BRANCH LINES IN SANITARY WASTE, VENT AND STORM DRAINAGE PIPING WITH APPROVED FITTINGS. COMPLY WITH UPC REQUIREMENTS.
- 2. ALL SANITARY WASTE AND VENT BELOW GRADE SHALL BE A MINIMUM OF 2" DIAMETER.
- 3. PROVIDE CLEANOUTS IN ALL SANITARY WASTE AND STORM DRAINAGE PIPING AT A MAXIMUM OF 100 SPACING, UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE WALL CLEANOUTS AT SINKS AND AT BASE OF RISERS. COMPLY WITH UPC REQUIREMENTS.
- 4. PROVIDE SHUTOFF VALVE IN ALL MAIN LINES SERVING APARTMENT UNITS, WATER HEATERS AND AS INDICATED.
- 5. PIPING SUPPORT SHALL BE IN ACCORDING TO UPC TABLE 313.3 AND IMC TABLE 305.4. SEISMIC SUPPORTS SHALL BE PER UPC.
- 6. PIPING PASSING THROUGH SLEEVES SHALL BE FILLED OR TIGHTLY CAULKED IN APPROVED MATTER PER UPC.
- 7. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST EARTHQUAKE MOTION PER SECTION 507.2.
- 8. WATER CONSERVATION SHALL BE PER UPC SECTION 407.2. (FOR EXAMPLE: SINK, LAVATORY, WATER CLOSET, ETC.)
- 9. REFER TO DIVISION 22 SPECIFICATIONS AND DRAWINGS FOR COMPLETE REQUIREMENTS.

GENERAL HVAC NOTES

- 1. ALL DIMENSIONS SHOWN FOR DUCTWORK ARE NET INSIDE DIMENSIONS.
- 2. COORDINATE EQUIPMENT DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATION DRAWINGS FOR EXACT LOCATIONS.
- 3. DRAWINGS DO NOT SHOW ALL OFFSETS OR TRANSITIONS IN DUCTWORK OR PIPING. COORDINATE WITH ALL TRADES, DETERMINE FINAL ROUTING, AND PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO INSTALL MECHANICAL SYSTEMS.
- 4. PROVIDE 1" INTERNAL ACOUSTICAL DUCT LINING WHERE INDICATED.
- 5. DRYER VENT LENGTH AND NUMBER OF ELBOWS SHALL BE INSTALLED IN ACCORDANCE WITH IMC SECTION 504.5. (TERMINATE TO OUTSIDE, ETC.)
- 6. THE TERMINATION POINT OF EXHAUST OUTLETS AND DUCTS DISCHARGING TO THE OUTDOORS SHALL BE LOCATED AT MINIMUM DISTANCES PER IMC SECTION 501.3.1.

7. REFER TO DIVISION 23 SPECIFICATIONS AND DRAWINGS FOR COMPLETE REQUIREMENTS.

HEAT EXCHANGER & COOLING COIL, REPLACE FILTERS. TEST FURNACE FOR AIRFLOW AND REPORT.

3. REPLACE EXISTING THERMOSTATS WITH NEW 7 DAY PROGRAMMABLE PER WSEC.

PLUMBING PIPING LEGEND

DIRECTION OF FLOW

DIRECTION OF FLOW		
DIRECTION OF PIPE GRADE (DOWN)		
DOMESTIC COLD WATER	CW	
DOMESTIC HOT WATER	HW	
DRAIN		D
SANITARY SEWER - EXTERIOR		S
SANITARY WASTE (ABOVE GRADE)		
SANITARY WASTE (BELOW GRADE)		

WATER MAIN — EXTERIOR

6. OUTSIDE AIR CONNECTIONS ARE EXISTING.

7. ESP VALUES ARE EXISTING.

_____ W ____

ABBREVIATIO	NS
ABOVE FINISHED FLOOR	AFF
ACCESS DOOR, ACCESS PANEL	AD, (AP)
BACKDRAFT DAMPER	BDD
CAST IRON	Cl
CEILING	CLG
CEILING DIFFUSER	CD
CONCRETE	CONC
DOOR GRILLE	DG
ELEVATION	EL
EXHAUST, EXHAUST AIR	EXH, EA
EXHAUST GRILLE	EG
EXHAUST REGISTER	ER
INVERT ELEVATION	ΙΕ
LOUVER	LVR
NEW	(N)
NOT IN CONTRACT	NIC
NORMALLY CLOSED	NC
NORMALLY OPEN	NO
NOT TO SCALE	NTS
ON CENTER	OC
OUTSIDE (OUTDOOR) AIR	OSA
POINT OF CONNECTION	POC
RELIEF, RELIEF AIR	RL, RLA
RELIEF GRILLE	RLG
RETURN, RETURN AIR	RET, RA
RETURN GRILLE	RG
RETURN REGISTER	RR
SIMILAR	SIM
SUPPLY, SUPPLY AIR	SUP, SA
SUPPLY GRILLE	SG
SUPPLY REGISTER	SR
THROUGH	THRU
THROUGH BEAM	TB
THROUGH JOIST	TJ
TOP OF FOOTING	TOF
TRANSFER GRILLE	TG
VENT THROUGH ROOF	VTR

MECH. SYMB	OLS LE	GEND
BALL VALVE	BV -	ф
CAPPED PIPE		
CHECK VALVE	CV -	
CLEANOUT	CO	——+o OR ———II
CLEANOUT THROUGH FLOOR	COTF	——ю
CLEANOUT THROUGH WALL	COTW	 II
CLEANOUT TO GRADE	COTG	——ю
CONNECT TO EXISTING, POINT OF	CONNECTION	POC ↔
ELBOW, TURNED DOWN		
ELBOW, TURNED UP		——Ю
FLOOR DRAIN	FD	Ø OR Ø
FUNNEL FLOOR DRAIN	FFD	
GATE VALVE	GV -	\longrightarrow
GLOBE VALVE	GLV -	
HOSE BIBB	НВ	+
P-TRAP		· ·
PLUMBING FIXTURE SYMBOLS		A OR AAA
PRESSURE GAUGE		Q
PRESSURE REDUCING VALVE	PRV -	
RELIEF VALVE	RV	<u> </u>
TEE, OUTLET DOWN		
TEE, OUTLET UP		+O+
THERMOMETER		<u> </u>
THERMOSTAT		T
UNION	-	-III
WALL HYDRANT, NON-FREEZE WH	WH, NF	WH +-
Y-STRAINER	_	

HVAC LE	EGEND
DUCT SECTION, POSITIVE PRESSURE (SA)	$\boxtimes \boxtimes \otimes$
DUCT SECTION, NEGATIVE PRESSURE (RA/EA/RLA/OSA)	
SUPPLY AIR FLOW	
RETURN, RELIEF OR EXHAUST AIR F	TLOW → //
FIRE/SMOKE DAMPER, FIRE DAMPER	F/SD, FD
FLEXIBLE DUCT CONNECTOR	\
MANUAL DAMPER	MD
DAMPER MOTOR, ACTUATOR	- ₩
INTERNAL DUCT LINER	<u> </u>
DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)	≥ 20x12 <
ROUND FLEXIBLE DUCTWORK	->>>> OR ->>>
ROUND DUCTWORK	10 " ø
TRANSITION (IN ROUND OR FLAT OV	/AL DUCT) →
SUPPLY DIFFUSER $1 \frac{\text{CD } 10 \times 10}{200 (3)}$	TYPE O XXX NK SIZE CFM (QTY.), RUNOUT SIZ
CRILLE OR RECISTER 2 RR 12	TVD⊑
EQUIPMENT DESIGNATION (STYLE 1)	EQUIP. TYPE 1 EQUIP. NUMBER
EQUIPMENT DESIGNATION (STYLE 2)	EQUIP. TYPE EQUIP. NUMBER

	PLUMBING FIXTURE SCHEDULE													
EQ. NO. OR SYMBOL	DESCRIPTION	WASTE	VENT	CW	HW	EFFICIENCY	REMARKS							
TTS	TANK TOILET — STANDARD	3	2	1/2		1.28 GAL./FLUSH	NEW FIXTURE INSTALLED IN EXISTING LOCATION.							
TAR	ACCESSIBLE TOILET - RIGHT HAND	3	2	1/2	•	1.28 GAL./FLUSH	NEW FIXTURE INSTALLED IN EXISTING LOCATION.							
TAL	ACCESSIBLE TOILET — LEFT HAND	3	2	1/2	•	1.28 GAL./FLUSH	NEW FIXTURE INSTALLED IN EXISTING LOCATION.							
UAS	URINAL – ADA	2	2	1/2	•	0.5 GAL./FLUSH	NEW FIXTURE INSTALLED IN EXISTING LOCATION.							
LCA	LAV, COUNTER MOUNT — ACCESS.	1-1/2	1-1/2	1/2	1/2	FAUCET 1 GPM OR LESS	··							
LWA	LAV. WALL MOUNT - ACCESS.	1-1/2	1-1/2	1/2	1/2	FAUCET 1 GPM OR LESS								
LWS	LAV. WALL MOUNT - STANDARD	1-1/2	1-1/2	1/2	1/2	FAUCET 1 GPM OR LESS								
SSA	SINK SINGLE - ACCESSIBLE	1-1/2	1-1/2	1/2	1/2	FAUCET 1.75 GPM OR LESS	2" HORIZONTAL WASTE							
SHA	SHOWER - ACCESSIBLE	2	2	1/2	1/2	SHOWERHEAD 1.75 GPM OR LESS	TWO SHOWER HEADS / MIXING VALVES							
FD	FLOOR DRAIN	2	2		•		PRIME TRAP							

		GRI	LL	e, register	R & D	IFFUSE	R SC	HEDUI	_E		
SYMBO	L S	R E	Т	TYPE	PANEL SIZE	NECK SIZE	MATERIAL	FINISH	DAMPER	REMARKS	BASIS OF DESIGN MFR./MODEL
\bigcirc	Х			CEILING DIFFUSER	_	SEE PLANS	STEEL	WHITE	NO	MODULAR CORE, T-BAR MOUNT	TITUS MCD
Α		X		CEILING RET.	_	SEE PLANS	STEEL	WHITE	NO	LAY-IN	TITUS 350RL

				AIRSIDE	CAPACITY	Y	DX COOLING	II	HEATING	JING			BLOWER MOTOR			ELECTRICAL		II MER /MODEL I MER /MODELI	COII	\			ELECTRICAL		EFFICIENC	CIES	LICATOLIAD LINIT
EQ. NO.	LOCATION	SERVING	CONFIGURATION	CFM		ESP (IN.)		TYPE/SPEEDS	S DRIVE	VOLT/ U	UNIT MCA	l	}		VOLT/ PHASE	l l	UNIT MOCP		SEER H	HSPF	HEATPUMP UNIT MFR./MODEL						
F-1	SECOND FLOOR 215	SECOND FLOOR WEST	UP-FLOW	1900	_	_	5	112	104	_	92 -	- 3/4	PSC/2	DIR.	115/1	13	15	RUUD R92PA115	RUUD RCF60	\	HP-1	208-230,	/1 42	50	19.5	11	RUUD UP2060J
F-2	SECOND FLOOR	SECOND FLOOR CENTER	UP-FLOW	1900	_	-	5	112	104	_	92 -	- 3/4	PSC/2	DIR.	115/1	13	15	RUUD R92PA115	RUUD RCF60	\	HP-2	208-230,	/1 42	50	19.5	11	RUUD UP2060J
F-3	SECOND FLOOR	SECOND FLOOR EAST	UP-FLOW	-	_	-	5	112	104	_		- 3/4	PSC/2	DIR.	115/1	13	15	RUUD EXISTING	EXISTING	\	HP-3	208-230,	/1 42	50	19.5	11	RUUD EXISTING
F-4	BASEMENT MECH. 020	FIRST FLOOR NORTH EAST	UP-FLOW	1900	_	_	5	112	104	_	92 -	- 3/4	PSC/2	DIR.	115/1	13	15	RUUD R92PA115	RUUD RCF60	<u> </u>	HP-4	208-230,	/1 42	50	19.5	11	RUUD UP2060J
F-5	BASEMENT MECH. 020	BASEMENT CENTER/EAST	UP-FLOW	1900	_	_	5	112	104	-	92 -	- 3/4	PSC/2	DIR.	115/1	13	15	RUUD R92PA115	RUUD RCF60	<u> </u>	HP-5	208-230,	/1 42	50	19.5	11	RUUD UP2060J
F-6	BASEMENT MECH. 013	FIRST FLOOR SOUTH EAST	UP-FLOW	1900	_	_	5	112	104	_	92 -	- 3/4	PSC/2	DIR.	115/1	13	15	RUUD R92PA115			HP-6	208-230,	/1 42	50	19.5	11	RUUD UP2060J
F-7	BASEMENT MECH. 013	BASEMENT NORTH/WEST	UP-FLOW	1600	_	_	4	80	_	_	92 -	- 1/2	PSC/2	DIR.	115/1	13	15	RUUD R92PA100	RUUD RCF48		HP-7	208-230,	/1 37	50	19.5	11	RUUD UP2048J
F-8	BASEMENT MECH. 013	FIRST FLOOR NORTH/WEST	UP-FLOW	1900	_	_	5	112	104	_	92 -	- 3/4	PSC/2	DIR.	115/1	13	15	RUUD R92PA115	RUUD RCF60		HP-8	208-230	/1 42	50	19.5	11	RUUD UP2060J

10. CONTRACTOR TO VERIFY EXISTING VOLTAGES FOR NEW EQUIPMENT.

ZBA
ARCHITECTU

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NO. DATE

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NORA BUILDING IMPROVEME

L STORE WASHINGTON TO STOR

PROJECT NO. 2212

DRAWN: L\$S

CHECKED: BGB

DATE: 12/22/2022

DRAWING NO.

M001