

PACKAGED AC UNIT SCHEDULE - DEMO																							LAST UPDATED: 1/29/24							
UNIT TAG	LOCATION	AREA SERVED	BASIS OF DESIGN	SUPPLY CFM	OSA CFM	RETURN CFM	ESP IN WG	OSA °F			UNIT/DUCT		COOLING CAPACITY		GAS HEATING CAPACITY					SUPPLY FAN					IEER/EER	ELEC		SOUND dBA	WEIGHT (INC. CURB/ACC.) LBS	REMARKS
								DB	WB	COND DB	SAT DB °F	TOTAL MBH	SENS. MBH	STAGES	INPUT MBH	OUTPUT MBH	NG CONN	TYPE	QTY	RPM	BHP	HP	MCA	V/PH						
RTU-29	ROOF	RETAIL	YORK DCG0120	4,000	800	3200	0.6	85	67.00	95	55	126	87	2	204	161	-	FC	1	-	-	2	-	29	460/3	-	1452	1,2		

- GENERAL
- DISCONNECT FROM ELECTRICAL AND DEMO EXISTING UNIT
 - FIELD TO CONDUCT PRE-TAB FOR EACH SPACE BEING SERVED BY UNIT BEFORE DEMO

PACKAGED AC UNIT SCHEDULE																							LAST UPDATED: 1/29/24							
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RTU-29	ROOF	RETAIL	YORK ZYG12E4B3AA2B111A3	4,000	800	3200	0.60	85	67	95	55.0	126.0	87.0	2	220	176	-	FC	1	1001	3.0	3.7	14.6/12	23.6	460/3	87	1,350	1-10		

GENERAL ALL TRADES TO CONFIRM EQUIPMENT REQUIREMENTS (ELECTRICAL, WEIGHT, SIZE, ETC...) WITH APPROVED SUBMITTALS PRIOR TO INSTALLATION; FIELD COORDINATE FINAL LOCATION & INSTALL PER MANUFACTURERS REQUIREMENTS
 GENERAL UNIT CAPACITY RATED AT 85/67 OUTSIDE AIR DESIGN TEMPERATURES

- ELECTRICAL CONTRACTOR TO PROVIDE SCCR PROTECTION DIRECTION FOR EQUIPMENT AS REQUIRED BY LATEST APPROVED VERSION OF THE NATIONAL ELECTRICAL CODE, PRIOR TO ORDER.
- MANUFACTURER TO PROVIDE SCCR LISTING (65 KAIC MINIMUM OR PER ELECTRICAL CONTRACTOR CALCULATION) INSIDE CONTROL PANEL AS REQUIRED BY NATIONAL ELECTRICAL CODE.
- PROVIDE FULL ECONOMIZER (ENTHALPY) CYCLE WITH (BAROMETRIC) RELIEF SYSTEM
- ECONOMIZER SHALL BE CAPABLE OF PROVIDING PARTIAL COOLING IN ADDITION TO MECHANICAL COOLING AS REQUIRED TO MEET THE REMAINDER OF THE LOAD PER SECTION C403.5.1
- MINIMUM UNIT EFFICIENCY TO MEET THE ENERGY CODE TABLE C403.3.2(2)
- OUTSIDE AIR INDICATES MINIMUM CFM PER ASHRAE/MECH CODE (UP TO 150%), TAB WORK MUST MEET OR EXCEED INDICATED QUANTITY. FOR REPLACEMENTS WITHOUT OSA NOTED, TAB TO MEASURE OSA CFM OF OLD UNIT PRIOR TO DEMO AND USE SAME CFM FOR THE REPLACEMENT UNIT (UNO)
- RETURN AIR SMOKE DETECTOR PROVIDED WITH UNIT
- PROVIDE WITH (MERV 8) MINIMUM FILTRATION
- PROVIDE WITH ROOF CURB ADAPTER
- REUSE EXISTING DDC / T-STAT CONTROLS
- PROVIDE SEISMIC BRACING PER ACSE 7, UNLESS: UNIT IS WALL MOUNTED OR <20 LBS OR IS RIGID MOUNTED INLINE WITH DUCT (NO FLEX) AND <75 LBS



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RTU 29

SOUTH HILL MALL, ROOF
 3500 S MERIDIAN
 PUYALLUP, WA 98373



ISSUE FOR PERMIT

Key Plan

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions

No.	Date	By	Description

01/30/24 ADD ISSUE FOR PERMIT

Design Team

Design: ADD
 Drawn: KDE
 Checked: DTN
 Pre Construction Number: 14-24-25267
 Construction Number:
 Issue Date: 01/30/24

SCHEDULE SHEET - HVAC

FOR CITY USE
 PRMH20240184

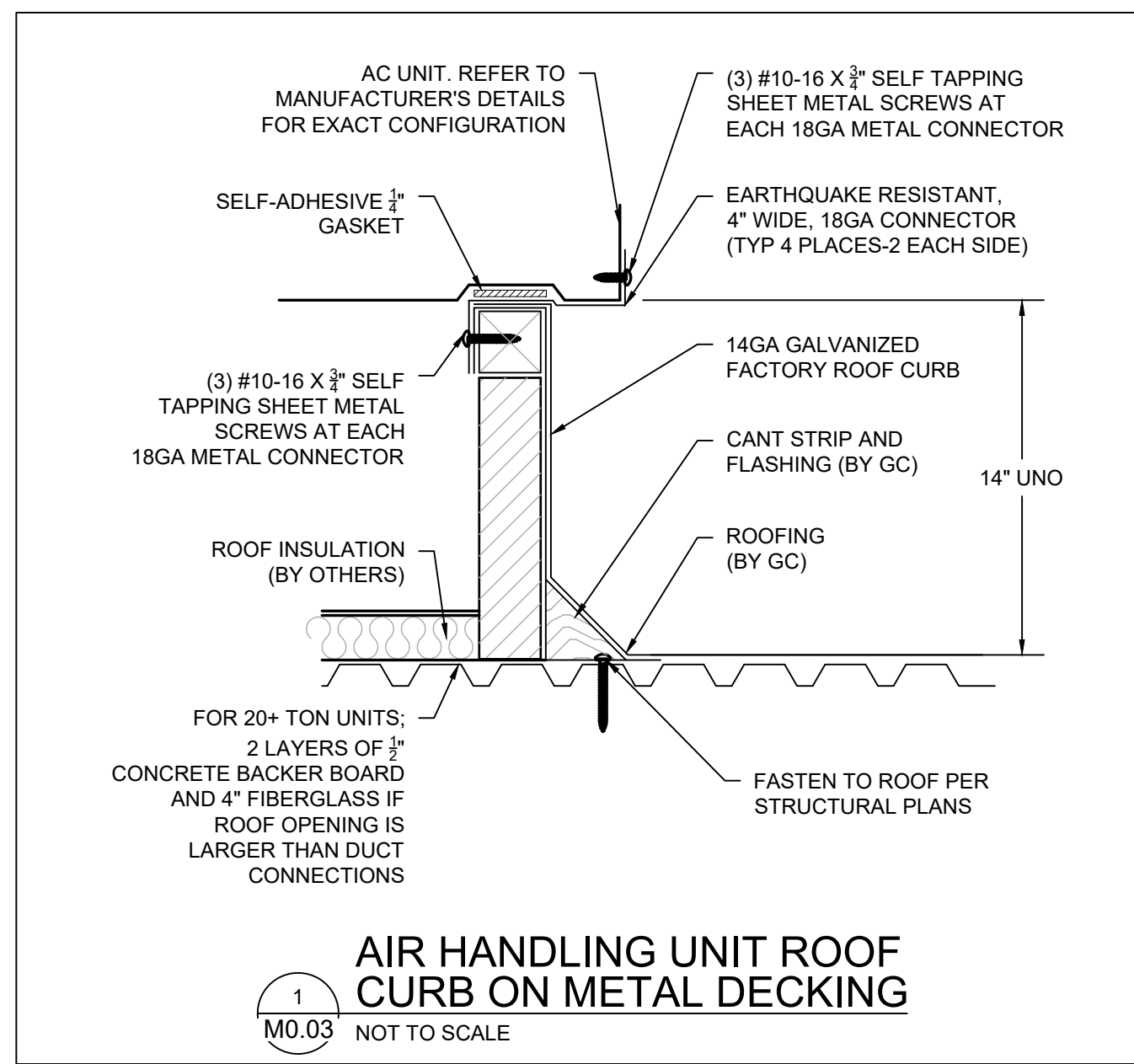
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VIBRATION ISOLATION / SEISMIC SCHEDULE						LAST UPDATED: 12/29/23	
UNIT TAG	SERVES	BASIS OF DESIGN ¹	DEFL INCH	BASE TYPE	SEISMIC RESTRAINT	REMARKS	
NA	ROOFTOP UNITS (SMALL, MFG CURB)				SCREW TO CURB		1,2,3

GENERAL: ALL TRADES TO CONFIRM EQUIPMENT REQUIREMENTS (ELECTRICAL, WEIGHT, SIZE, ETC.) WITH APPROVED SUBMITTALS PRIOR TO INSTALLATION; FIELD COORDINATE FINAL LOCATION & INSTALL PER MANUFACTURERS REQUIREMENTS
 NOTE: CTB = COOLING TOWER BASE, CIB = CONCRETE INERTIA BASE
 1 SEISMIC RATED CURB / ISOLATOR
 2 INTERNAL ISOLATION PROVIDED INTEGRAL WITH UNIT
 3 SEISMIC RESTRAINT AS REQUIRED BY CODE AND/OR LOCAL AUTHORITY HAVING JURISDICTION

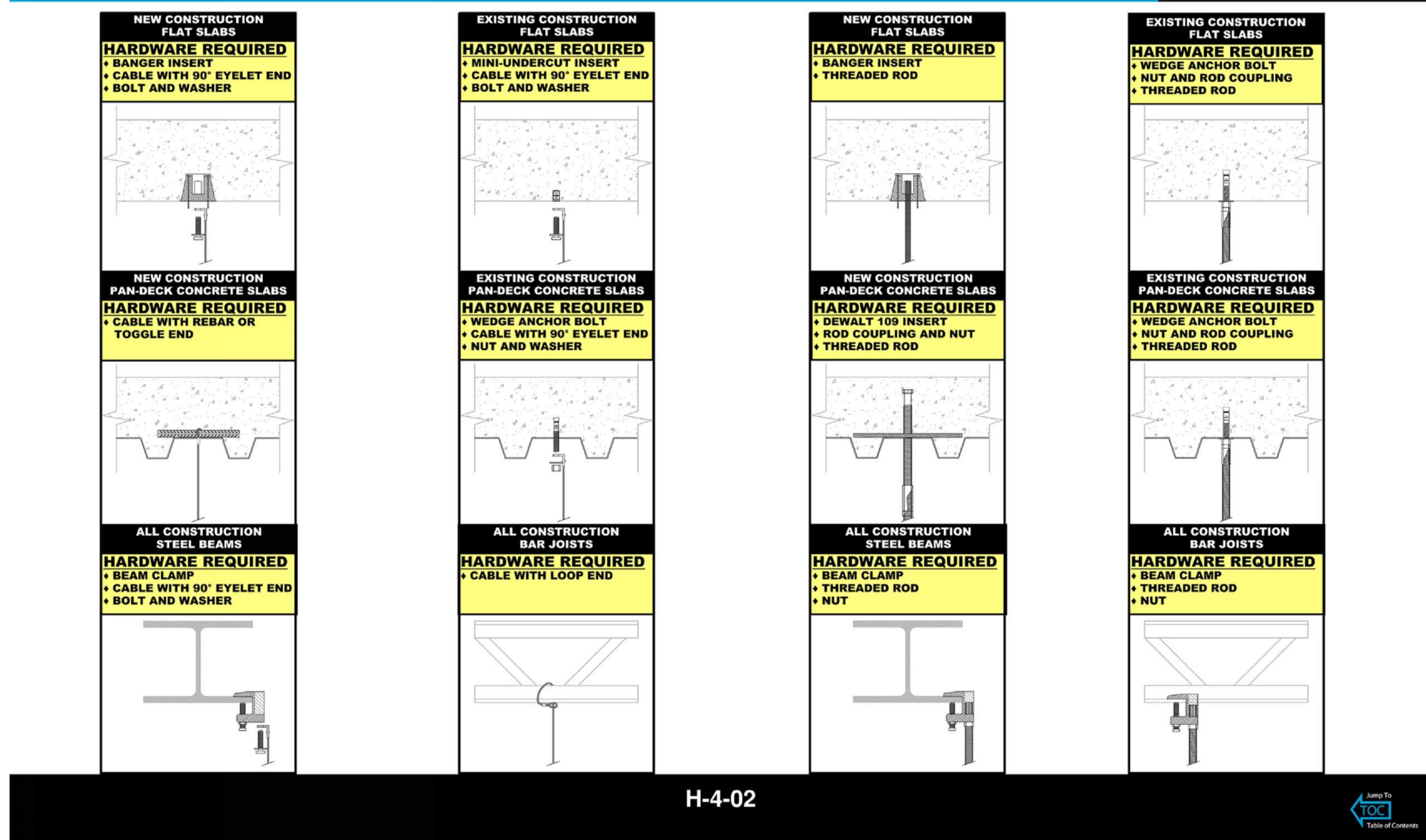
MINIMUM DUCT INSULATION				LAST UPDATED 05/03/21	
DUCT SYSTEM	DUCT LOCATION AND USE	INSULATION R-VALUE		REMARKS	
CLIMATE ZONE 4C					
SUPPLY AIR OR RETURN AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER)	R-8			1
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE (ENCLOSED BUT NOT IN THE BUILDING CONDITIONED ENVELOPE)	R-6			1
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE (DUCT CONVEYS AIR THAT IS WITHIN 15°F OF THE AIR TEMPERATURE OF THE SURROUNDING UNCONDITIONED SPACE)	R-3.3			2
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE (DUCT CONVEYS AIR THAT IS WITHIN 15°F OF THE AIR TEMPERATURE OF THE SURROUNDING UNCONDITIONED SPACE) IN A BUILDING ENVELOPE ASSEMBLY	R-16			3
SUPPLY AIR	WITHIN CONDITIONED SPACE (SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55°F OR GREATER THAN 105°F)	R-3.3			1
SUPPLY AIR	WITHIN CONDITIONED SPACE THAT THE DUCT DIRECTLY SERVES (SUPPLY DUCT)	NONE			1
SUPPLY AIR	WITHIN CONDITIONED SPACE (SUPPLY DUCT CONVEYS AIR THAT IS 55°F OR GREATER AND 105°F OR LESS)	NONE			-
SUPPLY AIR	WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUT OFF DAMPER	R-8			-
RETURN OR EXHAUST AIR	WITHIN CONDITIONED SPACE AND DOWNSTREAM OF AN AUTOMATIC SHUT OFF DAMPER	R-16			-
OUTSIDE AIR	INSIDE CONDITIONED SPACE AND UPSTREAM OF AN AUTOMATIC SHUT OFF DAMPER	≥2800 CFM	R-16		4
OUTSIDE AIR	INSIDE CONDITIONED SPACE AND DOWNSTREAM OF AN AUTOMATIC SHUT OFF DAMPER TO HVAC UNIT OR ROOM	≥2800 CFM	R-8		-
OUTSIDE AIR	INSIDE CONDITIONED SPACE	<2800 CFM	R-7		5

- NOTES:
- SEE ENERGY CODE SECTION C403.10.1.2 FOR DETAILS
 - SEE IMC SECTION 603.12 FOR ADDITIONAL REQUIREMENTS FOR CONDENSATION CONTROL AT DUCTWORK
 - DUCT OR PLENUM IS SEPARATED FROM BUILDING ENVELOPE ASSEMBLY WITH THE MINIMUM INSULATION VALUE
 - SEE ENERGY CODE SECTION C403.10.1.1 FOR ADDITIONAL REQUIREMENTS
 - SEE EXCEPTION 1 TO SECTION C403.10.1.1 FOR ADDITIONAL DETAILS



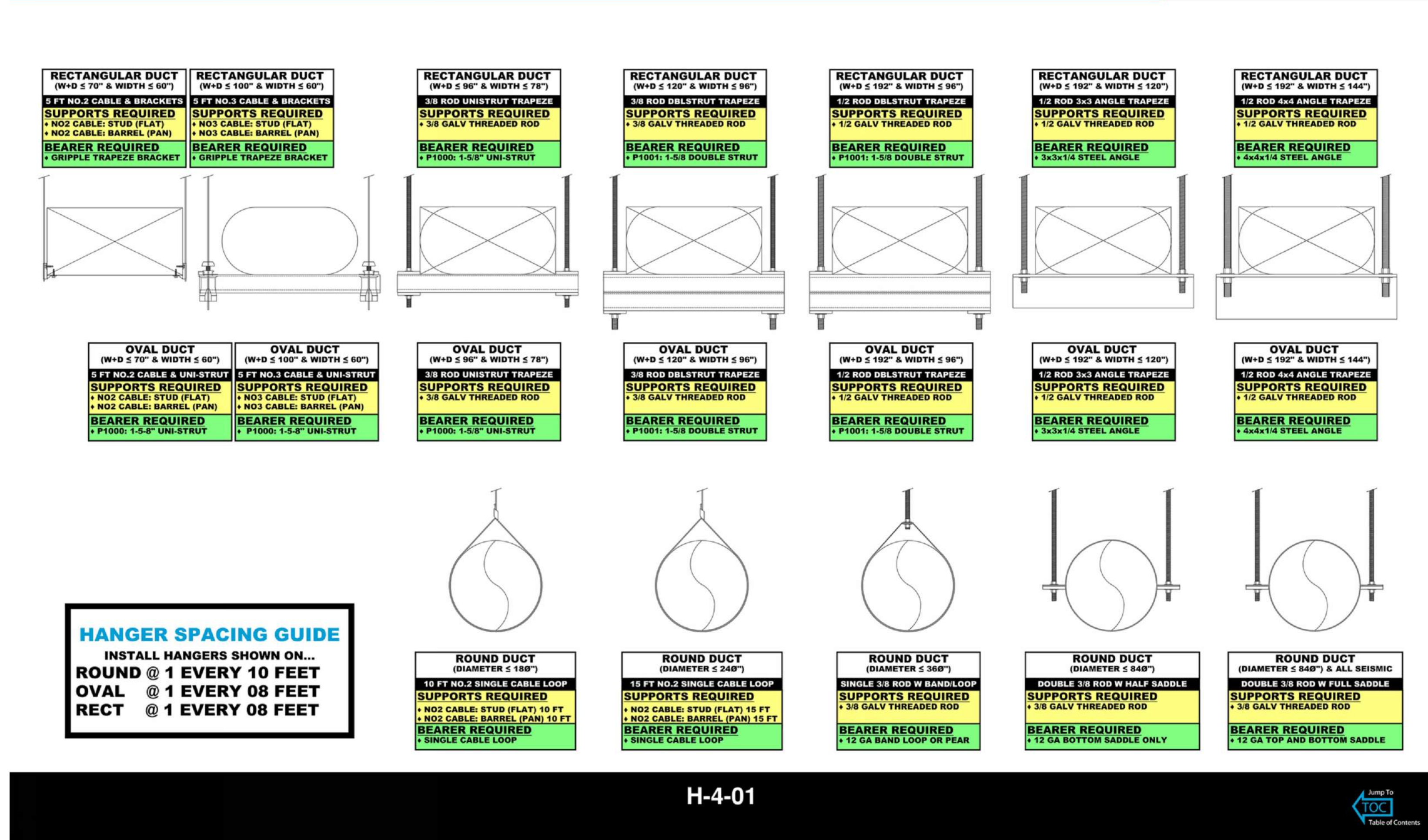
DUCT CONSTRUCTION STANDARDS 2020 VERSION

STANDARD INSERT METHODS NEW AND EXISTING CONDITIONS



DUCT CONSTRUCTION STANDARDS 2020 VERSION

DUCTWORK HANGER REQUIREMENTS ROUND, OVAL AND RECTANGULAR



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ISSUE FOR PERMIT

Key Plan

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building Planning
 Engineering Public Works
 Fire Traffic

Revisions

No.	Date	By	Description
01/30/24	ADD		ISSUE FOR PERMIT

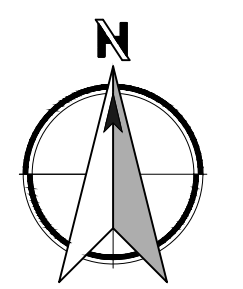
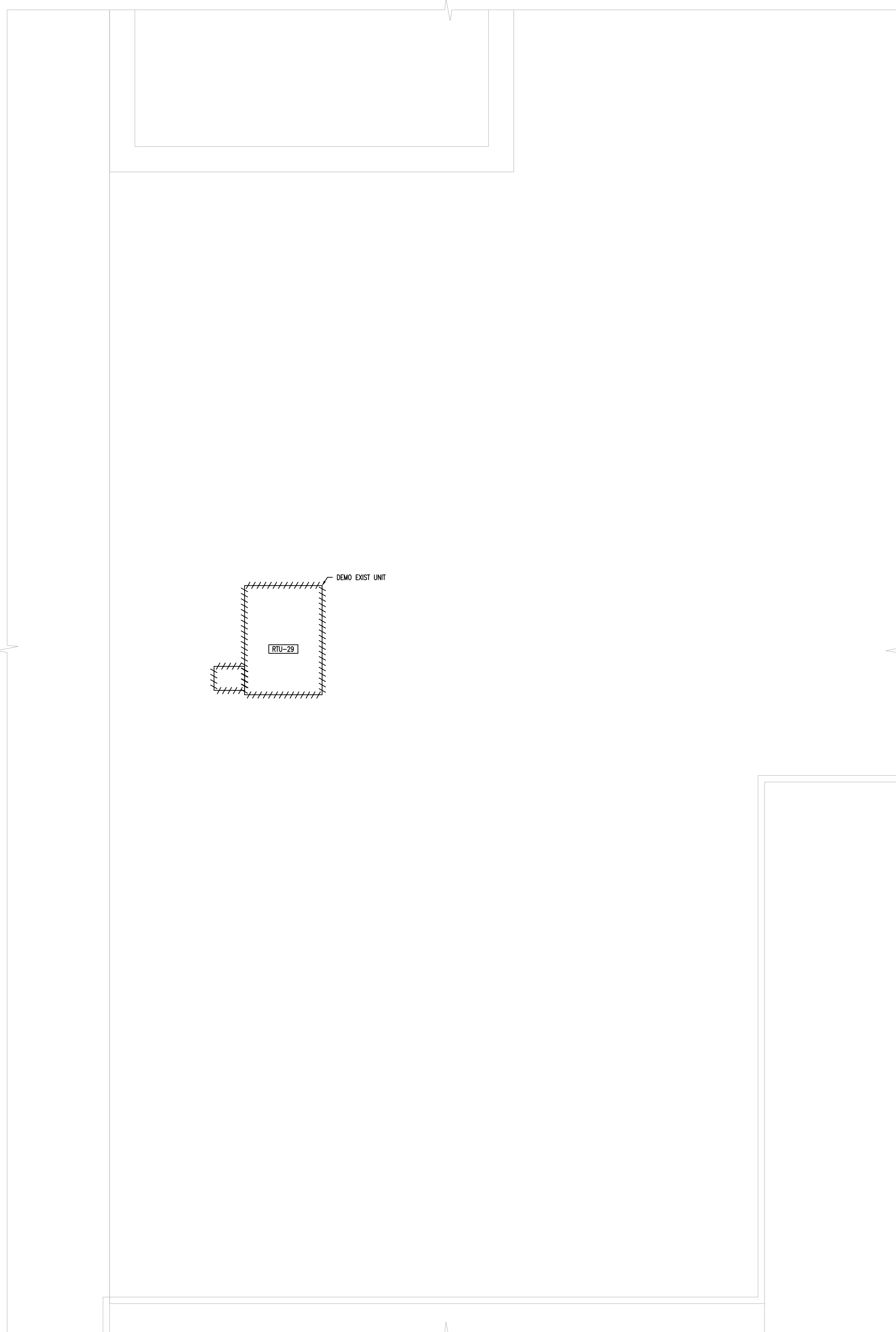
Design Team

Design	ADD
Drawn	KDE
Checked	DTN
Pre Construction Number	14-24-25267
Construction Number	
Issue Date	01/30/24

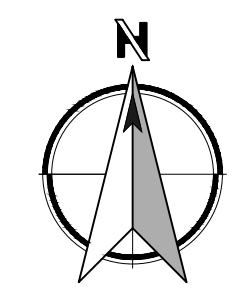
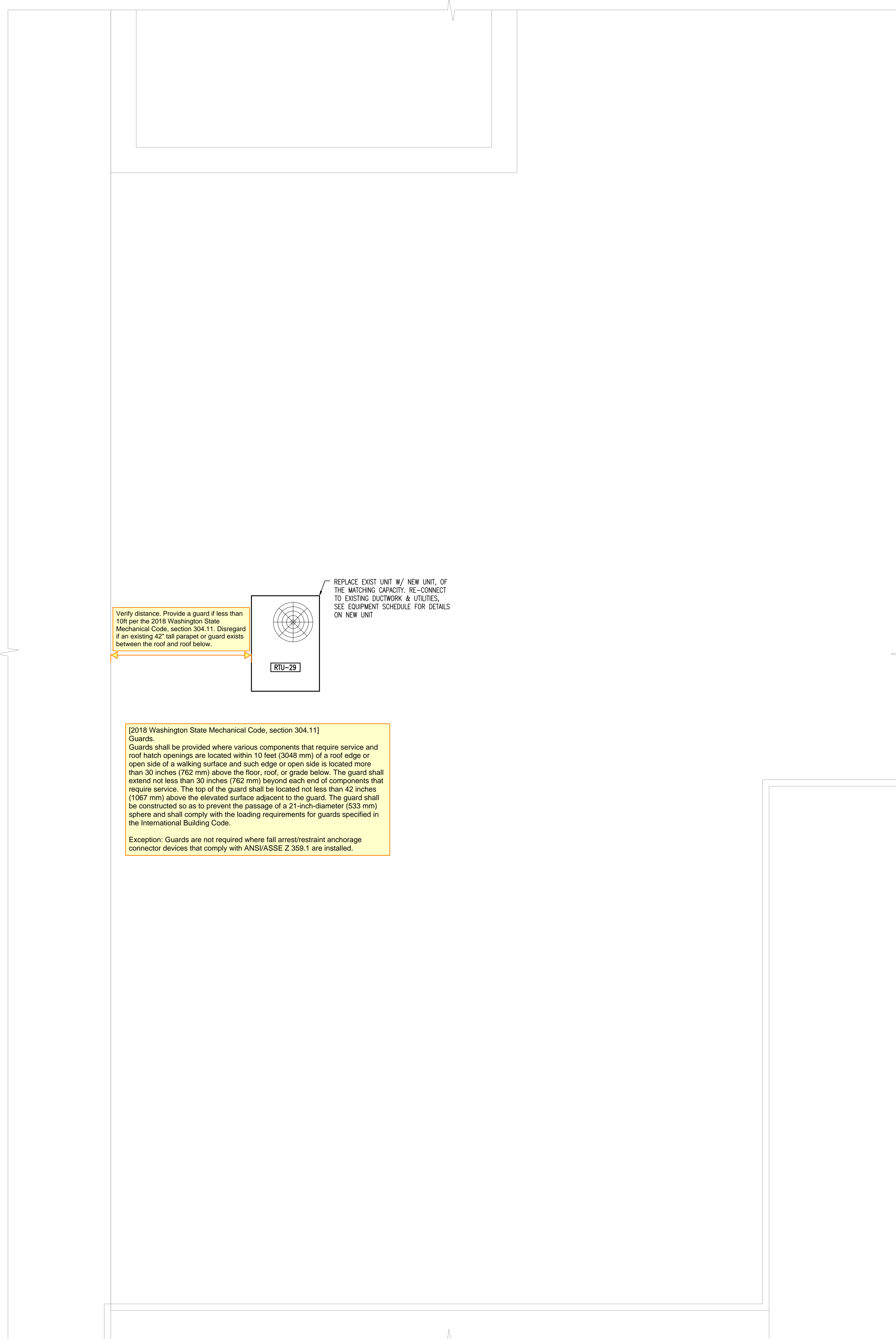
CONSTRUCTION STANDARDS - HVAC

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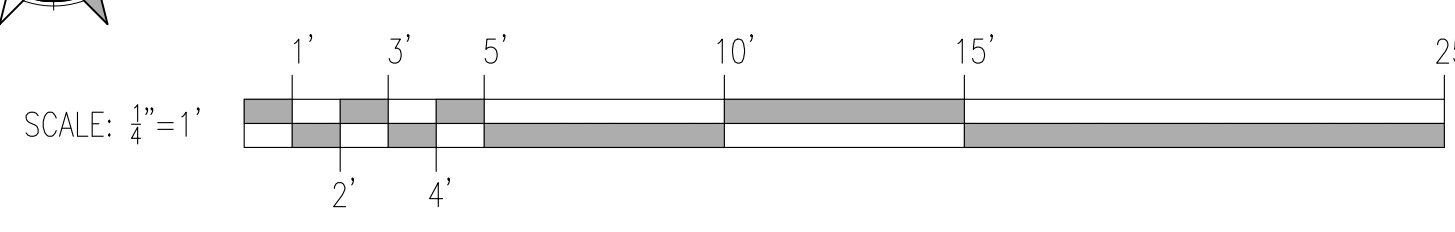
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PARTIAL ROOF DEMO PLAN - HVAC
SCALE: 1/4" = 1'-0"



PARTIAL ROOF PLAN - HVAC
SCALE: 1/4" = 1'-0"



Verify distance. Provide a guard if less than 10ft per the 2018 Washington State Mechanical Code, section 304.11. Disregard if an existing 42" tall parapet or guard exists between the roof and roof below.

[2018 Washington State Mechanical Code, section 304.11]
Guards
 Guards shall be provided where various components that require service and roof hatch openings are located within 10 feet (3048 mm) of a roof edge or open side of a walking surface and such edge or open side is located more than 30 inches (762 mm) above the floor, roof, or grade below. The guard shall extend not less than 39 inches (762 mm) beyond each end of components that require service. The top of the guard shall be located not less than 42 inches (1067 mm) above the elevated surface adjacent to the guard. The guard shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the loading requirements for guards specified in the International Building Code.
 Exception: Guards are not required where fall arrest/restraint anchorage connector devices that comply with ANSI/ASSE Z 359.1 are installed.

REPLACE EXIST UNIT W/ NEW UNIT, OF THE MATCHING CAPACITY. RE-CONNECT TO EXISTING DUCTWORK & UTILITIES. SEE EQUIPMENT SCHEDULE FOR DETAILS ON NEW UNIT.



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ISSUE FOR PERMIT

Key Plan

City of Puyallup
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ISSUED PERMIT

Building	Planning
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Revisions

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PARTIAL ROOF PLANS - HVAC

M2.R1

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