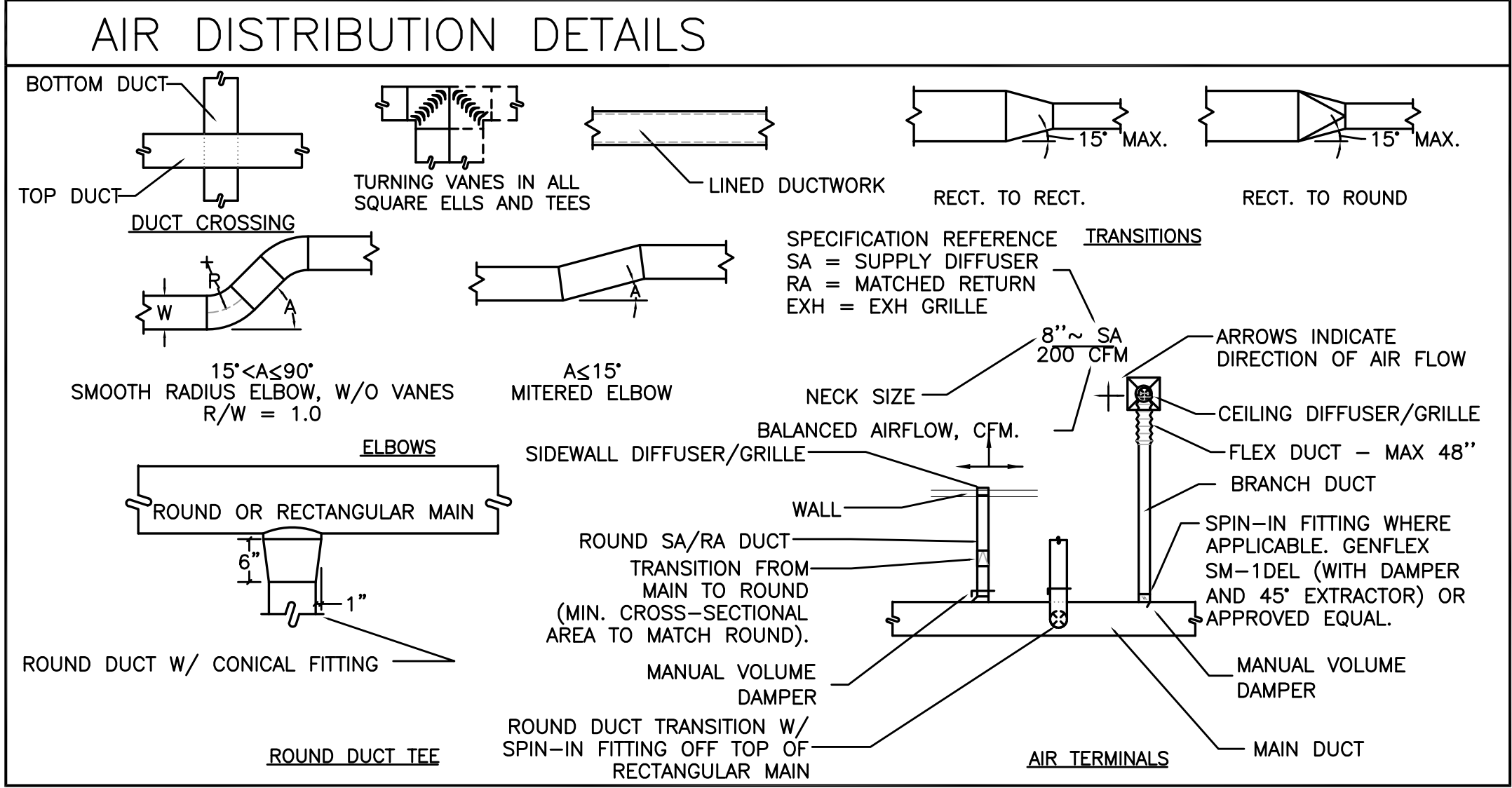


MECHANICAL LEGEND			
	.....SUPPLY AIR DIFFUSER	AFF	..... ABOVE FINISH FLOOR
	.....RETURN AIR GRILLE	AHU	..... AIR HANDLING UNIT
	.....EXHAUST AIR GRILLE	B.D.	..... BOTTOM OF DUCT
	.....PERFORATED RETURN AIR PANEL	BHP	..... BRAKE HORSEPOWER
	OR	BTU	..... BRITISH THERMAL UNITS
	.....MANUAL VOLUME DAMPER	CFM	..... CUBIC FEET PER MINUTE
	.....SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	CONN.	..... CONNECTION
	.....RETURN AIR DUCT UP & DOWN	CONT.	..... CONTINUATION
	.....EXHAUST AIR DUCT UP & DOWN	CW	..... DOMESTIC COLD WATER
	.....SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	DB	..... DRY BULB
	.....RETURN AIR DUCT UP & DOWN	DIA.	..... DIAMETER
	.....EXHAUST AIR DUCT UP & DOWN	DIST.	..... DISTRIBUTION
	.....SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	EA	..... EXHAUST AIR
	.....RETURN AIR DUCT UP & DOWN	EDB	..... ENTERING DRY BULB TEMPERATURE
	.....EXHAUST AIR DUCT UP & DOWN	EWB	..... ENTERING WET BULB TEMPERATURE
	.....SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	EWT	..... ENTERING WATER TEMPERATURE
	.....RETURN AIR DUCT UP & DOWN	FF	..... FINISH FLOOR
	.....EXHAUST AIR DUCT UP & DOWN	FF	..... FINISH FLOOR
	.....VAV TERMINAL UNIT	FIXT.	..... FIXTURE
	.....VVT TERMINAL UNIT	FPM	..... FEET PER MINUTE
	.....EXISTING	FPS	..... FEET PER SECOND
	.....CONNECT TO EXISTING	FT.	..... FEET / FOOT
	.....THERMOSTAT OR TEMP. SENSOR	GA.	..... GAUGE
	.....NOTE	GPM	..... GALLONS PER MINUTE
	.....EQUIPMENT DESIGNATOR	H	..... HEIGHT
	.....BALL VALVE	HP	..... HORSEPOWER
	.....GATE VALVE	I.D.	..... INSIDE DIAMETER
	.....CHECK VALVE	IN.	..... INCHES
	.....BALANCING VALVE	L	..... LENGTH
	.....THERMOMETER	LBS.	..... POUNDS
	.....DIRECTION OF FLOW	LDB	..... LEAVING DRY BULB
	.....PUMP	LWB	..... LEAVING WET BULB
	.....STRAINER	LWT	..... LEAVING WATER TEMPERATURE
	.....PRESSURE GAUGE	MAX.	..... MAXIMUM
	.....PETE'S PLUG	MBH	..... THOUSANDS OF BTUs PER HOUR
	.....DOUBLE CHECK ASSEMBLY	MIN.	..... MINIMUM
	.....PRESSURE REDUCING VALVE	NC	..... NOISE CRITERIA
	.....UNION	N.C.	..... NORMALLY CLOSED
	.....2-WAY CONTROL VALVE	N.I.M.	..... NOT IN MECHANICAL
	.....3-WAY CONTROL VALVE	NO.	..... NUMBER
	.....CAP	N.O.	..... NORMALLY OPEN
	.....SMOKE DETECTOR	O.A.	..... OUTSIDE AIR
	.....MOTORIZED DAMPER	P	..... PERSON
		PSI	..... POUNDS PER SQUARE INCH
		P/T	..... PRESSURE / TEMPERATURE
		R.A.	..... RETURN AIR
		RECT.	..... RECTANGULAR
		REQ'D	..... REQUIRED
		S.A.	..... SUPPLY AIR
		S.P.	..... STATIC PRESSURE
		SQ.	..... SQUARE
		TEMP.	..... TEMPERATURE
		TYP.	..... TYPICAL
		VAV	..... VARIABLE AIR VOLUME
		W	..... WIDTH
		WB	..... WET BULB
		WPD	..... WATER PRESSURE DROP
		ø	..... DIAMETER
			..... (E) EXISTING
			----- (D) DEMOLISH
			----- NEW WORK
			----- HWS ----- (HWS) HEATING WATER SUPPLY
			----- HWR ----- (HWR) HEATING WATER RETURN
			..... FIRE DAMPER
			..... FIRE / SMOKE DAMPER
			..... SMOKE DAMPER
			<u>SEISMIC BRACING</u>
			..... LATERAL BRACING
			..... LONGITUDINAL BRACING
			..... LONGITUDINAL & LATERAL BRACING



ROOFTOP HVAC UNITS				
MARK NUMBER				
SYSTEM	WEST HALLWAYS	NORTH HALLWAYS	EAST HALLWAYS	
TYPE	C.V.	C.V.	C.V.	
DISCHARGE	VERTICAL	VERTICAL	VERTICAL	
FAN SECTION	TOTAL CFM	2400	1300	900
	ECONOMIZER	NONE-100% OSA	NONE-100% OSA	NONE-100% OSA
	MIN. OSA	-	-	-
	MAX OSA (FULL OCCUPANCY)	NA	NA	NA
	CO2 CONTROL	NA	NA	NA
	EXTERNAL SP. ("H2O)	1.20"	1.0"	0.75
	TOTAL SP. ("H2O)	---	---	---
	RPM	1007	1007	1007
	WHEEL TYPE/ SIZE	F.C. 10X10 (DIRECT)	F.C. 1X010 (DIRECT)	F.C. 10X10 (DIRECT)
	MOTOR HP.	2.5, NOTE 1	1.0, NOTE 1	0.50" NOTE 1
HEATING	POWER EXH FAN/ACCESSORY	NONE	NONE	NONE
	FILTER TYPE	2"- 30%	2"- 30%	2"- 30%
	GAS INPUT/OUTPUT (MBH)	150 / 120	150 / 117	115/ 89
	EFF. (AFUE)	80.0%	78.8%	78.5%
COOLING	STAGES/TYPE	2-S.S. HIGH HEAT	1-S.S. HIGH HEAT	2-S.S. HIGH HEAT
	TOTAL CLG. (TONS)	6.0	4.0	3
	SENSIBLE CLG. (MBH)	70	34.58	28
	ENT. EVAP AIR TEMP (DB/WB.)	90/67	90/67	90/67
	LVG. EVAP AIR TEMP (DB/WB.)	55/54	55/54	55/54
	AMBIENT AIR (°F)	95	95	95
	EER/SEER	11 SEER	13.0 SEER	13.0 SEER
	REFRIGERANT	410A	410A	410A
	DESIGN WEIGHT (LBS.)	750	650	600
	SMOKE DETECTOR (RETURN DUCT)	NO	NO	NO
DESIGN	SPRING ISOLATION ROOF CURB	YES	YES	YES
	CONVENIENCE OUTLET - ALWAYS POWERED	YES	YES	YES
	VOLTAGE/PHASE	208/3	208/1	208/1
BASIS OF DESIGN - CARRIER MODEL		48TCTA07	48TCTA05	48TCTA04

NOTES:
 1. PROVIDE WITH HIGH STATIC FAN.

PACKAGED TERMINAL HEAT PUMP		
MARK NUMBER		
TYPE	THRU-THE-WALL HEAT PUMP	THRU-THE-WALL HEAT PUMP
SYSTEM	UNITS	UNITS
NOMINAL COOLING CAPACITY (BTUH)	12,000	14,400
HEATING CAPACITY (BTUH)	11,500	13,800
④ 47°F OUTDOOR AIR TEMP		
ELECTRIC HEATING CAPACITY (KW)	3.5	3.5
CFM (HI/LOW) (WET COIL)	340/245	390/340
MIN OSA (CFM)	0 - *	0 - *
LVG. AIR TEMP (°F)	55°F	55°F
REMOTE THERMOSTAT	YES	YES
EFFICIENCY (EER)	10.7	9.7
EFFICIENCY (COP)	3.1	3.0
ARCHITECTURAL GRILLE	YES	YES
DESIGN WT. (LBS)	135	145
ELECT (VOLTS/PHASE/HTZ)	230/1/60	230/1/60
TOTAL AMPS (HEAT)	15.5	15.5
MCA/MOP	19.5/20	19.5/20
CONDENSATE DRAIN KIT	YES	YES
BASIS OF DESIGN: AMMANA	PTHP123	PTHP153

PRELIMINARY
 NOT FOR
 CONSTRUCTION

KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

MBA
 MERRYMAN BARNES ARCHITECTS

PROJECT NO. 16-0602
 ISSUE DATE 06.23.2017

REVISIONS

SHEET

MECHANICAL LEGENDS
 AND SCHEDULES

M6.0

NOT FOR CONSTRUCTION

PRICING SET

© MERRYMAN BARNES ARCHITECTS, INC.

MFA
 Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0548
 FAX: (503) 234-0677
 INC. WWW.MFA-ENG.COM
 CONTACT: Takako Baker