

4 FASTEN CONDENSING UNIT TO EQUIPMENT RAIL. COORDINATE SPACING PRIOR TO INSTALLATION.

GREENHECK OR APPROVED EQUAL.

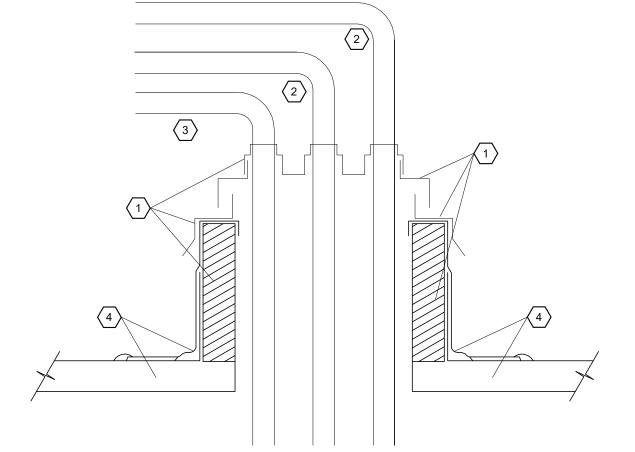
24" HIGH), MIN. 18 GAGE AS MANUFACTURED BY

NOTE: EQUIPMENT RAIL FURNISHED BY MC AND TURNED OVER TO GC FOR INSTALLATION. COORDINATE SIZE AND LAYOUT WITH GC.

PROVIDE PROFESSIONAL ENGINEER STAMPED AND SIGNED ENGINEERING CALCULATIONS AND DETAILS OF WIND RESTRAINT SYSTEMS TO MEET TOTAL DESIGN LATERAL FORCE REQUIREMENTS FOR SUPPORT AND RESTRAINT OF MECHANICAL

WIND RESTRAINT ENGINEERING CALCULATIONS AND DETAILS SHALL PROVIDE THE QUANTITY OF ATTACHMENTS AND SIZE/TYPE OF ATTACHMENTS FOR THE MOUNTING OF SUPPORT RAIL TO THE BUILDING STRUCTURE, AND FOR ATTACHMENT OF THE EQUIPMENT TO THE SUPPORT RAIL. SUBMIT WIND FORCE LEVEL (FP) CALCULATIONS FROM APPLICABLE BUILDING CODE. SUBMIT PRE- APPROVED RESTRAINT SELECTIONS,

WIND RESTRAINT DESIGN CRITERIA: ULTIMATE DESIGN WIND SPEED, V EXPOSURE CATEGORY RISK CATEGORY HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT



OFFICE SPACE

OFFICE SPACE

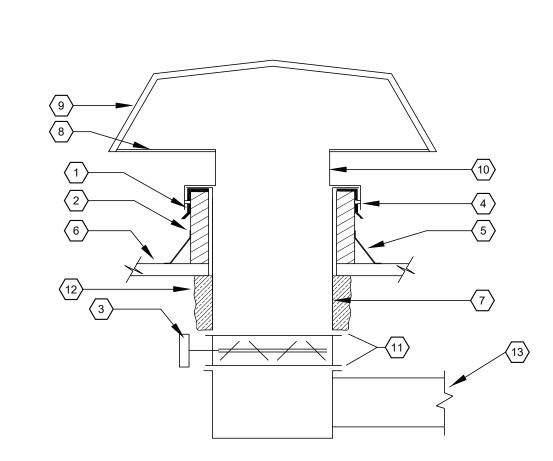
SO1

 \langle 1 \rangle PROVIDE STRAIGHT SIDED INSULATED CURB (MIN. 24" HIGH), COVER, CAP AND CLAMPS AS MANUFACTURED BY PORTALS PLUS OR APPROVED EQUAL.

- $\langle 2 \rangle$ REFRIGERANT PIPE; QTY PER PLANS
- $\langle 3 \rangle$ ELECTRICAL CONDUIT; QTY PER PLANS
- 4 ROOF FLASHING AND ROOF DECK

EACH COMPLETE PIPE PORTAL SHALL INCLUDE A BASE WITH A MOLDED SEALING RING ON A COLLARED OPENING AND AN EPDM COMPRESSION MOLDED RUBBER CAP. THE CAP AND BASE SHALL BE LOCKED WITH A "WEATHER TIGHT PRESSURE SEAL". THE PORTAL SHALL INCLUDE STAINLESS STEEL CLAMP SEALING UNITS. THE PIPE PORTAL SHALL INCLUDE A PREFABRICATED ROOF CURB, A LAMINATED ACRYLIC COATED ABS COVER WITH PRE-PUNCHED MOUNTING HOLES AND A DOUBLE MOLDED SEALING RING ON THE COLLARED OPENING.

CONTRACTOR TO VERIFY CURB DIMENSIONS IN



3 Fresh Air Intakes And Air Relief Vents Detail

ABBREVIATION LEGEND DESCRIPTION

AIR FLOW MEASURING DEVICE

ABBREVIATION AIR-COOLED CONDENSER AIR-COOLED CONDENSING UNT ACCESS DOOR AIR FILTER ABOVE FINISHED FLOOR

AHU APD	AIR HANDLING UNIT AIR PRESSURE DROP
APD AV	AUTOMATIC AIR VENT
В	DDITICULTUEDMAL LINITO DED LIQUID
BTUH C	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CCCT CD	CLOSED CIRCUIT COOLER CEILING DIFFUSER
CEF	CEILING EXHAUST FAN
CFM	CUBIC FEET PER MINUTE
CO CONT	CLEAN OUT CONTINUED
CR	CEILING RETURN
CT CUH	COOLING TOWER CABINET UNIT HEATER
D	CABINET CHITTEATER
DB	DECIBELS
DBT DIA	DRY BULB TEMPERATURE DIAMETER
DPT	DEW POINT TEMPERATURE
DX E	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC EF	ELECTRICAL CONTRACTOR EXHAUST FAN
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE
EHC ER	ELECTRIC HEATING COIL EXHAUST REGISTER
ERC	ENERGY RECOVERY COIL
ERP	ELECTRIC RADIANT PANEL
ET EWT	EXPANSION TANK ENTERING WATER TEMPERATURE
EX	EXISTING
F FCU	FAN COIL UNIT
FD	FAN COIL UNIT FIRE DAMPER
FD/SD	COMBINATION FIRE/SMOKE DAMPER
FF FL	FINAL FILTER FLOOR
FPM	FEET PER MINUTE
FT G	FEET
G GAL	GALLONS
GPM	GALLONS PER MINUTE
GR GRV	GLYCOL SUPPLY GRAVITY ROOF VENTILATION
GRV GS	GRAVITY ROOF VENTILATION GLYCOL SUPPLY
Н	LUMADISES
H HC	HUMIDIFIER HEATING COIL
HGT	HEIGHT
HP	HORSEPOWER OR HEAT PUMP
HRU HX	HEAT RECOVERY UNIT HEAT EXCHANGER
IN	INCH
KW	KILOWATT
L LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LD LFT	LINEAR DIFFUSER LEAVING FLUID TEMPERATURE
LPC	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM (15 PSIG AND BELOW)
LSD LWT	LINEAR SLOT DIFFUSER LEAVING WATER TEMPERATURE
M	
MAX	MAXIMUM
MBH MC	ONT THOUSAND BRITISH THERMAL UNITS PER HOUR MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MIN MPC	MINIMUM MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE CONDENSATE RETURN MEDIUM PRESSURE STEAM (16-59 PSIG)
N	
NIC NOM	NOT IN CONTRACT NOMINAL
O	
OA	OUTSIDE AIR
P P	PUMP
PC	PUMPED CONDENSATE
PD PRV	PRESSURE DROP PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR
PRV PSIG	PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR POUND PER SQUARE INCH - GAUGE
R	
RA RF	RETURN AIR RETURN FAN
RG	RETURN GRILLE
RH BM	REHEAT COIL
RM ROTV	ROOM ROTARY VENTILATOR
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU S	ROOF-TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF SP	SUPPLY FAN STATIC PRESSURE
SR	SUPPLY REGISTER
T	TRANSFER OPENING
TO U	TRANSFER OPENING
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V VA	VENTILATION AIR
VAV	VARIABLE AIR VOLUME
VD VFD	VOLUME DAMPER VARIABLE FREQUENCY DRIVE

1 CAP FLASHING

(2) ROOF CURB MIN. 24" HIGH. ROOF CURB TO BE PROVIDED FOR INSTALLATION ON SLOPED ROOF. COORDINATE WITH ARCHITECTURAL DRAWINGS.

WET BULB TEMPERATURE

WATER PRESSURE DROP

VACUUM STEAM CONDENSATE RETURN

VACUUM PUMP

WATER GAUGE

WIRE MESH SCREEN

(3) INSULATED/THERMALLY BROKEN MOTORIZED DAMPER. TAMCO OR

- EQUAL. 4 LAG TO CURB
- 5 ROOF FLASHING $\langle 6 \rangle$ ROOF
- 7 DUCT TO BE FULL SIZE OF CURB OPENING
- 8 BIRD SCREEN 9 HOOD
- 10 12" BASE ON INTAKES 11 FLANGED CONNECTION
- (12) DUCT INSULATION SEE PLAN FOR DUCT SIZE AND CONTINUATION

Mechanical Legends, Details and Schedules

DATE

CSArch Proj. #:

Issued for Bid:

Sheet Title

COPYRIGHT © ALL RIGHTS RESERVED

EXP:11/30/2025

DESCRIPTION

66-11-00-01-0-013-

CONSTRUCTION DOCUMENTS

1 Roof Mounted Condensing Unit Support - Single Unit M001 N.T.S.

INSTALLATION DETAILS, PLANS INDICATING LOCATIONS OF RESTRAINTS AND MANUFACTURER'S PRODUCT DATA. (1) BUILDING HEIGHT LESS THAN 60 FT.

Roof Piping Penetration At Condensing Unit Detail
N.T.S.

MAIN OFFICE

SECURITY OFFICE