NOTE: EXCLUDING THE DUCT THAT SHIPS WITH THE HOODS, THE EXHAUST RISERS CANNOT HAVE ADDITIONAL, 'FIELD' OFFSETS. TRUSSES CLOSEST TO THE EXHAUST RISERS MUST BE SPACED SO THAT NO ADDITIONAL OFFSETS ARE NEEDED. FIELD VERIFY AND COORDINATE WITH GENERAL CONTRACTOR (TYP. 2.)

WOODEN TRUSS. VERIFY LOCATION ON SITE (TYP.)

NOTE: FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED. FOR ORDERING INFORMATION REFER TO THE NCA HVAC EQUIPMENT PACKAGE NOTE, SHEET M-1.

ELECTRICAL CONTRACTOR AND PLUMBING CONTRACTOR WILL PROVIDE PITCH POCKETS FOR HVAC EQUIPMENT CONNECTIONS. DO NOT PENETRATE BOTTOM OF FAN OR RTU CURB.

H| AC CONTRACTOR SHALL NOT DISASSEM LE THE E HA ST FAN TO RECONFI RE THE E HA ST DISCHAR E

The General Contractor and the HVAC Contractor shall maintain distances from center of exhaust riser to the a/c unit curb as shown on this plan. Any discrepancies shall be reported immediately to the NCA Design Department at toll-free 877.530.0078 and the site-specific architect.

SMOKE DETECTOR, INSTALL IN RETURN SECTION OF CURB WITH SAMPLING TUBE IN RETURN AIRSTREAM. IF RTU HAS AN ECONOMISER, INSTALL DETECTOR IN RETURN GRILLE CAN (TYPICAL.)

NOTE: DO NOT INSTALL SMOKE DETECTOR ON OUTSIDE OF CURB OR RTU.

OUTSIDE AIR HOOD. MAINTAIN 10'-0" MINIMUM FROM ANY EXHAUST OR PLUMBING VENTS (TYPICAL.)

SHIM BETWEEN BOTTON OF CURB AND DECK TO MAKE CURB LEVEL

LOCATION OF ELECTRICAL DISCONNECT AND CONTROL WIRING ENTRANCE, REFER TO ELECTRICAL PLANS (TYPICAL.)

ELECTRICAL PENETRATION THROUGH ROOF WITH PITCH POCKET. PROVIDED BY ELECTRICAL CONTRACTOR (TYPICAL.)

NATURAL GAS CONNECTION (TYPICAL.) GAS PIPE PENETRATION THROUGH ROOF WITH PITCH POCKET. PROVIDED BY PLUMBING CONTRACTOR (TYPICAL.)

CONDENSATE DRAIN WITH EXTERNAL, 4" DEEP P-TRAP INSTALLED BY HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL EXTEND DRAIN TO ACCEPTABLE LOCATION (TYPICAL.)

RTU-1 (DASHED AREA CURB)

RTU-2 (DASHED AREA CURB)

SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

RTU-3 (DASHED AREA CURB)

SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

EF-1

EF-2

EF-3

RTU-4 (DASHED AREA CURB)

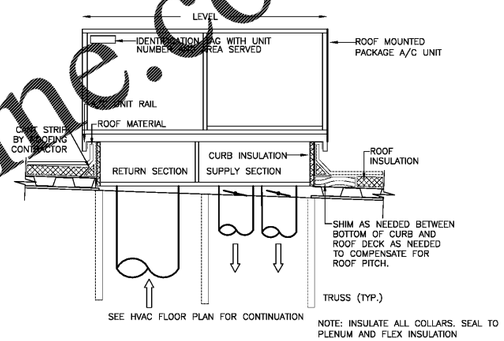
SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

NOTE:
MAINTAIN A MINIMUM 10'-0" CLEAR HORIZONTAL FROM ANY EXHAUST TO ANY FRESH AIR INTAKES (TYPICAL.)

WATER HEATER FLUE WITH APPROVED CAP INSTALLED BY PLUMBING CONTRACTOR.

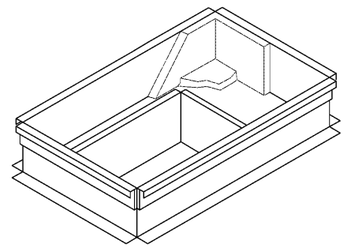
ROOF PLAN — HVAC

SCALE 1/4" = 1'-0" WHEN PLOTTED 36" X 24"



DUCT RISER/LEVELING DETAIL

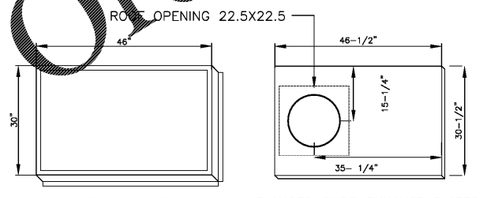
NOT TO SCALE



FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.

NCA PLENUMIZED AC CURB DETAIL

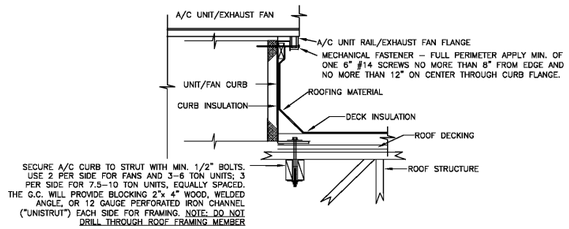
NOT TO SCALE



ROOF CURBS FLANGED CURB EXHAUST PLATES

EXHAUST FAN CURB/CURB PLATE

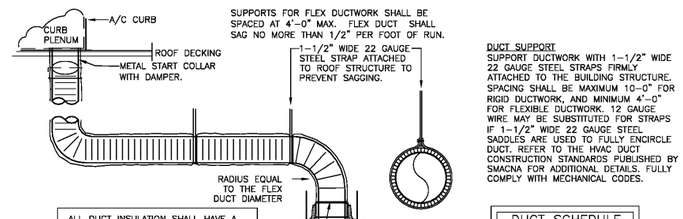
NOT TO SCALE



ACCEPTABLE FOR 140 MPH ZONE

ROOF EQUIP. CURB MOUNTING DETAIL

NOT TO SCALE ACCEPTABLE FOR 140 MPH ZONE



DUCT SUPPORT
SUPPORT DUCTWORK WITH 1-1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10-0" FOR RIGID DUCTWORK, AND MINIMUM 4'-0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1-1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED TO FULLY ENCIRCLE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.

DUCT SCHEDULE	
SIZE	GAUGE
6"ø – 8"ø	28
10"ø – 12"ø	26
14"ø – 16"ø	24
18"ø – 20"ø	22

NOTE: USE "FLEXIBLE DUCT" ONLY, NOT "FLEXIBLE CONNECTOR." IF LOCAL CODE LIMITS LENGTH OF FLEXIBLE DUCT, USE EXTERNALLY INSULATED SNAPLOCK PIPE TO FLEXIBLE DUCT, TO GRILLE/DIFFUSER

FLEXDUCT CONNECTION/INSTALL DETAIL

NOT TO SCALE

DRAWING INFORMATION		
DATE	DESCRIPTION	BY
08-01-19	FOR CONSTRUCTION	KM

N-C-A
CONSULTANTS/GROUP
4585 140TH AVE. NORTH, SUITE #1001
CLEARWATER, FLORIDA
PHONE: (877) 530-0078
CALL NCA MARKETING FOR PRICING
NCA JOB# 19940

B1931	
DATE	RELEASE
	FOR CONSTRUCTION
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CHECKED BY:	AK
DRAWN BY:	CY

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SOUTH CAROLINA LIC #35544

8/5/19

PROJECT: B1931
DATE: 07/22/2019

BURGER KING RESTAURANT
#026-20-03-003
SC HWY. S-781 & SC HWY. 125
BEECH ISLAND, SC 29842

HVAC ROOF PLAN AND HVAC DETAILS

M-2

Shane R. Hamilton P.E.
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