HVAC GENERAL NOTES

1. ALL CONTROL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF N.F.P.A. 70. ALL WIRING SHALL BE CONCEALED.
2. CONTRACTOR SHALL INSTALL ALL ROOF CURBS FOR ROOFTOP UNITS LEVEL TO HORIZON AT (4) CORNERS.
3. AIR TEST AND BALANCE REQUIRED BY INDEPENDENT TAB CONTRACTOR AABC OR NEBB CERTIFIED. SEE TEST AND BALANCE SCOPE ON THIS SHEET
4. EXISTING SMOKE DETECTORS TO REMAIN AND BE REUSED.
5. LENNOX START UP TECH SHALL PROGRAM THE PRODIGY BOARDS IN ALL NEW RTU'S. PRODIGY BOARDS SHALL BE PROGRAMMED PRIOR TO CSUSA RECOMMISSIONING THE NOVAR SYSTEM.
6. CONTRACTOR SHALL PROVIDE CLEAN FILTERS IN ROOFTOP UNITS PRIOR TO AIR BALANCE AND AGAIN PRIOR TO OWNER ACCEPTANCE.
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL CODE AND THE 2018 NORTH CAROLINA FUEL GAS CODE WITH LOCAL AMENDMENTS. ALL EQUIPMENT AND MATERIALS CAPABLE OF BEING U.L. LABELLED OR LISTED SHALL BEAR THE U.L. LABEL.
8. CONTRACTOR SHALL PROVIDE A GASKET BETWEEN BASE OF ROOF MOUNTED FANS AND ROOF CURBS TO PROVIDE AN AIRTIGHT JOINT.
9. PROVIDE MISCELLANEOUS STEEL AND/OR WOOD BLOCKING AND SUPPORT AT ROOF CURBS AND OPENINGS AS REQUIRED TO SUPPORT ROOF AND EQUIPMENT. SPECIFIC REQUIREMENTS SHALL BE VERIFIED WITH STRUCTURAL ENGINEER AND APPROVED EQUIPMENT DRAWINGS PRIOR TO PLACEMENT.
10. NEW SUPPLY AND EXHAUST DUCT SHALL BE 2.0 IN PRESSURE CLASS.
11. NEW DUCT SHALL HAVE PAINT GRIP FINISH AND BE EITHER GALVANNEALED OR MILL PHOSPHATIZED.
12. ANY NEW SUPPLY DUCT SHALL BE INTERNALLY INSULATED WITH 1" DUCT LINER EQUAL TO OWENS CORNING ACOUSTITEX, 1.5 LB DENSITY, R=3.8.

PIPING GENERAL NOTES

1. ANY NEW GAS PIPING SHALL BE ASTM A-120, SCHEDULE 40, BLACK STEEL WITH 150 LB. MALLEABLE IRON SCREWED FITTINGS.
2. ANY NEW EXTERIOR GAS PIPE SHALL BE PAINTED WITH RUST PROHIBITIVE PAINT.

HVAC LEGEND

A.F.F.	ABOVE FINISHED FLOOR
VD	VOLUME DAMPER
B.O.S.	BOTTOM OF STEEL
B.O.D.	BOTTOM OF DUCT
U.N.O.	UNLESS NOTED OTHERWISE
VD	VOLUME DAMPER
	SUPPLY GRILLE WITH FLEX DUCT DROP
	RETURN/EXHAUST GRILLE
R, D	R = RISE, D = DROP
T	THERMOSTAT
S	LENNOX ROOM TEMPERATURE/HUMIDITY SENSOR 72" AFF
	SPIN-IN FITTING
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED
OG	ORIGINAL GAS
AG	ADDITION GAS
EG	ESTIMATED EXISTING GAS
G	NEW GAS

ROOFTOP UNIT NOTES

1. CARMAX AUTO SUPERSTORE, LLC HAS A NATIONAL ACCOUNT WITH LENNOX INDUSTRIES, INC. FOR PRICING AND DELIVERY OF PACKAGED ROOFTOP UNITS IN ACCORDANCE WITH THE FOLLOWING. NO SUBSTITUTIONS WILL BE ALLOWED.

   A. ROOFTOP UNITS SHALL BE AS SCHEDULED.

   THE ELECTRICAL PACKAGE SHALL INCLUDE:
   - -UNIT DISCONNECT (INSTALLED AND WIRED)
   - -BOTTOM GAS/POWER ENTRY
   - -STANDARD LOW AMBIENT CONTROL
   - -DUAL 120V GFCI TYPE OUTLETS (TO BE FIELD WIRED)
   - -GLOBAL DRY BULB ECONOMIZERS W/FAN POWERED EXHAUST (1.5T AND LARGER UNLESS OTHERWISE NOTED)
   - -GLOBAL DRY BULB ECONOMIZERS W/BAROMETRIC RELIEF (6T AND SMALLER)
   - -STAINLESS STEEL HEAT EXCHANGER AND FRESH AIR TEMPERING FOR RTU-8+9
2. THE LENNOX NATIONAL ACCOUNT CONTACT IS:

   RON JOHNSON
   "804-621-2606
3. HVAC EQUIPMENT PERFORMANCE CHECK (EPC)

   UPON COMPLETION OF THE HVAC INSTALLATION AND STARTUP, THE OWNER'S SERVICE CONSULTANT, AT THE OWNER'S EXPENSE, IS TO INSPECT THE JOB AND PERFORM AN (EPC) THIS EPC WILL AID THE CONTRACTOR IN CHECKING EACH MACHINE FOR PROPER OPERATION, CHECKING THE CONTROL PANEL AND ADJUSTING CONTROLS AS NECESSARY.

   THE OWNER'S SERVICE CONSULTANT:
   COMFORT SYSTEMS
   ATTN: VALERIE BEDEL
   P: 317-246-5181
   valeriebedel@comfortsystemsusa.com

   ALL PROBLEMS DISCOVERED WITH THE EQUIPMENT OR ITS INSTALLATION (EXCLUDING NOVAR INSTALLATION) SHALL BE CORRECTED BY THE HVAC SUBCONTRACTOR IN ACCORDANCE WITH THE OWNER'S SERVICE CONSULTANT.

   AFTER ALL PROBLEMS HAVE BEEN CORRECTED, CARMAX AUTO SUPERSTORE, LLC SHALL VERIFY ALL EQUIPMENT IS OPERATING PROPERLY THROUGH THE NOVAR CONTROLLERS.

   PRIOR TO PERFORMANCE OF THE EPC, THE CONTRACTOR SHALL HAVE SET AND CONNECTED ALL COMPONENTS, COMPLETED THE POWER WIRING, CONNECTED ALL PIPING, REMOVED ALL SHIPPING BLOCKS, COMPLETED THE STARTUP OF ALL UNITS AND FURNISHED THE PRE-EPC CHECKLIST TO THE OWNER'S SERVICE CONSULTANT.

   THE EPC INCLUDES A FULL WRITTEN REPORT. COPIES WILL BE SENT TO THE GENERAL CONTRACTOR AND CARMAX AUTO SUPERSTORE, LLC. COPIES OF THE EPC SHALL BE INCORPORATED IN TO THE O & M MANUALS BY THE GENERAL CONTRACTOR.

   A. RTU AIR FILTERS SHALL BE CAMFIL FARR AEROPLEAT III PLEATED, 2" THICK, MERV 13, OR EQUAL. MARK FILTERS WITH INSTALLATION DATE

   B. THE PACKAGE COMPONENTS WILL BE CLEARLY LABELLED (IN LEGIBLE FORM) ON THE EXTERIOR OF ALL BOXES OR CRATES.

   C. SUBMIT RTU SUBMITTALS IN PDF FORMAT TO THE ENGINEER FOR APPROVAL.

CONTROLS SCOPE OF WORK:

1. ALL NEW RTU'S WILL BE BACNET.
2. THE GENERAL CONTRACTOR SHALL RETAIN COMFORT SYSTEMS USA (CSUSA) TO FURNISH AND INSTALL CONTROLS AS INDICATED BELOW. THE CONTACT AT CSUSA IS: VALERIE BEDEL 317-246-5181
3. PROVIDE PRE-CONSTRUCTION SCREEN SHOTS FROM NOVAR EMS MONITORING TO INCLUDE UNIT STATUS, MODULE COMMUNICATIONS STATUS AND ACTIVE ALARMS.
4. NOT USED
5. CONNECT NEW RTU'S W/PRODIGY BOARDS TO BACNET COMMUNICATION.
6. FOR NEW RTU'S REPLACE RTU NOVAR TEMPERATURE SENSORS WITH LENNOX SENSORS.
7. REPLACE/UPGRADE SAVVY 3I WITH OPUS XCM126 PANEL. SAME BASE PLATE, MINIMAL RE-WIRING REQUIRED.
8. CONNECT BACNET NETWORK AS REQUIRED.
9. TURN OVER SAVVY 3I PANEL AND ETM'S TO CARMAX FOR FUTURE SERVICE CALL INVENTORY SHIP TO COMFORT SYSTEMS USA, ATTN VALERIE BEDEL, CARMAX EMS ACCOUNT CO-ORDINATOR.
10. UPDATE SOFTWARE PER NEW CARMAX TEMPLATE
11. COMMISSION EMS SYSTEM
12. PROVIDE POST CONSTRUCTION SCREEN SHOTS FROM NOVAR EMS MONITORING TO INCLUDE UNIT STATUS, MODULE COMMUNICATIONS STATUS AND ACTIVE ALARMS.
13. LENNOX/CARMAX RTU SET UP SHEET IS TO BE COMPLETED UPON UNIT STARTUP. A COMPLETED SHEET IS TO BE LEFT IN EACH NEW RTU AND A COPY SUBMITTED WITH CLOSE OUT DOCUMENTATION FOR EACH NEW RTU.
14. FURNISH AND INSTALL ADDITIONAL CONTROL WIRE FOR CO2 SENSORS AND UNITS WITH HUMIDITROL.
15. ALL CONTROL COMMUNICATIONS BUS AND SENSOR WIRING, NEW AND EXISTING, IS PART OF THE CONTROLS CONTRACTOR SCOPE OF WORK. REPLACE ANY DAMAGED WIRE.

ROOFTOP UNIT SCHEDULE

(SHOWN FOR REFERENCE ONLY)

MARK	LOCATIONS AND AREAS SERVED	EER	VOLT/PH	FAN DATA CFM	FAN DATA ESP IN WC	FAN DATA HP	COOLING DATA EAT DB/WB	COOLING DATA TOTAL MBH	COOLING DATA SENSIBLE MBH	GAS DATA INPUT MBH	GAS DATA OUTPUT MBH	MIN. O/A CFM	MODEL	(3) WEIGHT	REMARKS (1)
RTU-1	SHOWROOM	11.5	480/3	5500	.6	3	76.9/64.9	173.3	124.1	260	208	850	LENNOX LGA180H	2900	
RTU-2	SHOWROOM	11.5	480/3	5500	.6	3	76.9/64.9	173.3	124.1	260	208	850	LENNOX LGA180H	2900	
RTU-3	CUSTOMER	11.2	480/3	900	.6	1.5	78.8/66.3	34.6	23.5	78	61.6	120	LENNOX LGA036H	900	
RTU-4	BUYERS	11.3	480/3	1100	.6	1.5	78.9/66.1	40.2	28.1	78	61.6	200	LENNOX LGA042H	900	
RTU-5	BUSINESS	11.6	480/3	1700	.6	1.5	78.7/66.1	59.4	42.1	78	61.6	300	LENNOX LGA060H	900	
RTU-6	BREAK/CONF	11.3	480/3	1200	.6	1.5	76.4/65.7	46.4	29.6	78	61.6	150	LENNOX LGA048H	900	
RTU-7	WRITE UP	11.3	480/3	1300	.6	1.5	77.1/65.2	46.2	31.4	78	61.6	200	LENNOX LGA048H	900	
RTU-8	SERVICE	10.0	480/3	7000	.8	5.0	95/76	318	185	470	376	4600	LENNOX LGA300H	4900	(2)
RTU-9	SERVICE	10.0	480/3	7000	.8	5.0	95/76	318	185	470	376	4600	LENNOX LGA300H	4900	(2)

(1) PROVIDE WITH FACTORY INSTALLED NOVAR CONTROL MODULE: LGA UNIT SERIES (MODEL 2051)

(2) BYPASS 2400 CFM IN CURB, 4600 CFM TO SPACE. BY-PASS CURB AND MIXING BOX

(3) INCLUDES WEIGH OF UNIT AND CURB

ROOFTOP UNIT SCHEDULE

MARK	ZONE	EER	VOLT/PH	FAN DATA CFM	FAN DATA TOT IN WC	FAN DATA ESP IN WC	FAN DATA HP	COOLING DATA (9) EAT DB/WB	COOLING DATA TOTAL MBH	COOLING DATA SENSIBLE MBH	GAS DATA INPUT MBH	GAS DATA OUTPUT MBH	MIN. O/A CFM	MODEL (1)	WEIGHT (17)	REMARKS (2)(4)(12)
RTU-1	SHOWROOM	12.8	480/3	5500	1.0	.8	3.0	80/67	--	--	260	208	850	LENNOX LGH180H4M	2500	(5)(13)(14)
RTU-2	SHOWROOM	12.0	480/3	5500	1.0	.8	3.0	80/67	--	--	260	208	850	LENNOX LGH180H4M	2500	(5)(13)(14)
RTU-3	CUSTOMER	12.8	480/3	1000	.80	.6	.50	80/67	--	--	65	52	120	LENNOX LGH036H4E	1000	(5)(6)(11)
RTU-4	BUYERS	12.8	480/3	1280	.80	.6	.75	80/67	--	--	65	52	200	LENNOX LGH048H4E	1000	(5)(6)(11)
RTU-5	BUSINESS	12.0	480/3	1700	.85	.6	1.0	80/67	--	--	65	52	300	LENNOX LGH060H4E	1015	(5)(6)(11)
RTU-6	BREAK ROOM	12.8	480/3	1280	.80	.6	.75	80/67	--	--	65	52	150	LENNOX LGH048H4E	1000	(5)(6)(11)
RTU-7	WRITE UP	12.8	480/3	1300	.80	.6	.75	80/67	--	--	65	52	200	LENNOX LGH048H4E	1000	(5)(6)(11)
RTU-8	SERVICE AREA	11.6	480/3	7000	1.25	.8	5.0	82/70	--	--	480	384	4600	LENNOX LGH300H4B	4600	(3)(5)(7)(8)(10)(14)(15)(16)
RTU-9	SERVICE AREA	11.6	480/3	7000	1.25	.8	5.0	82/70	--	--	480	384	4600	LENNOX LGH300H4B	4600	(3)(5)(7)(8)(10)(14)(15)(16)
RTU-10	PBX	12.1	480/3	975	.90	.8	.50	75/63	32.4	23.3	--	--	--	LENNOX LCH036H4M	600	(18)

(1) ONLY ACCEPTABLE MANUFACTURER IS LENNOX. SEE "ROOFTOP UNIT NOTES"
(2) FIELD ADJUST SUPPLY FAN R.P.M. TO PROVIDE AIR QUANTITIES AS SCHEDULED ABOVE. INSTALL FIELD-SUPPLIED MOTOR AND/OR DRIVE AS REQ'D
(3) INSTALL F.A.T. DISCHARGE AIR TEMPERATURE SENSOR. SHIPPED LOOSE IN RTU CABINET, INSTALL SENSOR IN SUPPLY IN SUPPLY DUCT APPROX 3FT BELOW ROOF DECK. SEE DETAIL 4/M4.0
(4) BACNET CONTROL, NEW TEMP SENSOR OR COMBO TEMP/HUMIDITY SENSOR
(5) HUMIDITROL DEHUM OPTION
(6) GLOBAL ECONOMIZER WITH BAROMETRIC RELIEF
(7) STAINLESS STEEL HEAT EXCHANGER
(8) FRESH AIR TEMPERING, 100% OUTSIDE AIR
(9) 95°F CONDENSER AIR
(10) MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION OF WIRING HARNESS SHIPPED LOOSE W/ RTU THAT ARE ASSOCIATED WITH OUTSIDE AIR DAMPER.
(11) ADAPTER CURB
(12) DRAIN PAN OVERFLOW SWITCH MODEL 216NSR90A1
(13) GLOBAL ECONOMIZER WITH POWERED EXHAUST
(14) 2 STAGE HEAT
(15) REUSE EXISTING BY-PASS CURB, NEW MIXING BOX
(16) 7000 CFM ACROSS COIL, 2400 CFM BYPASSED IN CURB, 4600 CFM OUTSIDE AIR AND SUPPLY TO SERVICE
(17) INCLUDES WEIGHT OF EXISTING CURB AND ADAPTER CURB WHERE APPPLICABLE
(18) 14" HYBRID CURB

TEST & BALANCE SCOPE

MARK	TOTAL AIR ACROSS COIL	OUTSIDE AIR	BYPASS AIR	SUPPLY AIR TO REGISTERS	OTHER
RTU-1 THRU 7, 10	AS SCHEDULED	AS SCHEDULED	--	--	
RTU-8+9	7000	4600	2400	4600	REGISTER AIR QTY AS SHOWN ON M1.10

SUGGESTED TEST & BALANCE PROCEDURE FOR BYPASS UNITS:

RTU-8 & 9

1. CLOSE BYPASS DAMPER & MAKE AIR QTY 7000 CFM.
2. GRADUALLY OPEN BYPASS DAMPER UNTIL OUTSIDE AIR IS 4600 CFM. THIS MEANS 2400 CFM IS BEING BYPASSED IN THE CURB
3. OUTSIDE AIR SHOULD EQUAL SUPPLY AIR TO THE REGISTERS
4. TEST AND BALANCE CONTRACTOR TO NOTIFY COMFORT SYSTEMS AND INCLUDE IN TAB REPORT REGARDING MINIMUM POSITION OF OUTSIDE AIR DAMPER. SEE RTU NOTES FOR CONTACT INFO.

A.M. CERRA, JR. P.E.
1827 POWERS FERRY ROAD
BLDG # 18, SUITE # 100
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770-980-0581

22166.01

COMMONWEALTH OF VIRGINIA
A. M. CERRA JR.
CERTIFICATE
No. 022195
11.25.22
PROFESSIONAL ENGINEER

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APPROVAL

CARMAX PE

REVISIONS

REV. NO	DATE	DESCRIPTION

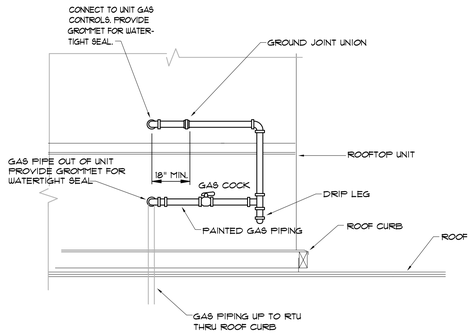
CARMAX
THE AUTO SUPERSTORE
CARMAX, THE AUTO SUPERSTORE, INC.
12800 TUCKAHOE CREEK PKWY RICHMOND, VA 23238
(804) 747-0422

STORE NO. 7242
901 MURRAY OLDS DRIVE
MIDLOTHIAN, VIRGINIA 23114

PROJECT NO 22166.01
DATE 24 JAN 2022
SHEET TITLE

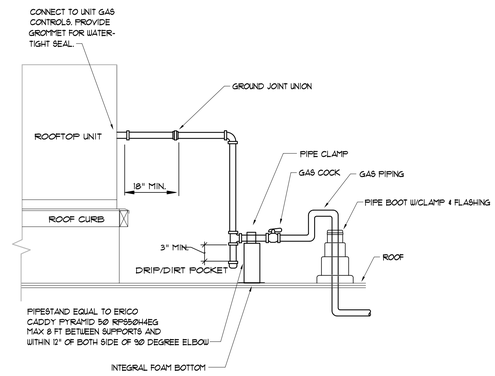
SCHEDULES – HVAC

SHEET NO M3.0



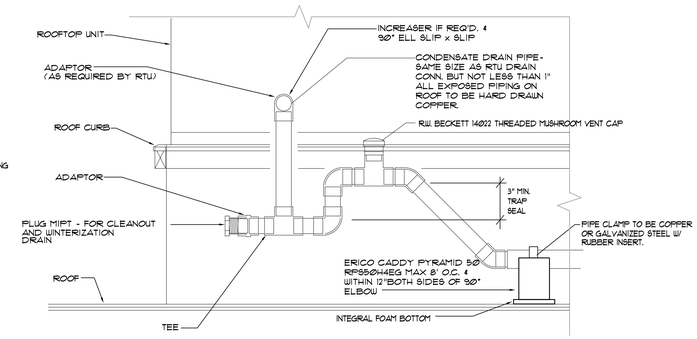
3 M4.0 RTU GAS CONNECTION DETAIL

NOT TO SCALE



1 M4.0 RTU GAS CONNECTION DETAIL

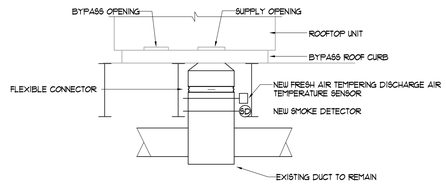
NOT TO SCALE



NOTE: KEEP PIPE CLEAR OF ACCESS PANELS.

2 M4.0 RTU CONDENSATE DRAIN DETAIL

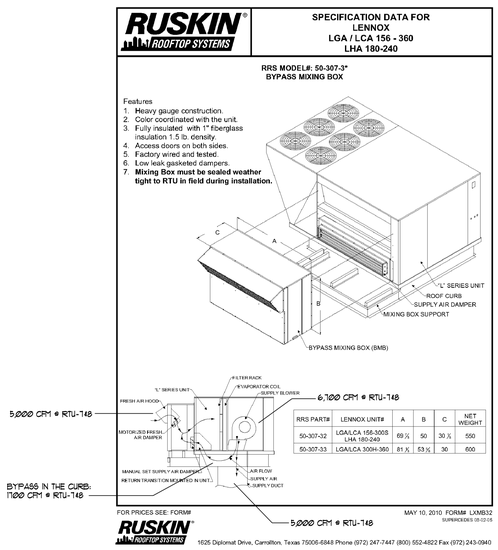
NOT TO SCALE



RTU-7 & 8

4 M4.0 RTU DUCT DROP DETAIL

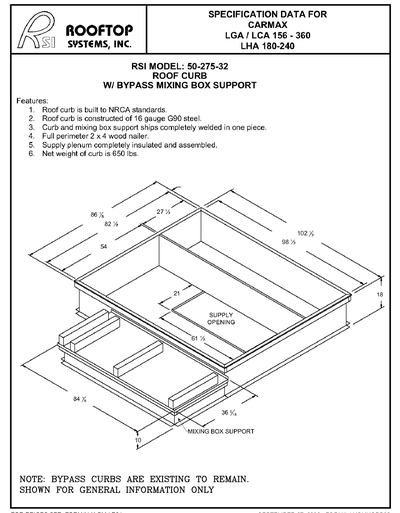
NOT TO SCALE



RRS PART#	LENNOX UNIT#	A	B	C	NET WEIGHT
50-307-32	LGA/LCA 156-300S LHA 180-249	69 ½	50	30 ½	550
50-307-33	LGA/LCA 300H-360	81 ½	53 ½	30	600

6 M4.0 MIXING BOX DETAIL

NOT TO SCALE



5 M4.0 BYPASS CURB DETAIL

NOT TO SCALE

A.M. CERRA, JR. P.E.
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BLDG # 18, SUITE # 100
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22166.01

COMMONWEALTH OF VIRGINIA
A.M. CERRA JR.
CERTIFICATE No. 022195
12/27/22
PROFESSIONAL ENGINEER

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APPROVAL

CARMAX PE

REVISIONS

REV. NO	DATE	DESCRIPTION

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(804) 747-0422
STORE NO. 7242
901 MURRAY OLDS DRIVE
MIDLOTHIAN, VIRGINIA 23114

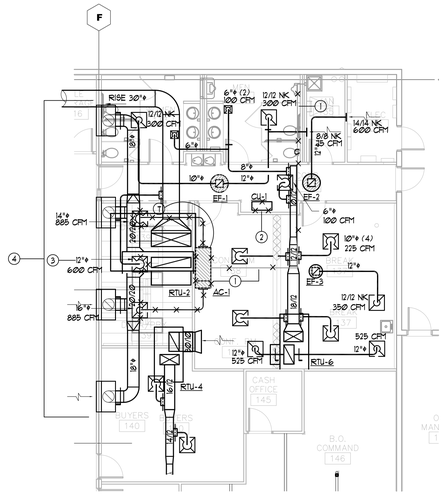
PROJECT NO 22166.01

DATE 24 JAN 2022

SHEET TITLE

DETAILS – HVAC

SHEET NO M4.0

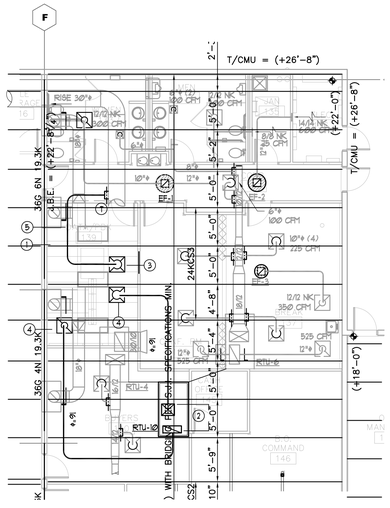


DEMO KEYED NOTES:

1. REMOVE COMPUTER ROOM AND ALL ASSOCIATED DUCT, AND PIPING
2. REMOVE ROOF MOUNTED CONDENSER. SEAL ANY PIPE PENETRATIONS OF THE ROOF THAT REMAIN
3. REMOVE EXISTING THERMAFUSER. 12"ø DUCT TO REMAIN ₭ BE REUSED
4. RETURN REGISTERS FOR RTU-2

N 2 / M1.0 DEMO PART PLAN–HVAC

SCALE: 1/8" = 1'-0"

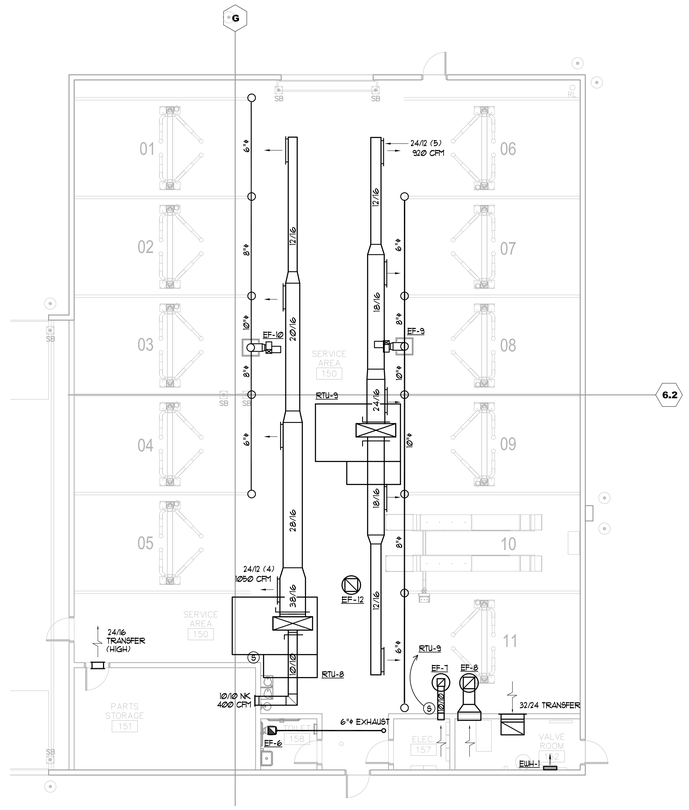


KEYED NOTES:

1. RTU-2 NOT SHOWN FOR CLARITY. SEE DEMO PART PLAN
2. PLENUM FULL SIZE OF CURB CONNECTION
3. PRICE PFD2 VAV DIFFUSER 12"ø W/LCD THERMOSTAT AND PLENUM RATED CABLE FURNISH 120C/24V TRANSFORMER
4. TITUS CORE 50 WITH INSULATED PLENUM WITH 16"ø COLLAR
5. EXISTING 12"ø RIGID ROUND CAN BE USED BUT EXISTING INSULATED FLEX DUCT CAN NOT BE SPLICED WITH NEW FURNISH ALL NEW AS NEEDED.

N 3 / M1.0 PART PLAN–HVAC

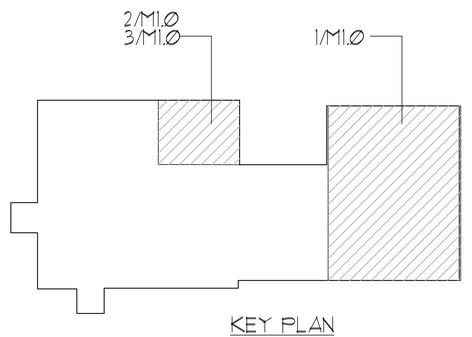
SCALE: 1/8" = 1'-0"



SHOWN FOR RTU-8&9 TEST AND BALANCE PURPOSES ONLY

N 1 / M1.0 PART PLAN–HVAC

SCALE: 1/8" = 1'-0"



KEY PLAN

A.M. CERRA, JR. P.E.
1827 POWERS FERRY ROAD
BLDG # 18, SUITE # 100
ATLANTA, GEORGIA 30339
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CARMAX PE

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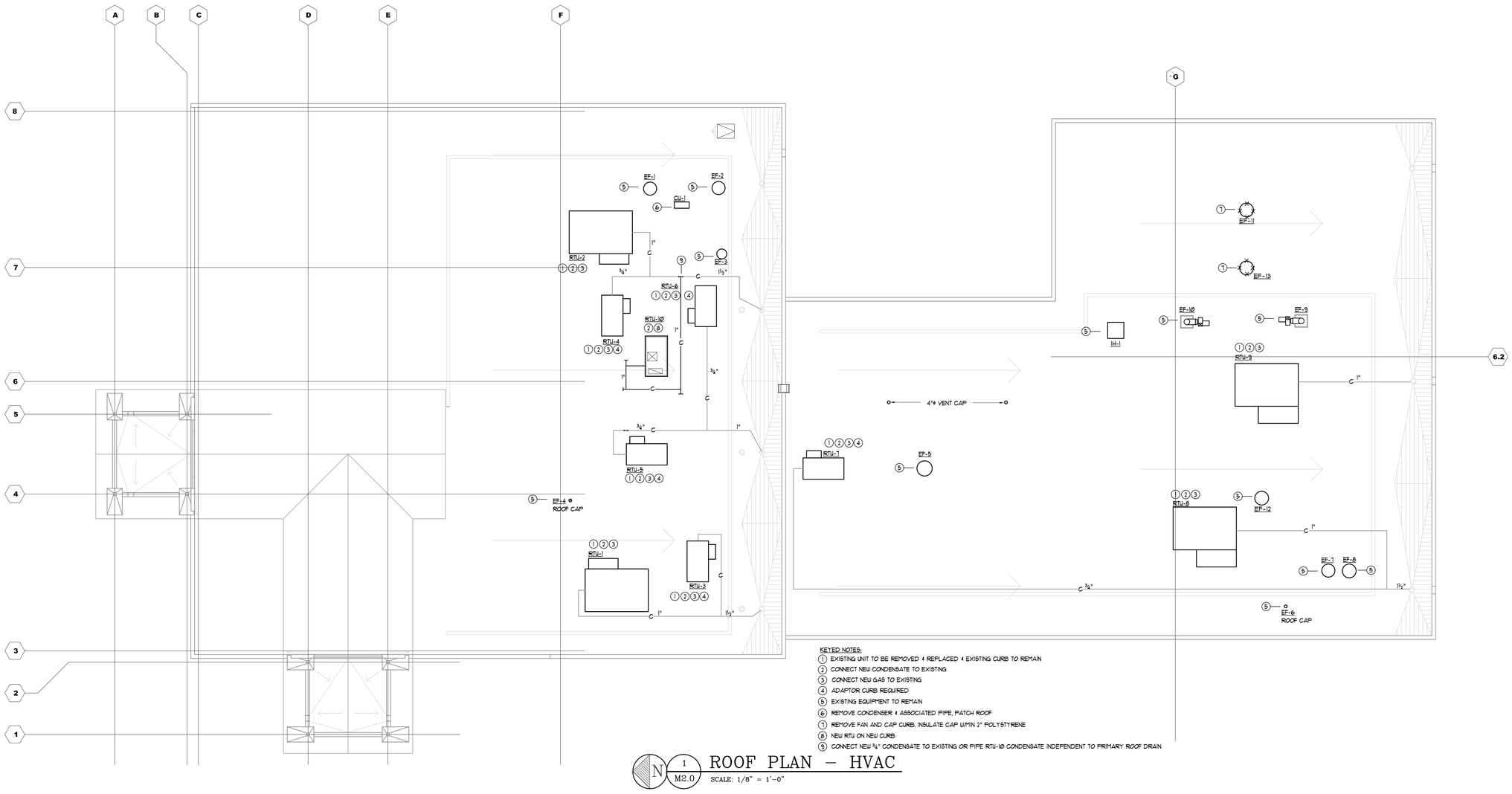
PART PLANS – HVAC

SHEET NO M1.0



KEYED NOTES:

1. EXISTING UNIT TO BE REMOVED & REPLACED & EXISTING CURB TO REMAIN
2. CONNECT NEW CONDENSATE TO EXISTING
3. CONNECT NEW GAS TO EXISTING
4. ADAPTOR CURB REQUIRED
5. EXISTING EQUIPMENT TO REMAIN
6. REMOVE CONDENSER & ASSOCIATED PIPE, PATCH ROOF
7. REMOVE FAN AND CAP CURB. INSULATE CAP W/MIN 2" POLYSTYRENE
8. NEW RTU ON NEW CURB
9. CONNECT NEW ¾" CONDENSATE TO EXISTING OR PIPE RTU-10 CONDENSATE INDEPENDENT TO PRIMARY ROOF DRAIN

N 1 / M2.0 ROOF PLAN – HVAC

SCALE: 1/8" = 1'-0"

A.M. CERRA, JR. P.E.
1827 POWERS FERRY ROAD
BLDG # 18, SUITE # 100
ATLANTA, GEORGIA 30339
770-980-0581

22166.01

COMMONWEALTH OF VIRGINIA
A.M. CERRA JR.
CERTIFICATE
No. 022195
12/17/21
PROFESSIONAL ENGINEER

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RELEASED FOR CONSTRUCTION

APPROVAL

CARMAX PE

REVISIONS

REV. NO	DATE	DESCRIPTION

CARMAX THE AUTO SUPERSTORE

CARMAX THE AUTO SUPERSTORE, INC.
12800 TUCKAHOE CREEK PKWY RICHMOND, VA 23238
(804) 747-0422

STORE NO. 7242
901 MURRAY OLDS DRIVE
MIDLOTHIAN, VIRGINIA 23114

PROJECT NO	22166.01
DATE	24 JAN 2022
SHEET TITLE	ROOF PLAN – HVAC
SHEET NO	M2.0