

HVAC NOTES	
1. GENERAL	
A. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, FEDERAL BUILDING CODES AND LOCAL CODES, RULES AND ORDINANCE.	
B. MECHANICAL PLANS IN GENERAL SHALL BE BASED ON THE MECHANICAL SCHEDULES AND SHALL BE CONSIDERED AS SUCH. MECHANICAL PLANS SHALL BE BASED ON THE MECHANICAL SCHEDULES AND SHALL BE CONSIDERED AS SUCH. MECHANICAL PLANS SHALL BE BASED ON THE MECHANICAL SCHEDULES AND SHALL BE CONSIDERED AS SUCH.	
C. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE, LETT-FITTING WORKING DRAWING.	
D. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANSHIP MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY THE ARCHITECT AND / OR OWNER MUST BE OBTAINED BY THE CONTRACTOR.	
E. ALL REQUIRED INSULATION SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.	
F. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD NOT LESS THAN 1 YEAR FROM THE DATE OF ACCEPTANCE, UNLESS OTHERWISE NOTED.	
G. CONTRACTOR WILL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS.	
H. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE WITH EXISTING CONDITIONS.	
I. PRIOR TO INSTALLING EQUIPMENT AND / OR FABRICATING DUCTWORK, HVAC CONTRACTOR SHALL CHECK THAT THERE IS SUFFICIENT CLEARANCES FOR EQUIPMENT, DUCTWORK, ETC. AND ALSO TO AVOID ANY INTERFERENCE WITH THE PROCESS OF CONSTRUCTION.	
J. AS BUILT DRAWINGS SHALL BE SUBMITTED TO OWNER AT THE COMPLETION OF PROJECT.	
K. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, FOR REVIEW PRIOR TO PURCHASE.	
L. DESIGN PARAMETERS:	
A. OUTDOOR DESIGN TEMPERATURE (SUMMER): 97° F @ 96 AND 77° WB	
B. OUTDOOR DESIGN TEMPERATURE (WINTER): 45° F	
C. INDOOR DESIGN TEMPERATURE (SUMMER): 75° F @ 65	
D. INDOOR DESIGN TEMPERATURE (WINTER): 72° F @ 65	
E. ALL THERMOSTATS SHALL HAVE HEATING WIRE MAXIMUM SETTING OF 75° F, AND COOLING WIRE MAXIMUM SETTING OF 70° F. THE THERMOSTAT SHALL BE ARRANGED TO PREVENT THE SMALLNESS OF HEATING AND COOLING.	
F. ELECTRICAL CONTROLS AND POWER WIRING: UNDER ELECTRICAL CONTRACT.	
G. EQUIPMENT SPECIFIED BY MANUFACTURER'S NUMBER SHALL INCLUDE ALL ACCESSORIES, CONTROLS, ETC. LISTED IN THE CATALOG AS STANDARD WITH THE EQUIPMENT. OPTIONAL OR ADDITIONAL ACCESSORIES SHALL BE FURNISHED AS SPECIFIED.	
H. MATERIALS:	
A. REFRIGERANT PIPING: SHALL BE TYPE 1, SMOOTH DRAWN, COPPER TUBING, CONDENSING FOR REFRIGERANT USE. SIZE AS SHOWN ON DRAWINGS OR AS PER AIR CONDITIONING EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.	
B. INSULATION: REFRIGERANT SUCTON PIPING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION. PIPE REFRIGERANT INSULATION SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION. PIPE REFRIGERANT INSULATION SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION. PIPE REFRIGERANT INSULATION SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION.	
C. DUCTWORK:	
A. ALL DUCT DUCTWORK SHALL CONFORM TO ASHRAE STANDARDS. ALL EXTERIOR DUCTWORK SHALL BE GALVANIZED SHEETMETAL. ALL INTERIOR DUCTWORK SHALL BE PERMISSIBLE AS SHOWN ON DRAWINGS. ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL. ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL. ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL.	
B. EXHAUST AIR: MINIMUM 30 GAUGE GALVANIZED METAL OR MINIMUM 26 GAUGE ALUMINUM. RANGE HOOD TO BE 400 CFM MAXIMUM. IF MORE THAN 400 CFM MAKE UP AIR MUST BE SHOWN AS PER MEC 502.2. MECH. CONTRACTOR SHALL FIELD COORDINATE WITH EQUIPMENT MANUFACTURER PRIOR TO EQUIPMENT INSTALLATION.	
C. ALL DUCT DIMENSIONS ARE CLEAR WORK DIMENSIONS.	
D. FLEXIBLE INSULATED DUCTWORK WITH 1/2" REINFORCING INSULATION WITH FRK VAPOR BARRIER, CLASS I AIR DUCT, UL R-8 @ 30°.	
E. OTHER DUCTWORK: 26 GA. MIN. GALVANIZED STEEL, HAVING A SMOOTH INTERIOR SURFACE WITH UNITS RUNNING IN THE DIRECTION OF AIRFLOW AND MINIMUM SHEET METAL, EXCEPT AS OTHERWISE SPECIFIED IN THE AIR STEEL MANUFACTURER'S CATALOG. SHEET METAL SHALL NOT EXCEED 22 FEET. WALL CAPS SHALL BE PROVIDED WITH BROWARDT DAMPERS.	
F. AIR DISTRIBUTION DEVICES AND ACCESSORIES SHALL BE THIS OR APPROVED EQUAL.	
G. ALL HVAC DUCT WORKING MUST BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIRS OF ANY OTHER PART OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED OR IS NOT OPERATING PROPERLY.	
H. PROVIDE MECH. ROUND HANGERS WITH SCOPED AT ALL FLEXIBLE DUCT CONNECTION TO SUPPLY DUCT.	
I. PROVIDE ACCESS DOORS AS REQUIRED FOR ALL MECHANICAL EQUIPMENT TO SERVICE AND VISUALLY CHECK ROTATION OF FANS AND MOTORS, ADJUST OR REPLACE CONTROLS, ETC.	
J. TEST AND BALANCE: AN INDEPENDENT CONTRACTOR SHALL TEST AND BALANCE ALL VENTILATION AND AIR CONDITIONING SYSTEMS. SUBMIT FOUR COPIES OF TEST AND BALANCE REPORT TO OWNER FOR APPROVAL.	
K. ADDITIONAL AND / OR ENGINEERING CHARGES THAT ARE INCURRED DUE TO REVISIONS FOR SUBSTITUTION BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.	
L. ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITER'S LABEL, WHERE APPLICABLE.	
M. CONTROLS: AIR CONDITIONING UNITS SHALL BE STARTED AND STOPPED BY REMOTE CONTROLLER. INDIVIDUAL THERMOSTATS SHALL START/STOP SUPPLY FANS AND ACTIVATE COOLING/HEATING SYSTEMS AS SPECIFIED.	
N. IF THERE ARE ANY CHANGES IN ENGINEERING DRAWINGS, IN DESIGN OR IN EQUIPMENT, WITHOUT ENGINEER'S CONSENT, THE A/C CONTRACTOR SHALL ASSUME ALL RESPONSIBILITIES FOR THE PROJECT.	
O. NO SUBSTITUTION WILL BE CONSIDERED PRIOR TO BE UNLESS WRITTEN REQUEST FOR APPROVAL. HAS BEEN RECORDED AT LEAST 10 DAYS PRIOR TO THE DATE OF BID. SUCH REQUEST SHALL INCLUDE THE NAME OF EQUIPMENT OR MATERIAL FOR WHICH IT IS TO BE SUBSTITUTED.	

HVAC SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY DUCT
	RETURN/EXHAUST DUCT
	FLEXIBLE DUCT
	ELBOW W/ TURNING VALVES
	CEILING EXHAUST FAN
	EXHAUST REGISTER
	CEILING DIFFUSERS
	OUTDOOR AIR LOUVER / RETURN AIR GRILLE AT WALL
	COOLING THERMOSTAT / HUMIDISTAT
	X: AIR DEVICE TYPE A/B: NECK SIZE # CFM
	CONDENSATE DRAIN LINE
	REFRIGERANT LINES SET
	AIR HANDLING UNIT
	CUBIC FEET PER MINUTE
	CONDENSING UNIT
	CONDENSATE DRAIN LINE
	EXHAUST FAN UNIT
	GW/H: GAS WATER HEATER
	RA: REFRIGERANT GAS & LIQUID LINES
	SA: SUPPLY AIR
	OBD: OPPOSED BLADE DAMPER
	VD: VOLUME DAMPER
	UD: UNDERCUT DOOR

N= NEW DEVICE
E= EXISTING TO REMAIN
R= RELOCATE EXISTING DEVICE, NEW LOCATION
OM= REMOVE EXISTING DEVICE
RP= REPLACE EXISTING DEVICE WITH NEW

UNIT	# OF PEOPLE	SET	0.39 ACH	CFM/PERSON	O/A REQUIRED	O/A PROVIDED
AHU#1	1	2140.2	15	112.4	112.4	120
AHU#2	1	2205	15	115.8	115.8	120
AHU#3	1	1997.5	15	89.9	89.9	85
AHU#4	1	85.6	15	4.4	4.4	5

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AIR DISTRIBUTION SCHEDULE					
SYMBOL	USE	TYPE	ACCESSORIES	DESIGN MANUFACTURER & MODEL No.	
A	SUPPLY AIR	LINEAR 2 SLOT DIFFUSERS	INSULATED PLENUM 15' DEFLECTION	TITUS FL-15 HIGHTHROW	
B	RETURN AIR / TRANSFER	LINEAR 2 SLOT RETURN DIFFUSERS	INSULATED PLENUM	TITUS FL-15 JETTHROW	
C	RETURN AIR / TRANSFER	CEILING/WALL RETURN/EXH.	-	TITUS 350 FL	

NOTE:
1. PROVIDE SPRIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO BRANCH CONNECTION.
2. PROVIDE 4 WAY DIFFUSION UNLESS NOTE ON PLAN.
3. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
5. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE.
6. MAXIMUM NC 19.
7. ALL AIR DISTRIBUTION DEVICE & ACCESSORIES SHALL BE ALUMINUM CONSTRUCTION.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE	
System Tag	System 1
Tag Reference	C/U4
M-NET Address	N/A
Model Number	NTXSKH50A112AA
Modules	
Nominal Cooling Capacity (BTU/h)	9,000
Sensible Capacity (BTU/h)	6,930
Nominal Heating Capacity (BTU/h)	13,200
Heating Efficiency SEER2	20.5
Heating COP @ 47°F HSPF2	9
Unit Dimensions W x D x H (in)	39 x 13 x 35
Design Cooling Outdoor Temp (°F)	95.0
Design Heating Outdoor Temp (°F)	43.0
Max Pipe Length from B/C to 1st Joint (feet)	0.0
Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	1/4 / 3/8
Corrected Cooling Total Capacity (BTU/h)	9,145.0
Corrected Heating Capacity (BTU/h)	12,372.2
Compressor Type	
Compressor Quantity	
Voltage / Phase	208/230V/1-phase
MCA 208/230 or (Amps)	14
Recommended Fuse Size (Amps)	15
MOCF	24

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE	
System Tag	System 1
Tag Reference	AHU-4
Room Name	STORAGE
M-NET Address	N/A
Model	NTXK50SA112AA
Type	Ceiling/Cassette (Four-Way)
Nominal Cooling Capacity (BTU/h)	9,000
Nominal Heating Capacity (BTU/h)	13,200
Unit Dimensions W x D x H (in)	24 x 24 x 10
cooling Design Entering Temp DB/WB (°F) / [Water in temp]	80.0/67.0
heating Design Entering Temp DB/WB (°F) / [Water in temp]	70.0
Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND
Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND
Refrig Pipe Dim Liquid/Suction (inch)	3/8 / 1/4
Cooling Total Capacity (BTU/h)	9,000
Cooling Sensible Capacity (BTU/h)	6,930
Heating Capacity (BTU/h)	10,887.6
Estimated Cooling CoE LAT (°F) / [LW/T]	57.7
Estimated Heating CoE LAT (°F) / [LW/T]	100.1
Fan Speed Setting	LOW
Peak Fan Airflow (cfm) / [Design gpm]	230
Max Fan ESP Setting 208V/230V (N WG)	
Voltage / Phase	208/230V/1-phase
Power Cooling 208V/230V (kW)	
Power Heating 208V/230V (kW)	
Electrical MCA/MFAS	Powered by Outdoor

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