



DATE:

											LABOR RATE		\$	55
SR. NO.	DESCRIPTION	QUANTITY	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR HOURS	UNIT MATERIAL COST	UNIT LABOR COST	TOTAL LABOR HOURS	TOTAL MATERIAL COST	TOTAL LABOR COST	UNIT ITEM COST	TOTAL COST	
NEW WORK														
FLEXIBLE DUCT														
Flexible Duct R-12 Insulation Value, Factory Fabricated Assembly Consisting Of A Zinc-Coated														
1	6" Dia Flexible Duct	44	10%	48	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	8" Dia Flexible Duct	4	10%	4	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	10" Dia Flexible Duct	5	10%	5	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
FAN COIL UNITS														
1	FCU-1-1, Split System A/C Unit, TRANE TAM4A0C48, Total CFM 1580, NTE MBH 42.6, H 1. Fan Coil Units Shall Be Horizontal Configuration, Flexible Inlet & Outlet Duct Connec 2. Provide 7-Day Programmable Thermostat With Automatic Change-Over. Thermosta 3. Disconnect Switch Shall Be Unit Mounted And Shall Be Provided By The Electrical Co 4. Basis Of Design Is Trane. If The Above Performance And Specifications Are Met, The 5. Where Required (As Shown On Plans) Provide A Condensate Pump: Maxi Blue Or Ed 6. Provide W/ Mounting Accessories.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	FCU-2-1, Split System A/C Unit, TRANE TAM4A0C60, Total CFM 1915, NTE MBH 60.1, H 1. Fan Coil Units Shall Be Horizontal Configuration, Flexible Inlet & Outlet Duct Connec 2. Provide 7-Day Programmable Thermostat With Automatic Change-Over. Thermosta 3. Disconnect Switch Shall Be Unit Mounted And Shall Be Provided By The Electrical Co 4. Basis Of Design Is Trane. If The Above Performance And Specifications Are Met, The 5. Where Required (As Shown On Plans) Provide A Condensate Pump: Maxi Blue Or Ed 6. Provide W/ Mounting Accessories.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	FCU-2-2, Split System A/C Unit, TRANE TAM4A0C60, Total CFM 1915, NTE MBH 60.1, H 1. Fan Coil Units Shall Be Horizontal Configuration, Flexible Inlet & Outlet Duct Connec 2. Provide 7-Day Programmable Thermostat With Automatic Change-Over. Thermosta 3. Disconnect Switch Shall Be Unit Mounted And Shall Be Provided By The Electrical Co 4. Basis Of Design Is Trane. If The Above Performance And Specifications Are Met, The 5. Where Required (As Shown On Plans) Provide A Condensate Pump: Maxi Blue Or Ed 6. Provide W/ Mounting Accessories.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
4	FCU-2-3, Split System A/C Unit, TRANE TAM4A0C48, Total CFM 1480, NTE MBH 42.6, H 1. Fan Coil Units Shall Be Horizontal Configuration, Flexible Inlet & Outlet Duct Connec 2. Provide 7-Day Programmable Thermostat With Automatic Change-Over. Thermosta 3. Disconnect Switch Shall Be Unit Mounted And Shall Be Provided By The Electrical Co 4. Basis Of Design Is Trane. If The Above Performance And Specifications Are Met, The 5. Where Required (As Shown On Plans) Provide A Condensate Pump: Maxi Blue Or Ed 6. Provide W/ Mounting Accessories.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
5	FCU-2-4, Split System A/C Unit, TRANE TAM6A0A24, Total CFM 500, NTE MBH 10.1, H 1. Fan Coil Units Shall Be Horizontal Configuration, Flexible Inlet & Outlet Duct Connec 2. Provide 7-Day Programmable Thermostat With Automatic Change-Over. Thermosta 3. Disconnect Switch Shall Be Unit Mounted And Shall Be Provided By The Electrical Co 4. Basis Of Design Is Trane. If The Above Performance And Specifications Are Met, The 5. Where Required (As Shown On Plans) Provide A Condensate Pump: Maxi Blue Or Ed 6. Provide W/ Mounting Accessories.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
CONDENSING UNITS														
1	CU-1-1, Outdoor Condenser Unit, TRANE 4TTA3048, R 410A, 208 V, 3 PH, 222 LBS 1. Condensing Units Shall Be Provided With Low-Ambient Controls And Evaporator De 2. Provide W/ Concrete Pad.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	CU-2-1, Outdoor Condenser Unit, TRANE 4TTA3060, R 410A, 208 V, 3 PH, 222 LBS 1. Condensing Units Shall Be Provided With Low-Ambient Controls And Evaporator De 2. Provide W/ Concrete Pad.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	CU-2-2, Outdoor Condenser Unit, TRANE 4TTA3060, R 410A, 208 V, 3 PH, 222 LBS 1. Condensing Units Shall Be Provided With Low-Ambient Controls And Evaporator De 2. Provide W/ Concrete Pad.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
4	CU-2-3, Outdoor Condenser Unit, TRANE 4TTA3048, R 410A, 208 V, 3 PH, 222 LBS 1. Condensing Units Shall Be Provided With Low-Ambient Controls And Evaporator De 2. Provide W/ Concrete Pad.	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
5	CU-2-4, Outdoor Condenser Unit, TRANE 4TTA3018, R 410A, 208 V, 3 PH, 222 LBS	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
UNITS CONNECTION ACCESSORIES														
1	3/8" Dia Stop Valve	15	0%	15	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	3/8" Dia REFRIG Filter & Dryer	5	0%	5	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	3/8" Dia Sight Glass W/ Moisture Indicator	5	0%	5	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
4	3/8" Dia Filter Dryer Service Bypass	5	0%	5	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
FAN														
1	TEF-1, Exhaust Fan, Ceiling Type, GREENHECK SP-A300, 75 CFM, 83 W, 120 V, 1PH	6	0%	6	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
AIR DEVICES														
1	A, Ceiling Return Grill, 10"x10" Neck Size, TITUS OMNI, Plaque Type, Face Size 24"x24"	2	0%	2	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	A, Ceiling Supply Diffuser, 6" Dia Neck Size, 40 CFM, TITUS OMNI, Plaque Type, Face Si	11	0%	11	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	A, Ceiling Supply Diffuser, 8" Dia Neck Size, 150 CFM, TITUS OMNI, Plaque Type, Face S	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
4	B, Ceiling Return Grill, 10" Dia Neck Size, TITUS OMNI, Plaque Type, Face Size 24"x24"	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
5	C, Sidewall Grille, 12"x8" Neck Size, 16"x10" Face Size, TITUS 350L, Louvered Type	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
6	C, Sidewall Grille, 16"x12" Neck Size, 20"x14" Face Size, TITUS 350L, Louvered Type	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
7	C, Sidewall Grille, 18"x12" Neck Size, 20"x14" Face Size, TITUS 350L, Louvered Type	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
8	C, Sidewall Grille, 36"x12" Neck Size, 38"x14" Face Size, TITUS 350L, Louvered Type	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
9	C, Sidewall Grille, 12"x8" Neck Size, 16"x10" Face Size, 150 CFM, TITUS 350L, Louvered	3	0%	3	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
10	C, Sidewall Grille, 18"x6" Neck Size, 20"x8" Face Size, 200 CFM, TITUS 350L, Louvered	12	0%	12	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
DAMPERS														
1	6" Dia Volume Damper	11	0%	11	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	8" Dia Volume Damper	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	10" Dia Volume Damper	2	0%	2	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
4	10"x10" Volume Damper	2	0%	2	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
5	12"x8" Volume Damper	3	0%	3	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
6	16"x12" Volume Damper	4	0%	4	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
7	18"x6" Volume Damper	26	0%	26	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
8	18"x12" Volume Damper	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
CONTROL WIRING														
1	#18/4C Control Wire For Thermostat	80	10%	88	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
FLEXIBLE CONNECTION														
1	6" Dia Flexible Connector	6	0%	6	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	16"x12" Flexible Connector	9	0%	9	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	18"x12" Flexible Connector	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
DUCT CAPS														
1	8" Dia Duct End Cap	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	6" Dia Duct End Cap	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
3	16" Dia Duct End Cap	2	0%	2	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
4	24" Dia Duct End Cap	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
5	12"x8" Duct End Cap	1	0%	1	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
											\$ -	\$ -		
CAPS														
1	6" Dia Relief Hood With Integral Bird screen, GREENHECK MODEL GRSR OR APPROVED	6	0%	6	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	
2	8" Dia Air Intake Roof Cap W/ Bird screen & Backdraft Damper, GREENHECK MODEL G	2	0%	2	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -	

3	10" Dia Air Intake Roof Cap W/ Bird screen & Backdraft Damper, GREENHECK MODEL C	3	0%	3	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
REFRIGERANT PIPE (ABOVE GRADE)													
Type L Hard Drawn "ACR" Copper Tubing With Wrought Fittings & 15% Silphos Silver Solder J													
1	3/8" Dia RL Pipe (Size assumed)	260	10%	286	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	5/8" Dia RS Pipe (Size assumed)	260	10%	286	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
REFRIGERANT PIPE INSULATION													
1-1/2" Thick, Flexible Elastomeric Tubing Insulation, AP/ARMAFLEX BLACK LAPSEAL™ Pipe Insulation As Manufacturer By ARMACELL, LLC.													
1	3/8" Dia RL Pipe (Size assumed)	170	10%	187	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	5/8" Dia RS Pipe (Size assumed)	170	10%	187	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
1-1/2" Thick, Flexible Elastomeric Tubing Insulation, AP/ARMAFLEX BLACK LAPSEAL™ Pipe Insulation As Manufacturer By ARMACELL, LLC. W/ PVC Jacket													
3	3/8" Dia RL Pipe (Size assumed)	90	10%	99	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
4	5/8" Dia RS Pipe (Size assumed)	90	10%	99	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
REFRIGERANT PIPE FITTINGS													
ELBOW													
1	3/8" Dia RL Pipe 90 Deg Elbow	41	0%	41	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	5/8" Dia RS Pipe 90 Deg Elbow	41	0%	41	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
CONDENSATE DRAIN PIPE (ABOVE GRADE)													
Type "L" Hard Drawn Copper Pipe ASTM B88-72 W/ ASTM B32-76 Garde 95TA Soldered Joints													
1	3/4" Dia Condensate Drain Pipe	85	10%	94	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
CONDENSATE DRAIN PIPE INSULATION													
1/2" Thick, "AP ARMAFLEX" Flexible Elastomer Pipe Insulation													
1	3/4" Dia Condensate Drain Pipe	85	10%	94	LFT			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
CONDENSATE DRAIN PIPE FITTINGS													
ELBOW													
1	3/4" Dia Condensate Drain Pipe 90 Deg Elbow	17	0%	17	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
CONDENSATE DRAIN ACCESSORIES													
1	3/4" Dia Union	5	0%	5	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	3/4" Dia Plugged Tee W/ Cleanout	10	0%	10	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
DUCT WEIGHT													
1	Galvanized Sheet Metal Duct Weight - 26 Gauge	443	10%	487	LB			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	Galvanized Sheet Metal Duct Weight - 26 Gauge (Double Wall Toilet Exhaust Duct)	170	10%	187	LB			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
3	Galvanized Sheet Metal Duct Weight - 24 Gauge	1780	10%	1958	LB			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
DUCT INSULATION													
1	1-1/2-Inch Thickness R-12 Fiberglass Duct Wrap With Kraft-Scrim-Foil Vapor Barrier Jacket. . (For Supply Outside & Return Air Duct)	2030	10%	2233	SF			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	2-Inch Thickness Fire Wrap (Assumed For Toilet Exhaust Duct)	80	10%	88	SF			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
PIPE SUPPORTS													
1	3/8" Dia Adjustable Clevis Hanger W/ Threaded Rod	28	0%	28	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	5/8" Dia Adjustable Clevis Hanger W/ Threaded Rod	28	0%	28	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
3	3/4" Dia Adjustable Clevis Hanger W/ Threaded Rod	12	0%	12	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
DUCT SUPPORTS													
1	3/8" Threaded Rod	184	0%	184	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
2	1" x 22 Ga. Strap	92	0%	92	EA			\$ -	0.0	\$ -	\$ -	\$ -	\$ -
										\$ -	\$ -		
ALLOWANCE [PLEASE ADD YOUR NUMBER]													
1	Mobilization & demobilization costs	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
2	Payment and performance bond costs	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
3	Permits and fees	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
4	Storage container rental costs	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
	Air Devices												
5	Utility costs	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
6	Tool costs	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
7	Callback costs during warranty period	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
8	Miscellaneous costs	1	0%	1	LS	0.000		\$ -	\$ -	0.0	\$ -	\$ -	\$ -
										\$ -	\$ -		
TOTAL MATERIAL COST											\$	-	
TOTAL LABOR COST											\$	-	
TOTAL LABOR HOURS												0	
TOTAL COST											\$	-	
MATERIAL TAX											0.00%	\$	
LABOR BURDEN											10%	\$	
OVERHEADS & PROFIT											0%	\$	
TOTAL BID											\$	-	