



Date: 2/22/21

Buy Board Cost Proposal – 581-19

Mark Beavers
Senior Architect
Vertical Projects Division
Public Work Department

Re: **COSA – Headstart Facility – Package 1 HVAC Replacement**

Owner:	City of San Antonio
Owner's Representative:	Mark Beavers
Contractor:	Alpha Building Corporation
Project Manager:	Amy Bricker
RFP No.:	210114-01

This Proposal is offered as set forth in the terms and conditions of the contract and the statement of work as amended by a more detailed statement of work attached.

1. All work shall be performed in accordance with the Request for Proposal No. 210114-01
2. Furnish materials, equipment, labor, and supervision as required to complete the scope of work as per the drawings labeled San Antonio Headstart Facility Package 1 HVAC Replacement dated 1/8/21 by Debra Dockery including but not limited to:
 - a. Demo and replacement of 8 roof top units with curb adapters
 - b. Hail guards and filters on existing equipment per plans
 - c. Demo and replacement of 16 thermostats
 - d. Furnish and install air devices per plans
 - e. Testing, adjusting and balancing per plans
 - f. Demo of duct work per plans
 - g. Installation of duct work per plans utilizing duct board and flex
 - h. Structural welding for reinforcing of 8 roof top curbs as shown on the plans
 - i. New pipe stands for electrical and HVAC condensate as shown on the plans
 - j. Demo existing p traps on unit and install new
 - k. Re slope existing condensate drains as much as possible for positive drainage
 - l. Demo existing wire to 8 units and 8 exhaust fans
 - m. Furnish 8 new disconnect switches with racks on roof blocks
 - n. Furnish and install flex tails and connection to new roof top units
 - o. Furnish and install conduit and wire from existing panel to feed 120v plugs provided with new units
 - p. Furnish and install breaks and fuses per plans
3. Certified wages are included in this proposal.
4. No other job related requirements are acknowledged or included in this offer.



Assumptions & Clarifications

1. No handling or disposal of hazardous materials.
2. Work to be performed during standard working hours Monday through Friday.
3. We exclude evenings, weekends and holidays.
4. Only trade permits are included in the pricing (no building permit).
5. Assumed that onsite restroom facilities can be used.
6. We exclude all unforeseen conditions.
7. Condensate drain location will not be modified as shown on the plans.
8. Condensate copper lines will be reused.
9. Balancing dampers on return grilles not included.
10. Rooftop units will not be phased per plans – Alpha will coordinate with building occupants on schedule for replacement.

Cost:	\$ 351,729.31
Bond:	\$ 6,521.00
Total Cost:	\$ 358,250.31

Allowance for ceiling tile, grid and insulation if required included:	\$3,000.00
Allowance for roof curbs if required included:	\$ 5,000.00

Respectfully,

Amy Bricker

Amy Bricker, Project Manager
Alpha Building Corporation

Attached: RS MEANS

Estimator: Amy Bricker

Summary of tagged estimates...

Division Summary (MF04)

01 - General Requirements	\$108,619.15
02 - Existing Conditions	\$5,000.00
03 - Concrete	
04 - Masonry	
05 - Metals	\$24,453.80
06 - Wood, Plastics, and Composites	
07 - Thermal and Moisture Protection	\$8,960.00
08 - Openings	
09 - Finishes	\$188.00
10 - Specialties	
11 - Equipment	
12 - Furnishings	
13 - Special Construction	
14 - Conveying Equipment	
21 - Fire Suppression	
22 - Plumbing	\$20,293.00
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	\$109,905.92
25 - Integrated Automation	

Totalling Components

RS Means Subtotal	\$470,604.25
RSMeans SAN ANTONIO, TX CCI 2021Q1, 84.70%	\$(72,002.46)
TX Standard Hour Coefficient (-27.0000%)	\$(107,622.48)
Bond (E)	\$6,521.00

Material, Labor, and Equipment Totals (No Totalling Components)

Material:	\$93,436.46
Labor:	\$369,664.83
Equipment:	\$20,710.95
Other:	\$34,992.01
Laborhours:	4,028.49
Green Line Items:8	\$66,344.00

26 - Electrical	\$64,298.24
27 - Communications	
28 - Electronic Safety and Security	
31 - Earthwork	
32 - Exterior Improvements	
33 - Utilities	
34 - Transportation	
35 - Waterway and Marine Transportation	
41 - Material Processing and Handling Equipment	
44 - Pollution Control Equipment	
46 - Water and Wastewater Equipment	
48 - Electric Power Generation	
Modified Line Items	\$104,137.14
Trades	\$72,949.00
Assemblies	
FMR	
MF04 Total (Without totalling components)	\$518,804.25

TX Non-Standard Hour Coefficient (-21.0000%)	
Non-Pre-Priced Items	\$48,200.00
NPPI Percentage (25.0000%)	\$12,050.00
Permits (E)	\$500.00

Priced/Non-Priced

Total Priced Items:	144	\$470,604.25	
Total Non-Priced Items:	3	\$48,200.00	9.29%
	147	\$518,804.25	

Grand Total **\$358,250.31**

Estimator: Amy Bricker

Totalling Component Details

Description	Item Count	Applicable Amount	Applied Amount	Applied Result	Balance
RS Means Subtotal Included in Total: Yes Type:Total, Master Format Type: MF04 Values:Total Includes: Priced Filtering: (none)	144	\$470,604.25		\$470,604.25	\$470,604.25
RSMMeans SAN ANTONIO, TX CCI 2021Q1, 84.70% Included in Total: Yes Type:RSMMeans CCI (Project Level) RSMMeans SAN ANTONIO, TX CCI 2021Q1, 84.70% ZIP:781 Subtotal based on 1 items: "RS Means Subtotal"		\$470,604.25	(15.3000)%	\$(72,002.46)	\$398,601.80
TX Standard Hour Coefficient Included in Total: Yes Type:Percentage (Project Level) Subtotal based on 2 items: "RS Means Subtotal", "RSMMeans SAN ANTONIO, TX CCI (Current)"		\$398,601.80	(27.0000)%	\$(107,622.48)	\$290,979.31
Bond Included in Total: Yes Type:Amount (Estimate Level)				\$6,521.00	\$364,481.74
TX Non-Standard Hour Coefficient Included in Total: Yes Type:Percentage (Project Level) Subtotal based on 2 items: "RS Means Subtotal", "RSMMeans SAN ANTONIO, TX CCI (Current)"		\$398,601.80	(21.0000)%		\$280,775.36
Non-Pre-Priced Items Included in Total: Yes Type:Total, Master Format Type: MF04 Values:Total Includes: Non Priced Filtering: (none)	3	\$48,200.00		\$48,200.00	\$328,975.36
NPPI Percentage Included in Total: Yes Type:Percentage (Project Level) Subtotal based on 1 items: "Non-Pre-Priced Items"		\$48,200.00	25.0000 %	\$12,050.00	\$341,025.36
Permits Included in Total: Yes Type:Amount (Estimate Level)				\$500.00	\$414,527.79

Note: It appears that at least one of these totalling components is set to "Amount is at Estimate Level". This can cause some of the Project totalling components that share the same characteristics to have the appearance of not adding up correctly on this detailed report page.

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
01 - General Requirements									
1	01-21-53-50-1700-L	Cost adjustment factors, protection of existing work, Costs add to construction costs for particular job requirements, minimum Cost of plastic, air purifiers and labor to protect existing finishes and clean up		368,160.0000	0.00	2.00	0.00	2.0000%	\$7,363.20 RSM19FAC P, O&P
2	01-21-53-50-1750-L	Cost adjustment factors, protection of existing work, Costs add to construction costs for particular job requirements, maximum welding precautions - welding blankets set up and clean up each day, smoker eater,		35,235.0000	0.00	7.00	0.00	7.0000%	\$2,466.45 RSM19FAC P, O&P
3	01-31-13-20-0020	Field personnel, clerk, average	Week	4.0000	0.00	790.00	0.00	\$790.00	\$3,160.00 RSM19FAC P, O&P
4	01-31-13-20-0220	Field personnel, project manager, maximum	Week	4.0000	0.00	4,575.00	0.00	\$4,575.00	\$18,300.00 RSM19FAC P, O&P
5	01-31-13-20-0280	Field personnel, superintendent, maximum	Week	9.0000	0.00	4,225.00	0.00	\$4,225.00	\$38,025.00 RSM19FAC P, O&P
6	01-54-19-50-0500	Crane crew, daily use for small jobs, 80-ton truck-mounted hydraulic crane, portal to portal	Day	A-03L	4.0000	0.00	1,355.00	2,420.00	\$3,775.00 RSM19FAC P, O&P
7	01-54-33-40-0020-3	Rent per week for rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric electrical contractor	Ea.	4.0000	0.00	0.00	166.10	\$166.10	\$664.40 RSM19FAC P, O&P
8	01-54-33-40-0020-3	Rent per week for rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric HVAC Contractor	Ea.	8.0000	0.00	0.00	166.10	\$166.10	\$1,328.80 RSM19FAC P, O&P
9	01-54-33-40-0020-3	Rent per week for rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric lift rental for removal and put back of ceiling tile and insulations	Ea.	8.0000	0.00	0.00	166.10	\$166.10	\$1,328.80 RSM19FAC P, O&P
10	01-54-33-40-0020-3	Rent per week for rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric Lift Rental - Welders	Ea.	5.0000	0.00	0.00	166.10	\$166.10	\$830.50 RSM19FAC P, O&P
11	01-54-36-50-1200	Mobilization or demobilization, delivery charge for small equipment, placed in rear of, or towed by pickup truck General contractor	Ea.	A-03A	2.0000	0.00	162.45	33.55	\$196.00 RSM19FAC P, O&P
12	01-54-36-50-1300	Mobilization or demobilization, delivery charge for equipment, hauled on 3-ton capacity towed trailer Mobilization and demobilization - Electrical contractor - required to make 2 trips as only half of the RTU's will be removed at a time.	Ea.	A-03Q	4.0000	0.00	243.95	61.05	\$305.00 RSM19FAC P, O&P
13	01-54-36-50-1300	Mobilization or demobilization, delivery charge for equipment, hauled on 3-ton capacity towed trailer Mob and demob ceiling crew	Ea.	A-03Q	2.0000	0.00	243.95	61.05	\$305.00 RSM19FAC P, O&P
14	01-54-36-50-1400	Mobilization or demobilization, delivery charge for	Ea.	B-34U	2.0000	0.00	625.20	239.80	\$865.00 RSM19FAC P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

01 - General Requirements

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
	equipment, hauled on 20-ton capacity towed trailer Mobilization and demobilization - welding subcontractor								
15 01-54-36-50-1600	Mobilization or demobilization, delivery charge for equipment, hauled on 50-ton capacity towed trailer Mobilization and demobilization incldues delivery of new units and haull off of the old	Ea.	B-34V	4.0000	0.00	1,963.00	1,012.00	\$2,975.00	\$11,900.00 RSM19FAC P, O&P
16 01-76-13-20-0020	Temporary protection, flooring, taped seams, 1/8" tempered hardboard	S.F.	2 CARP	3,000.0000	0.51	0.89	0.00	\$1.40	\$4,200.00 RSM19FAC P, O&P
01 - General Requirements Total					1,530.00	88,295.65	18,793.50		\$108,619.15

02 - Existing Conditions

17 02-41-19-19-0725	Selective demolition, rubbish handling, dumpster, 20Week C.Y., 5 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost			8.0000	625.00	0.00	0.00	\$625.00	\$5,000.00 RSM19FAC P, O&P
02 - Existing Conditions Total					5,000.00	0.00	0.00		\$5,000.00

05 - Metals

18 05-05-21-90-0300	Welding structural steel in field, cost per welder, 1/8"Hr. dia, type 6011, incl 1 operating engineer		E-12	96.0000	5.15	177.70	13.15	\$196.00	\$18,816.00 RSM19FAC P, O&P
19 05-05-23-35-0200	Machine screw, steel, round head, #10 x 1" L	C	1 CARP	2.0000	5.56	167.44	0.00	\$173.00	\$346.00 RSM19FAC Grn, P, O&P
20 05-05-23-90-0650	Weld rod, steel, 1/8" diameter, less than 500#, type Lb. 7018 Low Hydrogen			50.0000	2.74	0.00	0.00	\$2.74	\$137.00 RSM19FAC P, O&P
21 05-12-23-45-0300	Lintel angle, structural, unpainted, 2000 to 4000 lb., shop fabricated 4x4x3/8 = 9.743 per ft 2x2x3/16 = 2.462 per ft (9.743*200)+(2.462*220) = 2,490.24	Lb.	1 BRIC	2,490.2400	1.03	1.04	0.00	\$2.07	\$5,154.80 RSM19FAC Grn, P, O&P
05 - Metals Total					3,207.47	19,983.93	1,262.40		\$24,453.80

07 - Thermal and Moisture Protection

22 07-21-16-20-0160	Blanket insulation, for walls or ceilings, kraft faced fiberglass, 6" thick, R19, 15" wide	S.F.	1 CARP	5,000.0000	0.47	0.49	0.00	\$0.96	\$4,800.00 RSM19FAC Grn, P, O&P
23 07-65-10-10-9326	Sheet metal flashing, steel sheets, flexible, galvanized, 26 gauge, including up to 4 bends curb adapters	S.F.	1 ROFC	800.0000	0.92	4.28	0.00	\$5.20	\$4,160.00 RSM19FAC P, O&P
07 - Thermal and Moisture Protection Total					3,086.00	5,874.00	0.00		\$8,960.00

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total	
09 - Finishes										
24	09-97-10-10-4800	Paints & coatings, metal, zinc rich primer, in 5 gallon lots Metal primer	Gal.	1.0000	188.00	0.00	0.00	\$188.00	\$188.00 RSM19FAC P, O&P	
09 - Finishes Total					188.00	0.00	0.00	\$188.00		
22 - Plumbing										
25	22-05-29-10-7426	Pipe and mechanical roof support, pipe support, strut/channel type, up to 250 mm off roof, up to 2-1/2" Dia Dura block base with 14 g 1" galv channel - electrical	Ea.	Q-05	64.0000	27.50	71.50	0.00	\$99.00 RSM19FAC P, O&P	\$6,336.00
26	22-05-29-10-7426	Pipe and mechanical roof support, pipe support, strut/channel type, up to 250 mm off roof, up to 2-1/2" Dia Roof Stands - HVAC	Ea.	Q-05	90.0000	27.50	71.50	0.00	\$99.00 RSM19FAC P, O&P	\$8,910.00
27	22-05-29-10-7426-1100	Labor adjustment factor (mechanical), general, 15' to 19.5' high, add to labor for elevated installation (above floor level), for Division 21, 22 and 23 only (Modified using 22-01-02-20-1100) Roof Stands - HVAC	Ea.		90.0000	0.00	9.20	0.00	\$9.20 RSM19FAC P, O&P	\$828.00
28	22-05-29-10-7426-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Dura block base with 14 g 1" galv channel - electrical	Ea.		64.0000	0.00	11.50	0.00	\$11.50 RSM19FAC P, O&P	\$736.00
29	22-05-29-10-7426-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Roof Stands - HVAC	Ea.		90.0000	0.00	11.50	0.00	\$11.50 RSM19FAC P, O&P	\$1,035.00
30	22-13-16-60-5200	Traps, copper, P trap, standard pattern, 1-1/4" pipe size	Ea.	1 PLUM	16.0000	101.75	44.25	0.00	\$146.00 RSM19FAC P, O&P	\$2,336.00
31	22-13-16-60-5200-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140)	Ea.		16.0000	0.00	7.00	0.00	\$7.00 RSM19FAC P, O&P	\$112.00
22 - Plumbing Total					5,863.00	14,430.00	0.00	\$20,293.00		
23 - Heating, Ventilating, and Air-Conditioning (HVAC)										
32	23-05-05-10-1600	Ductwork, fiberglass, prefabricated, selective demolition Demo duct as shown on the plans	L.F.	Q-09	1,300.0000	0.00	3.44	0.00	\$3.44 RSM19FAC P, O&P	\$4,472.00

Estimate Details

Estimator: Amy Bricker

Combined estimates...

23 - Heating, Ventilating, and Air-Conditioning (HVAC)

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
33	23-05-05-10-1600 Ductwork, fiberglass, prefabricated, selective demolition Demo exhaust fan duct work	L.F.	Q-09	300.0000	0.00	3.44	0.00	\$3.44	\$1,032.00 RSM19FAC P, O&P
34	23-05-05-10-1600-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Demo duct as shown on the plans	L.F.		800.0000	0.00	0.55	0.00	\$0.55	\$440.00 RSM19FAC P, O&P
35	23-05-05-10-1600-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Demo duct as shown on the plans	L.F.		800.0000	0.00	0.55	0.00	\$0.55	\$440.00 RSM19FAC P, O&P
36	23-05-05-10-1630 Diffusers, registers or grills, up thru 20" max dimension, selective demolition Remove existing exhaust ceiling grilles	Ea.	1 SHEE	8.0000	0.00	15.30	0.00	\$15.30	\$122.40 RSM19FAC P, O&P
37	23-05-05-10-1630-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Remove existing exhaust ceiling grilles	Ea.		8.0000	0.00	2.44	0.00	\$2.44	\$19.52 RSM19FAC P, O&P
38	23-05-05-10-5100 Rooftop air conditioner, up thru 10 ton, selective demolition	Ea.	Q-05	8.0000	0.00	1,025.00	0.00	\$1,025.00	\$8,200.00 RSM19FAC P, O&P
39	23-05-05-10-5100-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140)	Ea.		8.0000	0.00	165.00	0.00	\$165.00	\$1,320.00 RSM19FAC P, O&P
40	23-05-93-10-2800 Balancing, air conditioning equipment, rooftop heating and cooling unit, (Subcontractor's quote including material & labor)	Ea.		16.0000	0.00	0.00	0.00	\$490.00	\$7,840.00 RSM19FAC P, O&P
41	23-05-93-10-3000 Balancing, air conditioning equipment, supply, return, exhaust, registers and diffusers, average ceiling height, (Subcontractor's quote including material & labor)	Ea.		228.0000	0.00	0.00	0.00	\$84.00	\$19,152.00 RSM19FAC P, O&P
42	23-09-53-10-5200 Control component, thermostats, automatic, clock, 24 hour	Ea.	1 SHEE	16.0000	259.60	95.40	0.00	\$355.00	\$5,680.00 RSM19FAC Grn, P, O&P
43	23-09-53-10-5200-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140)	Ea.		16.0000	0.00	15.25	0.00	\$15.25	\$244.00 RSM19FAC P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

23 - Heating, Ventilating, and Air-Conditioning (HVAC)

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
44 23-33-13-13-6000	Duct accessories, multi-blade dampers, opposed blade, 12" x 12"	Ea.	1 SHEE	12.0000	49.50	36.50	0.00	\$86.00	\$1,032.00 RSM19FAC P, O&P
45 23-33-46-10-1980	Ductwork, flexible coated fiberglass fabric on corrosion resistant metal helix, insulated, P.E. jacket, 1" thick, 8" diameter, pressure to 12"(WG) UL-181	L.F.	Q-09	500.0000	4.36	7.64	0.00	\$12.00	\$6,000.00 RSM19FAC Grn, P, O&P
46 23-33-46-10-1980-1283	Flexible ducts, 10' to 15' high, add to labor for elevated installation of prefabricated (purchased) ductwork (Modified using 23-33-46-10-1283)	L.F.		500.0000	0.00	0.49	0.00	\$0.49	\$245.00 RSM19FAC P, O&P
47 23-33-46-10-1980-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140)	L.F.		500.0000	0.00	1.22	0.00	\$1.22	\$610.00 RSM19FAC P, O&P
48 23-33-53-10-3345	Insulation, ductwork, board type, fiberglass liner, FSK, 1-1/2 lb. density, 1-1/2" thick new duct includes patch existing as required	S.F.	Q-14	3,500.0000	1.24	10.16	0.00	\$11.40	\$39,900.00 RSM19FAC Grn, P, O&P
49 23-33-53-10-3345-1080	Labor adjustment factor (mechanical), general, 10' to 14.5' high, add to labor for elevated installation (above floor level), for Division 21, 22 and 23 only (Modified using 22-01-02-20-1080) new duct includes patch existing as required	S.F.		3,500.0000	0.00	0.64	0.00	\$0.64	\$2,240.00 RSM19FAC P, O&P
50 23-33-53-10-3345-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140)	S.F.		3,500.0000	0.00	1.59	0.00	\$1.59	\$5,565.00 RSM19FAC P, O&P
51 23-37-15-40-2520	Louver, aluminum, extruded, with screen, mill finish, dual combination, manual operation, intake or exhaust line item used for hail guards	S.F.	1 SHEE	16.0000	48.40	38.10	0.00	\$86.50	\$1,384.00 RSM19FAC P, O&P
52 23-42-13-10-0060	Air filter, activated charcoal type, full flow, impregnated media 12" deep merx 13 air filters	MCFM		16.0000	248.00	0.00	0.00	\$248.00	\$3,968.00 RSM19FAC P, O&P
23 - Heating, Ventilating, and Air-Conditioning (HVAC) Total					16,010.00	66,903.92	0.00		\$109,905.92

26 - Electrical

53 26-05-19-35-0035	Wire connector, screw type, insulated, #16 to #10	Ea.	1 ELEC	100.0000	0.30	3.22	0.00	\$3.52	\$352.00 RSM19FAC P, O&P
54 26-05-19-35-0035-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		100.0000	0.00	0.52	0.00	\$0.52	\$52.00 RSM19FAC P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

26 - Electrical

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
55 26-05-19-35-0045	Wire connector, screw type, insulated, #12 to #6	Ea.	1 ELEC	138.0000	0.50	4.12	0.00	\$4.62	\$637.56
								RSM19FAC P, O&P	
56 26-05-19-35-0045-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		138.0000	0.00	0.67	0.00	\$0.67	\$92.46
								RSM19FAC P, O&P	
57 26-05-19-90-1250	Wire, copper, stranded, 600 volt, #10, type THWN-THHN, normal installation conditions in wireway, conduit, cable tray 2548/100 = 25.48	C.L.F.	1 ELEC	25.4800	17.71	73.79	0.00	\$91.50	\$2,331.42
								RSM19FAC P, O&P	
58 26-05-19-90-1250-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020) 2548/100 = 25.48	C.L.F.		25.4800	0.00	12.00	0.00	\$12.00	\$305.76
								RSM19FAC P, O&P	
59 26-05-19-90-1350	Wire, copper, stranded, 600 volt, #6, type THWN-THHN, normal installation conditions in wireway, conduit, cable tray 5877/100 = 58.77	C.L.F.	1 ELEC	58.7700	53.35	113.65	0.00	\$167.00	\$9,814.59
								RSM19FAC P, O&P	
60 26-05-19-90-1350-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020) 5877/100 = 58.77	C.L.F.		58.7700	0.00	18.50	0.00	\$18.50	\$1,087.25
								RSM19FAC P, O&P	
61 26-05-23-20-0800	Thermostat cable, jacket non-plenum, twisted, #18 -8 conductor	C.L.F.	1 ELEC	6.0000	35.20	154.80	0.00	\$190.00	\$1,140.00
								RSM19FAC P, O&P	
62 26-05-23-20-0800-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	C.L.F.		6.0000	0.00	25.00	0.00	\$25.00	\$150.00
								RSM19FAC P, O&P	
63 26-05-26-80-3720	Insulated ground wire, copper, #10 2651/100 = 26.51	C.L.F.	1 ELEC	26.5100	17.71	73.79	0.00	\$91.50	\$2,425.67
								RSM19FAC P, O&P	
64 26-05-26-80-3720-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020) 2651/100 = 26.51	C.L.F.		26.5100	0.00	12.00	0.00	\$12.00	\$318.12
								RSM19FAC P, O&P	
65 26-05-29-20-0150	Strap, steel, 2 holes, rigid steel conduit, 3/4" diameter	Ea.	1 ELEC	32.0000	0.11	1.68	0.00	\$1.79	\$57.28
								RSM19FAC P, O&P	
66 26-05-29-20-0150-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		32.0000	0.00	0.27	0.00	\$0.27	\$8.64
								RSM19FAC P, O&P	
67 26-05-29-20-0200	Strap, steel, 2 holes, rigid steel conduit, 1" diameter	Ea.	1 ELEC	32.0000	0.15	1.85	0.00	\$2.00	\$64.00
								RSM19FAC P, O&P	
68 26-05-29-20-0200-4020	Labor adjustment factor (electrical), add to labor for	Ea.		32.0000	0.00	0.30	0.00	\$0.30	\$9.60
								RSM19FAC P, O&P	

Estimate Details

Estimator: Amy Bricker

Combined estimates...

26 - Electrical

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
	working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)								
69	26-05-29-20-2600 Threaded rod, steel, painted, 3/8" diameter	L.F.	1 ELEC	1,000.0000	5.46	3.69	0.00	\$9.15	\$9,150.00
	duct support								RSM19FAC P, O&P
70	26-05-29-20-2600-4020 Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020) duct support	L.F.		1,000.0000	0.00	0.60	0.00	\$0.60	\$600.00
									RSM19FAC P, O&P
71	26-05-29-20-3900 Channels, steel, 1-1/2" x 1-1/2", 12 Ga	L.F.	1 ELEC	400.0000	3.77	10.58	0.00	\$14.35	\$5,740.00
	Duct support								RSM19FAC P, O&P
72	26-05-29-20-3900-1010 Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 10' to 14.5' high (Modified using 26-01-02-20-1010) Duct support	L.F.		400.0000	0.00	0.69	0.00	\$0.69	\$276.00
									RSM19FAC P, O&P
73	26-05-29-20-3900-4020 Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020) Duct support	L.F.		400.0000	0.00	1.71	0.00	\$1.71	\$684.00
									RSM19FAC P, O&P
74	26-05-29-20-4150 Channel, steel, 12 gauge, 1-5/8" x 1-5/8"	L.F.	1 ELEC	200.0000	6.93	15.07	0.00	\$22.00	\$4,400.00
									RSM19FAC P, O&P
75	26-05-29-20-4150-4020 Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	L.F.		200.0000	0.00	2.40	0.00	\$2.40	\$480.00
									RSM19FAC P, O&P
76	26-05-29-20-4250 Spring nuts, steel channel, long, 3/8"	Ea.	1 ELEC	128.0000	0.78	7.42	0.00	\$8.20	\$1,049.60
									RSM19FAC P, O&P
77	26-05-29-20-4250-4020 Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		128.0000	0.00	1.20	0.00	\$1.20	\$153.60
									RSM19FAC P, O&P
78	26-05-33-13-5020 Electric metallic tubing (EMT), 3/4" diameter, to 10' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	L.F.	1 ELEC	800.0000	1.30	5.70	0.00	\$7.00	\$5,600.00
									RSM19FAC P, O&P
79	26-05-33-13-5020-4020 Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	L.F.		800.0000	0.00	0.93	0.00	\$0.93	\$744.00
									RSM19FAC P, O&P
80	26-05-33-13-5040 Electric metallic tubing (EMT), 1" diameter, to 10' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	L.F.	1 ELEC	160.0000	2.09	6.46	0.00	\$8.55	\$1,368.00
									RSM19FAC P, O&P
81	26-05-33-13-5040-4020 Labor adjustment factor (electrical), add to labor for	L.F.		160.0000	0.00	1.05	0.00	\$1.05	\$168.00
									RSM19FAC P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

26 - Electrical

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
	working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)								
82 26-05-33-13-5220	Electric metallic tubing (EMT), field bends, 45 Deg. to 90 Deg., 3/4" diameter	Ea.	1 ELEC	56.0000	0.00	9.25	0.00	\$9.25	\$518.00
								RSM19FAC P, O&P	
83 26-05-33-13-5220-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		56.0000	0.00	1.50	0.00	\$1.50	\$84.00
								RSM19FAC P, O&P	
84 26-05-33-13-5240	Electric metallic tubing (EMT), field bends, 45 Deg. to 90 Deg., 1" diameter	Ea.	1 ELEC	24.0000	0.00	10.15	0.00	\$10.15	\$243.60
								RSM19FAC P, O&P	
85 26-05-33-13-5240-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		24.0000	0.00	1.65	0.00	\$1.65	\$39.60
								RSM19FAC P, O&P	
86 26-05-33-13-7420	EMT-LB, LR or LL fittings with covers, set screw, 3/4" diameter, to 15' H	Ea.	1 ELEC	8.0000	6.93	37.07	0.00	\$44.00	\$352.00
								RSM19FAC P, O&P	
87 26-05-33-13-7420-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	6.00	0.00	\$6.00	\$48.00
								RSM19FAC P, O&P	
88 26-05-33-13-7440	EMT-LB, LR or LL fittings with covers, set screw, 1" diameter, to 15' H	Ea.	1 ELEC	8.0000	9.90	46.60	0.00	\$56.50	\$452.00
								RSM19FAC P, O&P	
89 26-05-33-13-7440-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	7.50	0.00	\$7.50	\$60.00
								RSM19FAC P, O&P	
90 26-05-33-13-8710	EMT couplings, compression, steel, 3/4" diameter, to 15' H	Ea.	1 ELEC	72.0000	1.86	11.04	0.00	\$12.90	\$928.80
								RSM19FAC P, O&P	
91 26-05-33-13-8710-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		72.0000	0.00	1.79	0.00	\$1.79	\$128.88
								RSM19FAC P, O&P	
92 26-05-33-13-8720	EMT couplings, compression, steel, 1" diameter, to 15' H	Ea.	1 ELEC	16.0000	3.23	12.57	0.00	\$15.80	\$252.80
								RSM19FAC P, O&P	
93 26-05-33-13-8720-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		16.0000	0.00	2.04	0.00	\$2.04	\$32.64
								RSM19FAC P, O&P	
94 26-05-33-13-8810	EMT boxes connectors, compression, steel, 3/4" diameter, to 15' H	Ea.	1 ELEC	32.0000	3.53	6.77	0.00	\$10.30	\$329.60
								RSM19FAC P, O&P	
95 26-05-33-13-8810-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		32.0000	0.00	1.09	0.00	\$1.09	\$34.88
								RSM19FAC P, O&P	
96 26-05-33-13-8820	EMT boxes connectors, compression, steel, 1"	Ea.	1 ELEC	32.0000	5.04	8.26	0.00	\$13.30	\$425.60
								RSM19FAC P, O&P	

Estimate Details

Estimator: Amy Bricker

Combined estimates...

26 - Electrical

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
	diameter, to 15' H								
97 26-05-33-13-8820-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		32.0000	0.00	1.34	0.00	\$1.34	\$42.88 RSM19FAC P, O&P
98 26-05-33-16-0370	Outlet boxes, pressed steel, 4-11/16" square, 2-1/8" deep, 3/4" to 1-1/4" KO	Ea.	1 ELEC	17.0000	6.16	36.84	0.00	\$43.00	\$731.00 RSM19FAC P, O&P
99 26-05-33-16-0370-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		17.0000	0.00	6.00	0.00	\$6.00	\$102.00 RSM19FAC P, O&P
100 26-05-33-16-0450	Outlet boxes, pressed steel, covers, blank, 4-11/16" square	Ea.	1 ELEC	17.0000	1.28	14.02	0.00	\$15.30	\$260.10 RSM19FAC P, O&P
101 26-05-33-16-0450-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		17.0000	0.00	2.26	0.00	\$2.26	\$38.42 RSM19FAC P, O&P
102 26-05-33-25-1770	Conduit fittings for rigid galvanized steel, grounding bushing, insulated, 3/4" diameter	Ea.	1 ELEC	16.0000	6.60	26.40	0.00	\$33.00	\$528.00 RSM19FAC P, O&P
103 26-05-33-25-1770-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		16.0000	0.00	4.29	0.00	\$4.29	\$68.64 RSM19FAC P, O&P
104 26-05-33-35-1090	Flexible metallic conduit, sealtite, 3/4" diameter	L.F.	1 ELEC	60.0000	1.60	7.40	0.00	\$9.00	\$540.00 RSM19FAC P, O&P
105 26-05-33-35-1090-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	L.F.		60.0000	0.00	1.20	0.00	\$1.20	\$72.00 RSM19FAC P, O&P
106 26-05-33-35-1100	Flexible metallic conduit, sealtite, 1" diameter	L.F.	1 ELEC	60.0000	2.62	10.58	0.00	\$13.20	\$792.00 RSM19FAC P, O&P
107 26-05-33-35-1100-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	L.F.		60.0000	0.00	1.71	0.00	\$1.71	\$102.60 RSM19FAC P, O&P
108 26-05-33-35-1700	Flexible metallic conduit, sealtite, connectors, plain, 3/4" diameter	Ea.	1 ELEC	8.0000	4.98	14.82	0.00	\$19.80	\$158.40 RSM19FAC P, O&P
109 26-05-33-35-1700-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	2.40	0.00	\$2.40	\$19.20 RSM19FAC P, O&P
110 26-05-33-35-1900	Flexible metallic conduit, sealtite, connectors, plain, 1" diameter	Ea.	1 ELEC	8.0000	7.54	18.46	0.00	\$26.00	\$208.00 RSM19FAC P, O&P
111 26-05-33-35-1900-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	3.00	0.00	\$3.00	\$24.00 RSM19FAC P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

26 - Electrical

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
112 26-05-33-35-2400	Flexible metallic conduit, sealtite, connectors, plain, 90 Deg., 3/4" diameter	Ea.	1 ELEC	8.0000	7.43	14.57	0.00	\$22.00	\$176.00 RSM19FAC P, O&P
113 26-05-33-35-2400-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	2.40	0.00	\$2.40	\$19.20 RSM19FAC P, O&P
114 26-05-33-35-2600	Flexible metallic conduit, sealtite, connectors, plain, 90 Deg., 1" diameter	Ea.	1 ELEC	8.0000	14.63	18.37	0.00	\$33.00	\$264.00 RSM19FAC P, O&P
115 26-05-33-35-2600-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	3.00	0.00	\$3.00	\$24.00 RSM19FAC P, O&P
116 26-24-16-20-0100	Circuit breakers, bolt-on, 10 k A I.C., 1 pole, 120 volt, 15-50 amp	Ea.	1 ELEC	2.0000	20.79	74.21	0.00	\$95.00	\$190.00 RSM19FAC P, O&P
117 26-24-16-20-0100-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		2.0000	0.00	12.00	0.00	\$12.00	\$24.00 RSM19FAC P, O&P
118 26-28-13-10-0850	Fuses, dual element, time delay, 250 V, 60 amp	Ea.	1 ELEC	24.0000	12.54	14.96	0.00	\$27.50	\$660.00 RSM19FAC P, O&P
119 26-28-13-10-0850-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		24.0000	0.00	2.40	0.00	\$2.40	\$57.60 RSM19FAC P, O&P
120 26-28-16-20-4700	Safety switches, heavy duty, 3 pole, fusible, 240 volt, 60 amp, NEMA 3R	Ea.	1 ELEC	8.0000	281.60	333.40	0.00	\$615.00	\$4,920.00 RSM19FAC P, O&P
121 26-28-16-20-4700-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		8.0000	0.00	54.50	0.00	\$54.50	\$436.00 RSM19FAC P, O&P
122 26-61-13-30-0360	Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #12, 6' long	Ea.	1 ELEC	17.0000	11.61	22.89	0.00	\$34.50	\$586.50 RSM19FAC P, O&P
123 26-61-13-30-0360-4020	Labor adjustment factor (electrical), add to labor for working in existing occupied buildings, office building (Modified using 26-01-02-20-4020)	Ea.		17.0000	0.00	3.75	0.00	\$3.75	\$63.75 RSM19FAC P, O&P
26 - Electrical Total					18,351.99	45,946.24	0.00		\$64,298.24

Modified Line Items

124 06-11-10-30-5960	Wood framing, roof curbs, untreated, 2" x 6"	Each	2 CARP	1.0000	0.00	0.00	0.00	\$5,000.00	\$5,000.00 CUSTOM NP, O&P
Roof curb allowance - to be reviewed by architect at the time of work per the plan notes									
125 07-21-16-20-0160	R&R - Blanket insulation, for walls or ceilings, kraft faced fiberglass, 6" thick, R19, 15" wide	S.F.	1 CARP	5,000.0000	0.00	0.74	0.00	\$0.74	\$3,700.00 CUSTOM Grn, P,

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Modified Line Items

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
	Labor Adjustment: 150% of \$0.49 = \$0.74 ----- Using O&P Pricing Bare Costs: (M:\$0.43 L:\$0.31 E: O:1,350.00 LH:0.006) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$0.96 - \$0.47 - \$0.00 = \$0.49 Labor w/CCI = \$0.49 * 100.000% = \$0.49								O&P
126 09-51-23-10-1110	R&R - Suspended acoustic ceiling tiles, mineral fiber tile, lay-in, fine texture, 2' x 2' or 2' x 4', 5/8" thick Labor Adjustment: 150% of \$1.07 = \$1.61 ----- Using O&P Pricing Bare Costs: (M:\$0.83 L:\$0.66 E: O:625.00 LH:0.013) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$1.98 - \$0.91 - \$0.00 = \$1.07 Labor w/CCI = \$1.07 * 100.000% = \$1.07	S.F.	1 CARP	5,000.0000	0.00	1.61	0.00	\$1.61	\$8,050.00 CUSTOM P, O&P
127 09-51-23-30-1800	Complete suspended ceilings, with z bar suspension, 5/8" mineral fiber tile, include standard suspension system, excl. 1-1/2" carrier channels Ceiling tile and insulation allowance	Each	1 CARP	1.0000	0.00	0.00	0.00	\$3,000.00	\$3,000.00 CUSTOM NP, O&P
128 22-05-29-10-7426	Demo - Pipe and mechanical roof support, pipe support, strut/channel type, up to 250 mm off roof, up to 2-1/2" Dia Roof Stands - HVAC (Repriced 2/12/2021) Labor Adjustment: 50% of \$71.50 = \$35.75 ----- Using O&P Pricing Bare Costs: (M:\$25.00 L:\$46.00 E: O:20.00 LH:0.800) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$99.00 - \$27.50 - \$0.00 = \$71.50 Labor w/CCI = \$71.50 * 100.000% = \$71.50 Demo and remove existing condensate pipe supports and dispose	Ea.	Q-05	90.0000	0.00	35.75	0.00	\$35.75	\$3,217.50 CUSTOM P, O&P
129 22-13-16-60-5200	Demo - Traps, copper, P trap, standard pattern, 1-1/4" pipe size Labor Adjustment: 50% of \$44.25 = \$22.13 ----- Using O&P Pricing Bare Costs: (M:\$92.50 L:\$28.00 E: O:18.00 LH:0.444) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$146.00 - \$101.75 - \$0.00 = \$44.25 Labor w/CCI = \$44.25 * 100.000% = \$44.25	Ea.	1 PLUM	16.0000	0.00	22.13	0.00	\$22.13	\$354.08 CUSTOM P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Modified Line Items

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
130 23-09-53-10-5200	Demo - Control component, thermostats, automatic, Ea. clock, 24 hour Labor Adjustment: 50% of \$95.40 = \$47.70 ----- Using O&P Pricing Bare Costs: (M:\$236.00 L:\$61.00 E: O:8.00 LH:1.000) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$355.00 - \$259.60 - \$0.00 = \$95.40 Labor w/CCI = \$95.40 * 100.000% = \$95.40 Demo existign thermotstats		1 SHEE	16.0000	0.00	47.70	0.00	\$47.70	\$763.20 CUSTOM Grn, P, O&P
131 23-74-33-10-5070	Rooftop air conditioner, single zone, electric cool only, 5 ton cooling, includes, standard controls, curb and economizer Material Only	Ea.	Q-05	8.0000	5,025.00	0.00	0.00	\$5,025.00	\$40,200.00 CUSTOM NP, O&P
132 26-05-19-90-1250	Demo - Wire, copper, stranded, 600 volt, #10, type THWN-THHN, normal installation conditions in wireway, conduit, cable tray Labor Adjustment: 50% of \$73.79 = \$36.90 ----- Using O&P Pricing Bare Costs: (M:\$16.10 L:\$48.00 E: O:10.00 LH:0.800) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$91.50 - \$17.71 - \$0.00 = \$73.79 Labor w/CCI = \$73.79 * 100.000% = \$73.79 5615/100 = 56.15	C.L.F.	1 ELEC	56.1500	0.00	36.90	0.00	\$36.90	\$2,071.94 CUSTOM P, O&P
133 26-05-19-90-1350	Demo - Wire, copper, stranded, 600 volt, #6, type THWN-THHN, normal installation conditions in wireway, conduit, cable tray Labor Adjustment: 50% of \$113.65 = \$56.83 ----- Using O&P Pricing Bare Costs: (M:\$48.50 L:\$74.00 E: O:6.50 LH:1.231) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$167.00 - \$53.35 - \$0.00 = \$113.65 Labor w/CCI = \$113.65 * 100.000% = \$113.65 3885/100 = 38.85	C.L.F.	1 ELEC	38.8500	0.00	56.83	0.00	\$56.83	\$2,207.85 CUSTOM P, O&P
134 26-05-23-20-0650	Demo - Thermostat cable, jacket non-plenum, twisted, #18-5 conductor Labor Adjustment: 50% of \$123.35 = \$61.68 ----- Using O&P Pricing Bare Costs: (M:\$21.50 L:\$80.00 E: O:6.00 LH:1.333) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$147.00 - \$23.65 - \$0.00 = \$123.35	C.L.F.	1 ELEC	6.0000	0.00	61.68	0.00	\$61.68	\$370.08 CUSTOM P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Modified Line Items

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
	Labor w/CCI = \$123.35 * 100.000% = \$123.35								
	Demo thermostate wires for 16 units								
135 26-05-33-13-5020	Demo - Electric metallic tubing (EMT), 3/4" diameter, to 10' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF Labor Adjustment: 50% of \$5.70 = \$2.85 ----- Using O&P Pricing Bare Costs: (M:\$1.18 L:\$3.70 E: O:130.00 LH:0.062) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$7.00 - \$1.30 - \$0.00 = \$5.70 Labor w/CCI = \$5.70 * 100.000% = \$5.70	L.F.	1 ELEC	400.0000	0.00	2.85	0.00	\$2.85	\$1,140.00 CUSTOM P, O&P
136 26-28-16-20-9010	Demo - Disconnect switch, 3 pole fusible, 30 amp, to 10 HP motor, 600 volt Labor Adjustment: 50% of \$230.50 = \$115.25 ----- Using O&P Pricing Bare Costs: (M:\$345.00 L:\$150.00 E: O:3.20 LH:2.500) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$610.00 - \$379.50 - \$0.00 = \$230.50 Labor w/CCI = \$230.50 * 100.000% = \$230.50 Demo existing disconnect switched	Ea.	1 ELEC	8.0000	0.00	115.25	0.00	\$115.25	\$922.00 CUSTOM P, O&P
137 Crew A-02	A-02 Crew - 2021 - RSMeans Standard Books O&P Daily A-02 (2021 - RSMeans Standard Books) Labor Hours: 24 Equip Hours: 8 Daily Hours: 24 Crew Details: Code: CLAB Description: Common Building Laborers Qty: 2 Hourly: 66.25 Daily: 1060 Code: TRLT Description: Truck Drivers, Light Qty: 1 Hourly: 73 Daily: 584 Code: 015433205450 Description: Flatbed Truck, Gas, 1.5 Ton Qty: 1 Hourly: 0 Daily: 218.35 Minor patch and paint as required for thermostate relocation		A-02	3.0000	0.00	1,644.00	218.35	\$1,862.35	\$5,587.05 CUSTOM P, O&P
138 Crew F-07	F-07 Crew - 2021 - RSMeans Standard Books O&P Daily F-07 (2021 - RSMeans Standard Books) Labor Hours: 32 Equip Hours: 0 Daily Hours: 32 Crew Details:		F-07	6.0000	0.00	2,366.40	0.00	\$2,366.40	\$14,198.40 CUSTOM P, O&P

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Modified Line Items

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
Code: CARP Description: Carpenters Qty: 2 Hourly: 81.65 Daily: 1306.4 Code: CLAB Description: Common Building Laborers Qty: 2 Hourly: 66.25 Daily: 1060									
Labor and materail for cover roof curbs on temp and perm baisis - resela pitch pans per plan notes									
139 Crew Q-19	Q-19 Crew - 2021 - RSMeans Standard Books O&P Daily		Q-19	6.0000	0.00	2,225.84	0.00	\$2,225.84	\$13,355.04
Q-19 (2021 - RSMeans Standard Books) Labor Hours: 24 Equip Hours: 0 Daily Hours: 24									
Crew Details: Code: STPI Description: Steamfitters or Pipefitters Qty: 1 Hourly: 102 Daily: 816 Code: STPI Description: Steamfitters or Pipefitters (Apprentice) Qty: 1 Hourly: 81.58 Daily: 652.64 Code: ELEC Description: Electricians Qty: 1 Hourly: 94.65 Daily: 757.2									
Labor to disconnect units/duct work and install units and make electrical connections - Units (NPPI) is material only									
Modified Line Items Total					40,200.00	55,282.09	655.05		\$104,137.14

Trades

140 ELEC	Electricians - 2020 RSMeans Facilities Bare Rate	Hour		80.0000	0.00	61.35	0.00	\$61.35	\$4,908.00
Line items only provide for 1 electrician (423 hours) Additional electrician									
141 EQLT	Equipment Operators, Light Equipment - 2020 RSMeans Facilities Bare Rate	Hour		320.0000	0.00	53.00	0.00	\$53.00	\$16,960.00
equipment operator 40*8 = 320.00									
142 EQLT	Equipment Operators, Light Equipment - 2020 RSMeans Facilities Bare Rate	Hour		320.0000	0.00	53.00	0.00	\$53.00	\$16,960.00
equipment operator for architecural lift 40*8 = 320.00									
143 EQLT	Equipment Operators, Light Equipment - 2020 RSMeans Facilities Bare Rate	Hour		200.0000	0.00	53.00	0.00	\$53.00	\$10,600.00
Equipment operator with certification for welding lift 40*5 = 200.00									
144 HELP	Helpers Average (5 trades) - 2020 RSMeans Facilities Bare Rate	Hour		160.0000	0.00	39.95	0.00	\$39.95	\$6,392.00
Line items only provide for 1 electrician (423 hours) Additional 2 helpers including time for lock out tag out requirements and re labeling panels as required 2*80 = 160.00									
145 PSST	Painters, Structural Steel - 2020 RSMeans Facilities Hour			4.0000	0.00	45.85	0.00	\$45.85	\$183.40
Bare Rate paint/prime structural steel									

Estimate Details

Estimator: Amy Bricker

Combined estimates...

Trades

Item	Description	UM	Crew	Quantity	Material	Labor	Equipment	Unit Cost	Total
146 SHEE	Sheet Metal Workers - 2020 RSMeans Facilities Bare Rate Additional labor - crews for duct work only provide for 2 man crew - includes labor to reslope condensate drains on the roof - reuse existing material 2*120 = 240.00	Hour		240.0000	0.00	62.30	0.00	\$62.30	\$14,952.00 Trades P, B
147 SHEE	Sheet Metal Workers - 2020 RSMeans Facilities Bare Rate HVAC labor to disconnect/reconnect duct and clear area as required for welding access - 4*8 = 32.00	Hour		32.0000	0.00	62.30	0.00	\$62.30	\$1,993.60 Trades P, B
Trades Total					0.00	72,949.00	0.00		\$72,949.00
Estimate Grand Total									358,250.31