
ENGINEER'S ANALYSIS OF CONTRACTOR'S PROPOSALS

FOR

Renovation of the Existing Juvenile Detention Center to the Hidalgo County Autopsy Facility

Hidalgo County, Texas

**Prepared for:
The County of Hidalgo**



Submitted / Prepared by:



Texas Firm No. 1582

Project Manager: Sharlotte L. Teague, PE
Civil Engineer: Dario V. Guerra, PE
Structural Engineer: Weixiong Chen, PE
Electrical Engineer: Kamel Bey, PE

March 22, 2011



Section I – Purpose of Engineer’s Analysis

I.1 Description of Project

S&B Infrastructure, Ltd. (S&B), as Contractor, performed the final design and prepared the plans, specifications, and estimates (PS&E) for the renovation of the Existing Juvenile Detention Facility located in Hidalgo County, Texas, hereinafter referred to as “Project”.

I.2 Solicitation of Proposal

The Project was advertised for competitive proposal during the parts of December 21, 2010 through March 15, 2011 (**Appendix**). Meeting attendance was mandatory for contractors to be eligible to submit a proposal on the Project. (Attached in the **Appendix** are the minutes and list of attendees from the meeting.)

I.3 Receipt of Proposals

On March 15, 2011, the Hidalgo County received two (2) eligible proposals. These proposals are outlined in **Exhibit A**. The apparent lowest proposal was submitted by CAS Companies. S&B was able to confirm all proposals, as attending the meeting by comparison of company names on the roster to the company name in the abstract provided by Hidalgo County.

I.4 Purpose of Analysis

The purpose of this analysis includes the following:

- Identify the variances between the lowest proposal and the Engineer’s Estimate (as shown in **Exhibit C**);
- Evaluate the overall proposal (as shown in **Exhibit A**);
- Provide recommendation regarding award.

Section II – Analysis

II.1 Overall Proposals Received and the Engineer’s Estimate

As previously mentioned in I.3 above, two (2) eligible proposals were received on March 15, 2011. These proposals are outlined in **Exhibit A**, and are as follows:

- | | |
|------------------------------|--------------|
| • CAS Companies | \$427,499.02 |
| • Alpha Building Corporation | \$497,190.70 |

The Engineer’s Construction Estimate (outlined in **Exhibit B**) was \$522,283.93

II.2 Variances Between Proposals Received and the Engineer’s Estimate

The contractor’s proposals ranged from \$427,499.02. to \$497,190.70 with an average overall proposal of \$462,344.86 as shown in **Exhibit A**.

The difference between the apparent low proposal (CAS Companies at \$427,499.02) and the Engineer’s Estimate (at \$522,283.93) is \$94,794.91 (under) as shown in **Exhibit C**.



- **Division 23 Electrical:**

The Engineer's Estimate for this item was \$78,990. The proposals range from \$84,895.94 to \$106,774.00 with an average of \$95,834.96.

Previously The Engineer's Estimate was calculated with the cost of an emergency generator. The proposed generator cost was estimated to be \$50,000. Also there was an adjustment to the "Power" item. This item was specified to be \$50,000 and was later changed to \$18,680.

The apparent low proposal had a higher cost for this item. The difference between the apparent low proposal and the Engineer's Estimate for this proposal item equates to \$27,784 (over).

Section III – Recommendation Award of Proposal

In summary, as previously mentioned in I.3 and II.1 above, two (2) eligible proposals were received on March 15, 2011. These proposals are outlined in **Exhibit A**, and are as follows:

- CAS Companies \$427,499.02
- Alpha Building Corporation \$497,190.70

As shown above, the apparent lowest proposal is CAS Companies. The Engineer's Estimate (outlined in **Exhibit B**) total is \$522,283.93.

Based on the evaluation in Section II, it is the Engineer's opinion and recommendation to award the construction contract to CAS Companies.



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EXHIBITS

Exhibit A Proposal Tabulation Comparison

Exhibit B Opinion of Probable Construction Cost

Exhibit C Difference in Proposals and Engineer's Estimate

Exhibit A

Proposal Tabulation Comparison

Exhibit B

Opinion of Probable Construction Cost (Engineer's Estimate)

Item Description	Measurement	Proposed Quantity	Proposed Unit Cost	Proposed Total Cost
DEMOLITION				\$98,537.80
Roof Deck Removal (built up roof)	SF	11,900	\$2.00	\$23,800.00
Interior Wall Partitions (8" thick block walls)	SF	6353	\$2.60	\$16,517.80
Remove Metallic doors	EA	17	\$200.00	\$3,400.00
Ceiling Removal (Suspended & non suspended system)	SF	11,900	\$1.30	\$15,470.00
Remove Flooring (linoleum)	SF	4,000	\$2.00	\$8,000.00
Concrete Sections (existing beds (13))	SF	325	\$26.00	\$8,450.00
Plumbing Fixtures (water closets)	EA	12	\$50.00	\$600.00
Lavatory, Showers, Mop sinks	EA	3	\$250.00	\$750.00
Water Piping demolition	LF	125	\$4.00	\$500.00
Electrical Fixtures (receptacles, fixtures included in Partitions)	EA	50	\$15.00	\$750.00
Electrical Fixtures (exist. lighting) in suspended system	EA	88	\$20.00	\$1,760.00
HVAC Duct Work	LF	170	\$7.00	\$1,190.00
Roof Top Unit Equipment Removal	EA	1	\$4,500.00	\$4,500.00
Air Diffusers and registers	EA	57	\$50.00	\$2,850.00
Fire Protection Systems (No Demolition on this SOW)				
HVAC Demolition, condensing unit, 7.5 ton	EA	2	\$3,000.00	\$6,000.00
HVAC Demolition, AHU unit, 20 ton	EA	1	\$4,000.00	\$4,000.00
FOUNDATIONS AND SLABS				\$2,310.00
Wall Footings (24" toe type assumed)	CY	3	\$110.00	\$330.00
Foundations at Columns Installation	CY	9	\$220.00	\$1,980.00
EXTERIOR CLOSURE				\$18,302.00
Exterior Roll up door (Automatic)	EA	1	\$3,580.00	\$3,580.00
Exterior Door, Metal Hollow	EA	1	\$950.00	\$950.00
Double Doors	EA	552	\$6.00	\$3,312.00
Doors (without replacing frame)	EA	276	\$35.00	\$9,660.00
Windows (seal opening block/mortar)	EA	4	\$200.00	\$800.00
ROOF				\$78,725.00
Metal roofing w/ flashings	SF	930	\$6.00	\$5,580.00
Medium Load Vertical Beams (Sallyport Entrance)	EA	4	\$500.00	\$2,000.00
Roof Deck Installation (built up roof .024")	SF	11,900	\$4.50	\$53,550.00
Roof Deck waterproof (fluid applied neoprene)	SF	500	\$3.06	\$1,530.00
Roof Deck insulation (1" thick, R6.67)	SF	11,900	\$1.35	\$16,065.00
INTERIOR CONSTRUCTION				\$44,220.14
Interior Wall Partitions (woodframing 15' ceiling)	SF	1553	\$2.00	\$3,106.00
Interior Wall Partitions (drywall 15' ceiling)	SF	1553	\$2.00	\$3,106.00
Interior Wall Partions (gypsum plaster walls only)	SY	173	\$20.70	\$3,581.10
Interior Wall Partions (paint, spray, 2 coats)	SF	23600	\$0.70	\$16,520.00
Linoleum base (only on office areas plus 10% cutting)	SF	4000	\$2.50	\$10,000.00
Ceramic tile floor (shower only)	SF	1368	\$5.78	\$7,907.04
Floor-Concrete, sealed	SF	0	\$0.00	\$0.00

SPECIALTY ITEMS	\$26,590.00			
Millwork - Center Counter (Wooded work station)	LF	27	\$85.00	\$2,295.00
Millwork - Storage shelving	LF	20	\$108.00	\$2,160.00
Fire extinguishers	EA	2	\$500.00	\$1,000.00
Signage allowance	LS	1	\$1,500.00	\$1,500.00
Ceiling Installation (Suspended system, 2'x2' T bar system)	SF	11,900	\$1.65	\$19,635.00
FURNISHINGS & EQUIPMENT	\$12,100.00			
Public area seating	Seat	20	\$100.00	\$2,000.00
Conference room tables	EA	1	\$500.00	\$500.00
Conference room seating	Seat	8	\$100.00	\$800.00
Viewing area seating	Seat	10	\$100.00	\$1,000.00
Office area seating	Seat	6	\$300.00	\$1,800.00
Computers/ printers/ fax machines	EA	6	\$1,000.00	\$6,000.00
MECHANICAL	\$109,060.00			
Plumbing (# of fixtures installed)	LS	25	\$200.00	\$5,000.00
Special Plumbing (Specialty fixture, RO system)	EA	1	\$6,000.00	\$6,000.00
Special Plumbing (Specialty fixture, Solid Waste Containment)Installation	EA	1	\$12,000.00	\$12,000.00
Saw Cutting Concrete	LS	1	\$12,000.00	\$12,000.00
Yard Cleanouts	LF	400	\$3.67	\$1,468.00
PVC type material	LS	1	\$400.00	\$400.00
County Owned material (Washstations Install Labor only)	LF	400	\$12.43	\$4,972.00
County Owned material (Walk in cooler Install Labor only)	EA	4	\$250.00	\$1,000.00
County Owned material (Walk in cooler Install Labor only)	EA	1	\$10,000.00	\$10,000.00
HVAC systems (1-4 ton Trane split Equipment)	LS	1	\$10,000.00	\$10,000.00
HVAC system (1-4 ton Trane RTU)	LS	1	\$10,000.00	\$10,000.00
Ductwork and Accessories (Rtu-1, Fcu-1,180 LF)	LS	1	\$3,500.00	\$3,500.00
Air Devices (57)	LS	1	\$3,420.00	\$3,420.00
Exhaust Fans (4)	LS	1	\$5,500.00	\$5,500.00
Existing Equipment Service (40 hrs)	LS	1	\$4,800.00	\$4,800.00
Proposed AHU-1 15 ton w/ (2) 7.5 ton condensers (Lennox)	LS	1	\$18,000.00	\$18,000.00
Proposed Duct Furnace (Lennox)	LS	1	\$1,000.00	\$1,000.00
ELECTRICAL	\$76,480.00			
Service and distribution	LS	1	\$12,000.00	\$12,000.00
Lighting Fixtures	EA	90	\$200.00	\$18,000.00
Power	LS	1	\$18,680.00	\$18,680.00
Fire alarm	LS	1	\$9,000.00	\$9,000.00
Door access control	LS	1	\$4,500.00	\$4,500.00
Security Monitoring (optional)	LS	1	\$8,500.00	\$8,500.00
Security System (fixed, video cameras)	LS	1	\$5,800.00	\$5,800.00
Emergency Power Generator*****DELETED*****	LS	1	\$0.00	\$0.00
Subtotal TOTAL ESTIMATE				\$466,324.94
Contractor's General Administration Conditions @ 2%	LS	1	\$9,326.50	\$9,326.50
Contingency (10% of Subtotal)	LS	1	\$46,632.49	\$46,632.49

TOTAL ESTIMATE				\$522,283.93
Roof demo & repair total				\$102,525.00
TOTAL ESTIMATE without Roof work				\$419,758.93

Exhibit C

Difference in Proposals and Engineer's Estimate

DIFFERENCE IN PROPOSALS

Company	Cost
S&B OPC (Estimate)	\$522,293.93
CAS	\$427,499.02
Alpha BC	\$497,190.70

Variances between Proposals Received and the Engineers Estimate

CAS	\$427,499.02
Alpha BC	\$497,190.70
Avg. Overall Proposal =	\$462,344.86

Difference between Low Proposal and Engineer

S&B OPC (Estimate)	\$522,293.93
CAS	\$427,499.02
Difference	\$94,794.91

Difference between Avg. Overall Proposal and Low Proposal

Avg. Overall Proposal	\$462,344.86
CAS	\$427,499.02
Difference	\$34,845.84

Difference between Submitted Proposals

CAS	\$427,499.02
Alpha BC	\$497,190.70
Difference	\$69,691.68



Appendix

EXHIBIT "B"
PROPOSAL PAGE

HIDALGO COUNTY FACILITIES MANAGEMENT

"REPAIRS & RENOVATIONS TO OLD JUVENILE JUSTICE PROBATION CENTER FOR NEW COUNTY AUTOPSY FACILITY"

LOCATED AT 3100 SO. CLOSNER

EDINBURG, TX. 78539

PROJECT #2011-039-02-08-OGG

Tuesday March 15, 2011

	Job Order Contractor	e-mail	Total Proposal
1	Herrera & Hunt	KeithF54@aol.com	
2	CAS COMPANIES	rmoses@caslp.com	\$ 427,499.02
3	ALPHA BUILDING	ggrajales@alphabuilding.com	488,857.70
			8333.50
			497,190.70

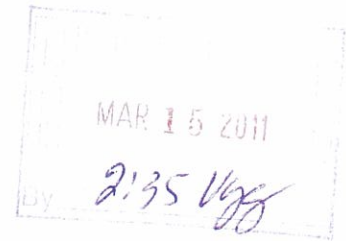
SIGN - IN LOG
 "Repairs & Renovations to Old Juvenile Justice Center for New County Autopsy Facility"
 PROJECT NO: #2011-039-02-08-OGG
 Tuesday 15, 2011 @ 2:30 PM
 RFP Autopsy Facility

NAME	COMPANY	TELEPHONE	E-MAIL ADDRESS
OSCAR GARZA	PURCHASING DEPT.	318-2626	oscar.garza@co.hidalgo.tx.us
Dario V. Guerra	S+B	926-5000	dvguerra@skinfra.com
Raymond Moses	CAS	956-216-8200	rmoses@CASLP.COM
Humberto Ramirez	AC Ret. 4	(56) 975-6490	
Gabrie Salinas	S+B Infrastructure	926-5000	salinas@skinfra.com
Seferino Garza	F/M	292-8367	Seferino.Sunday@co.hidalgo.tx.us
Rick Sunday	Fac. Mgt.	289-7858	Richard.Sunday@co.hidalgo.tx.us
Venji Garza	Pub-Dept.		
MICHAEL CEO	County Judges Office	518-2600	MICHAEL. LEO@CO.HIDALGO.TX.US
SERGIO CRUZ	DBM	292-7025	sergio.cruz@co.hidalgo.tx.us
AsGajales	Alpha	202-9079	

March 15, 2011



Oscar Garza
Purchasing
Hidalgo County
100 E. Cano
Edinburg, TX 78539



RE: Hidalgo County Autopsy Facility
CAS Quote # 2011-027-07

Dear Mr. Garza:

CAS Companies is pleased to provide you with this proposal to provide the Hidalgo County Juvenile Detention Facility Renovation to Autopsy Facility.

CAS Companies is an approved vendor through **The Cooperative Purchasing Network (TCPN)** contract **#JOC – R5004** whom Hidalgo County would contract with to perform the work described in the deliver work order scope below.

This bid and the detailed services are being offered through Texas Interlocal Cooperation Act. By utilizing the TCPN program, Hidalgo County will automatically be dealing with a Qualified, Professional Contractor that meets the strict requirements for contract vendors and will be satisfying all state bid requirements. This results in savings to Hidalgo County by reducing the time and expense for the bid process and will allow the work to be completed in a more timely manner.

CAS Companies requires a signed proposal by Hidalgo County to schedule the work.

Sincerely,

Jaime Tijerina

Jaime Tijerina

111 Brand Lane
Stafford, TX 77477
Phone: 281.499.4747
Fax: 281.499.6655

5402 S. Expressway 83
Harlingen, TX 78552
Phone: 956.216.8200
Fax: 956.216.8069

CAS Companies

Expressway Frontage
Harlingen, Texas

Delivery Order Scope of Work Plan

Date: 3-15-11

Locations: Edinburg, TX

Title: Hidalgo County Autopsy Facility

ET: Jaime Tijerina

Description of Delivery Order:

Proposal Amount **\$427,499.02**

Scope of Work:

CAS Company proposes to complete the renovations of the Hidalgo County Juvenile Detention Facility Renovation to Autopsy Facility. Renovations to be completed in accordance with drawings provided by Hidalgo County including all demolition work necessary to complete the task. Renovations to include Electrical, Plumbing and HVAC complete per provided drawings and specifications. Complete the installation of autopsy sinks, hose reels, cadaver refrigerator and the assembly of walk in cooler to be provided by the county. Complete all finish work according to schedule.

Specific:

Staging:

- Establish with the direction of owner to secure area for the staging of company vehicle(s) and for delivery of material.

Assumption:

Material and labor associated with unforeseen or unexpected conditions are not included with this scope of work and proposal. Any costs associated with unforeseen or unexpected conditions are above and beyond this scope of work and will incur additional cost above and beyond those proposed with this scope of work.

Exclusions:

- Hazardous material surveys, work, and clearances are not included in this scope of work and are to be completed by others.
- Applicable Taxes, Any work not specified in Scope of work
- Any changes will require an additional cost
- Performance of fixtures or equipment provided by the county
- Changes to electrical panel to upgrade power requirements.
- Any roof work and/or repair
- Fire alarm and fire suppression system.

Clarification:

No work on change variances (orders) will be performed without written and documented authorized documentation.

Assumptions:

Special lead-time equipment and materials: Approximately four weeks from receipt of purchase order.

Interface with existing structure: No

Possible disruption to building personnel and plans to minimize: None

Outages: None

Special training/Orientation Requirements: *None*

Work to be performed during non-normal hours: *No*

Outage Coordination: *None*

Schedule Issues: *None*

Special Issues: *None*

Special Security Requirements: *None*

Significant Milestones: *None*

Hazardous Materials: None

Quality Assurance Considerations: A pre-final inspection will be held the day of completion. Any items identified will be corrected before request for final inspection.

CAS Factor Calculation Sheet
 Harlingen ISD

Date Submitted:

6/10/2008

Customer Name			
Hidalgo County Autopsy			
Project Name		CAS #:	2011-027-07
Item		Used	Amount
Extended Total of Line Items Based on Quantities and Units Prices (Total OH&P)			522,241

City Cost Index (Average MEANS Construction Cost Indices by ESC)

ESC 1 - McAllen	1	X	
Cost Adjusted by CAS			522,241

Coefficient	0.78	X	
Cost Adjusted for Coefficient			407,348

Zone Factor > 150 miles	1.00	X	
Cost Adjusted for Zone			407,348

Job Order Size Factor			
\$0 < \$25,000	1.00		
> \$25,000 < \$150,000	1.00	X	
> \$150,000 and over	1.00		
Cost Adjusted for DO Size			407,348

Time of Performance Factors			
Normal M-F (7AM - 5PM)	1.00	X	
Other than Normal, week-ends & holidays	1.00		
Cost Adjusted for Time of Performance			407,348

Annual Volume Factors (12 month sliding window)			
> \$1,000,000	1.00		
Cost Adjusted for Volume			407,348

Davis - Bacon (If Applicable)			
Cost Adjusted for Davis-Bacon			407,348

Permits \$	4,200		
Cost Adjusted for Permits			411,548

Architect / Engineer fee \$	3,500		
Cost Adjusted for Architect / Engineer Fee			415,048

Bond	0.030	X	12,451
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TOTAL ADJUSTED COST \$ 427,499.02

CAS Signature

Date

Unit Detail Report

Year 2011

Date: 15-Mar-11

Hidalgo County Morgue

Prepared By:
 Bill Bowlin
 CAS Companies

LineNumber		Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
Division 01 General Requirements						
011131200100	U	Existing Equipment Service	40.00	Hr	\$150.00	\$6,000.00
013113200160		Field personnel, general purpose laborer, average	5.00	Week	\$2,075.00	\$10,375.00
013113200200		Field personnel, project manager, average	5.00	Week	\$3,175.00	\$15,875.00
013113200260		Field personnel, superintendent, average	2.00	Week	\$2,950.00	\$5,900.00
Division 01 Subtotal						\$38,150.00
Division 02 Existing Conditions						
024113150430		Selective site demolition, hydrodemolition, concrete pavement, 6000 PSI, 6" depth	325.00	S.F.	\$12.94	\$4,205.50
024113380500		Selective demolition, water & sewer piping & fittings, concrete pipe end pieces, 24"-36", diameter, excludes excavation	125.00	L.F.	\$14.51	\$1,813.75
024116172080		Bldg. footings and foundations demolition, remove concrete walls, block, 8" thick, excludes disposal costs and dump fees	6,353.00	S.F.	\$2.29	\$14,548.37
024210200140		Deconstruction of building plumbing fixtures, floor mounted water closet, up to 2 stories, excludes handling, packaging or disposal costs	12.00	Ea.	\$24.62	\$295.44
025613100120		Containment of hazardous waste, secure burial cell, excavation of contaminated soil & waste, by hand, to 6 feet deep, incl. 4 suits & resp./day/worker	30.00	B.C.Y.	\$64.33	\$1,929.90
028533500220		Demolition in mold contaminated area, ceiling, suspended acoustical tile	11,900.00	S.F.	\$0.68	\$8,092.00
Division 02 Subtotal						\$30,884.96
Division 03 Concrete						
033053400800		Structural concrete, in place, column (4000 psi), square, min reinforcing, 16" x 16", includes forms(4 uses), reinforcing steel, concrete, placing and finishing	9.00	C.Y.	\$706.81	\$6,361.29
033053403940		Structural concrete, in place, continuous strip footing (3000 psi), 24" wide x 12" deep, reinforced, includes forms, reinforcing steel, concrete, placing and finishing	3.00	C.Y.	\$213.42	\$640.26
038116500800		Concrete sawing, concrete walls, plain, per inch of depth, hydraulic saw	400.00	L.F.	\$4.83	\$1,932.00
Division 03 Subtotal						\$8,933.55
Division 05 Metals						
051223101600		Ceiling support, structural framing, motor supports for overhead doors, shop fabricated	1.00	Ea.	\$724.38	\$724.38
051223174550		Column, structural tubing, 6" x 6" x 1/4" x 12'-0", incl shop primer, cap & base plate, bolts	5.00	Ea.	\$378.81	\$1,894.05

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
1223401330	Cross bracing angles, to reinforce structural framing, 5"x5"x3/8", shop fabricated, incl shop primer, fasteners	100.00	Lb.	\$1.87	\$187.00
051223751100	Structural steel member, 100-ton project, 1 to 2 story building, W12x16, A992 steel, shop fabricated, incl shop primer, bolted connections	70.00	L.F.	\$24.49	\$1,714.30
052119100160	Open web bar joist, K Series, 40-ton job lots, 12K3, 5.7 plf, spans up to 30', shop fabricated, incl shop primer, horizontal bridging	400.00	L.F.	\$8.54	\$3,416.00
053123503800	Metal roof decking, steel, open type J wide rib, galvanized, over 50 Sq, 4-1/2" D, 18 gauge	1,200.00	S.F.	\$5.94	\$7,128.00
Division 05 Subtotal					\$15,063.73
Division 06 Wood, Plastics, and Composites					
060505203100	Selective demolition, millwork and trim, ceiling, remove	1,500.00	L.F.	\$0.30	\$450.00
Division 06 Subtotal					\$450.00
Division 07 Thermal and Moisture Protection					
070505103720	Selective demolition, thermal and moisture protection, roofing, built-up, 5-ply, includes gravel	11,900.00	S.F.	\$1.07	\$12,733.00
Division 07 Subtotal					\$12,733.00
Division 08 Openings					
080153810160	Windows, solid vinyl replacement, casement, insulated glass, one operating sash, 61 to 70 united inches	4.00	Ea.	\$325.76	\$1,303.04
080505100220	Door demolition, exterior door, double, 6' x 7' high, 1-3/4" thick, remove	12.00	Ea.	\$13.44	\$161.28
080505100500	Door demolition, interior door, single, 3' x 7' high, 1-3/8" thick, remove	5.00	Ea.	\$8.06	\$40.30
080505102000	Door demolition, door frames, metal, remove and reset	17.00	Ea.	\$25.34	\$430.78
081313130060	Doors, hollow metal, commercial, steel, flush, full panel, hollow core, 1-3/8" thick, 20 ga., 3'-0" x 6'-8"	1.00	Ea.	\$424.09	\$424.09
081416090410	Doors, wood, architectural, flush, interior, hollow core, 7 ply, hardboard face, 2'-4" x 7'-0" x 1-3/4" thick	552.00	Ea.	\$128.19	\$70,760.88
081416090480	Doors, wood, architectural, flush, interior, hollow core, 7 ply, for prefinishing, clear, add	276.00	Ea.	\$41.50	\$11,454.00
083613102950	Doors, overhead, commercial, stock, steel, heavy duty, sectional, for electric trolley operator, 1/2 HP, over 12' x 12', add	1.00	Ea.	\$1,455.41	\$1,455.41
083613200320	Doors, residential, garage, overhead, sectional, fiberglass, deluxe, 16' x 7', incl. hardware, excl. frame	1.00	Ea.	\$2,551.03	\$2,551.03
Division 08 Subtotal					\$88,580.81
Division 09 Finishes					
090505101580	Ceiling demolition, support wires for ceiling insulation, on suspension system, remove	11,900.00	S.F.	\$0.45	\$5,355.00
090505200800	Flooring demolition, resilient, sheet goods	5,000.00	S.F.	\$0.24	\$1,200.00
2113101200	Partition Wall, gypsum lath, 2 coat vermiculite plaster, 2 sides, 2-1/2" metal studs, 25 ga., 12" O.C.	1,553.00	S.F.	\$5.94	\$9,224.82

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
2116337600	Partition Wall, interior, fire & water resistant, 2 layers, 2 hour , taped both sides,installed on & incl.25 ga, NLB metal studs, 3-5/8" wide, 16" O.C., 8' to 12' high, 5/8" gypsum drywall	1,553.00	S.F.	\$2.90	\$4,503.70
092320101200	Gypsum Plaster, 3 coats on and incl. painted metal lath, on wood studs	173.00	S.Y.	\$22.12	\$3,826.76
093013103260	Ceramic tile, floors, glazed, thin set, color group 1, 8" x 8"	1,368.00	S.F.	\$6.19	\$8,467.92
095123100400	Suspended Acoustic Ceiling Tiles, fiberglass boards, film faced, 2' x 2' or 2' x 4' x 3/4" thick	11,900.00	S.F.	\$1.84	\$21,896.00
096516105500	Resilient flooring, linoleum sheet goods	4,000.00	S.F.	\$5.71	\$22,840.00
099123721600	Paints & Coatings, walls & ceilings, interior, concrete, drywall or plaster, glaze coating, 2 coats, clear, spray	23,600.00	S.F.	\$0.68	\$16,048.00
Division 09 Subtotal					\$93,362.20
Division 10 Specialties					
101419103900	Signs, plaques, custom, cast aluminum, up to 450 letters, 20" x 30"	1.00	Ea.	\$1,445.89	\$1,445.89
101419106000	Signs, exit type, interior electric, wall mount, fiberglass panels, 2 lamps, 6" h	1.00	Ea.	\$188.28	\$188.28
102113131400	Partitions, toilet, cubicles, floor & ceiling anchored, incl. 52" grab bars, for handicap units, add	10.00	Ea.	\$315.00	\$3,150.00
102116100420	Shower compartment, floor mounted, cabinet, no door, fiberglass, 36" x 48", includes bases, excludes plumbing	2.00	Ea.	\$736.56	\$1,473.12
104416131120	Fire extinguishers, dry chemical, pressurized, standard type, portable, painted, 30 lb	2.00	Ea.	\$415.00	\$830.00
105723191300	Wood Shelving, adjustable closet rod and shelf, 12" wide, 8' long	20.00	Ea.	\$44.82	\$896.40
Division 10 Subtotal					\$7,983.69
Division 12 Furnishings					
123623131000	Counter tops, custom, plastic laminate, square edge, plastic face, 7/8" thick, includes backsplash	27.00	L.F.	\$52.56	\$1,419.12
Division 12 Subtotal					\$1,419.12
Division 13 Special Construction					
133419502490	Pre-Eng Steel Bldg, clear span tapered beam frame, 30 psf roof and 20 psf wind load, 101' to 120' W x 20' eave H, incl. 26 ga. colored ribbed roofing & siding, excl. footings, slab, anchor bolts	415.00	SF Flr.	\$16.66	\$6,913.90
Division 13 Subtotal					\$6,913.90
Division 22 Plumbing					
220505101200	Fixture, lavatory, wall hung, selective demolition, includes 10' piping	3.00	Ea.	\$19.90	\$59.70
220505101300	Fixture, sink, single compartment, selective demolition	3.00	Ea.	\$24.88	\$74.64
220505101340	Shower, stall and receptor, selective demolition	3.00	Ea.	\$59.71	\$179.13
220719301008	County Owned material (Washstations Install Labor only)	4.00		\$400.00	\$1,600.00
20719301098	Pipe insulation protective jacketing, PVC, white, 48" lengths, 30 mil thick, 30" ID, cut from roll goods, size based on OD of insulation	400.00	L.F.	\$10.07	\$4,028.00

LineNumber		Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
220719301100	U	County Owned material (Walk in cooler Install Labor only)	1.00		\$8,500.00	\$8,500.00
221113232140		Pipe, copper, tubing, solder, 1/2" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	200.00	L.F.	\$6.57	\$1,314.00
221113232220		Pipe, copper, tubing, solder, 1-1/4" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	200.00	L.F.	\$16.28	\$3,256.00
224116106000		Lavatory, wall hung, vitreous china, white, with backsplash, single bowl, 18" x 15", includes trim	10.00	Ea.	\$290.33	\$2,903.30
224213303120		Urinal, wall hung, vitreous china, with hanger & self-closing valve, blowout type	3.00	Ea.	\$538.49	\$1,615.47
Division 22 Subtotal						\$23,530.24
Division 23 Heating, Ventilating, and Air Conditioning (HVAC)						
230505101540		Air conditioner, ductwork, rigid, 30" x 72", selective demolition	170.00	L.F.	\$2.63	\$447.10
230505101650		Diffusers, registers or grills, above 36" max dimension, selective demolition	57.00	Ea.	\$6.53	\$372.21
230505105130		Roof top air conditioner, 150 thru 300 ton, selective demolition	2.00	Ea.	\$1,873.78	\$3,747.56
230713103212		Insulation, ductwork, blanket type, fiberglass, flexible, vinyl jacket, .75 lb. density, 1-1/2" thick	180.00	S.F.	\$1.25	\$225.00
230713103330		Insulation, ductwork, blanket type, fiberglass, flexible, unfaced, 1 lb. density, 2" thick	180.00	S.F.	\$1.37	\$246.60
233113130100		Metal Ductwork, fabricated rectangular, under 100 lb., aluminum alloy 3003-H14, includes fittings, joints, supports and allowance for a flexible connection, excludes insulation	180.00	Lb.	\$11.26	\$2,026.80
233113166731		Metal Ductwork, spiral preformed, steel, galvanized, end cap, max. 10" S.P.W.G., 20"	180.00	Ea.	\$45.57	\$8,202.60
233416107418		Fans, roof mounted kitchen exhaust, aluminum, centrifugal, direct drive, 2 speed, temperature to 200Deg.F, 3/4 H.P., 15"	4.00	Ea.	\$1,313.24	\$5,252.96
235123101120		Vent chimney, prefabricated metal, gas, double wall, galvanized steel fitting, roof flashing, 14" diameter, U.L. listed	2.00	Ea.	\$139.29	\$278.58
236313101640		Condenser, ratings are for air cooled, direct drive, propeller fan, 30Deg.F T.D., 5 ton, R-22, replace unit	1.00	Ea.	\$2,205.68	\$2,205.68
236313101690		Condenser, ratings are for air cooled, direct drive, propeller fan, 30Deg.F T.D., 16 ton, R-22	1.00	Ea.	\$4,901.18	\$4,901.18
237613100120		Evaporative cooler, ducted, side discharge style, capacities at .25" S.P., 1785 CFM, 1/3 H.P., 115 V, excludes duct	1.00	Ea.	\$560.39	\$560.39
237613100240		Evaporative cooler, ducted, side discharge style, capacities at .25" S.P., 6090 CFM, 1 H.P., 230/460 V, excludes duct	1.00	Ea.	\$1,749.38	\$1,749.38
238119202100		Self-contained single package A.C., water cooled, for free blow or duct, with electric heat, constant volume, 5 ton cooling, excludes tower	1.00	Ea.	\$9,013.95	\$9,013.95

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
8119202100	Self-contained single package A.C., water cooled, for free blow or duct, with electric heat, constant volume, 5 ton cooling, excludes tower	3.00	Ea.	\$9,013.95	\$27,041.85
Division 23 Subtotal					\$66,271.84
Division 26 Electrical					
260505100900	Plug-in switches, 3 phase, 600 V, 600 amp, electrical demolition, remove, incl disconnecting wire & conduit terminations	50.00	Ea.	\$127.05	\$6,352.50
260505504030	Metal halide fixture, explosionproof, 400 W, electrical demolition, remove	50.00	Ea.	\$30.13	\$1,506.50
260505504200	Fluorescent fixture, explosionproof, electrical demolition, remove	50.00	Ea.	\$26.68	\$1,334.00
260519900940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway	2,000.00	C.L.F.	\$31.97	\$63,940.00
260533135080	Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	100.00	L.F.	\$6.18	\$618.00
260533135100	Electric metallic tubing (EMT), 2" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	50.00	L.F.	\$7.59	\$379.50
260533135140	Electric metallic tubing (EMT), 3" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	50.00	L.F.	\$18.20	\$910.00
260590106320	Light fixtures, resi, kitchen fixture (fluorescent), custom grade	20.00	Ea.	\$190.32	\$3,806.40
260590106370	Light fixtures, resi, outdoor, wall mounted, luxury grade	10.00	Ea.	\$270.31	\$2,703.10
265113500700	Fluorescent fixture, interior, acrylic lens, grid recess ceiling mounted, 4-40 W, 4'W x 4'L, incl lamps, mounting hardware and connections	60.00	Ea.	\$420.40	\$25,224.00
Division 26 Subtotal					\$106,774.00
Division 28 Electronic Safety and Security					
282323500210	Video surveillance camera accessories, single camera video recorder	15.00	Ea.	\$433.66	\$6,504.90
282323500500	Video surveillance monitors, color flat screen, liquid crystal display (LCD), high resolution, 15"	2.00	Ea.	\$838.98	\$1,677.96
282323500540	Video surveillance monitors, color flat screen, liquid crystal display (LCD), high resolution, 19"	5.00	Ea.	\$1,238.98	\$6,194.90
Division 28 Subtotal					\$14,377.76
Division 33 Utilities					
333613100180	Utility Septic Tank and Effluent Wet Wells, septic tanks precast concrete, 4,000 gallon, excludes excavation or piping	1.00	Ea.	\$6,811.70	\$6,811.70
Division 33 Subtotal					\$6,811.70

Alpha Building Corporation

5541 Bear Lane #201
Corpus Christi, TX 78504
361-299-6292 Fax 361-299-6374

MAR 15 2011
2:50 PM

Delivery Order Work Proposal

For

Hidalgo County

Date: 03-15-11

**Title: Hidalgo County
Juvenile Detention Facility
Renovation To Autopsy Facility
Oscar Garza**

Location Edinburg, TX

V-1

Dear Mr. Garza

We are pleased to provide you with our proposal for the Hidalgo County Juvenile Detention Facility Renovation to Autopsy Facility. Our proposal is based off of the accompanying scope of work and RS Means proposal. Our extended price to the County is provided to you under the Harris County Education District state wide Job Order Contract.

Please note that as a proposal being submitted under the Job Order Contract method of procurement you the client and us the contractor can engage to negotiate as well as explore methods to value engineer the project to possibly bring the cost down. Also please note that we have extended upfront to you an extended discount from line item pricing due to favorable buyout extended to us by our sub-contractor base.

If you have any questions concerning this proposal or we may be of assistance in any other way please don't hesitate to call on me

Warmest Regards,

Gus Grajales
Area Manager South Texas
Alpha Building Corporation
956-202-9079

Letter of Transmittal



Date: 3-15-2011

To: Oscar Garza
Hidalgo County Purchasing
Edinburg, TX

From: Gus Grajales
Alpha Building Corporation
South Texas

Delivery Method Hand Delivery

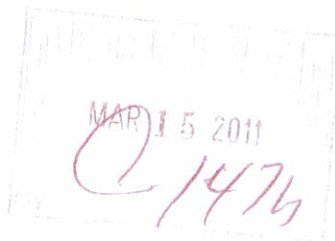
1 RS Proposal 22 Pages Hidalgo County Autopsy Facility 110119

1 Delivery Order Work Proposal V-1 Date 03-15-11 5 pages

Accepted By _____ Name

Signature _____

A handwritten signature in red ink, written over a horizontal line. The signature is stylized and appears to be 'Gus Grajales'.



Description of Work

Project Cost: \$488,857.70
PP Bonds : \$ 8,333.00
\$497,190.70

Scope of Work:

Provide all labor, equipment and material necessary to renovate the old Hidalgo County Juvenile Detention Facility into a new Autopsy Facility. All work and material is to be done per S&B Infrastructure LTD. plans and specifications "Hidalgo County Juvenile Detention Facility Renovation To Autopsy Facility" Sharlotte Lynee Teague P.E date 02-03-2011, with exceptions and clarifications as may be noted within this document.

Work to be conducted after hours, weekends and other times when building is not in use.

Staging:

- Establish with the direction of the owner a materials and equipment staging area.
- Provide for disposal of all excavation spoils and debris at an approved disposal facility if appropriate or as may be directed by the owner or plans and specifications.
- Provide protection of existing construction as necessary.
- Provide for safety protection such as barricades, temp. fencing and warning signs and devices as may be appropriate for scope of work.

Assumption:

Material and labor associated with unforeseen or unexpected conditions are not included with this scope of work and proposal. Any costs associated with unforeseen or unexpected conditions are above and beyond this scope of work and will incur additional cost above and beyond those proposed with this scope of work.

Exclusions:

- Hazardous material surveys, work, and clearances are not included in this scope of work and are to be completed by others.
- Mold testing or remediation
- Electrical work other than specified in scope.
- Plumbing work other than specified in scope.
- Architectural finishes not noted
- Site work not noted
- Providing dumpsters and disposal of trash, debris, and spoils (By owner)

- Fire sprinkler, alarm, signals, devices installation repair or testing of existing or new (by others)
- Security alarm, signals, devices installation repair or testing of existing or new (by others)
- Electronic entry devices new or existing installation repair or testing of existing or new (by others)
- Cadaver coolers equipment (provided by owner)
- Hose reels (provided by owner)
- Job trailer
- Onsite or overnight security

Clarifications:

Priced RO system provides for system, tank, pressurization system, carbon filter and uv sterilization light.

Assumptions:

- Hazardous material work or clean up is neither expected nor priced in this proposal.
- Special lead time equipment and materials. None expected at time of proposal
- Interface with existing structure: *Yes*
- Possible disruption to building personnel and plans to minimize: Area to be inaccessible to general public during installation time of section.
- Outages: Electric and water during disconnects
- Special training/Orientation Requirements: None
- Work to be performed during non-normal hours: possible
- Outage Coordination: Alpha supt. and HC designate
- Schedule Issues: None
- Special Issues: None
- Special Security and Safety Requirements: Proper safety equipment as may be required by OSHA
- Significant Milestones: None

- Hazardous Materials: None

Quality Assurance Considerations: A pre-final inspection will be held 1 day prior to final completion date. Any items identified will be corrected before request for final inspection.

I. STAFFING PLAN:

- A. Project Manager: Gus Grajales C. Quality Control Coordinator:
B. Superintendent: TBA D. Subcontractors:

II. PERMITS: To be provided by General Contractor

- A. City X
B. Burning: Welding: Cutting:

SUBMITTAL REQUIREMENTS: as specified

III. CONSTRUCTIBILITY & VALUE ENGINEERING SUGGESTIONS:

None

Submitted By: Gustavo Grajales

Approved By: _____ Date _____



RSM

JOCWorks

Preliminary Estimate, by estimates
Trey Acock

Hidalgo County Autopsy Facility - 110119

Estimator: Trey Acock

Hidalgo County Autopsy Facility

Division Summary (MF04)

01 - General Requirements	\$10,645.50	26 - Electrical	\$84,895.92
02 - Existing Conditions	\$43,972.90	27 - Communications	
03 - Concrete	\$21,239.24	28 - Electronic Safety and Security	
04 - Masonry	\$4,644.40	31 - Earthwork	\$10,146.10
05 - Metals	\$36,321.00	32 - Exterior Improvements	\$60.60
06 - Wood, Plastics, and Composites	\$431.00	33 - Utilities	\$12,295.00
07 - Thermal and Moisture Protection	\$12,590.80	34 - Transportation	
08 - Openings	\$44,488.00	35 - Waterway and Marine Transportation	
09 - Finishes	\$180,110.99	41 - Material Processing and Handling Equipment	
10 - Specialties	\$7,544.40	44 - Pollution Control Equipment	
11 - Equipment	\$166.00	46 - Water and Wastewater Equipment	
12 - Furnishings	\$133.08	48 - Electric Power Generation	
13 - Special Construction	\$11,556.00	Alternates	\$(43,351.22)
14 - Conveying Equipment		Trades	
21 - Fire Suppression	\$625.00	Assemblies	
22 - Plumbing	\$60,996.20	MF04 Bare Total (Without totalling components)	\$667,709.62
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	\$168,198.71		

Totalling Components

RSMMeans Subtotal	\$667,709.62	CCI Installation Adjustment (McAllen) (6.00000%)	\$16,858.71
RSMMeans MCALLEN, TX CCI 2011Q1, 76.20%	\$(158,914.89)	JOC Coefficient Standard (-7.00000%)	\$(36,795.74)

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

Material:	\$252,569.44
Labor:	\$280,977.57
Equipment:	\$14,732.97
Other:	\$119,429.64
Laborhours:	6,470.73
Green Line Items:41	\$62,578.40

Priced/Non-Priced

Total Priced Items:	312	\$667,709.62	
Total Non-Priced Items:	0	\$0.00	0.00%
	312	\$667,709.62	

Grand Total

\$488,857.70

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:	Item	Description	UM	Quantity	Unit Cost	Total	Book
	01 - General Requirements						
	1	01-54-23-75-4400 Scaffolding specialties, rolling ladders, complete including wheels, railings, outriggers, 21' high, rent by month = 5% of purchase cost 3 units 4 months	Ea.	12.0000	\$124.00	\$1,488.00	RSM11FAC M, O&P
	2	01-54-33-40-0150-4 Rent per month for general equipment rental, without operators, aerial lift, scissor type, electric, to 15' high, 1000 lb. capacity	Ea.	3.0000	\$561.00	\$1,683.00	RSM11FAC E, O&P
	3	01-54-33-40-0160-4 Rent per month for general equipment rental, without operators, aerial lift, scissor type, electric, to 25' high, 2000 lb. capacity	Ea.	1.0000	\$709.50	\$709.50	RSM11FAC E, O&P
	4	01-93-13-03-1050 Concrete facilities maintenance, sealing concrete floor, 2 coats, oil or urethane base, maximum cost	S.F.	1,000.0000	\$0.90	\$900.00	RSM11FAC O&P
	5	01-93-13-15-0850 Mechanical facilities maintenance, ductwork, clean, rectangular, 12"	L.F.	850.0000	\$6.90	\$5,865.00	RSM11FAC Grn, L, O&P
						\$10,645.50	
	01 - General Requirements Total						
	02 - Existing Conditions						
	6	02-41-19-23-2000 Selective demolition, rubbish handling, the following are to be added to the demolition prices. load, haul, dump and return, up to 50' haul, hand carried	C.Y.	300.0000	\$23.00	\$6,900.00	RSM11FAC L, B
	7	02-41-19-23-2040 Selective demolition, rubbish handling, the following are to be added to the demolition prices. load, haul, dump and return, 51' to 100' haul, hand carried	C.Y.	300.0000	\$33.50	\$10,050.00	RSM11FAC L, B
	8	02-41-19-23-2045 Selective demolition, rubbish handling, the following are to be added to the demolition prices. load, haul, dump and return, 51' to 100' haul, wheeled	C.Y.	200.0000	\$22.00	\$4,400.00	RSM11FAC L, B
	9	02-41-19-25-1220 Selective demolition, saw cutting, masonry walls, hydraulic saw, block walls, solid, per inch of depth	L.F.	3,240.0000	\$5.51	\$17,852.40	RSM11FAC M, L, E, B
	10	02-41-19-25-5000 Selective demolition, saw cutting, wood sheathing to 1" thick, on walls	L.F.	500.0000	\$1.72	\$860.00	RSM11FAC L, B
	11	02-41-19-27-0040 Selective demolition, torch cutting, steel, 1" diameter bar	Ea.	100.0000	\$1.31	\$131.00	RSM11FAC L, B
	12	02-41-19-27-1090 Selective demolition, torch cutting, minimum labor/equipment charge	Job	1.0000	\$252.50	\$252.50	RSM11FAC L, E, B
	13	02-42-10-20-0100 Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of plumbing fixtures, wall hung or countertop lavatory	Ea.	2.0000	\$34.50	\$69.00	RSM11FAC Grn, L, B
	14	02-42-10-20-0100 Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of plumbing fixtures, wall hung or countertop lavatory	Ea.	13.0000	\$34.50	\$448.50	RSM11FAC Grn, L, B

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

02 - Existing Conditions

Item	Description	UM	Quantity	Unit Cost	Total	Book
15 02-42-10-20-0140	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of plumbing fixtures, floor mounted water closet	Ea.	2.0000	\$34.50	\$69.00	RSM11FAC Grn, L, B
16 02-42-10-20-0310	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of electrical fixtures, surface mounted, incandescent fixtures	Ea.	0.0000	\$11.45		RSM11FAC Grn, L, B
17 02-42-10-20-0330	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of electrical fixtures, surface mounted, fluorescent, 4 lamp	Ea.	0.0000	\$23.00		RSM11FAC Grn, L, B
18 02-42-10-20-0400	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of electrical fixtures, recessed drop-in fluorescent fixture, 2 lamp	Ea.	0.0000	\$20.50		RSM11FAC Grn, L, B
19 02-42-10-20-0610	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of millwork and trim, cabinets, wood	L.F.	100.0000	\$17.20	\$1,720.00	RSM11FAC Grn, L, B
20 02-42-10-20-0620	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of millwork and trim, countertops	L.F.	70.0000	\$6.90	\$483.00	RSM11FAC Grn, L, B
21 02-42-10-20-0730	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of doors and windows, doors, wrap, solid core, exterior or interior, single	Ea.	7.0000	\$76.50	\$535.50	RSM11FAC Grn, M, L, B
22 02-42-10-20-0740	Deconstruction of building components, buildings one or two stories only, excludes material handling, packaging, container costs and transportation for salvage or disposal, deconstruction of doors and windows, doors, wrap, solid core, exterior or interior, double	Ea.	2.0000	\$101.00	\$202.00	RSM11FAC Grn, M, L, B

02 - Existing Conditions Total

\$43,972.90

03 - Concrete

23 03-05-05-10-0050	Selective demolition, concrete, excludes saw or torch cutting, loading, hauling or dumping, break up into small pieces, minimum reinforcing	C.Y.	40.0000	\$66.15	\$2,646.00	RSM11FAC L, E, B
24 03-11-13-45-6050	Demo cell beds					
24 03-11-13-45-6050	Forms in place, footings, includes erecting, bracing, stripping and cleaning, supports for dowels, plinths or templates, 4' x 4' footing	Ea.	5.0000	\$108.00	\$540.00	RSM11FAC M, L, O&P
25 03-21-05-10-0710	Rebar accessories, bag ties, 16 gauge, plain steel, 5" long	C	1.0000	\$3.30	\$3.30	RSM11FAC Grn, M, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

03 - Concrete

Item	Description	UM	Quantity	Unit Cost	Total	Book
26	03-21-05-10-0710 Rebar accessories, bag ties, 16 gauge, plain steel, 5" long	C	1.0000	\$3.30	\$3.30	RSM11FAC Grn, M, O&P
27	03-21-05-10-1206 Rebar accessories, high chairs, individual (HC), 3" high, plastic tipped legs	C	1.0000	\$93.85	\$93.85	RSM10FAC Grn, M, O&P, CCI 785 Q3 WAIT
28	03-21-05-10-1206 Rebar accessories, high chairs, individual (HC), 3" high, plastic tipped legs	C	15.0000	\$93.85	\$1,407.75	RSM10FAC Grn, M, O&P, CCI 785 Q3 WAIT
29	03-21-10-60-0502 Reinforcing in place, 50 to 60 ton lots, A615 Grade 60, includes labor, but not material cost, to install accessories, footings, #4 to #7	Lb.	500.0000	\$1.13	\$565.00	RSM11FAC Grn, M, L, O&P
30	03-21-10-60-0602 Reinforcing in place, 50 to 60 ton lots, A615 Grade 60, includes labor, but not material cost, to install accessories, slab on grade, #3 to #7	Lb.	2,000.0000	\$1.12	\$2,240.00	RSM11FAC Grn, M, L, O&P
31	03-21-10-60-0602-2000 Reinforcing in place, unloading and sorting, add to above (Modified using 03-21-10-60-2000)	Ton	1.2500	\$52.00	\$65.00	RSM11FAC Grn, L, E, O&P
32	03-21-10-60-0702 Reinforcing in place, 50 to 60 ton lots, A615 Grade 60, includes labor, but not material cost, to install accessories, walls, #3 to #7	Lb.	250.0000	\$0.94	\$235.00	RSM11FAC Grn, M, L, O&P
33	03-21-10-60-2410 Reinforcing in place, 50 to 60 ton lots, A615 Grade 60, dowels, 2 feet long, deformed, #4	Ea.	10.0000	\$3.42	\$34.20	RSM11FAC Grn, M, L, O&P
34	03-21-10-60-2615 Reinforcing in place, dowel sleeves for cast in place concrete, 2-part system, sleeve, plastic, 12" long, for 5/8" smooth dowel, snap onto base	Ea.	10.0000	\$2.82	\$28.20	RSM11FAC M, L, O&P
35	03-30-53-40-3825 Concrete in place, including forms (4 uses), reinforcing steel, concrete, placement and finishing unless otherwise indicated, footings, spread, 3000 PSI, 1 C.Y. to 5 C.Y.	C.Y.	3.0000	\$380.00	\$1,140.00	RSM11FAC M, L, E, O&P
36	03-30-53-40-3935 Concrete in place, including forms (4 uses), reinforcing steel, concrete, placement and finishing unless otherwise indicated, footings, strip, 3000 PSI, 24" x 12", unreinforced allows curbs	C.Y.	11.0000	\$177.78	\$1,955.58	RSM10FAC M, L, E, O&P, CCI 785 Q3 WAIT
37	03-30-53-40-3935 Concrete in place, including forms (4 uses), reinforcing steel, concrete, placement and finishing unless otherwise indicated, footings, strip, 3000 PSI, 24" x 12", unreinforced	C.Y.	57.0000	\$177.78	\$10,133.46	RSM10FAC M, L, E, O&P, CCI 785 Q3 WAIT
38	03-30-53-40-4760 Concrete in place, including troweled finish, not including forms, or reinforcing steel, slab on grade, 3500 PSI, over 10,000 S.F., 4" thick	S.F.	20.0000	\$2.05	\$41.00	RSM10FAC M, L, E, O&P, CCI 785 Q3 WAIT
39	03-31-05-70-1900 Placing concrete, includes labor and equipment to place, strike off and consolidate, footings, continuous, shallow, direct chute	C.Y.	3.0000	\$23.50	\$70.50	RSM11FAC L, E, O&P
40	03-39-13-50-0015 Water curing, with burlap, 4 uses assumed, 7.5 oz.	C.S.F.	2.0000	\$18.55	\$37.10	RSM11FAC M, L, B
03 - Concrete Total					\$21,239.24	

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

Item	Description	UM	Quantity	Unit Cost	Total	Book
04 - Masonry						
41	04-01-20-30-0300 Pointing CMU, cut and repoint block, hard mortar, running bond at demo and cuts	S.F.	600.0000	\$2.04	\$1,224.00	RSM11FAC M, L, B
42	04-01-20-50-0500 Tothing masonry, brickwork, soft old mortar	V.L.F.	100.0000	\$6.85	\$685.00	RSM11FAC L, B
43	04-05-05-10-0410 Selective demolition, concrete block walls, reinforced alternate courses, 8" thick	S.F.	800.0000	\$0.91	\$728.00	RSM11FAC L, O&P
44	04-05-16-30-0800 Grouting, door frames, 3' x 7' opening, 2.5 C.F. per opening door and rolling door cacylated for 1 + 12X10	Opng.	3.5000	\$47.00	\$164.50	RSM11FAC M, L, E, O&P
45	04-05-16-30-2000 Grouting, grout, C476, for bond beams, lintels and concrete masonry unit (CMU) cores	C.F.	26.0000	\$10.75	\$279.50	RSM11FAC M, L, E, O&P
46	04-05-16-30-9000 Grouting, minimum labor/equipment charge addl for meeting w/existing	Job	1.0000	\$276.00	\$276.00	RSM11FAC L, O&P
47	04-05-19-05-0020 Anchor bolts, installed in fresh grout in CMU bond beams or filled cores, no templates, hooked type, with nut and washer, 1/2" diameter, 8" long autopsy tables sinks	Ea.	80.0000	\$3.98	\$318.40	RSM11FAC M, L, B
48	04-22-10-32-0400 Concrete block, lintels, 2000 PSI, normal weight, including mortar, grout and horizontal reinforcing, excludes scaffolding and vertical reinforcing, 8" x 16" x 8", 1 #4 bar	L.F.	15.0000	\$11.40	\$171.00	RSM11FAC M, L, E, O&P
49	04-22-10-34-4200 Concrete block, partitions, 2000 PSI, includes mortar, excludes scaffolding, horizontal and vertical reinforcing and grout, regular block, tooled joints, 2 sides, hollow, 8" x 16" x 8" thick	S.F.	120.0000	\$6.65	\$798.00	RSM11FAC M, L, B
04 - Masonry Total					\$4,644.40	
05 - Metals						
50	05-05-21-15-1940 Drilling steel, drilling and layout for steel, up to 1/4" deep, no anchor, holes, 1/2" diameter	Ea.	40.0000	\$7.55	\$302.00	RSM11FAC M, L, O&P
51	05-05-21-90-0300 Welding steel, structural, field welding, 1/8" E6011, cost per welder, with 1 operating engineer	Hr.	24.0000	\$181.00	\$4,344.00	RSM11FAC M, L, E, O&P
52	05-05-23-20-8300 Expansion anchors, anchors for concrete, brick or stone, no layout and drilling, wedge anchors, carbon steel, 1/2" diameter, 7" long	Ea.	20.0000	\$6.00	\$120.00	RSM11FAC Grn, M, L, O&P
53	05-05-23-20-9000 Expansion anchors, minimum labor/equipment charge for drilling and layout all anchors	Job	1.0000	\$141.00	\$141.00	RSM11FAC L, O&P
54	05-05-23-90-0020 Welding rod, steel, type 6011, 1/8" diameter, less than 500 lbs	Lb.	100.0000	\$2.32	\$232.00	RSM11FAC M, O&P
55	05-12-23-10-2500 Ceiling supports, structural framing, x-ray travel gantry support	L.F.	1.0000	\$445.00	\$445.00	RSM11FAC Grn, M, L, E, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

05 - Metals

Item	Description	UM	Quantity	Unit Cost	Total	Book
56	05-12-23-17-4550 Columns, structural, including shop primer, cap and base plate, excluding bolts, shop fabricated for 100 ton, 1 to 2 story project, bolted connections, structural tubing, square, 6" x 6" x 1/4" x 12'-0"	Ea.	5.0000	\$455.00	\$2,275.00	RSM11FAC Grn, M, L, E, O&P
57	05-12-23-17-6850 Columns, structural, including shop primer, splice plates, excluding bolts, shop fabricated for 100 ton, 1 to 2 story project, bolted connections, W Shape, A992 steel, 2 tier, W8 x 31	L.F.	100.0000	\$48.00	\$4,800.00	RSM11FAC Grn, M, L, E, O&P
58	05-12-23-20-0200 Curb edging, structural steel, steel angle with anchors, on concrete forms, 3" x 3" L.F. angles, 6.1 per L.F.	L.F.	40.0000	\$19.80	\$792.00	RSM11FAC Grn, M, L, E, O&P
59	05-12-23-65-0400 Plates, structural, for connections and stiffener plates, shop fabricated, including shop primer, 1/2" thick (20.4 lbs per S.F.)	S.F.	20.0000	\$25.50	\$510.00	RSM11FAC Grn, M, O&P
60	05-12-23-77-3880 Structural steel projects, fabrication shop costs (included in project material cost, Ton above), total material cost, shop fabricated, primed, delivered	Ton	4.0000	\$2,475.00	\$9,900.00	RSM11FAC M, O&P
61	05-21-13-50-4240 Deep longspan joists, SLH series, 40 ton job lots, includes bolted cross bridging, shop primer, shop fabricated, spans to 200' (shipped in 3 pieces), 88SLH16, 46 lbs per L.F.	L.F.	280.0000	\$44.50	\$12,460.00	RSM11FAC Grn, M, L, E, O&P

05 - Metals Total

\$36,321.00

06 - Wood, Plastics, and Composites

62	06-11-10-30-5980 Roof framing, roof curbs, untreated, 2" x 12"	L.F.	100.0000	\$4.31	\$431.00	RSM11FAC M, L, O&P
63	06-11-10-30-5980 Roof framing, roof curbs, untreated, 2" x 12"	L.F.	0.0000	\$4.31		RSM11FAC M, L, O&P

06 - Wood, Plastics, and Composites Total

\$431.00

07 - Thermal and Moisture Protection

64	07-26-10-10-1200 Vapor retarders, polyethylene vapor barrier, standard, .010" thick	Sq.	1.2000	\$21.50	\$25.80	RSM09FAC Grn, M, L, O&P
65	07-26-10-10-1200 Vapor retarders, polyethylene vapor barrier, standard, .010" thick	Sq.	18.0000	\$21.50	\$387.00	RSM09FAC Grn, M, L, O&P
66	07-41-13-20-0745 Steel roofing panels, flat profile, 1-3/4" standing seams, 12" wide, standard finish, S.F. 24 gauge allows for waste and add for standing seam	S.F.	1,495.0000	\$7.90	\$11,810.50	RSM11FAC M, L, O&P
67	07-71-19-10-1350 Gravel stop, galvanized steel, plain, 24 gauge, with continuous cleat, 4" leg, 4" face height	L.F.	50.0000	\$7.35	\$367.50	RSM11FAC M, L, O&P

07 - Thermal and Moisture Protection Total

\$12,590.80

08 - Openings

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

08 - Openings

Item	Description	UM	Quantity	Unit Cost	Total	Book
68 08-05-05-20-1000	Selective demolition of windows, steel, including trim, to 12 S.F.	Ea.	8.0000	\$21.00	\$168.00	RSM11FAC L, B
69 08-05-05-20-1000	Selective demolition of windows, steel, including trim, to 12 S.F.	Ea.	5.0000	\$21.00	\$105.00	RSM11FAC L, B
70 08-05-05-20-1040	Selective demolition of windows, steel, including trim, to 50 S.F.	Ea.	11.0000	\$68.50	\$753.50	RSM11FAC L, B
71 08-11-16-10-0580	Entrance doors, aluminum, narrow stile, including standard hardware, clear finish, Pr. excluding glass, 6'-0" x 7'-0" opening best fit for galvanized		3.0000	\$2,725.00	\$8,175.00	RSM11FAC M, L, O&P
72 08-11-16-10-0600-1100	Entrance doors, for full vision doors, with 1/2" glass, add (Modified using 08-11-16-10-1100)	Leaf	3.0000	\$893.75	\$2,681.25	RSM11FAC M, O&P
73 08-12-13-13-5800	Standard hollow metal frames, steel knock down, 14 gauge, "B" label, up to 6-3/4" deep, 7'-0" high, 4'-0" wide, single	Ea.	8.0000	\$305.00	\$2,440.00	RSM11FAC M, L, O&P
74 08-12-13-13-5800-6500	Standard hollow metal frames, for galvanizing, add (Modified using 08-12-13-13-6500)	Ea.	8.0000	\$31.20	\$249.60	RSM11FAC M, O&P
75 08-12-13-13-5800-6600	Standard hollow metal frames, for hospital stop, add (Modified using 08-12-13-6600)	Ea.	8.0000	\$310.00	\$2,480.00	RSM11FAC M, O&P
76 08-13-13-13-0640	Standard hollow metal doors, flush, hollow core, full panel, 1-3/4" thick, 20 gauge, Ea. 3'-0" x 7'-0" allows for hinge and sundries	Ea.	7.7000	\$525.00	\$4,042.50	RSM11FAC M, L, O&P
77 08-13-13-13-1020-1212	Standard hollow metal doors, for vision lite, add (Modified using 08-13-13-1212)	Ea.	6.0000	\$99.00	\$594.00	RSM11FAC M, O&P
78 08-31-13-10-6250	Types of framed access doors, standard door, metal, 24" x 24"	Ea.	1.0000	\$145.00	\$145.00	RSM11FAC M, L, O&P
79 08-36-13-10-2700	Overhead commercial doors, steel, excluding frame, 24 gauge sectional, manual, Ea. 12' x 12' high allows for fit to existing conditions not new construction retro fit and all sundries and additional hdwr	Ea.	1.2500	\$2,125.00	\$2,656.25	RSM11FAC M, L, O&P
80 08-36-13-10-2700-2900	Overhead commercial doors, for electric trolley operator, 1/3 H.P., to 12' x 12', add (Modified using 08-36-13-10-2900)	Ea.	1.0000	\$1,275.00	\$1,275.00	RSM11FAC M, L, O&P
81 08-71-20-30-0020	Door closers, adjustable backcheck, 3 way mount, all sizes, regular arm	Ea.	13.0000	\$294.00	\$3,822.00	RSM11FAC M, L, O&P
82 08-71-20-30-0020	Door closers, adjustable backcheck, 3 way mount, all sizes, regular arm	Ea.	11.0000	\$294.00	\$3,234.00	RSM11FAC M, L, O&P
83 08-71-20-35-0700	Panic devices, for rim locks, single door, touch bar and vertical rod, exit only	Ea.	6.0000	\$850.00	\$5,100.00	RSM11FAC M, L, O&P
84 08-71-20-40-0500	Lockset, standard duty, cylindrical, with sectional trim, lever handled, keyed, single cylinder function	Ea.	11.0000	\$232.00	\$2,552.00	RSM11FAC M, L, O&P
85 08-71-20-95-0120	Kick plates, stainless steel, .050, 16 gauge, US32, mop or kick, 6" x 30"	Ea.	13.0000	\$82.50	\$1,072.50	RSM11FAC M, L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

08 - Openings

Item	Description	UM	Quantity	Unit Cost	Total	Book
86	08-71-21-10-2800 Exterior mouldings, astragals, one piece overlapping, neoprene sponge strip, "Z" shaped, aluminum	L.F.	104.0000	\$14.10	\$1,466.40	RSM11FAC M, L, O&P
87	08-71-25-10-1000 Mechanical seals, weatherstripping, doors, wood frame, interlocking, for 3' x 7' door, zinc	Opng.	6.0000	\$206.00	\$1,236.00	RSM11FAC M, L, O&P
88	08-71-25-10-3700 Mechanical seals, weatherstripping, threshold weatherstripping, door sweep, flush mounted, vinyl	Ea.	6.0000	\$40.00	\$240.00	RSM11FAC M, L, O&P
08 - Openings Total					\$44,488.00	

09 - Finishes

89	09-05-05-10-1200 Selective demolition, ceilings, suspended ceiling, mineral fiber, 2' x 2' or 2' x 4'	S.F.	221.0000	\$0.37	\$81.77	RSM11FAC L, B
90	09-05-05-20-0400 Selective demolition, flooring, carpet, bonded, including surface scraping	S.F.	1,500.0000	\$0.27	\$405.00	RSM11FAC L, B
91	09-05-05-20-0480 Selective demolition, flooring, carpet, tackless	S.F.	1,500.0000	\$0.06	\$90.00	RSM11FAC L, B
92	09-05-05-20-0700 Selective demolition, flooring, concrete, scarify skin	S.F.	1,500.0000	\$2.54	\$3,810.00	RSM11FAC L, E, B
93	09-05-05-20-0900 Selective demolition, flooring, vinyl composition tile, 12" x 12"	S.F.	5,303.0000	\$0.55	\$2,916.65	RSM11FAC L, B
94	09-05-05-20-0900 Selective demolition, flooring, vinyl composition tile, 12" x 12"	S.F.	5,203.0000	\$0.55	\$2,861.65	RSM11FAC L, B
95	09-05-05-30-0280 Selective demolition, walls and partitions, concrete block, 8" thick	S.F.	4,800.0000	\$1.96	\$9,408.00	RSM11FAC L, E, B
96	09-05-05-30-0280 Selective demolition, walls and partitions, concrete block, 8" thick	S.F.	0.0000	\$1.96		RSM11FAC L, E, B
97	09-05-05-30-1010 Selective demolition, walls and partitions, drywall, nailed or screwed, two layers	S.F.	2,000.0000	\$0.69	\$1,380.00	RSM11FAC L, B
98	09-05-05-30-1010 Selective demolition, walls and partitions, drywall, nailed or screwed, two layers	S.F.	2,260.0000	\$0.69	\$1,559.40	RSM11FAC L, B
99	09-21-16-33-1800 Partition wall, stud wall, 8' to 12' high, 1/2", interior, gypsum board, water resistant, tape and finish both sides, installed on and including, metal studs, non load bearing, 25 gauge, 16" O.C., 6" wide	S.F.	1,306.0000	\$3.34	\$4,362.04	RSM11FAC M, L, B
100	09-21-16-33-5800 Partition wall, stud wall, 8' to 12' high, 5/8", interior, gypsum board, water resistant, tape and finish both sides, installed on and including, metal studs, non load bearing, 25 gauge, 24" O.C., 6" wide	S.F.	1,200.0000	\$3.24	\$3,888.00	RSM11FAC M, L, B
101	09-30-13-10-1200 Ceramic tile, sanitary cove base, 6" x 4-1/4" high, mud set allows for waste and prep	L.F.	220.0000	\$13.95	\$3,069.00	RSM11FAC M, L, O&P
102	09-30-13-10-3270 Ceramic tile, floors, glazed, thin set, color group 1, 12" x 12" tile allows for waste and floor prep leveling etc	S.F.	872.0000	\$8.50	\$7,412.00	RSM11FAC M, L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

09 - Finishes

Item	Description	UM	Quantity	Unit Cost	Total	Book
103	09-30-13-10-5400 Ceramic tile, walls, interior, thin set, 4-1/4" x 4-1/4" tile	S.F.	1,380.0000	\$5.18	\$7,148.40	RSM11FAC M, L, B
104	09-30-13-10-5400-7000 Ceramic tile, for epoxy grout, 1/16" joints, 4-1/4" tile, add (Modified using 09-30-13-10-7000)	S.F.	800.0000	\$1.11	\$888.00	RSM11FAC M, L, B
105	09-51-23-30-0800 Suspended ceilings, complete, including standard, suspension system, excluding S.F. 1-1/2" carrier channels, mineral fiber, on 15/16" T bar, 2' x 2' x 3/4" lay-in board allows	S.F.	7,900.0000	\$4.17	\$32,943.00	RSM11FAC M, L, O&P
106	09-53-23-30-0050-0600 Ceiling suspension systems, 1-1/2" carrier channels, 4' O.C., add (Modified using S.F. 09-53-23-30-0600)	S.F.	6,168.0000	\$1.30	\$8,018.40	RSM11FAC M, L, O&P
107	09-53-23-30-0050-0900 Ceiling suspension systems, carrier channels for ceilings with recessed lighting fixtures, add (Modified using 09-53-23-30-0900)	S.F.	6,168.0000	\$1.41	\$8,696.88	RSM11FAC M, L, O&P
108	09-65-13-13-1150 Resilient base, base, cove, rubber or vinyl, standard colors, 0.080" thick, 4" high allows for waste	L.F.	1,222.0000	\$2.79	\$3,409.38	RSM11FAC M, L, O&P
109	09-65-19-10-7550 Miscellaneous resilient tile flooring, vinyl tile, 12" x 12", .050" thick, maximum allows for waste and floor prep float etc	S.F.	2,800.0000	\$7.60	\$21,280.00	RSM11FAC M, L, O&P
110	09-81-16-10-0500 Sound attenuation blanket, blanket, 1-1/2" thick	S.F.	3,700.0000	\$0.89	\$3,293.00	RSM11FAC M, L, O&P
111	09-91-23-72-1200 Walls and ceilings, interior, concrete, drywall or plaster, latex, paint three coats, smooth finish, brushwork	S.F.	9,482.0000	\$1.11	\$10,525.02	RSM11FAC M, L, O&P
112	09-96-56-20-0300 Wall coatings, epoxy coatings, minimum	S.F.	7,901.0000	\$1.33	\$10,508.33	RSM11FAC M, L, O&P
113	09-96-56-20-0400 Wall coatings, epoxy coatings, maximum	S.F.	7,901.0000	\$4.07	\$32,157.07	RSM11FAC M, L, O&P

09 - Finishes Total

\$180,110.99

10 - Specialties

114	10-05-05-10-5050 Selective demolition, specialties, lockers	Opng.	13.0000	\$18.30	\$237.90	RSM11FAC L, B
115	10-14-19-10-4000 Exterior signs, plaques, custom, 20" x 30", for up to 450 letters, cast bronze	Ea.	1.0000	\$1,847.00	\$1,847.00	RSM11FAC M, L, B
116	10-21-13-19-1750 Plastic toilet compartments, cubicles, floor mounted, phenolic	Ea.	1.0000	\$1,448.50	\$1,448.50	RSM11FAC M, L, B
117	10-21-13-19-1750 Plastic toilet compartments, cubicles, floor mounted, phenolic	Ea.	1.0000	\$1,448.50	\$1,448.50	RSM11FAC M, L, B
118	10-21-13-19-1750-2100 Metal toilet compartments, for handicap units, including 52" grab bars, add (Modified using 10-21-13-19-2100)	Ea.	1.0000	\$285.00	\$285.00	RSM11FAC M, B
119	10-28-13-13-0610 Commercial toilet accessories, dispenser units, towel dispenser and waste receptacle, 18 gallon capacity	Ea.	2.0000	\$297.50	\$595.00	RSM11FAC M, L, B

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

10 - Specialties

Item	Description	UM	Quantity	Unit Cost	Total	Book
120	10-28-13-13-0900 Commercial toilet accessories, grab bar, straight, 1-1/4" diameter, stainless steel, Ea. 24" long	Ea.	1.0000	\$44.45	\$44.45	RSM11FAC M, L, B
121	10-28-13-13-1100 Commercial toilet accessories, grab bar, straight, 1-1/4" diameter, stainless steel, Ea. 36" long	Ea.	1.0000	\$56.20	\$56.20	RSM11FAC M, L, B
122	10-28-13-13-3600 Commercial toilet accessories, mirror, with stainless steel 3/4" square frame, with Ea. 5" stainless steel shelf, 36" x 24"	Ea.	2.0000	\$218.00	\$436.00	RSM11FAC M, L, B
123	10-28-13-13-4250 Commercial toilet accessories, napkin receptacle, recessed	Ea.	3.0000	\$196.00	\$588.00	RSM11FAC M, L, B
124	10-28-13-13-5000 Commercial toilet accessories, soap dispenser, recessed stainless steel, liquid	Ea.	3.0000	\$157.50	\$472.50	RSM11FAC M, L, B
125	10-28-13-13-6100 Commercial toilet accessories, toilet tissue dispenser, surface mounted, stainless steel, single roll	Ea.	3.0000	\$28.45	\$85.35	RSM11FAC M, L, B

10 - Specialties Total

\$7,544.40

11 - Equipment

126	11-05-05-10-4540 Selective demolition, water heater, residential, to 80 gal/day	Ea.	1.0000	\$166.00	\$166.00	RSM11FAC L, B
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11 - Equipment Total

\$166.00

12 - Furnishings

127	12-36-23-30-1520-2600 Plastic laminate countertop components, backsplash, add to above, minimum (Modified using 12-36-23-30-2600)	L.F.	12.0000	\$11.09	\$133.08	RSM11FAC M, L, B
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12 - Furnishings Total

\$133.08

13 - Special Construction

128	13-49-19-50-0910 Shielding lead, lead gypsum board, 5/8" thick with 1/8" lead	S.F.	600.0000	\$19.26	\$11,556.00	RSM11FAC M, L, B
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13 - Special Construction Total

\$11,556.00

21 - Fire Suppression

129	21-11-16-50-3840 Fire hydrants for buildings, hydrants, wall, with caps, single, flush, polished brass, Ea. 2-1/2" x 3"	Ea.	1.0000	\$625.00	\$625.00	RSM11FAC M, L, O&P
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21 - Fire Suppression Total

\$625.00

22 - Plumbing

130	22-05-76-10-0140 Cleanouts, floor type, round or square, scoriated nickel bronze top, 4" pipe size	Ea.	5.0000	\$365.00	\$1,825.00	RSM11FAC M, L, O&P
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Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

22 - Plumbing

Item	Description	UM	Quantity	Unit Cost	Total	Book
131	22-05-76-10-0140-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Ea.	5.0000	\$25.03	\$125.15	RSM11FAC L, O&P
132	22-07-19-10-0100 Piping insulation, rule of thumb, as a percentage of total mechanical costs	Job	1.0000	10.0000%	\$0.10	RSM11FAC O&P
133	22-11-13-23-1240-1080 Labor adjustment factors, add to labor for elevated installation, above floor level, 10' to 14.5' high (Modified using 22-01-02-20-1080) allows for couplings sundries etc	L.F.	700.0000	\$0.86	\$602.00	RSM11FAC L, O&P
134	22-13-19-13-2640 Sanitary drains, floor, acid resistant, PVC, 2", 3" and 4" pipe size	Ea.	11.0000	\$360.00	\$3,960.00	RSM11FAC M, L, O&P
135	22-13-19-13-2660 Sanitary drains, floor, PVC or ABS thermoplastic, 3" and 4" pipe size	Ea.	11.0000	\$385.00	\$4,235.00	RSM11FAC M, L, O&P
136	22-13-29-14-3160 Sewage ejector pumps, including operating and level controls, tank, covers, pumps 15' head, duplex system, 275 gallon coated steel tank, 268 GPM, 1 HP, 3" discharge allows for 400 gallon tank as specified	Ea.	1.3200	\$5,625.00	\$7,425.00	RSM11FAC M, L, O&P
137	22-13-29-14-3160-3340 Sewage ejector pumps, pump system accessories, switch, magnetic contactor, alarm bell, light, 3 level control (Modified using 22-13-29-14-3340)	Ea.	1.0000	\$745.00	\$745.00	RSM11FAC M, L, O&P
138	22-13-29-14-3160-4100 Labor adjustment factors, add to labor for working in existing occupied buildings, hospital (Modified using 22-01-02-20-4100)	Ea.	1.0000	\$463.75	\$463.75	RSM11FAC L, O&P
139	22-31-16-10-6200 Water softeners, softener systems, automatic, intermediate sizes available, may be used in multiples, hardness capacity between regenerations and flow, 300,000 grains, 81 GPM continuous, 113 GPM peak L4V for RO component best fit with 223219109240	Ea.	0.7500	\$10,800.00	\$8,100.00	RSM11FAC M, L, O&P
140	22-32-19-10-9240 Water filters, purification and treatment, commercial, fully automatic or push button automatic, taste and odor removal, 1500 GPH, 1-1/4" pipe size L4V best fit for ro component with 223116106200	Ea.	0.7500	\$7,225.00	\$5,418.75	RSM11FAC M, L, O&P
141	22-33-33-10-4140 Commercial electric water heaters, commercial, 100° rise, electric, 50 gallon, 9 kW, 37 GPH, 208 volt L4V. 6 of 50	Ea.	0.6000	\$3,975.00	\$2,385.00	RSM11FAC M, L, O&P
142	22-41-16-10-0640 Lavatories, including trim, white, vanity top, porcelain enamel on cast iron, 33" x 19" oval L4V	Ea.	2.0000	\$726.00	\$1,452.00	RSM11FAC M, L, B
143	22-41-16-10-0640-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Ea.	2.0000	\$42.35	\$84.70	RSM11FAC L, B
144	22-41-16-10-6120 Lavatories, including trim, white, wall hung, vitreous china, single bowl with backsplash, 24" x 20", single bowl L4V single wall hung	Ea.	1.0000	\$545.00	\$545.00	RSM11FAC M, L, B
145	22-41-16-10-6210-6960 Lavatories, rough-in, supply, waste and vent for above lavatories (Modified using 22-41-16-10-6960)	Ea.	2.0000	\$885.00	\$1,770.00	RSM11FAC M, L, B

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

22 - Plumbing

Item	Description	UM	Quantity	Unit Cost	Total	Book
146	22-41-16-10-6210-8960 Lavatories, rough-in, supply, waste and vent for above lavatories (Modified using 22-41-16-10-6960)	Ea.	1.0000	\$885.00	\$885.00	RSM11FAC M, L, B
147	22-42-16-34-1640-1980 Laboratory countertops and sinks, for rough-in, supply, waste and vent, add (Modified using 22-42-16-34-1980) roughins autopsy and work stations	Ea.	10.0000	\$634.00	\$6,340.00	RSM11FAC M, L, B
148	22-42-16-40-7000 Service sinks, service, wall, porcelain enamel on cast iron, roll rim, 22" x 18"	Ea.	1.0000	\$1,000.00	\$1,000.00	RSM11FAC M, L, O&P
149	22-42-16-40-8600-8980 Service sinks, for rough-in, supply, waste and vent, wall service sinks (Modified using 22-42-16-40-8980) L4V rough in shower and ro system (ro is .5 cold qater roughin only.	Ea.	1.5000	\$2,350.00	\$3,525.00	RSM11FAC M, L, O&P
150	22-42-23-30-7600 Group showers, group, with pressure balancing valve, excluding rough-in and rigging, column, five heads, no receptors, less partitions 1 shower .25 l4v	Ea.	0.2500	\$3,125.00	\$781.25	RSM11FAC M, L, O&P
151	22-42-39-30-5400 Carriers and supports, for plumbing fixtures, sink, wall mounted, exposed arms, single heavy fixture	Ea.	3.0000	\$421.00	\$1,263.00	RSM11FAC M, L, B
152	22-42-39-30-7040 Carriers and supports, for plumbing fixtures, water closet, siphon jet, horizontal, adjustable, caulk, single, 4" pipe size	Ea.	1.0000	\$835.50	\$835.50	RSM11FAC M, L, B
153	22-42-39-30-7050 Carriers and supports, for plumbing fixtures, water closet, siphon jet, horizontal, adjustable, caulk, single, 4" pipe size, paraplegic	Ea.	2.0000	\$835.50	\$1,671.00	RSM11FAC M, L, B
154	22-43-13-40-3100 Water closets, bowl only, one piece, vitreous china, including seat and flush valve, ADA compliant, 18" high, wall hung	Ea.	3.0000	\$578.00	\$1,734.00	RSM11FAC M, L, B
155	22-43-13-40-3100-3200 Water closets, for rough-in, supply, waste and vent, single water closet (Modified using 22-43-13-40-3200)	Ea.	3.0000	\$1,275.00	\$3,825.00	RSM11FAC M, L, B
22 - Plumbing Total					\$60,996.20	

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

156	23-05-05-10-0150-4140 Labor adjustment factors, add to labor for working in existing occupied buildings, office building (Modified using 22-01-02-20-4140)	Ea.	1.0000	\$101.25	\$101.25	RSM11FAC L, O&P
157	23-05-05-10-0190 HVAC demolition, air conditioner, rooftop, self contained, up to 5 ton	Ea.	1.0000	\$550.00	\$550.00	RSM11FAC L, O&P
158	23-05-05-10-0190-1100 Labor adjustment factors, add to labor for elevated installation, above floor level, 15' to 19.5' high (Modified using 22-01-02-20-1100)	Ea.	1.0000	\$71.00	\$71.00	RSM11FAC L, O&P
159	23-05-05-10-0400 HVAC demolition, central station air handler unit, up thru 15 ton	Ea.	1.0000	\$750.00	\$750.00	RSM11FAC L, O&P
160	23-05-05-10-0400 HVAC demolition, central station air handler unit, up thru 15 ton	Ea.	2.0000	\$750.00	\$1,500.00	RSM11FAC L, O&P
161	23-05-05-10-0400-4140 Labor adjustment factors, add to labor for working in existing occupied buildings, office building (Modified using 22-01-02-20-4140)	Ea.	1.0000	\$121.25	\$121.25	RSM11FAC L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

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

Item	Description	UM	Quantity	Unit Cost	Total	Book
162	23-05-05-10-0400-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Ea.	1.0000	\$169.75	\$169.75	RSM11FAC L, O&P
163	23-05-05-10-0400-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Ea.	2.0000	\$169.75	\$339.50	RSM11FAC L, O&P
164	23-05-05-10-0400-5140 Labor adjustment factors, add to labor, miscellaneous, congested area (Modified using 22-01-02-20-5140)	Ea.	2.0000	\$72.75	\$145.50	RSM11FAC L, O&P
165	23-05-05-10-0600 HVAC demolition, condenser, up thru 50 ton	Ea.	2.0000	\$1,200.00	\$2,400.00	RSM11FAC L, O&P
166	23-05-05-10-0600-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Ea.	2.0000	\$273.00	\$546.00	RSM11FAC L, O&P
167	23-05-05-10-0600-5140 Labor adjustment factors, add to labor, miscellaneous, congested area (Modified using 22-01-02-20-5140)	Ea.	2.0000	\$117.00	\$234.00	RSM11FAC L, O&P
168	23-05-05-10-0670 HVAC demolition, condensing unit, 11 thru 50 ton	Ea.	1.0000	\$3,000.00	\$3,000.00	RSM11FAC L, O&P
169	23-05-05-10-0670-4140 Labor adjustment factors, add to labor for working in existing occupied buildings, office building (Modified using 22-01-02-20-4140)	Ea.	1.0000	\$487.50	\$487.50	RSM11FAC L, O&P
170	23-05-05-10-1570 HVAC demolition, ductwork, metal, steel, stainless steel, fabricated	Lb.	2,173.0000	\$1.16	\$2,520.68	RSM11FAC L, O&P
171	23-05-05-10-1570-1080 Labor adjustment factors, add to labor for elevated installation, above floor level, 10' to 14.5' high (Modified using 22-01-02-20-1080)	Lb.	2,173.0000	\$0.07	\$152.11	RSM11FAC L, O&P
172	23-05-05-10-1570-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Lb.	2,173.0000	\$0.26	\$564.98	RSM11FAC L, O&P
173	23-05-05-10-1570-5140 Labor adjustment factors, add to labor, miscellaneous, congested area (Modified using 22-01-02-20-5140)	Lb.	2,173.0000	\$0.11	\$239.03	RSM11FAC L, O&P
174	23-05-05-10-1630 HVAC demolition, diffusers, registers or grills, up thru 20" maximum dimension	Ea.	12.0000	\$12.90	\$154.80	RSM11FAC L, O&P
175	23-05-05-10-1630-1080 Labor adjustment factors, add to labor for elevated installation, above floor level, 10' to 14.5' high (Modified using 22-01-02-20-1080)	Ea.	12.0000	\$0.83	\$9.96	RSM11FAC L, O&P
176	23-05-05-10-1630-4140 Labor adjustment factors, add to labor for working in existing occupied buildings, office building (Modified using 22-01-02-20-4140)	Ea.	12.0000	\$2.06	\$24.72	RSM11FAC L, O&P
177	23-05-05-10-1630-5140 Labor adjustment factors, add to labor, miscellaneous, congested area (Modified using 22-01-02-20-5140)	Ea.	12.0000	\$1.24	\$14.88	RSM11FAC L, O&P
178	23-05-93-10-1000 Balancing, air, subcontractor's quote including material and labor, heating and ventilating equipment, centrifugal fans, utility sets	Ea.	4.0000	\$375.00	\$1,500.00	RSM11FAC O&P
179	23-05-93-10-2700 Balancing, air, subcontractor's quote including material and labor, air conditioning equipment, package A.C. unit	Ea.	3.0000	\$310.00	\$930.00	RSM11FAC O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

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

Item	Description	UM	Quantity	Unit Cost	Total	Book
180 23-05-93-10-2800	Balancing, air, subcontractor's quote including material and labor, air conditioning equipment, rooftop heating and cooling unit	Ea.	1.0000	\$440.00	\$440.00	RSM11FAC O&P
181 23-05-93-10-3000	Balancing, air, subcontractor's quote including material and labor, supply, return, exhaust, registers and diffusers, average height ceiling	Ea.	50.0000	\$75.00	\$3,750.00	RSM11FAC O&P
182 23-07-13-10-3820	Duct thermal insulation, finishes, 18 ounce fiberglass cloth, pasted on Used to seal insulation	S.F.	105.0000	\$7.05	\$740.25	RSM10FAC M, L, O&P
183 23-07-13-10-3820	Duct thermal insulation, finishes, 18 ounce fiberglass cloth, pasted on Used to seal insulation	S.F.	105.0000	\$7.05	\$740.25	RSM10FAC M, L, O&P
184 23-07-13-10-7878	Duct thermal insulation, finishes, contact cement, quart can Used to glue/seal insulation	Ea.	10.0000	\$10.85	\$108.50	RSM10FAC M, O&P
185 23-07-13-10-7878	Duct thermal insulation, finishes, contact cement, quart can Used to glue/seal insulation	Ea.	10.0000	\$10.85	\$108.50	RSM10FAC M, O&P
186 23-09-53-10-5100	Control components, thermostats, locking cover	Ea.	3.0000	\$53.50	\$160.50	RSM11FAC M, L, O&P
187 23-09-53-10-5200	Control components, thermostats, 24 hour, automatic, clock	Ea.	3.0000	\$232.00	\$696.00	RSM11FAC Grn, M, L, O&P
188 23-23-13-10-8510	Valves, refrigeration valve, packless, soldered, 1/2"	Ea.	6.0000	\$58.50	\$351.00	RSM11FAC M, L, O&P
189 23-23-16-10-1020	Refrigerant piping component specialties, filter dryer, replaceable core type, solder, 1/2"	Ea.	4.0000	\$199.00	\$796.00	RSM11FAC M, L, O&P
190 23-23-16-10-5040	Refrigerant piping component specialties, sightglass, moisture and liquid indicator, solder, 1/2"	Ea.	4.0000	\$60.00	\$240.00	RSM11FAC M, L, O&P
191 23-23-23-20-4420	Refrigerant, refrigerant, R-22, 30 lb. disposable cylinder	Lb.	6.0000	\$13.75	\$82.50	RSM11FAC M, O&P
192 23-31-13-13-0570	Rectangular metal ducts, fabricated rectangular, including approximately 25% fittings, joints, supports, allowance for flexible connections, excluding insulation, fabrication and installation are combined as labor cost, galvanized steel, 2,000 to 5,000 lb.	Lb.	5,050.0000	\$7.25	\$36,612.50	RSM11FAC M, L, O&P
193 23-31-13-13-0570-0052	Rectangular metal ducts, add to labor for elevated installation of fabricated ductwork, 10' to 15' high (Modified using 23-31-13-13-0052)	Lb.	6,055.0000	\$0.25	\$1,513.75	RSM11FAC L, O&P
194 23-31-13-13-0570-1200	Rectangular metal ducts, for high pressure ductwork, add (Modified using 23-31-13-13-1200)	Lb.	6,055.0000	\$1.68	\$10,172.40	RSM11FAC L, O&P
195 23-31-13-13-0570-1210	Rectangular metal ducts, for welded ductwork, add (Modified using 23-31-13-13-1210)	Lb.	6,055.0000	\$3.58	\$21,676.90	RSM11FAC L, O&P
196 23-31-13-13-0570-5100	Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Lb.	6,055.0000	\$1.47	\$8,900.85	RSM11FAC L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

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

Item	Description	UM	Quantity	Unit Cost	Total	Book
197	23-33-13-13-5996 Volume control dampers, multi blade dampers, opposed blade, 10' x 10"	Ea.	29.0000	\$57.50	\$1,667.50	RSM10FAC M, L, O&P
198	23-33-13-13-5996-1080 Labor adjustment factors, add to labor for elevated installation, above floor level, 10' to 14.5' high (Modified using 22-01-02-20-1080)	Ea.	29.0000	\$1.97	\$57.13	RSM10FAC L, O&P
199	23-33-13-13-5996-5100 Labor adjustment factors, add to labor, miscellaneous, cramped shaft (Modified using 22-01-02-20-5100)	Ea.	29.0000	\$6.90	\$200.10	RSM10FAC L, O&P
200	23-33-46-10-2020 Flexible air ducts, flexible, coated fiberglass fabric on corrosion resistant metal helix, pressure to 12" water gauge, UL-181, insulated, 1" thick, polyethylene jacket, 10" diameter Flex Duct	L.F.	100.0000	\$11.75	\$1,175.00	RSM10FAC Grn, M, L, O&P
201	23-33-46-10-2020 Flexible air ducts, flexible, coated fiberglass fabric on corrosion resistant metal helix, pressure to 12" water gauge, UL-181, insulated, 1" thick, polyethylene jacket, 10" diameter Flex Duct	L.F.	45.0000	\$11.75	\$528.75	RSM10FAC Grn, M, L, O&P
202	23-33-46-10-2020-1283 Flexible air ducts, add to labor for elevated installation, of prefabricated purchased ductwork, 10' to 15' high (Modified using 23-33-46-10-1283) Flex Duct	L.F.	100.0000	\$0.51	\$51.00	RSM10FAC Grn, L, O&P
203	23-33-46-10-2020-1283 Flexible air ducts, add to labor for elevated installation, of prefabricated purchased ductwork, 10' to 15' high (Modified using 23-33-46-10-1283) Flex Duct	L.F.	45.0000	\$0.51	\$22.95	RSM10FAC Grn, L, O&P
204	23-33-53-10-3960 Duct liner board, board type, non-fibrous foam, temperature, bacteria and fungi resistant, 1" thick Acoustical liner for Duct	S.F.	1,000.0000	\$9.50	\$9,500.00	RSM10FAC Grn, M, L, O&P
205	23-33-53-10-3960 Duct liner board, board type, non-fibrous foam, temperature, bacteria and fungi resistant, 1" thick Acoustical liner for Duct	S.F.	450.0000	\$9.50	\$4,275.00	RSM10FAC Grn, M, L, O&P
206	23-34-14-10-2580 Blower type HVAC fans, ceiling fan, right angle, extra quiet, 0.10" static pressure, 885 CFM ef3 best fit allows damper curb sudries switches etc	Ea.	1.3333	\$910.00	\$1,213.03	RSM10FAC M, L, O&P
207	23-34-16-10-3540 Centrifugal type HVAC fans, centrifugal, airfoil, motor and drive, complete, 2,000 CFM, 1 H.P. allows for curbwithch damper tray and fit to existing ef 1 of 2 best fit line	Ea.	2.6660	\$2,775.00	\$7,398.15	RSM10FAC M, L, O&P
208	23-34-16-10-4680 Centrifugal type HVAC fans, corrosive fume resistant, plastic, roof ventilators, centrifugal, V belt drive, motor, 1/4" S.P., 2240 CFM, 1 HP best fit ef4	Ea.	1.3333	\$6,375.00	\$8,499.79	RSM10FAC M, L, O&P
209	23-37-13-10-2000 Diffusers, aluminum, opposed blade damper, ceiling, T bar mounting, 24" x 24" lay in frame, 6" x 6"	Ea.	35.0000	\$89.00	\$3,115.00	RSM10FAC M, L, O&P
210	23-37-13-10-2000-1080 Labor adjustment factors, add to labor for elevated installation, above floor level, 10' to 14.5' high (Modified using 22-01-02-20-1080)	Ea.	0.0000	\$2.60		RSM10FAC L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

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

Item	Description	U/M	Quantity	Unit Cost	Total	Book
211	23-37-13-30-6350 Grilles, steel door louver, with fire link, steel only, 12" x 18" best fit	Ea.	2.0000	\$244.00	\$488.00	RSM11FAC M, L, O&P
212	23-37-13-60-1080 Registers, air supply, ceiling or wall, opposed blade damper, anodized aluminum, Ea. one or two way deflection, adjustable curved face bars, 10" x 10"	Ea.	15.0000	\$91.50	\$1,372.50	RSM11FAC M, L, O&P
213	23-37-13-60-5280 Registers, air supply, air return, ceiling or wall, fixed 45° face blades, adjustable opposed blade damper, anodized aluminum, 24" x 24"	Ea.	4.0000	\$160.00	\$640.00	RSM11FAC M, L, O&P
214	23-37-13-60-5280-1100 Labor adjustment factors, add to labor for elevated installation, above floor level, 15' to 19.5' high (Modified using 22-01-02-20-1100)	Ea.	4.0000	\$7.50	\$30.00	RSM11FAC L, O&P
215	23-41-13-10-3100 Panel type air filters, mechanical media filtration units, high efficiency type, with MCFM frame, supported type	MCFM	6.0000	\$66.00	\$396.00	RSM10FAC Grn, M, O&P
216	23-41-13-10-3100 Panel type air filters, mechanical media filtration units, high efficiency type, with MCFM frame, supported type 95% Filter as spec'd 4.5"2 = 9.00	MCFM	9.0000	\$66.00	\$594.00	RSM10FAC Grn, M, O&P
217	23-54-24-10-4130-1200 Labor adjustment factors, add to labor for elevated installation, above floor level, 40' and higher (Modified using 22-01-02-20-1200)	Ea.	1.0000	\$27.50	\$27.50	RSM11FAC L, O&P
218	23-54-24-10-4150 Furnace components and combinations, air handler, modular, including heater, 12.5 KW, 42.7 MBH	Ea.	1.0000	\$925.00	\$925.00	RSM11FAC M, L, O&P
219	23-62-13-10-0400 Packaged air cooled refrigerant condensing units, condensing unit, air cooled, compressor, standard controls, 4 ton	Ea.	1.0000	\$3,350.00	\$3,350.00	RSM11FAC M, L, O&P
220	23-62-13-10-0550 Packaged air cooled refrigerant condensing units, condensing unit, air cooled, compressor, standard controls, 7.5 ton	Ea.	2.0000	\$6,175.00	\$12,350.00	RSM11FAC M, L, O&P
221	23-62-13-10-0550 Packaged air cooled refrigerant condensing units, condensing unit, air cooled, compressor, standard controls, 7.5 ton	Ea.	0.0000	\$6,175.00		RSM11FAC M, L, O&P
222	23-74-33-10-1120 Roof top air conditioners, including standard controls, curb, and economizer, single zone, electric cool, gas heat, 4 ton cooling, 95 MBH heating deduct for electric	Ea.	0.9700	\$6,650.00	\$6,450.50	RSM11FAC M, L, O&P
223	23-74-33-10-1120-1100 Labor adjustment factors, add to labor for elevated installation, above floor level, 15' to 19.5' high (Modified using 22-01-02-20-1100)	Ea.	1.0000	\$255.00	\$255.00	RSM11FAC L, O&P
23 - Heating, Ventilating, and Air-Conditioning (HVAC) Total					\$168,198.71	

26 - Electrical

224	26-05-05-10-1780 Electrical demolition, pull boxes and cabinets, receptacle and switch plates Demo of switches and "J" boxes	Ea.	78.0000	\$2.34	\$182.52	RSM10FAC L, O&P
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Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

26 - Electrical

Item	Description	UM	Quantity	Unit Cost	Total	Book
225	26-05-05-10-1840 Electrical demolition, wire, THW-THWN-THHN, removed from in place conduit, to C.L.F. 15' high, #12 Demo of existing wire		25.0000	\$10.95	\$273.75	RSM10FAC L, O&P
226	26-05-05-10-1840-9910 Electrical demolition, add to labor for higher elevated installation, 15' to 20' high, C.L.F. add (Modified using 26-05-05-10-9910) Demo of existing wire		25.0000	\$0.72	\$18.00	RSM10FAC L, O&P
227	26-05-05-10-2100 Electrical demolition, interior fluorescent fixtures, including supports and whips, to Ea. 15' high, recessed drop-in, 2' x 2', 2 lamp Demo of existing 2x2 fixtures		77.0000	\$34.50	\$2,656.50	RSM10FAC L, O&P
228	26-05-05-10-2100-9910 Electrical demolition, add to labor for higher elevated installation, 15' to 20' high, Ea. add (Modified using 26-05-05-10-9910) Demo of existing 2x2 fixtures		77.0000	\$2.25	\$173.25	RSM10FAC L, O&P
229	26-05-05-10-2480 Electrical demolition, interior incandescent, surface, ceiling or wall mount, to 12' Ea. high, metal cylinder type, 75 watt Demo of existing suspended HID fixtures		4.0000	\$19.45	\$77.80	RSM10FAC L, O&P
230	26-05-05-10-2480-9910 Electrical demolition, add to labor for higher elevated installation, 15' to 20' high, Ea. add (Modified using 26-05-05-10-9910) Demo of existing suspended HID fixtures		4.0000	\$1.27	\$5.08	RSM10FAC L, O&P
231	26-05-05-50-5850 Electrical demolition, lighting, fixture whip Whips for Exits lights and 2x2 fixtures 86+17 = 103.00	Ea.	77.0000	\$6.00	\$462.00	RSM10FAC L, O&P
232	26-05-19-35-0100 Cable terminations, terminal lugs, solderless, #8 to #4	Ea.	10.0000	\$21.50	\$215.00	RSM11FAC M, L, O&P
233	26-05-19-35-0350 Cable terminations, terminal lugs, solderless, 250 kcmil	Ea.	10.0000	\$73.00	\$730.00	RSM11FAC M, L, O&P
234	26-05-19-35-1640 Cable terminations, crimp 1 hole lugs, copper or aluminum, 600 volt, #10	Ea.	10.0000	\$14.35	\$143.50	RSM11FAC M, L, O&P
235	26-05-19-35-2000 Cable terminations, crimp 1 hole lugs, copper or aluminum, 600 volt, #4	Ea.	10.0000	\$28.00	\$280.00	RSM11FAC M, L, O&P
236	26-05-19-90-0120 Wire, 600 volt, copper type THW, stranded, #10	C.L.F.	40.0000	\$83.50	\$3,340.00	RSM11FAC M, L, O&P
237	26-05-19-90-0180 Wire, 600 volt, copper type THW, stranded, #4	C.L.F.	11.0000	\$211.00	\$2,321.00	RSM11FAC M, L, O&P
238	26-05-19-90-0220 Wire, 600 volt, copper type THW, stranded, #2	C.L.F.	2.0000	\$287.00	\$574.00	RSM11FAC M, L, O&P
239	26-05-19-90-0400 Wire, 600 volt, copper type THW, stranded, 250 kcmil	C.L.F.	12.0000	\$865.00	\$10,380.00	RSM11FAC M, L, O&P
240	26-05-29-20-6800 Hangers, channels, strap, EMT, 1-1/2" diameter Hangers and straps for conduit. (150+75+105)/10 = 33.00	Ea.	33.0000	\$4.69	\$154.77	RSM10FAC M, L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

26 - Electrical

Item	Description	UM	Quantity	Unit Cost	Total	Book
241	26-05-33-13-5080 Conduit, to 15' high, includes 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 L.F., electric metallic tubing (EMT), 1-1/2" diameter	L.F.	300.0000	\$10.85	\$3,255.00	RSM11FAC M, L, O&P
242	26-05-33-13-5100 Conduit, to 15' high, includes 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 L.F., electric metallic tubing (EMT), 2" diameter	L.F.	300.0000	\$12.90	\$3,870.00	RSM11FAC M, L, O&P
243	26-05-33-13-5140 Conduit, to 15' high, includes 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 L.F., electric metallic tubing (EMT), 3" diameter	L.F.	300.0000	\$27.00	\$8,100.00	RSM11FAC M, L, O&P
244	26-05-33-13-5280 Conduit, to 15' high, electric metallic tubing (EMT), field bends, 45° to 90°, 1-1/2" diameter	Ea.	4.0000	\$17.10	\$68.40	RSM11FAC L, O&P
245	26-05-33-13-5300 Conduit, to 15' high, electric metallic tubing (EMT), field bends, 45° to 90°, 2" diameter	Ea.	4.0000	\$23.50	\$94.00	RSM11FAC L, O&P
246	26-05-33-13-5400 Conduit, to 15' high, electric metallic tubing (EMT), field bends, offsets, 1-1/2" diameter	Ea.	4.0000	\$22.00	\$88.00	RSM11FAC L, O&P
247	26-05-33-13-5420 Conduit, to 15' high, electric metallic tubing (EMT), field bends, offsets, 2" diameter	Ea.	4.0000	\$31.00	\$124.00	RSM11FAC L, O&P
248	26-05-33-13-6280 Conduit, to 15' high, electric metallic tubing (EMT), couplings, set screw, steel, 1-1/2" diameter	Ea.	20.0000	\$15.90	\$318.00	RSM11FAC M, O&P
249	26-05-33-13-6300 Conduit, to 15' high, electric metallic tubing (EMT), couplings, set screw, steel, 2" diameter	Ea.	20.0000	\$21.00	\$420.00	RSM11FAC M, O&P
250	26-05-33-13-6580 Conduit, to 15' high, electric metallic tubing (EMT), box connectors, set screw, steel, 1-1/2" diameter	Ea.	20.0000	\$24.00	\$480.00	RSM11FAC M, L, O&P
251	26-05-33-13-6600 Conduit, to 15' high, electric metallic tubing (EMT), box connectors, set screw, steel, 2" diameter	Ea.	20.0000	\$31.00	\$620.00	RSM11FAC M, L, O&P
252	26-05-33-13-6640 Conduit, to 15' high, electric metallic tubing (EMT), box connectors, set screw, steel, 3" diameter	Ea.	10.0000	\$102.00	\$1,020.00	RSM11FAC M, L, O&P
253	26-05-33-13-7660 Conduit, to 15' high, electric metallic tubing (EMT), EMT, tee fittings with covers, set screw, 1-1/2" diameter	Ea.	10.0000	\$113.00	\$1,130.00	RSM11FAC M, L, O&P
254	26-05-33-13-7670 Conduit, to 15' high, electric metallic tubing (EMT), EMT, tee fittings with covers, set screw, 2" diameter	Ea.	10.0000	\$145.00	\$1,450.00	RSM11FAC M, L, O&P
255	26-05-33-13-8740 Conduit, to 15' high, electric metallic tubing (EMT), couplings, compression, steel, 1-1/2" diameter	Ea.	20.0000	\$32.50	\$650.00	RSM11FAC M, O&P
256	26-05-33-13-8750 Conduit, to 15' high, electric metallic tubing (EMT), couplings, compression, steel, 2" diameter	Ea.	20.0000	\$44.50	\$890.00	RSM11FAC M, O&P
257	26-05-33-13-8770 Conduit, to 15' high, electric metallic tubing (EMT), couplings, compression, steel, 3" diameter	Ea.	4.0000	\$249.00	\$996.00	RSM11FAC M, O&P
258	26-05-33-13-8840 Conduit, to 15' high, electric metallic tubing (EMT), box connectors, compression, steel, 1-1/2" diameter	Ea.	20.0000	\$31.00	\$620.00	RSM11FAC M, L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

26 - Electrical

Item	Description	UM	Quantity	Unit Cost	Total	Book
259	26-05-33-13-8850 Conduit, to 15' high, electric metallic tubing (EMT), box connectors, compression, Ea. steel, 2" diameter	Ea.	20.0000	\$41.50	\$830.00	RSM11FAC M, L, O&P
260	26-05-33-13-8870 Conduit, to 15' high, electric metallic tubing (EMT), box connectors, compression, Ea. steel, 3" diameter	Ea.	5.0000	\$139.00	\$695.00	RSM11FAC M, L, O&P
261	26-05-33-50-0150 Outlet boxes, pressed steel, square, 4" Electrical and fire alarm.	Ea.	20.0000	\$32.50	\$650.00	RSM10FAC M, L, O&P
262	26-05-33-50-0250 Outlet boxes, pressed steel, square, 4", covers, blank Electrical and fire alarm.	Ea.	20.0000	\$11.10	\$222.00	RSM10FAC M, L, O&P
263	26-05-33-95-0110 Cutting and drilling, hole drilling to 10' high, concrete wall, 8" thick, 1/2" pipe size dowelin	Ea.	10.0000	\$61.50	\$615.00	RSM11FAC M, L, E, O&P
264	26-24-16-20-0100 Panelboard and load center circuit breakers, bolt on, 10,000 amp I.C., 120 volt, 1 Ea. pole, 15 to 50 amp	Ea.	9.0000	\$78.00	\$702.00	RSM11FAC M, L, O&P
265	26-24-16-20-2020 Panelboard and load center circuit breakers, plug in panel or load center, 120/240 Ea. volt, to 60 amp, 3 pole	Ea.	1.0000	\$181.00	\$181.00	RSM11FAC M, L, O&P
266	26-24-16-30-0700 Panelboards commercial applications, NQOD, with 20 amp 1 pole bolt on circuit breakers, 4 wire, 120/208 volt, 100 amp main lugs, 20 circuits	Ea.	1.0000	\$1,850.00	\$1,850.00	RSM11FAC M, L, O&P
267	26-27-26-20-2460 Wiring devices elements, receptacle, duplex, 120 volt, grounded, 15 amp	Ea.	3.0000	\$16.90	\$50.70	RSM11FAC M, L, O&P
268	26-27-26-20-2482 Wiring devices elements, receptacle, duplex, ground fault interrupting, 20 amp	Ea.	33.0000	\$65.00	\$2,145.00	RSM11FAC M, L, O&P
269	26-27-26-20-2600 Wiring devices elements, wall plates, stainless steel, 1 gang	Ea.	47.0000	\$10.45	\$491.15	RSM11FAC M, L, O&P
270	26-28-16-20-0400 Safety switches, general duty, 240 volt, 3 pole, NEMA 1, fusible, 200 amp	Ea.	1.0000	\$1,300.00	\$1,300.00	RSM11FAC M, L, O&P
271	26-28-16-20-5520 Safety switches, heavy duty, 600 volt, 3 pole, NEMA 3R, fusible, 60 amp Ea.	Ea.	1.0000	\$985.00	\$985.00	RSM11FAC M, L, O&P
272	26-28-16-20-5900 Safety switches, heavy duty, 600 volt, 3 pole, NEMA 3R, nonfused, 60 amp	Ea.	1.0000	\$865.00	\$865.00	RSM11FAC M, L, O&P
273	26-51-13-50-0200 Interior lighting fixtures, including lamps, mounting hardware and connections, fluorescent, cool white lamps, troffer, recess mounted in grid, rapid start, acrylic lens, 1' wide x 4' long, two 40 watt	Ea.	5.0000	\$168.00	\$840.00	RSM11FAC M, L, O&P
274	26-51-13-50-0600 Interior lighting fixtures, including lamps, mounting hardware and connections, fluorescent, cool white lamps, troffer, recess mounted in grid, rapid start, acrylic lens, 2' wide x 4' long, four 40 watt	Ea.	78.0000	\$205.00	\$15,990.00	RSM11FAC M, L, O&P
275	26-51-13-50-5600 Interior lighting fixtures, including lamps, mounting hardware and connections, incandescent, wall, round, 100 watt	Ea.	0.0000	\$148.00	\$148.00	RSM11FAC M, L, O&P

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

26 - Electrical

Item	Description	UM	Quantity	Unit Cost	Total	Book
276	26-51-13-50-5600 Interior lighting fixtures, including lamps, mounting hardware and connections, incandescent, wall, round, 100 watt	Ea.	1.0000	\$148.00	\$148.00	RSM11FAC M, L, O&P
277	26-53-13-10-0240 Exit lighting fixtures, exit light ceiling or wall mount, L.E.D. with battery unit, single Ea. face Emergency Exit Lights	Ea.	13.0000	\$265.00	\$3,445.00	RSM10FAC Grn, M, L, O&P
278	26-61-13-10-0100 Energy saving lighting devices, occupancy sensors, passive infrared ceiling mounted	Ea.	23.0000	\$216.00	\$4,968.00	RSM11FAC Grn, M, L, O&P
279	26-61-13-10-0150 Energy saving lighting devices, automatic wall switches	Ea.	11.0000	\$97.50	\$1,072.50	RSM10FAC Grn, M, L, O&P
280	26-61-13-30-0360 Fixture whips, 3/8" greenfield, 2 connectors, 6' long, THHN wire, three #12 Fixture whips	Ea.	20.0000	\$33.50	\$670.00	RSM10FAC M, L, O&P

26 - Electrical Total

\$84,895.92

31 - Earthwork

281	31-22-16-10-1150 Finish grading, fine grade for slab on grade, hand grading	S.Y.	13.0000	\$1.50	\$19.50	RSM10FAC L, E, O&P, CCI 785 Q3 W&T
282	31-23-16-16-0100 Structural excavation for minor structures, hand, pits to 6' deep, heavy soil or clay B.C.Y.		143.0000	\$68.50	\$9,795.50	RSM11FAC L, B
283	31-23-16-16-1100 Structural excavation for minor structures, hand loading trucks from stock pile, sandy soil allows for expansion load excavation spoils for removal of spreading	B.C.Y.	6.0000	\$23.00	\$138.00	RSM11FAC L, B
284	31-23-23-13-0015-0300 Backfill, compaction in 6" layers, hand tamp, add to above (Modified using 31-23-23-13-0300)	E.C.Y.	6.0000	\$13.35	\$80.10	RSM11FAC L, B
285	31-23-23-16-0035 Fill by borrow and utility bedding, select fill for shoulders and embankments	L.C.Y.	5.0000	\$22.60	\$113.00	RSM11FAC M, L, E, B

31 - Earthwork Total

\$10,146.10

32 - Exterior Improvements

286	32-16-13-13-0300 Cast in place concrete curbs and gutters, forms only, no concrete, concrete, wood forms, 6" x 18", straight	L.F.	10.0000	\$6.06	\$60.60	RSM11FAC M, L, B
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32 - Exterior Improvements Total

\$60.60

33 - Utilities

287	33-11-13-45-2200 Water supply, copper pipe, excluding excavation or backfill, tubing, type K, 20" joints, 1" diameter 1/4" hvac piping allows for fittings hangers and insulation	L.F.	400.0000	\$14.75	\$5,900.00	RSM11FAC M, L, O&P
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Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

33 - Utilities

Item	Description	UM	Quantity	Unit Cost	Total	Book
288 33-31-13-25-2000	Sewage collection, polyvinyl chloride pipe, excluding excavation or backfill, 20' lengths, S.D.R. 35, bell and spigot, 4" diameter	L.F.	300.00000	\$6.05	\$1,815.00	RSM1FAC M, L, O&P
289 33-31-13-25-3120	Sewage collection, polyvinyl chloride pipe, excluding excavation or backfill, S.D.R. 35, bell and spigot, fittings, tees, 4" diameter	Ea.	10.00000	\$110.00	\$1,100.00	RSM1FAC M, L, O&P
290 33-31-13-25-3200	Sewage collection, polyvinyl chloride pipe, excluding excavation or backfill, S.D.R. 35, bell and spigot, fittings, wyes, 4" diameter	Ea.	20.00000	\$114.00	\$2,280.00	RSM1FAC M, L, O&P
291 33-36-13-10-0015	Septic tanks, excluding excavation or backfill, septic tanks, precast, 1,000 gallon liv sampling well	Ea.	1.00000	\$1,200.00	\$1,200.00	RSM1FAC M, L, E, O&P

33 - Utilities Total

\$12,295.00

Alternates

292 01-55-23-50-1001	Ramp install L4V labor only from 1000 Roads and sidewalks, temporary, ramp, 3/4" plywood, on 2" x 6" joists, 16" O.C.	S.F.	20.00000	\$2.30	\$46.00	CUSTOM L, B
293 01-93-13-15-0101	Air conditioning system maintenance No direct pricing system check for operation units not removed n = *FORMULA ERROR*	Job	1.00000	\$3,400.00	\$3,400.00	CUSTOM M, L, B
294 08-14-33-20-6101	Folding accordion, closet, including track and frame No direct pricing No = *FORMULA ERROR*	Ea.	1.00000	\$45.00	\$45.00	CUSTOM L, B
295 08-31-13-10-6151	Types of framed access doors, standard door, metal, 12" x 12" Demo 50% of labor as suggested by RS Means	Ea.	8.00000	\$17.25	\$138.00	CUSTOM L, B
296 083463131001	Demo detention doors as allowed and instructed by means 50% of installion labor (0834731000)	Each	12.00000	\$190.00	\$2,280.00	CUSTOM L
297 09-21-16-33-5402	(Credits 1 side drywall) Partition wall, stud wall, 8' to 12' high, 5/8" interior, gypsum board, water resistant, tape and finish 1 sides, installed on and including, metal studs, non load bearing, 25 gauge, 16" O.C., 6" wide partition wall for chases credits 1 side drywall	S.F.	1,200.00000	\$2.51	\$3,012.00	CUSTOM M, L, B
298 100000000000	Favorable Buyout Discount Extended discount to client due to favorable buyout	Job	1.00000	\$-(84,279.00)	\$(84,279.00)	CUSTOM M, L
299 11-76-10-10-5000	L4V work station sink labor and allows sundries Surgical equipment, scrub, surgical, stainless steel, single station, minimum	Ea.	5.00000	\$243.00	\$1,215.00	CUSTOM M, L, B
300 11-76-10-10-5001	Surgical equipment, scrub, surgical, stainless steel, single station, closest fit for autopsy sink labor only adjusted for size allows for sundries etc for install	Ea.	4.00000	\$375.00	\$1,500.00	CUSTOM M, L, B
301 11-78-13-10-0022	Mortuary and autopsy equipment, autopsy table, deluxe	Ea.	5.00000	\$915.00	\$4,575.00	CUSTOM M, L, B
302 11-78-13-10-3200	Mortuary and autopsy equipment, mortuary refrigerator, end operated, two capacity no labor in book price for labor input	Ea.	1.00000	\$3,500.00	\$3,500.00	CUSTOM L, B

Preliminary Estimate, by estimates

Hidalgo County Autopsy Facility

Estimator:

Alternates

Item	Description	UM	Quantity	Unit Cost	Total	Book
303	allows for assembly, install, havac service startup and staging Adjusted to labor only allows for materials and sundries for install Refrigeration, rule of thumb for complete units, excluding doors and refrigeration, cooler	SF Fir.	704.0000	\$14.72	\$10,362.88	CUSTOM M, L, B
304	L4f hose reel install from 3000	Ea.	4.0000	\$84.20	\$336.80	CUSTOM L, O&P
305	Plumbing demolition, fixtures, including 10' piping, water fountains, free standing	Ea.	1.0000	\$350.00	\$350.00	CUSTOM M, L, B
306	Sinks, for rough-in, supply, waste & vent, sinks (Modified using 22-41-16-30-5790)	Ea.	1.0000	\$207.50	\$207.50	CUSTOM L, B
307	Service sinks, for rough-in reversal abandon in place, supply, waste and vent, wall service sinks (Modified using 22-42-16-40-8980)	Ea.	1.0000	\$297.50	\$297.50	CUSTOM L, B
308	Service sinks, service, wall, porcelain enamel on cast iron, roll rim, 22" x 18" demo 50% labor Per RS means	Ea.	1.0000	\$96.50	\$96.50	CUSTOM L, B
309	Plug and abandon in place Demolition for unlisted Security Plumbing Fixture 50% Ea. of install labor as suggested by RSmeans 223613546300 DX and deleting service revese rough in	Ea.	13.0000	\$385.00	\$5,005.00	CUSTOM L, B
310	Demolition for unlisted Security Plumbing Fixture 50% of install labor as suggested by RSmeans	Each	13.0000	\$75.00	\$975.00	CUSTOM L
311	Grilles, aluminum, transfer grille, vision proof, 8" x 4" labor 50% demo dx transfer ducts L4V LV/ DX transfer duct	Ea.	8.0000	\$10.70	\$85.60	CUSTOM L, O&P
312	Electrical Service existing systems check gen set panels condutors disconnects etc	Job	1.0000	\$3,500.00	\$3,500.00	CUSTOM M, L

Alternates Total

\$(43,351.22)

Estimate Grand Total

488,857.70