

Miami University

Miami University – Bachelor Hall Renovation

GMP #2 – 06/15/2023

GMP and Exhibits

Design/Builder

Messer Construction Co.
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937/291-1300

Project Architect

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Civil Engineer/Landscape Architect

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Environmental Consultant

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**MIAMI
UNIVERSITY**
O X F O R D O H I O

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Document 00 53 53 - GMP Amendment (University Design-Build Project)

State of Ohio Standard Requirements for Public Facility Construction

GMP Amendment No. 2

The State of Ohio, acting by and through the Contracting Authority, and the DB enter into this Amendment as of the date set forth below to amend the Contract they entered into as of **August 16, 2022** in connection with the Project known as:

Project Number: MUN-100095

Project Name: Miami University Bachelor Hall Renovation

Owner ("University"): Miami University

Contracting Authority: The University above

Design-Builder ("DB"): Messer Construction Co.

ARTICLE 1 - CONTRACT SUM AND RELATED ITEMS FOR THIS AMENDMENT

1.1 The Contract Sum is **\$57,224,474** which is the sum of the estimated Cost of the Work, plus the DB's Contingency, plus the Construction Stage Design-Services Fee, plus the DB's Fee as follows:

1.1.1 The estimated Cost of the Work is **\$53,134,391**, which includes all Allowances (if any) and Unit Prices (if any) defined through this Amendment, and is the sum of:

1.1.1.1 DB's Construction Stage Personnel Costs in the amount of **\$2,113,779**, which amount shall not exceed **\$2,702,223**; Please refer to the Exhibit F Staffing Plan.

- .1 Since the date of the Proposal, the scope of the Construction Stage Personnel Costs has been increased as follows: Increased Scope from the original proposal which was based on a \$48,000,000 scope.
- .2 On account of the increase in Scope of the Construction Stage Personnel Costs, The Construction Stage Personnel Cost Cap stated in the Agreement has hereby changed to \$2,702,223.

1.1.1.2 General Conditions Costs in the amount of **\$1,829,047**. Please refer to general conditions cost breakdown in Exhibit C.

- .1 Since the date of the Proposal, the scope of the General Conditions Work has been increased as follows: Increased Scope from the original proposal which was based on a \$48,000,000 scope.
- .2 On account of the increase in Scope of the General Conditions Work, The General Conditions Cost Cap stated in the Agreement has hereby changed to \$1,957,970.

1.1.1.3 All Work the DB proposes to provide through Subcontractors in the amount of **\$48,991,565**.

1.1.1.4 All Work the DB proposes to self-perform directly or through a DB Affiliated Entity in the amount of **\$200,000**, which amount does not include any costs accounted for under the DB's Construction Stage Personnel Costs or General Conditions Costs.

1.1.2 The DB's Contingency in the amount of **\$1,461,196**, which shall not exceed **2.75** percent of the above-identified Cost of the Work.

1.1.3 The Construction Stage Design-Services Fee in the amount of **\$1,091,912**, which shall not exceed **2.00** percent of the sum of the above-identified Cost of the Work plus the above-identified DB's Contingency.

1.1.4 The DB's Fee in the amount of **\$1,536,975**, which shall not exceed **2.76** percent of the sum of the Cost of the Work plus the DB's Contingency plus the Construction Stage Design-Services Fee, all as identified above.

1.2 Recap of Contract Sum and Related Items:

Compensation Component Description refer to complete description in the Section of this GMP Amendment referenced below	Current Amount before execution of this GMP Amendment	Increase(Decrease) amount added to or (deducted from) Current Amount	Amended Amount after execution of this GMP Amendment
1.1 Contract Sum	\$1,871,326	\$57,224,474	\$59,095,800
1.1.1 Estimated Cost of the Work	\$1,738,595	\$53,134,391	\$54,872,986
1.1.1.1 Personnel Costs	\$588,444	\$2,113,779	\$2,702,223
1.1.1.2 General Conditions Costs	\$128,923	\$1,829,047	\$1,957,970
1.1.1.3 Subcontracted Work	\$902,147	\$48,991,565	\$49,893,712
1.1.1.4 Self-performed Work	\$119,081	\$200,000	\$319,081
1.1.2 DB's Contingency	\$47,399	\$1,461,196	\$1,508,595
1.1.3 Design-Services Fee	\$35,420	\$1,091,912	\$1,127,332
1.1.4 DB's Fee	\$49,912	\$1,536,975	\$1,586,887

1.3 The DB's total compensation shall include the DB's Preconstruction Stage Compensation plus the amended amount of the Contract Sum identified in the table above.

1.4 The penal sum of the DB's Bonds shall equal 100 percent of the DB's total compensation minus the DB's Preconstruction Stage Design Services Fee and minus the amended amount of the Design Services Fee identified in the table above.

ARTICLE 2 – CONTRACT TIMES

2.1 The Contract Times are the periods established in the following table for the achievement of the associated Milestones:

Construction Stage Milestone(s) to which Liquidated Damages apply	Calendar Days	Projected Date (as of the date of this GMP Amendment)
Abatement Complete		12/11/2024
Atrium Dry In		08/01/2025
Systems Ready for Building Commissioning		09/04/2025
Permanent Power		09/04/2025
Owner Control of MCR/Telecom Room		10/03/2025
Substantial Completion (Building Occupancy)		12/12/2025

2.1.1 Calendar Days are provided only for convenient reference. The dates listed under "Projected Date" define the Contract Time and take precedence over the duration of calendar days.

ARTICLE 3 - LIST OF EXHIBITS

3.1 This Amendment is based upon the following documents:

3.1.1 Basis Documents attached as **GMP Exhibit A**;

3.1.2 Assumptions and Clarifications attached as **GMP Exhibit B**;

3.1.3 Project Estimate attached as **GMP Exhibit C**;

3.1.4 Project Schedule attached as **GMP Exhibit D&E**;

3.1.5 Staffing Plan attached as **GMP Exhibit F**;

- 3.1.6 Subcontractor Work Scopes** attached as **GMP Exhibit G**;
- 3.1.7 Scope of DB's Self-Performed Work** attached as **GMP Exhibit H**;
- 3.1.8 Schedule of Allowances** attached as **GMP Exhibit I** (*if applicable*);
- 3.1.9 Schedule of Unit Prices** attached as **GMP Exhibit J** (*if applicable*);
- 3.1.10 Schedule of Alternates** attached as **GMP Exhibit K** (*if applicable*); and
- 3.1.11 Schedule of Incentives and Shared Savings** attached as **GMP Exhibit L** (*if applicable*).

SIGNATURES

IN WITNESS WHEREOF, the parties hereto have executed this Amendment as of the date set forth below:

Messer Construction Co.



Signature

Matt Schnelle

Printed Name

Vice President

Title

OWNER

DocuSigned by:
David Creamer

DEED5A91C47E496...

Signature

Dr. David K. Creamer

Printed Name

Senior Vice President of Finance and Business
Services

Title

7/21/2023

Date

END OF DOCUMENT



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4801 Hempstead Station Drive
Dayton, OH 45429-5156
(937) 291-1300 Phone
(937) 291-4900 Fax
www.messer.com

Project Number: MUN-100095

Project Name: Miami University Bachelor Hall Renovation: GMP #2

GMP Exhibit A: Basis Documents

1. BSA specifications dated May 1st, 2023; Volumes 2-5.
2. BSA BP2 – 85% GMP Design Intent Document dated June 2nd, 2023
3. BSA 85% GMP documents dated May 1st, 2023. Drawings included are the following:
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 - G000 COVER SHEET
 - G001 COMPOSITE PLANS
 - G010 SHEET INDEX
 - G200 PROJECT AND CODE SUMMARY
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 - G211 LIFE-SAFETY PLAN - FIRST FLOOR
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 - HM100 HAZARDOUS MATERIALS ABATEMENT PLANS - GROUND LEVEL
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 - E200A GROUND FLOOR LIGHTING PLAN - AREAS A AND C
 - E200B GROUND FLOOR LIGHTING PLAN - AREA B
 - E210A FIRST FLOOR LIGHTING PLAN - AREAS A AND C
 - E210B FIRST FLOOR LIGHTING PLAN - AREA B
 - E220A SECOND FLOOR LIGHTING PLAN - AREA A
 - E220B SECOND FLOOR LIGHTING PLAN - AREA B
 - E230A THIRD FLOOR LIGHTING PLAN - AREA A
 - E230B THIRD FLOOR LIGHTING PLAN - AREA B
 - E240A ATTIC FLOOR LIGHTING PLAN - AREA A
 - E240B ATTIC FLOOR LIGHTING PLAN - AREA B
 - E300A GROUND FLOOR POWER PLAN - AREAS A AND C
 - E300B GROUND FLOOR POWER PLAN - AREA B
 - E310A FIRST FLOOR POWER PLAN - AREAS A AND C
 - E310B FIRST FLOOR POWER PLAN - AREA B
 - E320A SECOND FLOOR POWER PLAN - AREA A
 - E320B SECOND FLOOR POWER PLAN - AREA B
 - E330A THIRD FLOOR POWER PLAN - AREA A
 - E330B THIRD FLOOR POWER PLAN - AREA B
 - E340A ATTIC FLOOR POWER PLAN - AREA A
 - E350B ROOF POWER PLAN - AREA B
 - E500 ELECTRICAL ENLARGED PLANS
 - E501 ELECTRICAL GROUNDING PLAN
 - E502 ELECTRICAL LIGHTNING PROTECTION PLAN
 - E510A GROUND FLOOR CONDUIT ROUTING PLAN - AREA C
 - E510B GROUND FLOOR CONDUIT ROUTING PLAN - AREA B
 - E511B FIRST FLOOR CONDUIT ROUTING PLAN - AREA B
 - E512B SECOND FLOOR CONDUIT ROUTING PLAN - AREA B
 - E513B THIRD FLOOR CONDUIT ROUTING PLAN - AREA B
 - E600 ELECTRICAL SCHEDULES
 - E601 ELECTRICAL DISTRIBUTION PANEL SCHEDULES
 - E602 GROUND FLOOR NORMAL PANELBOARD SCHEDULES
 - E603 GROUND FLOOR NORMAL PANELBOARD SCHEDULES
 - E604 GROUND FLOOR EMERGENCY PANELBOARD SCHEDULES
 - E605 FIRST FLOOR PANELBOARD SCHEDULES
 - E606 SECOND FLOOR PANELBOARD SCHEDULES
 - E607 THIRD FLOOR PANELBOARD SCHEDULES
 - E650 LIGHT FIXTURE SCHEDULE
 - E700 NORMAL POWER RISER DIAGRAM
 - E701 EMERGENCY POWER RISER DIAGRAM
 - E702 ELECTRICAL GROUNDING SCHEMATIC
 - E800 ELECTRICAL DETAILS
 - E801 ELECTRICAL DETAILS
- 06.1 – FIRE ALARM
 - FA001 FIRE ALARM LEGEND, NOTES AND RISER DIAGRAM

- FA120A FIRE ALARM PLAN - GROUND FLOOR AREA A
- FA120B FIRE ALARM PLAN - GROUND FLOOR AREA B
- FA121A FIRE ALARM PLAN - FIRST FLOOR AREA A AND C
- FA121B FIRE ALARM PLAN - FIRST FLOOR AREA B
- FA122A FIRE ALARM PLAN - SECOND FLOOR AREA A AND C
- FA122B FIRE ALARM PLAN - SECOND FLOOR AREA B
- FA123A FIRE ALARM PLAN - THIRD FLOOR AREA A AND C
- FA123B FIRE ALARM PLAN - THIRD FLOOR AREA B
- FA124A FIRE ALARM PLAN - ATTIC FLOOR AREA A
- 07.0 – TECHNOLOGY & SECURITY
 - T001 TECHNOLOGY INFRASTRUCTURE LEGENDS AND NOTES
 - T002 TECHNOLOGY INFRASTRUCTURE LEGENDS AND LEGEND NOTES
 - T003 TECHNOLOGY INFRASTRUCTURE LEGENDS AND SCHEDULES
 - T120A TECHNOLOGY INFRASTRUCTURE PLAN - GROUND FLOOR - AREA A AND C
 - T120B TECHNOLOGY INFRASTRUCTURE PLAN - GROUND FLOOR - AREA B
 - T121A TECHNOLOGY INFRASTRUCTURE PLAN - FIRST FLOOR - AREA A AND C
 - T121B TECHNOLOGY INFRASTRUCTURE PLAN - FIRST FLOOR - AREA B
 - T122A TECHNOLOGY INFRASTRUCTURE PLAN - SECOND FLOOR - AREA A
 - T122B TECHNOLOGY INFRASTRUCTURE PLAN - SECOND FLOOR - AREA B
 - T123A TECHNOLOGY INFRASTRUCTURE PLAN - THIRD FLOOR - AREA A
 - T123B TECHNOLOGY INFRASTRUCTURE PLAN - THIRD FLOOR - AREA B
 - T125A TECHNOLOGY INFRASTRUCTURE PLAN - ROOF - AREA A
 - T130A TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - GROUND FLOOR - AREA A AND C
 - T130B TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - GROUND FLOOR - AREA B
 - T131A TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - FIRST FLOOR - AREA A AND C
 - T131B TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - FIRST FLOOR - AREA B
 - T132A TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - SECOND FLOOR - AREA A
 - T132B TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - SECOND FLOOR - AREA B
 - T133A TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - THIRD FLOOR - AREA A
 - T133B TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - THIRD FLOOR - AREA B
 - T140A TELECOM PLAN - GROUND FLOOR - AREA A AND C
 - T140B TELECOM PLAN - GROUND FLOOR - AREA B
 - T141A TELECOM PLAN - FIRST FLOOR - AREA A AND C
 - T141B TELECOM PLAN - FIRST FLOOR - AREA B
 - T142A TELECOM PLAN - SECOND FLOOR - AREA A
 - T142B TELECOM PLAN - SECOND FLOOR - AREA B
 - T143A TELECOM PLAN - THIRD FLOOR - AREA A
 - T143B TELECOM PLAN - THIRD FLOOR - AREA B
 - T145A TELECOM PLAN - ROOF - AREA A
 - T401 TELECOM ENLARGED PLANS AND ELEVATIONS
 - T501 AUDIOVISUAL INFRASTRUCTURE ROOM RISERS

- T502 AUDIOVISUAL INFRASTRUCTURE ROOM RISERS
- T503 AUDIOVISUAL INFRASTRUCTURE ROOM RISERS
- T601 TELECOM BUILDING RISER
- T602 TYPICAL TELECOM RISER
- T801 TECHNOLOGY INFRASTRUCTURE DETAILS
- T802 TECHNOLOGY INFRASTRUCTURE DETAILS
- Y001 SECURITY SYMBOLS LEGEND, NOTES AND SCHEDULES
- Y120A SECURITY PLAN - GROUND FLOOR - AREA A AND C
- Y120B SECURITY PLAN - GROUND FLOOR - AREA B
- Y121A SECURITY PLAN - FIRST FLOOR - AREA A AND C
- Y121B SECURITY PLAN - FIRST FLOOR - AREA B
- Y122A SECURITY PLAN - SECOND FLOOR - AREA A
- Y122B SECURITY PLAN - SECOND FLOOR - AREA B
- Y123A SECURITY PLAN - THIRD FLOOR - AREA A
- Y123B SECURITY PLAN - THIRD FLOOR - AREA B
- Y125A SECURITY PLAN - ROOF - AREA A



Messer Construction Co
4801 Hempstead Station Dr.
Dayton, OH 45429
(937) 291-1300 Telephone

Project Number: MUN-100095

Project Name: Miami University Bachelor Hall Renovation

GMP EXHIBIT B: Assumptions and Clarifications – June 2st, 2023

General Clarifications -

1. GMP does not include furniture, fixtures, and equipment assumed to be provided by the owner.
2. GMP does not include tap and capacity fees.
3. GMP includes material testing and inspections.
4. GMP does not include third party commissioning.
5. The “Buy Out Savings” referenced in section 9.2.5.1 of the general conditions of the contract is understood to be net buy-out savings after the award of all subcontracts.
6. Utility consumption costs during construction are to be paid for by Messer Construction Company (MCC) until the date of Substantial Completion. The owner’s commissioning agent shall commission the MEP systems in accordance with MCC schedule and shall not delay MCC in achieving substantial completion. This is contingent on the Owner’s commissioning agent and as well as MCC's balancing and testing agent and related BAU sub contractors meeting their schedule obligations as defined and agreed to by all parties as part of the CPM Schedule management as defined per the General Conditions. MCC and the Commissioning Agent must be in agreement of the schedule. If there are inefficiencies in the operation of the MEP systems after the date of substantial completion that are attributed to MCC not being complete with contractual work which therefore reduces the efficiency of the equipment, MCC shall be responsible for any associated premium utility consumption charges. The premium charges are defined as the marginal (additional) utility consumption cost that may exist because of construction related inefficiencies. The latest approved energy model will serve as the base line measure against any inefficiencies due to the system not being complete. Should any extreme weather days or unforeseen contributing factor(s) impact the model assumptions, the engineer of record will establish any baseline energy model adjustments should a question of measure of premium value arise. Messer and the University must be in agreement on the accuracy of the energy model.
7. GMP is based on pricing and material lead times known at the time of bidding. Any increases to contract sum or time based on unforeseen market conditions will require documentation to that effect and must be approved by the owner.
8. Notwithstanding anything contrary in the Contract Documents, General Conditions and General Requirements Costs shall be included in the Schedule of Values and listed as separate line items. Payment Requests, which may be submitted and paid on a percent-complete basis, shall be based on the Schedule of Values current as of the date that Payment Request is submitted. The DB shall provide documentation to substantiate the payment of any line item General Conditions / Temporary Provision Costs as requested by the Owner. To the extent that any General Conditions Costs item included on a Payment Request exceeds the amount set forth for such item on the Schedule of Values, the DB may utilize DB Contingency (subject to the Owner’s concurrence) to fund the difference. In addition, any savings in General Conditions at the end of the project will be returned to the Owner.



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9. Craft (hourly personnel) charges for the above mentioned General Conditions cost shall be billed based on the fixed hourly rates as set forth in the Exhibit D of the agreement form.
10. Due to the unique nature of the intake dormer construction at the roof, the self-performed work proposed in the amount of \$200,000 satisfies the requirements of General Conditions section 4.1.1.3.
11. Definition of Milestone Activities
 - a. Hazardous Abatement: Abatement substantially complete that allows critical path successor activities to proceed.
 - b. Atrium Dry-in Complete: The atrium is in a weather tight state such that critical path successor activities can proceed.
 - c. System Ready for Building Commissioning to Commence: Permanent building systems are completed to a point to allow the commissioning process to begin and proceed in a timely manner.
 - d. Permanent Power: Building permanent power has been energized to the switchgear.
 - e. Owner Control of MCR/Telecom Room
 - i. All data lines terminated, tested with database that meets Miami's requirements
 - ii. HVAC and electrical systems in place and functioning to sustain temperature and humidity control
 - iii. Lockable doors and specified hardware in place
 - iv. Final cleaning of Telecom Room
 - v. Access Control is not complete and will be ongoing.
 - f. Building Substantial Completion: Per the contract and including all exterior hardscapes, irrigation, and landscaping

Division 03 – Concrete

1. GMP assumes 5" slab on grade where new slabs are installed.
2. GMP does not include doweling pile caps into existing foundation.

Division 05 – Steel

1. GMP does not include replacing stair rails in existing stairs. GMP does include refinishing the wood rail cap.
2. GMP includes 5 tons for HSS members in atrium walls spanning between columns.

Division 06 – Rough & Finish Carpentry

1. GMP is based on an open specification (not a specified manufacturer) for glass doors at display cabinets.
2. GMP is based on leaving the existing cupola in place. An allowance of \$75,000 has been included for misc. wood exterior trim repairs (cupola, cornice, fascia, and dormers).

Division 07 – Thermal & Moisture Protection

1. GMP does not include intumescent coatings.
2. GMP includes spray applied fireproofing at new steel structure rated assemblies.



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3. GMP does not include new insulation in existing attic space. Add alternate to provide new insulation at the floor level in attic of areas B&C is included in Alternates list.

Division 8 – Openings

1. GMP includes HM frames at all interior storefront locations (excluding frameless locations).
2. GMP does not include any fire rated storefront.
3. GMP includes only the installation of AD card reader locksets. The Owner is to furnish AD card reader locksets.

Division 9 - Finishes

1. GMP includes furring out existing atrium walls to 6" above ceiling, spray foam is not included at these walls.
2. GMP does not include any new finishes in the attic space aside from epoxy floors under air handling units.
3. GMP includes 2' tall abuse resistant drywall in corridors only.
4. GMP is based on Daltile Liberty Black product being an approved material for the quartz wall paneling in addition to the Cambria product.

Division 10 – Specialties

1. GMP does not include fall protection system at the roof, one is not shown on drawings. Add alternate to provide a fall protection system has been included in the Alternates List.
2. GMP assumes the existing exterior sign is to remain as is and GMP does not include new exterior building signage or site signage.
3. GMP is based on standard marker boards everywhere in lieu of glass marker boards except for the Humanities Center Space that remains as glass. An alternate to provide glass marker boards in Rooms 1042 Great Room, 2073 Bachelor Reading Room, and 3002 Havinghurst Tech Classroom in lieu of standard marker boards has been included in the Alternates List.

Division 11 – Equipment

1. GMP does not include new studio control equipment, relocation of existing equipment, or control room furniture.
2. GMP includes the cost to disassemble, relocate, and re-install existing MJF studio lighting grid. Refurbishment is not included.

Division 12 – Furniture

1. GMP includes removing theatrical curtain from Williams Hall and re-installing in new MJF studio in Bachelor Hall. Refurbishment of curtain is not included.
2. GMP does not include any new theatrical curtains.
3. GMP does not include any motorized shades.

Division 21 – Fire Suppression

1. GMP does not include a fire pump. Adequate water pressure is assumed.



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Division 22 - Plumbing

1. GMP does not include a booster pump. Adequate water pressure is assumed.

Division 23 – HVAC

Division 26 - Electrical

1. GMP does not include purchase cost of unit substation (included in previous GMP1).

Division 27- Communications

1. GMP includes a \$1,997,100 allowance for Data and A/V systems. Allowance is intended to cover purchase and installation of devices, monitors, wiring, and all equipment. Allowance does not include purchase or installation of projection screens, which are included elsewhere in the GMP.
2. GMP does not include a public address sound system.
3. GMP includes cabling and conduits for WAPs, device is assumed to be furnished by Owner.

Division 32 – Exterior Improvements

1. GMP includes site walls, stairs, and sod at south plaza space. Pavers, trees, and benches are part of the alternate pricing.
- ~~2.~~ GMP includes cleaning and repairing existing gates at breezeway.
3. GMP includes irrigation as per the Design Intent Statement. Alternates have been included for additional irrigation around Bachelor Hall and the 4" back feed to Cook Field. GMP only includes 4" line to 5'-0" outside of building.
4. GMP assumes there is adequate pressure for the 4" line that back-feeds irrigation to Cook Field and no additional pump is required.

Division 33 – Utilities

1. GMP does not include conduit for new fiber lines on site. Lines are to be run in existing conduit on site.



Miami - Bachelor Hall
Oxford, OH
GMP Estimate

Date Submitted: 6.2.23
Run Time: 9:03 AM
Gross Building Area: 115,290
Estimate No.: 22-0234

	Group	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
1	0200.000	DIVISION 2 - EXISTING CONDITIONS	115,290.00 GSF	21.37 /GSF	2,463,795
2	0300.000	DIVISION 3 - CONCRETE	115,290.00 GSF	10.88 /GSF	1,254,419
3	0400.000	DIVISION 4 - MASONRY	115,290.00 GSF	13.38 /GSF	1,542,168
4	0500.000	DIVISION 5 - METALS	115,290.00 GSF	20.99 /GSF	2,419,658
5	0600.000	DIVISION 6 - WOOD, PLASTICS & COMPOSITES	115,290.00 GSF	16.98 /GSF	1,957,834
6	0700.000	DIVISION 7 - THERMAL & MOISTURE PROTECTION	115,290.00 GSF	7.02 /GSF	809,317
7	0800.000	DIVISION 8 - OPENINGS	115,290.00 GSF	36.56 /GSF	4,215,060
8	0900.000	DIVISION 9 - FINISHES	115,290.00 GSF	62.20 /GSF	7,170,685
9	1000.000	DIVISION 10 - SPECIALTIES	115,290.00 GSF	2.88 /GSF	331,461
10	1100.000	DIVISION 11 - EQUIPMENT	115,290.00 GSF	0.74 /GSF	84,946
11	1200.000	DIVISION 12 - FURNISHINGS	115,290.00 GSF	0.80 /GSF	92,098
12	1400.000	DIVISION 14 - CONVEYING EQUIPMENT	115,290.00 GSF	5.39 /GSF	620,996
13	2100.000	DIVISION 21 - FIRE SUPPRESSION	115,290.00 GSF	9.14 /GSF	1,053,715
14	2200.000	DIVISION 22 - PLUMBING	115,290.00 GSF	11.96 /GSF	1,379,016
15	2300.000	DIVISION 23 - HVAC	115,290.00 GSF	73.36 /GSF	8,457,224
16	2600.000	DIVISION 26 - ELECTRICAL	115,290.00 GSF	39.01 /GSF	4,496,915
17	2700.000	DIVISION 27 - COMMUNICATIONS	115,290.00 GSF	27.56 /GSF	3,177,098
18	2800.000	DIVISION 28 - ELECTRONIC SAFETY & SECURITY	115,290.00 GSF	3.28 /GSF	378,594
19	3100.000	DIVISION 31 - EARTHWORK	115,290.00 GSF	15.01 /GSF	1,730,178
20	3200.000	DIVISION 32 - EXTERIOR IMPROVEMENTS	115,290.00 GSF	8.93 /GSF	1,029,642
21	3300.000	DIVISION 33 - UTILITIES	115,290.00 GSF	13.16 /GSF	1,517,758
22	9920.000	DIVISION 99 - PROJECT REQUIREMENTS	115,290.00 GSF	4.95 /GSF	571,165

Estimate Totals

Description	Amount	Totals	Rate
		46,753,740	
Design Contingency			
Estimating Contingency			
		46,753,740	
Sub Default Insur. (SDI)	579,746		1.240 %
	579,746	47,333,486	
Construction Stage Personnel	2,113,779		
State General Conditions	206,900		
General Requirements	1,193,100		
	3,513,779	50,847,265	
Corporate Activity Tax (CAT) (In Fee)			
Contractor Control Ins.(CCIP)	1,858,079		3.247 %
Bond	366,100		0.720 %
Builder's Risk Insurance	62,947		0.110 %
	2,287,126	53,134,391	
DB Contingency	1,461,196		2.750 %
	1,461,196	54,595,587	
Construction Stage Design (CA)	1,091,912		2.000 %
	1,091,912	55,687,499	
DB Fee	1,536,975		2.760 %
	1,536,975	57,224,474	
Enabling Work (Below)		57,224,474	
Total		57,224,474	



Miami - Bachelor Hall
Oxford,OH
GMP Estimate - Draft

Date Submitted: 6.2.23
Run Time: 9:05 AM
Gross Building Area: 115,290
Estimate No.: 22-0234

	Group	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
1	0200.000	DIVISION 2 - EXISTING CONDITIONS			
2		Site Demolition			
3		Sawcut asphalt	1,300.00 lf	2.12 /lf	2,760
4		Sawcut concrete	200.00 lf	3.18 /lf	637
5		Remove site pavement	700.00 sy	8.49 /sy	5,945
6		Landscape demo	1.00 ls	21,230.62 /ls	21,231
7		Demo breezeway slab/pavers, prep for topping	3,000.00 sf	3.18 /sf	9,554
8		Remove curbing	400.00 lf	1.06 /lf	425
9		Demo portico	1.00 ls	5,307.66 /ls	5,308
10		Demo courtyard - trees, sidewalks, area wells, etc., haul off	7,400.00 sf	3.90 /sf	28,857
11		Remove sidewalks	8,440.00 sf	2.65 /sf	22,398
12		Remove sidewalks - fire lane	9,461.00 sf	2.65 /sf	25,108
13		Demo building exterior stairs	100.00 sf	15.92 /sf	1,592
14		Demo fire hydrant	1.00 ls	5,307.66 /ls	5,308
15		Demo gas line	1.00 ls	5,307.65 /ls	5,308
16		Remove light poles & base	5.00 ea	318.46 /ea	1,592
17		Demo fences, posts, signs, area wells, etc.	1.00 ls	42,461.24 /ls	42,461
18		Remove light poles & base - fire lane	8.00 ea	318.46 /ea	2,548
19		Site demo - trees, landscaping - fire lane	1.00 ls	21,230.62 /ls	21,231
		Site Demolition	115,290.00 GSF	1.75 /GSF	202,261
20		Structure Demolition			
21		Abatement	1.00 ls	430,000.00 /ls	430,000
		Structure Demolition	115,290.00 GSF	3.73 /GSF	430,000
22		Selective Demolition			
23		Dumpsters	250.00 ea	800.00 /ea	200,000
24		General cleanup - 8 hr/week, 4 mo	136.00 ch	56.34 /ch	7,662
25		Safety & first aid	13,711.00 mh	5.00 /mh	68,555
26		Trash carts - 6 ea	4.00 mo	596.70 /mo	2,387
27		Small Tools & Equipment	13,711.00 mh	5.00 /mh	68,555
28		Fans/Hoses	1.00 ls	5,000.00 /ls	5,000
29		Safety rails - stairwells, windows	500.00 lf	7.90 /lf	3,951
30		Protect existing material	1.00 ls	10,000.00 /ls	10,000
31		Prep/skim/level floors	115,290.00 sf	0.49 /sf	56,211
32		Mini Dingo/Skid Steer - 2 ea	4.00 mo	4,000.00 /mo	16,000
33		Mini Dingo/Skid Steer - accessories, 2 ea	4.00 mo	750.00 /mo	3,000
34		Fuel	4.00 mo	400.00 /mo	1,600
35		Lift Boom 72' Telescoping - exterior cornices, dormers, etc	2.00 mo	2,300.00 /mo	4,600
36		Lift Scissors 20' Electric	1.00 mo	800.00 /mo	800
37		Supervision	4.00 mo	17,000.00 /mo	68,000
38		Temporary shoring - at theater floor	500.00 sf	15.00 /sf	7,500
39		Temp shoring - beneath pan slabs	3,420.00 sf	15.00 /sf	51,300
40		Temporary shoring - basement beneath excavation path	1,200.00 sf	20.00 /sf	24,000
41		Temporary shoring - new wall openings (doors/windows) - 2230 SF	40.00 ea	750.00 /ea	30,000
42		Temporary shoring - pan slab openings - 3,082 SF	44.00 ea	750.00 /ea	33,000
43		Temporary roofing	1.00 ls	14,444.00 /ls	14,444
44		Demo misc. footings - portico, stairs, etc	1.00 ls	4,722.00 /ls	4,722
45		Demo roof - 1500 sf - sheathing, joists, shoring, etc.	1.00 ls	26,817.60 /ls	26,818
46		Sawcut floors - 2' x 2' grid - theater	2,200.00 lf	3.00 /lf	6,600
47		Sawcut - concrete wall 2' x 2' grid - theater	630.00 lf	25.00 /lf	15,750
48		Sawcut SOG 2x2 grid - in atrium space/basement	1,265.00 lf	3.00 /lf	3,795
49		Sawcut small 2' section of footings for pile cap connection - atrium	25.00 ea	500.00 /ea	12,500
50		Sawcut - concrete wall 2' x 2' grid - atrium	474.00 lf	25.00 /lf	11,850
51		Sawcut - area well - atrium	340.00 lf	15.00 /lf	5,100
52		Sawcut SOG - Area C addition	700.00 lf	3.00 /lf	2,100
53		Sawcut pan slab - Area C addition	830.00 lf	3.00 /lf	2,490
54		Sawcut SOG	3,850.00 lf	3.00 /lf	11,550
55		Sawcut CMU walls	741.00 lf	22.50 /lf	16,673
56		Sawcut exterior walls - new windows/doors	2,230.00 lf	25.00 /lf	55,750
57		Sawcut pan slabs	3,420.00 lf	2.50 /lf	8,550
58		Sawcut CMU walls	500.00 lf	22.50 /lf	11,250
59		Scaffold/shoring - pan slab - Area C addition	830.00 sf	15.00 /sf	12,450
60		Slab on grade (21 locations)	3,850.00 sf	4.29 /sf	16,527
61		Demo 2' section of footing for pile cap	25.00 ea	174.39 /ea	4,360
62		Slab on grade - atrium	1,265.00 sf	4.37 /sf	5,531
63		Pan slabs (57 locations)	3,420.00 sf	12.77 /sf	43,679
64		Floor of theater for new studio - sawcut, dismantle, remove	2,200.00 sf	3.94 /sf	8,657
65		Ceiling assembly over basement, under courtyard - assumed	sf	/sf	
66		Demo SOG - Area C addition	700.00 sf	5.90 /sf	4,132



Miami - Bachelor Hall

Oxford, OH
GMP Estimate - Draft

Date Submitted: 6.2.23
Run Time: 9:05 AM
Gross Building Area: 115,290
Estimate No.: 22-0234

Group	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
	Selective Demolition			
67	Demo elevated slab - sawcut, dismantle, remove	500.00 sf	7.87 /sf	3,935
68	Demo elevator - rails (cabs by abatement sub)	2.00 ea	7,190.40 /ea	14,381
69	Demo beams in ceiling	4.00 ea	1,438.08 /ea	5,752
70	Exterior entry stoops/walls	850.00 sf	8.46 /sf	7,190
71	Interior masonry walls (38 locations)	7,000.00 sf	2.25 /sf	15,729
72	Interior masonry walls - grouted solid (7 locations)	800.00 sf	8.99 /sf	7,190
73	Interior masonry walls	3,500.00 sf	2.25 /sf	7,865
74	Brick w/ block backup - new windows/doors (25 ea)	2,230.00 sf	7.49 /sf	16,703
75	Demo concrete wall - phased - theater	630.00 sf	30.18 /sf	19,016
76	Demo footing from under CMU wall - theater	45.00 lf	62.96 /lf	2,833
77	Demo area well	1.00 ls	7,190.40 /ls	7,190
78	Brick archways	100.00 sf	28.76 /sf	2,876
79	Brick w/ block backup - exterior wall at SE addition	0.00 sf	0.00 /sf	0
80	Brick w/ block backup - exterior wall	750.00 sf	7.49 /sf	5,618
81	Metal pan stairs	6.00 ea	3,344.76 /ea	20,069
82	Metal pan stairs - behind stage	2.00 ea	1,888.80 /ea	3,778
83	Railings in stairwells - to remain	0.00 ea	/ea	
84	Temp wall opening for access/excavation - theater	1.00 ls	10,000.00 /ls	10,000
85	Cabinetry - assume 200' per floor	1,600.00 lf	3.94 /lf	6,296
86	Demo breezeway roof structure, downspouts, etc - Area C addition	830.00 sf	7.08 /sf	5,879
87	Demo cornice at roof of courtyard	328.00 lf	12.69 /lf	4,162
88	Demo dormers	2.00 ea	1,797.60 /ea	3,595
89	Demo rails at SE addition	30.00 lf	23.97 /lf	719
90	Demo flat roofs	0.00 sf	/sf	
91	Demo shiplap siding	500.00 sf	4.31 /sf	2,157
92	Interior doors (50 in abatement)	385.00 lvs	19.68 /lvs	7,575
93	Demo exterior trim around entry ways	4.00 ea	354.15 /ea	1,417
94	Demo windows (29 in abatement)	188.00 ea	236.10 /ea	44,387
95	Interior drywall & plaster partitions	113,325.00 sf	0.98 /sf	111,557
96	Exterior furred walls	60,000.00 sf	1.80 /sf	108,016
97	Ceilings	105,000.00 sf	0.73 /sf	76,142
98	Flooring - (50,000 SF in abatement)	35,000.00 sf	0.98 /sf	34,332
99	Access flooring	2,000.00 sf	2.83 /sf	5,666
100	Demo tiered floor	1,500.00 sf	2.83 /sf	4,250
101	Gut bathrooms - partitions, counters, specialties	14.00 ea	472.20 /ea	6,611
102	Plumbing Fixtures	120.00 ea	14.76 /ea	1,771
103	Plumbing demo - piping, equipment	115,290.00 sf	0.26 /sf	29,513
104	HVAC demo - duct work, equipment (AHUs by abatement)	115,290.00 sf	0.41 /sf	47,220
105	Electrical demo - light fixtures, equipment	115,290.00 sf	0.14 /sf	16,527
106	Demo package direct costs (mobilization, markup, coordination)	1.00 ls	180,000.00 /ls	180,000
107	Clean and repair existing gates - pin back in place	2.00 ea	6,222.00 /ea	12,444
108	Remove and reinstall louvers	2.00 ea	1,888.80 /ea	3,778
	Selective Demolition	115,290.00 GSF	15.89 /GSF	1,831,535
	DIVISION 2 - EXISTING CONDITIONS	115,290.00 GSF	21.37 /GSF	2,463,795
109	0300.000 DIVISION 3 - CONCRETE			
110	Resteel			
111	Resteel - footings (150 lbs/cy)	4.00 ton	3,184.59 /ton	12,738
112	Resteel - pile caps (300 lbs/cy)	7.70 ton	3,184.59 /ton	24,521
113	Resteel - walls (150 lbs/cy)	7.00 ton	3,184.59 /ton	22,292
114	Resteel - slabs (0.5#/SF)	6.30 ton	3,184.59 /ton	20,063
115	Resteel - mat slabs	7.35 ton	3,184.59 /ton	23,407
116	Resteel - infills, misc components	10.00 ton	3,184.59 /ton	31,846
117	Mesh	25,190.00 sf	0.49 /sf	12,300
118	Dobbies/chairs	25,190.00 sf	0.05 /sf	1,337
	Resteel	115,290.00 GSF	1.29 /GSF	148,505
119	Strip Footings			
120	Strip footing & Wall - at breezeway, to frost level	ls	/ls	
121	Pour Formed - Strip Footing	1.00 cy	582.44 /cy	582
122	Pour Formed - Strip Footing	6.00 cy	582.44 /cy	3,495
123	Pour Formed - Strip Footing	6.00 cy	798.15 /cy	4,789
124	Pour Formed - Strip Footing (shear walls)	26.00 cy	462.60 /cy	12,028
125	Form - Strip Footing	22.00 sf	20.25 /sf	445
126	Form - Strip Footing	149.00 sf	31.29 /sf	4,662
127	Form - Strip Footing	68.00 sf	31.29 /sf	2,128
128	Form - Strip Footing	461.00 sf	20.25 /sf	9,335
129	Resteel Template - Formed Strip Footing	75.00 lf	10.24 /lf	768
130	Resteel Template - Formed Strip Footing	17.00 lf	10.24 /lf	174
131	Resteel Template - Formed Strip Footing	183.00 lf	10.24 /lf	1,874



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	Strip Footings			
132	Form footing steps - Strip Footing	8.00 ea	90.87 /ea	727
133	Form footing steps - Strip Footing	4.00 ea	90.87 /ea	363
	Strip Footings	39.00 cy	1,060.76 /cy	41,370
	Spread Footings			
134	Pour Formed - Spread Footing	1.00 cy	402.68 /cy	403
135	Pour Formed - Spread Footing	2.00 cy	402.69 /cy	805
136	Pour Formed - Spread Footing	13.00 cy	402.68 /cy	5,235
137	Form - Spread Footing	24.00 sf	15.90 /sf	382
138	Form - Spread Footing	60.00 sf	15.90 /sf	954
139	Form - Spread Footing	274.00 sf	15.90 /sf	4,357
140	Footings for metal platform in mech. room	1.00 ls	10,048.66 /ls	10,049
	Spread Footings	16.00 cy	1,386.54 /cy	22,185
	Footings - Anchor Bolts and Embeds			
141	Set anchor bolts - Pile Caps	22.00 ea	46.45 /ea	1,022
142	Set anchor bolts	20.00 ea	46.45 /ea	929
143	Grout base plates - Pile Caps	88.00 ea	144.53 /ea	12,718
144	Grout base plates	5.00 ea	144.53 /ea	723
	Footings - Anchor Bolts and Embeds	135.00 ea	114.01 /ea	15,392
	Pile Caps - 28 ea			
145	Pour Formed - Pile Caps - 5,000 PSI	51.00 cy	349.81 /cy	17,840
146	Form - Pile Caps	1,225.00 sf	11.60 /sf	14,209
	Pile Caps - 28 ea	51.00 cy	628.43 /cy	32,050
	Walls- infill at CMU walls			
147	Pour - Fdn Walls (0' - 8')	1.00 cy	941.96 /cy	942
148	Pour - Fdn Walls (0' - 8') - elevator pits (2 ea)	9.00 cy	582.44 /cy	5,242
149	Pour - 3' tall band in CMU wall at slab level (6 locations)	38.00 cy	693.15 /cy	26,340
150	Form - Fdn Walls (0' - 8')	44.00 sf	18.47 /sf	812
151	Form - Fdn Walls (0' - 8')	613.00 sf	15.37 /sf	9,419
152	Form - 3' tall band in CMU wall at slab level	2,028.00 sf	26.45 /sf	53,649
	Walls- infill at CMU walls	48.00 cy	2,008.41 /cy	96,403
	Walls: 8' - 16' - 64' long, 6-14' tall			
153	Pour - Fdn Walls (8' - 16') - stepped, at new corridor	30.00 cy	366.73 /cy	11,002
154	Pour - shear walls (13-18' tall), 4 walls ~12' long	30.00 cy	470.39 /cy	14,112
155	Form - Fdn Walls (8' - 16')	1,285.00 sf	14.26 /sf	18,325
156	Form - shear walls (13-18' tall)	1,568.00 sf	11.58 /sf	18,163
157	Construction Joint - Fdn Walls (8' - 16')	20.00 lf	21.80 /lf	436
	Walls: 8' - 16' - 64' long, 6-14' tall	60.00 cy	1,033.95 /cy	62,037
	Walls: Point & Patch			
158	Point & patch - Fdn Walls (8' - 16')	1,285.00 sf	1.29 /sf	1,653
159	Point & patch - shear walls (13-18' tall)	1,568.00 sf	1.29 /sf	2,016
	Walls: Point & Patch	1,285.00 sf	2.86 /sf	3,669
	Slab on Grade			
160	Slab on grade - patch around shear walls, elevator pits, etc (21 locations)	3,350.00 sf	20.26 /sf	67,862
161	Pour (5" assumed)	106.00 cy	222.92 /cy	23,630
162	Pour (5" assumed)	8.00 cy	222.92 /cy	1,783
163	Pour (5" assumed) (studio)	38.00 cy	222.92 /cy	8,471
164	Grade & Gravel	106.00 cy	221.32 /cy	23,460
165	Gravel	8.00 cy	56.95 /cy	456
166	Gravel	38.00 cy	102.45 /cy	3,893
167	Heavy vapor barrier	6,846.00 sf	0.71 /sf	4,831
168	Heavy vapor barrier	489.00 sf	0.71 /sf	345
169	Heavy vapor barrier	2,426.00 sf	0.71 /sf	1,712
170	Grade slab	489.00 sf	0.31 /sf	151
171	Grade slab	2,426.00 sf	0.31 /sf	748
172	Form column boxouts	288.00 lf	60.09 /lf	17,305
173	Form column boxouts	40.00 lf	60.09 /lf	2,403
174	Pour column boxouts	36.00 ea	278.44 /ea	10,024
175	Pour column boxouts	5.00 ea	278.44 /ea	1,392
176	Expansion joint	444.00 lf	2.13 /lf	948
177	Expansion joint	80.00 lf	2.13 /lf	171
178	Expansion joint	200.00 lf	2.13 /lf	427
179	Curing compound	6,846.00 sf	0.05 /sf	363
180	Curing compound	489.00 sf	0.05 /sf	26
181	Curing compound	2,426.00 sf	0.05 /sf	129
182	Pump/place/finish/cure/sawcut by sub	6,846.00 sf	2.65 /sf	18,168
183	Pump/place/finish/cure/sawcut by sub	489.00 sf	4.25 /sf	2,076
184	Pump/place/finish/cure/sawcut by sub	2,426.00 sf	2.65 /sf	6,438
185	Superflat premium - studio	2,200.00 sf	8.49 /sf	18,683



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	Slab on Grade			
193	Pour watch - MCC	1.00 pour	944.40 /pour	944
194	Pour watch - MCC	1.00 pour	944.40 /pour	944
195	Pour watch - MCC	1.00 pour	944.40 /pour	944
	Slab on Grade	9,761.00 sf	22.41 /sf	218,728
	Mat/Mud Slab			
196				
197	Pour - Mat slab - (2 ea)	49.00 cy	353.71 /cy	17,332
198	Infill two elevator pits	3.00 cy	571.70 /cy	1,715
199	Finish	1,109.00 sf	1.66 /sf	1,843
200	Form - Mat slab	1,109.00 sf	26.99 /sf	29,935
201	Form - Mat slab steps (3' thick)	225.00 sf	26.99 /sf	6,073
202	Resteel Template - Mat slab	77.00 lf	17.29 /lf	1,331
	Mat/Mud Slab	49.00 cy	1,188.37 /cy	58,230
	Supported Slab & Beam			
203				
204	Supported slab & beam - form beams in stair	186.00 sf	35.77 /sf	6,654
205	Supported slab & beam - pour	5.00 cy	1,034.17 /cy	5,171
206	Flat slab - form deck	70.00 sf	44.72 /sf	3,130
207	Flat slab - pour	1.00 cy	1,223.05 /cy	1,223
	Supported Slab & Beam	5.00 cy	3,235.60 /cy	16,178
	Slab on Metal Deck			
208				
209	Pour (4" total thickness, 3.25" concrete)	80.00 cy	222.92 /cy	17,834
210	Pour - small areas	18.00 cy	222.92 /cy	4,013
211	Form - misc.	300.00 lf	8.93 /lf	2,679
212	Clean deck	7,974.00 sf	0.13 /sf	1,068
213	Clean deck	1,042.00 sf	0.55 /sf	571
214	Temporary support of deck	0.00 ls	0.00 /ls	0
215	Deck deflection	8.00 cy	222.92 /cy	1,783
216	Deck deflection	2.00 cy	222.93 /cy	446
217	Curing compound	7,974.00 sf	0.05 /sf	423
218	Curing compound	1,042.00 sf	0.05 /sf	55
219	Special forming - boxouts	240.00 lf	9.99 /lf	2,398
220	Pump/place/finish/cure/sawcut	7,974.00 sf	6.37 /sf	50,788
221	Pump/place/finish/cure/sawcut	1,042.00 sf	10.62 /sf	11,061
222	Pour Watch - MCC	4.00 pour	944.40 /pour	3,778
223	Crack repair	lf	/lf	
	Slab on Metal Deck	9,016.00 sf	10.75 /sf	96,897
	Topping Slabs			
224				
225	Topping slab - over basement spaces, over geofoam	1,557.00 sf	21.07 /sf	32,811
226	Topping slab - at breezeway where bricks removed	1,260.00 sf	21.07 /sf	26,552
	Topping Slabs	2,817.00 sf	21.07 /sf	59,363
	Pan Fill Stairs			
227				
228	Pour	2.42 cy	418.50 /cy	1,014
229	Finish	308.58 sf	9.55 /sf	2,947
230	Temporary Landings	84.00 sf	2.91 /sf	244
231	Temporary Treads	245.00 lf	5.06 /lf	1,241
232	Clean treads/landings (pre-pour)	308.58 sf	1.66 /sf	511
233	Clean treads/landings (post-pour)	308.58 sf	1.68 /sf	519
234	Cure	308.58 sf	0.26 /sf	80
	Pan Fill Stairs	2.42 cy	2,708.90 /cy	6,556
	Equipment Pads			
235				
236	Equipment pads	500.00 sf	21.23 /sf	10,615
	Equipment Pads	115,290.00 GSF	0.09 /GSF	10,615
	Miscellaneous			
237				
238	Infill top of shear wall between pans	58.00 ea	973.87 /ea	56,484
239	Core drill to pour infills at pans	58.00 ea	106.15 /ea	6,157
240	Infill exterior walls, doweled in	4.00 ea	973.87 /ea	3,895
241	Repair exterior concrete stoops (5/A334)	3.00 ea	2,953.27 /ea	8,860
242	Misc. additional footings, slabs, infills	1.00 ls	53,076.55 /ls	53,077
	Miscellaneous	115,290.00 GSF	1.11 /GSF	128,473
	Closeout			
243				
244	Perimeter safety rail	lf	/lf	
245	Plant & Equipment - (concrete and structural ex)	8,900.00 mh	5.31 /mh	47,238
246	Buggies - 2 ea, 4 mo	8.00 mo	849.23 /mo	6,794
247	Safety & PPE	8,900.00 mh	1.06 /mh	9,448
248	Skid Steer Forks	4.00 mo	201.69 /mo	807
249	Skid Steer - Tracked	4.00 mo	2,282.29 /mo	9,129
250	Cleanup - 4 mo, 2 hr/day	170.00 ch	57.40 /ch	9,758
251	Epoxy dowels	8.00 ea	25.88 /ea	207
252	Epoxy dowels	56.00 ea	25.88 /ea	1,449



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	Closeout			
253	Epoxy dowels	500.00 ea	25.88 /ea	12,939
254	Concrete Package - Project Provisions	1.00 ls	60,000.00 /ls	60,000
255	Concrete Package - Direct Costs	1.00 ls	80,000.00 /ls	80,000
	Closeout	115,290.00 GSF	2.06 /GSF	237,769
	DIVISION 3 - CONCRETE	115,290.00 GSF	10.88 /GSF	1,254,419
256	0400.000 DIVISION 4 - MASONRY			
257	Maintenance of Masonry			
258	Power-wash, clean, seal, re-caulk, replace - brick	48,000.00 sf	5.53 /sf	265,477
259	Power-wash, clean, seal - CMU	5,000.00 sf	1.26 /sf	6,285
260	Repair stone after removing gates	2.00 ea	1,592.30 /ea	3,185
261	Repair facade where existing stoops are removed	3.00 ea	1,592.30 /ea	4,777
262	Misc. Infills, repairs - interior walls	1.00 ls	50,000.00 /ls	50,000
263	Clean & tuck point brick	2,000.00 sf	20.14 /sf	40,273
264	,	1.00 ls	50,000.00 /ls	50,000
265	Adjust masonry base at gate locations	0.00 ls	0.00 /ls	0
	Maintenance of Masonry	115,290.00 GSF	3.64 /GSF	419,997
266	Concrete Unit Masonry			
267	CMU - sheer wall	2,790.00 sf	83.00 /sf	231,570
268	CMU - elevator and stair walls (start/stop for concrete)	6,211.00 sf	98.00 /sf	608,678
269	CMU - wall infills	1,671.00 sf	98.00 /sf	163,758
270	Tie CMU walls into slab above	0.00 lf	0.00 /lf	0
271	CMU - Interior 6" walls	275.00 sf	35.00 /sf	9,625
272	CMU - Interior 8" walls	821.00 sf	40.00 /sf	32,840
273	CMU & brick infill to match existing	96.00 sf	100.00 /sf	9,600
274	Set steel lintels	40.00 ea	500.00 /ea	20,000
275	Precast lintels - purchase and install	15.00 ea	700.00 /ea	10,500
276	Grout jams of new door openings	6.00 ea	700.00 /ea	4,200
	Concrete Unit Masonry	115,290.00 GSF	9.46 /GSF	1,090,771
277	Stone			
278	New stone facade - SE corridor	270.00 sf	70.00 /sf	18,900
279	Stone at existing stoops	3.00 ea	2,500.00 /ea	7,500
280	Precast window enclosure	2.00 ea	2,500.00 /ea	5,000
	Stone	115,290.00 GSF	0.27 /GSF	31,400
	DIVISION 4 - MASONRY	115,290.00 GSF	13.38 /GSF	1,542,168
281	0500.000 DIVISION 5 - METALS			
282	Structural Steel Framing			
283	Structural Steel - floor infills, skylight opening	125.92 ton	5,265.85 /ton	663,076
284	Structural Steel - skylight structure	16.89 ton	10,052.98 /ton	169,795
285	Structural Steel - assumed rebuilding floor over basement	ton	/ton	
286	Structural Steel - galvanized dunnage	ton	/ton	
287	Structural Steel - galvanized	0.43 ton	7,659.42 /ton	3,294
288	Structural Steel - interior new openings, misc. work	31.33 ton	10,052.98 /ton	314,960
289	Structural Steel - communicating stair stringers - AESS level 3	2.70 ton	10,052.99 /ton	27,143
290	Structural Steel - HSS members to support CFMF in atrium	5.00 ton	10,052.99 /ton	50,265
291	Steel Angles (20 #/LF avg, 2,010 LF)	20.00 ton	10,052.98 /ton	201,060
292	Steel Plates (15 #/LF avg, 825 LF)	6.12 ton	10,052.99 /ton	61,524
293	Structural Steel - premium - framing/inset into concrete, bolted connections, etc.	1.00 ls	50,000.00 /ls	50,000
294	Anchor bolts	545.00 ea	38.30 /ea	20,872
295	Column base plates	109.00 ea	129.25 /ea	14,089
296	Steel Connections (15% of actual tonnage)	30.50 ton	5,265.85 /ton	160,608
	Structural Steel Framing	240.00 ton	7,236.19 /ton	1,736,685
297	Metal Joists			
298	Metal Joists	0.90 ton	5,000.00 /ton	4,500
	Metal Joists	115,290.00 GSF	0.04 /GSF	4,500
299	Metal Decking			
300	Metal deck - SOMD - D1 (1.5")	9,371.00 sf	7.00 /sf	65,597
301	Metal deck - roof - D2 (1.5" wide rib)	2,601.00 sf	7.00 /sf	18,207
302	Metal deck - roof - D3 (3" deep rib)	2,825.00 sf	8.00 /sf	22,600
	Metal Decking	115,290.00 GSF	0.92 /GSF	106,404
303	Lintels			
304	Steel lintel - new masonry opening (40 ea) - material	150.00 lf	30.00 /lf	4,500
305	Create beam pockets in existing walls	1.00 ls	50,000.00 /ls	50,000
306	Steel lintel and columns - openings in existing foundation	ea	/ea	
	Lintels	115,290.00 GSF	0.47 /GSF	54,500
307	Miscellaneous Metals			
308	Ships ladder	15.00 vlf	145.00 /vlf	2,175
309	Misc metals - counter supports, bollards, etc.	115,290.00 gsf	0.15 /gsf	17,294



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	Miscellaneous Metals	115,290.00 GSF	0.17 /GSF	19,469
310	Metal Stairs & Rails			
311	Pan fill stairs w/ rail - new Stair 1	70.00 trd	1,500.00 /trd	105,000
312	Pan fill stairs w/ rail - new attic stair	20.00 trd	800.00 /trd	16,000
313	Communicating stair stringers - AESS level 3	2.70 ton	20,000.00 /ton	54,000
314	New Central Stair - pan, treads	24.00 trd	1,500.00 /trd	36,000
315	New railings - two existing stairwells - to remain	If	/If	
316	Railings at classrooms overlooking atrium	93.00 lf	300.00 /lf	27,900
317	Site railings (decorative)	131.00 lf	300.00 /lf	39,300
318	Steel stairs in mech room	2.00 ea	9,500.00 /ea	19,000
319	Jib crane	1.00 ls	15,000.00 /ls	15,000
	Metal Stairs & Rails	115,290.00 GSF	2.71 /GSF	312,200
320	Decorative Metal			
321	Picket rail - 7' 6" tall	110.00 lf	850.00 /lf	93,500
322	Picket rail - 17' tall	52.00 lf	1,200.00 /lf	62,400
323	4' 6" picket rail - central stair	50.00 lf	600.00 /lf	30,000
	Decorative Metal	115,290.00 GSF	1.61 /GSF	185,900
	DIVISION 5 - METALS	115,290.00 GSF	20.99 /GSF	2,419,658
324	0600.000 DIVISION 6 - WOOD, PLASTICS & COMPOSITES			
325	Rough Carpentry - Framing			
326	6x6 FRT 10ft Post at Louver	140.00 lf	67.00 /lf	9,380
327	Wall framing 2 x 4, @ Louver	63.00 lf	233.79 /lf	14,729
328	New 2x12 Rafters	858.00 lf	29.70 /lf	25,487
329	XFS B6 Fiber Cement on Metal Stud	947.00 sf	28.85 /sf	27,324
330	2x10 Beam Reinforcing	190.00 lf	19.96 /lf	3,792
331	Sheathing Roof and Walls	1,662.00 sf	17.77 /sf	29,536
332	Unload & Distribute	30.00 ch	179.76 /ch	5,393
333	Fasteners and Simpson components	1.00 ls	5,838.42 /ls	5,838
334	Small Tools & Equipment	629.00 mh	5.31 /mh	3,339
335	Hoisting/access/platforms/safety measures	1.00 ls	53,076.55 /ls	53,077
	Rough Carpentry - Framing	115,290.00 GSF	1.54 /GSF	177,894
336	Rough Carpentry - Blocking & Sheathing			
337	Roof blocking - PT 2 x 4	3,336.20 lf	4.16 /lf	13,876
338	Roof blocking - PT 2 x 6	501.40 lf	5.15 /lf	2,582
339	Roof blocking - PT 2 x 8	1,299.00 lf	6.25 /lf	8,119
340	Additional Roof Blocking	If	/If	
341	Roof blocking - PT 2 x 10	547.40 lf	7.24 /lf	3,964
342	Roof blocking - PT 2 x 12	78.20 lf	7.97 /lf	623
343	Windows - PT 2 x 6 (Perimeter of New punch openings)	199.00 lf	5.64 /lf	1,123
344	Windows - PT 2 x 6 (Perimeter of Existing Windows)	5,160.00 lf	5.64 /lf	29,116
345	Rough Carpentry - Project Provisions	17.00 mo	5,000.00 /mo	85,000
346	Rough Carpentry - Direct Costs	17.00 mo	4,000.00 /mo	68,000
347	Walls - Cut FRT 2 x 4	733.00 lf	7.91 /lf	5,796
348	Interior Wall Blocking - Additional Wall Mounted Items- DIV 10	3,200.00 lf	10.48 /lf	33,534
349	Walls - Cut FRT 2 x 6	2,328.00 lf	10.48 /lf	24,396
350	Walls - Cut FRT 2 x 6 - for Wall systems See Spread Sheet	3,660.00 lf	10.48 /lf	38,355
351	Interior Wall Blocking - Additional Wall Mounted Items	3,200.00 lf	10.48 /lf	33,534
352	Walls - Cut FRT 3/4' Plywood at 8ft tall Telecom Rooms	2,336.00 sf	19.37 /sf	45,252
	Rough Carpentry - Blocking & Sheathing	115,290.00 GSF	3.41 /GSF	393,271
353	Rough Carpentry - Closeout			
354	Small tools & equipment	1,756.00 mh	5.31 /mh	9,320
355	Unload & Distribute	80.00 ch	61.71 /ch	4,937
356	Lift Boom 72' Telescoping	6.00 mo	2,441.52 /mo	14,649
357	Fasteners (Simpson Anchors/Nails/bolts)	1.00 ls	3,184.59 /ls	3,185
	Rough Carpentry - Closeout	115,290.00 GSF	0.28 /GSF	32,091
358	Architectural Wood Casework			
359	Base cabinets PLAM (standard)	163.00 lf	295.42 /lf	48,154
360	Base cabinets WOOD (standard)	27.00 lf	373.92 /lf	10,096
361	Wood Display Shelving Lockable Glass Front - A12 Atrium Space	3.00 ea	18,200.03 /ea	54,600
362	Mill work Lockers 14'3" tall -(8 units 3 in each units)	1.00 ls	5,401.98 /ls	5,402
363	Wood Display Shelving Lockable Glass Front - A12 2999B Corridor	1.00 ea	18,199.97 /ea	18,200
364	Wood Display Shelving Lockable Glass Front - A12 Swanson	2.00 ea	18,199.97 /ea	36,400
365	Wall cabinets PLAM (standard)	120.00 lf	301.45 /lf	36,174
366	Lecterns	0.00 ea	/ea	
367	Mail Slots Plastic Laminate	42.00 lf	434.14 /lf	18,234
368	MISC. Finish Carpentry (Trim,Molding, etc.)	gsf	/gsf	
369	7'2 Double Door Cabinets (3ft wide each)	32.00 ea	1,878.53 /ea	60,113
370	Book Shelves M23 -PL Shelving with Concealed Mounting	14.00 ea	2,240.39 /ea	31,365
371	A19 - 121A Raised Platform (wood construction)	1.00 ea	20,735.00 /ea	20,735



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	Architectural Wood Casework			
372	Book Shelves - 7'2" PL (3ft wide each)	6.00 ea	2,240.40 /ea	13,442
373	Built Wood Veneer 18" Bench 14' long	1.00 ea	7,154.96 /ea	7,155
374	Millwork/Finish Carpentry - Project Provisions	17.00 mo	5,141.71 /mo	87,409
375	Millwork/Finish Carpentry - Direct Costs	17.00 mo	4,284.76 /mo	72,841
376	FSC Premium	1.00 ls	70,000.00 /ls	70,000
377	Casework Delivery/bond/GR's	1.00 ls	50,000.00 /ls	50,000
378	PREMIUM FOR CURRENT GLASS CABINET DESIGN	0.00 ls	0.00 /ls	0
	Architectural Wood Casework	115,290.00 GSF	5.55 /GSF	640,320
379	Wood Paneling			
380	A21 Bench Below stair Wood Veneer	238.00 sf	62.69 /sf	14,921
381	A11 Atrium Stair bench and counter assembly	100.00 lf	425.00 /lf	42,500
382	Armstrong Wood Veneer Panel - WD1	1,330.00 sf	135.00 /sf	179,550
	Wood Paneling	115,290.00 GSF	2.06 /GSF	236,971
383	Wood Stairs & Railings			
384	Wood Hand Railing 1 1/2"	103.00 lf	45.72 /lf	4,709
385	Wood Bar Top .5 x 1.5" (top)	128.00 lf	47.66 /lf	6,100
386	Hand Railing Top 2x1	400.00 lf	45.72 /lf	18,289
	Wood Stairs & Railings	115,290.00 GSF	0.25 /GSF	29,098
387	Exterior Trim			
388	Repair exterior cornice and fascia - allowance	4,000.00 sf	12.50 /sf	50,000
389	Repair dormer wood trim - allowance	400.00 sf	12.50 /sf	5,000
390	Repair wood trim at doors	800.00 sf	25.00 /sf	20,000
391	Repair wood clerestory trim - allowance	1,300.00 sf	15.38 /sf	20,000
392	Repair/replace shiplap siding - hardieplank	400.00 sf	20.00 /sf	8,000
393	Exterior trim - hoisting, tools, unloading, access.	1.00 ls	75,000.00 /ls	75,000
	Exterior Trim	115,290.00 GSF	1.54 /GSF	178,000
394	Plastic Fabrications			
395	D10 - GFRP column covers	12.00 ea	2,084.52 /ea	25,014
396	Solid surface countertop	243.00 lf	289.49 /lf	70,347
397	Trough in Bath Room	90.00 lf	600.00 /lf	54,000
398	Solid surface window Sills -all windows (W's 648LF) (Int windows 72LF) (Atrium 180LF)	900.00 lf	99.61 /lf	89,653
399	Solid surface base	80.00 lf	36.08 /lf	2,886
	Plastic Fabrications	115,290.00 GSF	2.10 /GSF	241,900
400	Finish Carpentry - Closeout			
401	Small tools & equipment	2,052.00 mh	5.00 /mh	10,260
402	Unload & distribute	160.00 ch	112.68 /ch	18,029
	Finish Carpentry - Closeout	115,290.00 GSF	0.25 /GSF	28,289
	DIVISION 6 - WOOD, PLASTICS & COMPOSITES	115,290.00 GSF	16.98 /GSF	1,957,834
403	0700.000 DIVISION 7 - THERMAL & MOISTURE PROTECTION			
404	Dampproofing & Waterproofing			
405	Waterproofing - MJF Studio	1,000.00 sf	12.46 /sf	12,465
406	Waterproofing - two elevator pits	1.00 ls	25,499.74 /ls	25,500
407	Waterproofing - over basement spaces	1,620.00 sf	12.24 /sf	19,828
408	Waterproofing - underpinning at stair 1	1.00 ls	7,649.79 /ls	7,650
409	Waterproofing - premium for working around soil anchors	1.00 ls	35,699.42 /ls	35,699
	Dampproofing & Waterproofing	115,290.00 GSF	0.88 /GSF	101,142
410	Spray Insulation			
411	Sound insulation ceiling treatment - ACSP2	6,439.00 sf	7.43 /sf	47,846
412	Spray foam insulation - breezeway	465.00 sf	10.62 /sf	4,936
	Spray Insulation	115,290.00 GSF	0.46 /GSF	52,783
413	Shingles & Membrane Roofing			
414	TPO roof - at skylight	4,060.00 sf	45.00 /sf	182,700
415	TPO roof - at SE corridor	1,200.00 sf	45.00 /sf	54,000
416	TPO roof - replace existing	0.00 sf	/sf	
417	Roof repair - solder joints, flashings, insulation, etc.	1.00 ls	75,000.00 /ls	75,000
418	Clay tile roof - remove/replace/repair at roof work	1.00 ls	100,000.00 /ls	100,000
419	Roof - shed dormer	1,517.00 sf	45.00 /sf	68,265
420	Cut hole and replace - AHU access	0.00 ls	0.00 /ls	0
	Shingles & Membrane Roofing	115,290.00 GSF	4.16 /GSF	479,965
421	Roofing Specialties & Accessories			
422	Existing gutters/liners - repair	1.00 ls	25,000.00 /ls	25,000
423	Roof accessories - gutters, downspouts, flashings	1.00 ls	25,000.00 /ls	25,000
	Roofing Specialties & Accessories	115,290.00 GSF	0.43 /GSF	50,000
424	Fire & Smoke Protection			
425	Cement. fireproofing - direct apply beams & deck	14,797.00 sf	2.65 /sf	39,269
426	Intumescent Coatings - skylight structure - NIC	0.00 ls	0.00 /ls	0
427	Firestopping - building	115,290.00 gsf	0.16 /gsf	18,358



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	Fire & Smoke Protection	115,290.00 GSF	0.50 /GSF	57,626
428	Joint Protection			
429	Replace caulk joints - masonry	850.00 lf	4.05 /lf	3,442
430	Replace caulk joints - exterior doors, louvers	660.00 lf	4.04 /lf	2,667
431	Caulking - building	115,290.00 gsf	0.42 /gsf	48,954
	Joint Protection	115,290.00 GSF	0.48 /GSF	55,062
432	Expansion Joint Covers			
433	Expansion joints at roof lines	120.00 lf	106.15 /lf	12,738
	Expansion Joint Covers	115,290.00 GSF	0.11 /GSF	12,738
	DIVISION 7 - THERMAL & MOISTURE PROTECTION	115,290.00 GSF	7.02 /GSF	809,317
434	0800.000 DIVISION 8 - OPENINGS			
435	Doors/Frames/Hardware			
436	DFH Package - Project Provisions	17.00 mo	9,661.76 /mo	164,250
437	DFH Package - Direct Costs	17.00 mo	7,514.71 /mo	127,750
	Doors/Frames/Hardware	115,290.00 GSF	2.53 /GSF	292,000
438	HM Doors			
439	HM Doors - Standard 3'0"x8'0" P1.1	28.00 ea	597.11 /ea	16,719
440	HM Doors - Standard 3'0"x7'0" P1.1	8.00 ea	597.11 /ea	4,777
441	HM Doors - Standard 2'0"x7'0" P1.1	2.00 ea	597.11 /ea	1,194
442	HM Doors - Standard 3'6"x8'0" P1.1	3.00 ea	597.11 /ea	1,791
443	HM Doors - Standard 4'0"x8'0" P1.1	1.00 ea	597.12 /ea	597
444	HM Doors - Standard 4'0"x7'0" P1.1	1.00 ea	597.11 /ea	597
445	HM Doors - Standard 4'0"x10'0" P1.1	2.00 ea	597.11 /ea	1,194
446	HM Doors - Standard 3'4"x8'0" P1.1	3.00 ea	597.11 /ea	1,791
447	HM Doors - Standard 2'0"x8'0" P1.1	12.00 ea	597.11 /ea	7,165
448	HM/GL Doors - Vision Lite 3'6"x8'0" P2.1b	2.00 ea	597.11 /ea	1,194
	HM Doors	115,290.00 GSF	0.32 /GSF	37,021
449	Frames			
450	HM Frame - Standard F1.1	119.00 ea	887.72 /ea	105,639
451	HM Frame - With SideLite F3.1b	178.00 ea	1,488.67 /ea	264,983
452	AL Frame - Standard F1.1	1.00 ea	835.72 /ea	836
453	HM Window Frame F5.1	7.00 ea	897.43 /ea	6,282
454	AL Frame - Double Door F2.1	10.00 ea	981.28 /ea	9,813
455	HM Frame - Double Door With Transom F6.0	2.00 ea	1,087.43 /ea	2,175
456	HM Frame - Double Door F2.1	20.00 ea	1,087.43 /ea	21,749
457	HM Frame - Double Door Split F2.2	2.00 ea	1,087.43 /ea	2,175
458	Doors with NO Frame (31)	ea	/ea	
459	Grout HM frames	11.00 ea	119.10 /ea	1,310
	Frames	115,290.00 GSF	3.60 /GSF	414,961
460	Wood Doors			
461	WD Doors - 3x8 Full Lite P2.3	36.00 ea	856.87 /ea	30,847
462	WD Doors - 3x8 P1.1	203.00 ea	920.56 /ea	186,874
463	WD Doors - 3'4"x8'0" Full Lite P2.3	23.00 ea	1,058.56 /ea	24,347
464	WD Doors - 3x7 P1.1	1.00 ea	915.26 /ea	915
465	WD Doors - 2'8"x7 P1.1	7.00 ea	915.25 /ea	6,407
466	WD Doors - 3'6"x7 P1.1	1.00 ea	915.26 /ea	915
467	WD/GL Doors - 3'6"x8'0" P2.1a Narrow Vision Lite	1.00 ea	915.26 /ea	915
468	WD Doors - 3x8 Vision Lite P2.1b	3.00 ea	1,006.69 /ea	3,020
469	WD Doors - 3x8 Vision Lite Full Height P2.1c	1.00 ea	1,006.68 /ea	1,007
470	WD/GL Doors - 3x8 Vision Lite P2.1b	6.00 ea	1,006.69 /ea	6,040
471	WD/GL Doors - 3x7 Vision Lite P2.1b	7.00 ea	1,006.69 /ea	7,047
472	WD/GL Doors - 3x8 Vision Lite Full Height P2.1c	4.00 ea	1,006.69 /ea	4,027
473	WD/GL Doors - 3'6"x8 Vision Lite P2.1b	1.00 ea	1,006.69 /ea	1,007
474	WD Doors - 3'6"x8'0" Full Lite P2.3	1.00 ea	1,006.69 /ea	1,007
475	WD Doors - 3'6"x8'0" P1.1	1.00 ea	864.22 /ea	864
476	WD/GL Doors - 3x8 Full Lite P2.3	2.00 ea	1,006.69 /ea	2,013
477	WD/GL Doors - 3x8 Vision Lite Narrow P2.1a	2.00 ea	1,006.69 /ea	2,013
478	WD/GL Doors - 3'1"x8 Vision Lite P2.1b	4.00 ea	1,006.69 /ea	4,027
479	WD/GL Doors - 4x8 Mid Rail P2.4	1.00 ea	1,006.68 /ea	1,007
480	WD Doors - 2'6"x8' P1.1	2.00 ea	864.23 /ea	1,728
481	STC 45 Rated Doors Premium	17.00 ea	7,961.48 /ea	135,345
482	Wood doors - 9' height premium	ea	/ea	
483	90 - Fire rated -Premium	12.00 ea	218.20 /ea	2,618
484	STC 48 Rated Doors Premium	3.00 ea	7,961.48 /ea	23,884
485	2 1/2" Door Panel Assemble (Acoustical Door) -premium	0.00 ea	0.00 /ea	0
	Wood Doors	115,290.00 GSF	3.88 /GSF	447,875
486	Specialty Doors			
487	Access doors (15 per Floor)	60.00 ea	123.42 /ea	7,405
488	Coiling Counter Door - Aluminum 3'8" x 5'	1.00 ea	2,537.06 /ea	2,537



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	Specialty Doors	115,290.00 GSF	0.09 /GSF	9,942
489	Overhead Doors			
490	OH Coiling Door 10' x 10' - Manual	1.00 ea	7,961.48 /ea	7,961
	Overhead Doors	115,290.00 GSF	0.07 /GSF	7,961
491	Entrances & Storefronts			
492	Aluminum/Glass door - 3'-0" x 8'-0" - entrances -Mid Rail	22.00 leaf	5,601.46 /leaf	123,232
493	Frame and Transom to remain at Area A West -Repair	1.00 ea	5,307.66 /ea	5,308
494	Glass door Framless entry- 3'-0" x 8'-0"	4.00 ea	5,307.66 /ea	21,231
495	Glass door Framless entry- 3'-0" x 8'-2" P3.1 AG RAIL	2.00 ea	5,307.66 /ea	10,615
496	Aluminum/Glass door - 3'-0" x 7'-0" - entrances -Half Lite	1.00 leaf	5,601.46 /leaf	5,601
497	Side Lite Glazing	2,744.00 sf	63.69 /sf	174,770
498	Transoms (2)	18.00 sf	58.38 /sf	1,051
499	Storefront at stairwells - fire rated	0.00 sf	/sf	
500	Interior storefront - sound rated	sf	/sf	
501	Interior storefront - aluminum, butt glazed	sf	/sf	
502	Interior storefront - frameless, butt glazed	782.00 sf	84.92 /sf	66,409
503	Interior storefront - HM framed Butt glazed	3,702.00 sf	63.69 /sf	235,787
504	Exterior storefront - Internal Muntin -Viracon	435.00 sf	127.38 /sf	55,412
505	Exterior storefront - gate areas, existing entrances	820.00 sf	73.61 /sf	60,364
506	Storefront - window openings in atrium (insulated glass)	1,232.00 sf	84.13 /sf	103,650
	Entrances & Storefronts	115,290.00 GSF	7.49 /GSF	863,431
507	Aluminum Windows			
508	Aluminum Windows - Direct Costs	17.00 mo	5,882.35 /mo	100,000
509	Flashing Tape (1 mh/opening)	5,160.00 lf	4.18 /lf	21,562
510	Lift for Window Install and Flashings	2.00 ea	4,250.00 /ea	8,500
511	Unload and Distribute	97.50 ch	112.68 /ch	10,986
512	Small tools/equipment/supplies	1,700.00 mh	5.00 /mh	8,500
513	Spray foam	149.00 ea	124.82 /ea	18,599
514	Aluminum Windows - W1-W2 - Material	146.00 ea	2,800.00 /ea	408,800
515	Aluminum Windows - W3 -W4 - Material	3.00 ea	6,100.00 /ea	18,300
516	Aluminum Windows - Inside Atrium - Material - NOW W5/W6	ea	/ea	
517	Aluminum windows - install	149.00 ea	308.55 /ea	45,974
518	Aluminum Windows - W5 - Material	0.00 ea	0.00 /ea	0
519	Aluminum Windows - W6 - Material	0.00 ea	0.00 /ea	0
	Aluminum Windows	115,290.00 GSF	5.56 /GSF	641,220
520	Skylights			
521	Skylight	2,888.00 sf	223.27 /sf	644,814
	Skylights	115,290.00 GSF	5.59 /GSF	644,814
522	Hardware			
523	Avg. Interior Passage - Single	327.00 ea	935.84 /ea	306,021
524	Avg. Interior Passage - Double	24.00 ea	1,334.27 /ea	32,023
525	Avg. Interior Passage - Aluminum entrances	23.00 ea	4,648.17 /ea	106,908
526	Avg. Interior Passage - Aluminum - offices	0.00 ea	/ea	
527	Door Auto Operator	8.00 ea	4,292.63 /ea	34,341
528	Card Reader Lockset - AD 300 - furnished by MU	30.00 ea	185.13 /ea	5,554
529	Card Reader - standard	7.00 ea	1,458.97 /ea	10,213
	Hardware	115,290.00 GSF	4.29 /GSF	495,059
530	Glazing			
531	P2.3 - Full Lite Panel	60.00 ea	265.38 /ea	15,923
532	P2.1b - Vision Lite Panel	23.00 ea	159.23 /ea	3,662
533	P2.2 - Half Lite Panel	1.00 ea	212.30 /ea	212
534	P2.1c -Vision Lite Panel - Full height	5.00 ea	185.77 /ea	929
535	P2.1a - Vision Lite Panel - Narrow	3.00 ea	159.23 /ea	478
536	P2.4 - Split Rail	23.00 ea	254.77 /ea	5,860
537	P3.1 - AG Rail System	2.00 ea	318.46 /ea	637
538	Misc. Glazing films and Graphics - VCF1	3,419.00 sf	12.74 /sf	43,553
539	Misc. Glazing films and Graphics - VCF3	0.00 sf	/sf	
540	Misc. Glazing films and Graphics - VCF2	2,836.00 sf	21.23 /sf	60,210
541	Misc. Glazing films and Graphics - VCF4	303.00 sf	10.62 /sf	3,216
542	Smoke Baffles at atrium opening perimeter (170lf)	297.50 sf	253.03 /sf	75,278
543	VE OUT_DG1 - Custom Weaves & Texture Digial Printing - At Elevators	sf	/sf	
544	Interior window glazing (HM Framed) - sound rated	260.00 sf	158.94 /sf	41,325
	Glazing	115,290.00 GSF	2.18 /GSF	251,283
545	Louvers & Vents			
546	New louver - shed dormer at roof	760.00 sf	74.31 /sf	56,473
	Louvers & Vents	115,290.00 GSF	0.49 /GSF	56,473
547	Miscellaneous			
548	Small Tools & Equipment (\$3-5/MH Range)	3,477.00 mh	5.31 /mh	18,455



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	Miscellaneous			
549	Unload & distribute (15 mins per piece or 45 mins per complete DFH)	1,227.00 pcs.	28.17 /pcs.	34,565
	Miscellaneous	115,290.00 GSF	0.46 /GSF	53,019
	DIVISION 8 - OPENINGS	115,290.00 GSF	36.56 /GSF	4,215,060
550	0900.000 DIVISION 9 - FINISHES			
551	Furring Exterior Walls			
552	D3 - Existing walls - 3 5/8" metal studs, 20 ga @ 16" o.c. single layer 5/8"	32,028.00 sf	9.50 /sf	304,266
553	D3.5 - Existing exterior walls - 3 5/8" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8"	11,565.00 sf	9.50 /sf	109,868
554	D2.5 - Existing exterior walls - 2 1/2" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8"	30,624.00 sf	9.00 /sf	275,616
555	D2 - Existing walls - 2 1/2" metal studs, 20 ga @ 16" o.c. single layer 5/8"	13,170.00 sf	9.00 /sf	118,530
556	D1 - Existing walls - 1 5/8" metal studs, 20 ga @ 16" o.c. single layer 5/8"	3,455.00 sf	8.50 /sf	29,368
557	D6 - Existing walls - 6" metal studs, 20 ga @ 16" o.c. single layer 5/8"	630.00 sf	11.50 /sf	7,245
558	Wall Behind AP-1 - Existing walls - 6" metal studs, 20 ga @ 16" o.c. single layer 5/8"	5,939.00 sf	11.50 /sf	68,299
559	D1.a - Existing walls - 1 5/8" metal studs, 20 ga @ 16" o.c. single layer 5/8" -NO SOUND ATTENUATION BLANKETS	147.00 sf	7.00 /sf	1,029
560	D2.5c - Existing exterior walls - 2 1/2" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8" -3/4" 4'8" Sheets of Fire Retardant Plywood	609.00 sf	9.00 /sf	5,481
561	D2.c - Existing walls - 2 1/2" metal studs, 20 ga @ 16" o.c. single layer 5/8" -3/4" 4'8" Sheets of Fire Retardant Plywood	157.00 sf	8.00 /sf	1,256
562	D3.1a - Existing walls - 3 5/8" metal studs, 20 ga @ 16" o.c. single layer 5/8" Stop Gyp at 6" above, NO SOUND ATTENUATION BLANKETS	3,588.00 sf	8.00 /sf	28,704
563	D3.a - Existing walls - 3 5/8" metal studs, 20 ga @ 16" o.c. single layer 5/8", NO SOUND ATTENUATION	2,070.00 sf	8.00 /sf	16,560
564	F1 - 1 5/8" wall furring w/ single layer 5/8" gyp one side, finished	6,959.00 sf	5.00 /sf	34,795
565	2" Spray Foam on Exterior Walls	42,798.00 sf	6.00 /sf	256,788
	Furring Exterior Walls	115,290.00 GSF	10.91 /GSF	1,257,804
566	Interior Partitions			
567	B3 - 3 5/8" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8" gyp each side	86,680.00 sf	12.00 /sf	1,040,160
568	B3.c - 3 5/8" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8" gyp each side	2,030.00 sf	12.00 /sf	24,360
569	4' Bulk head at atrium 3 5/8" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8" gyp each side	680.00 sf	17.00 /sf	11,560
570	C3.c - 3 5/8" metal studs, 20 ga @ 16" o.c. w/ insulation & Two layer 5/8" gyp each side - 2hr	998.00 sf	15.00 /sf	14,970
571	E6 - 6" metal Track, 20 ga @ 16" o.c. Each side, Offset 8" o.c. w/ insulation & single layer 5/8" gyp each side	670.00 sf	17.00 /sf	11,390
572	C3 - 3 5/8" metal studs, 20 ga @ 16" o.c. w/ insulation & Two layer 5/8" gyp each side	2,989.00 sf	15.00 /sf	44,835
573	B6 - 6" metal studs, 20 ga @ 16" o.c. w/ insulation & single layer 5/8" gyp each side	464.00 sf	16.00 /sf	7,424
574	Shaft wall - 2 hr assembly (studs/gwb/finish)	7,357.00 sf	22.00 /sf	161,854
575	A3 - 1 Sided Wall Assembly	15,519.00 sf	9.00 /sf	139,671
576	Abuse resistant premium - 2' in corridors	6,202.00 sf	1.50 /sf	9,303
577	Sound rated walls premium	Is	/Is	
578	1 hr assembly (studs/gwb/finish) -1Sx	1,563.00 sf	15.00 /sf	23,445
579	2 hr assembly (studs/gwb/finish)	150.00 sf	18.00 /sf	2,700
580	A3.1a - 1 Sided Wall Assembly, STOP 6" ABOVE CEILING, NO SOUND ATTENUATION	587.00 sf	7.00 /sf	4,109
	Interior Partitions	115,290.00 GSF	12.97 /GSF	1,495,781
581	Ceilings and Soffits			
582	A000-E Bulkhead - 3 5/8" metal studs, 20 ga. w/ single layer gyp each side and bottom Att all Upper cabinets	120.00 lf	53.50 /lf	6,420
	Ceilings and Soffits	115,290.00 GSF	0.06 /GSF	6,420
583	Decorative Panel			
584	DP-1 Modular Arts Interlocking Rock Panel 32x32	3,182.00 sf	44.94 /sf	143,011
585	DP-3 SOELBERG 3D Panel	307.00 sf	30.55 /sf	9,379
586	DP-2 Modular Arts Interlocking Rock Panel	516.00 sf	44.94 /sf	23,191
	Decorative Panel	115,290.00 GSF	1.52 /GSF	175,582
587	Cement Plastering			
588	Acoustic plaster - walls	5,939.00 sf	32.00 /sf	190,048
589	High Ceiling Work Premium - Lifts/Scaffolding/Etc.	1.00 ls	125,000.00 /ls	125,000
590	Acoustical plaster - ceilings	sf	/sf	
591	Gypsum plaster - ceilings (exterior, in vestibules)	460.00 sf	35.00 /sf	16,100
	Cement Plastering	115,290.00 GSF	2.87 /GSF	331,148
592	Gypsum Board			



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	Gypsum Board			
593	Gyp board wrap @ Skylight beams	5,344.00 sf	30.00 /sf	160,320
594	Gypsum board - ceilings	6,109.00 sf	20.00 /sf	122,180
595	Gypsum board - Bulkheads	1,657.00 sf	30.00 /sf	49,710
596	***Gypsum board - ceilings- Fire rated	291.00 sf	22.00 /sf	6,402
597	***Gypsum board - ceilings- Patch and Repair Exisiting	722.00 sf	30.00 /sf	21,660
	Gypsum Board	115,290.00 GSF	3.12 /GSF	360,272
598	Tiling			
599	Porcelain wall tile - mosaic	1,081.00 sf	40.00 /sf	43,240
600	Porcelain wall tile - 1'6"- Backsplash in breakrooms	90.00 sf	30.00 /sf	2,700
601	Porcelain wall tile - wet walls	5,365.00 sf	28.00 /sf	150,220
602	Porcelain tile - floors	3,017.00 sf	28.00 /sf	84,476
	Tiling	115,290.00 GSF	2.43 /GSF	280,636
603	Acoustical Ceilings			
604	ACT A1 - 2x2	65,358.00 sf	7.50 /sf	490,185
605	ACT A2 - 2x6	9,564.00 sf	10.00 /sf	95,640
606	ACT3- Ultima Health Zone	242.00 sf	15.00 /sf	3,630
607	ACT4- Sound Sensitive Spaces	1,957.00 sf	12.00 /sf	23,484
608	ACT5- MJF Production Rooms	2,180.00 sf	12.00 /sf	26,160
609	12" Axiom Trim at windows	900.00 lf	30.00 /lf	27,000
610	***ACT6- 2x6- Armstrong	2,270.00 sf	15.40 /sf	34,958
611	***MAC1- Monolithic Acoustical Ceiling	1,123.00 sf	42.00 /sf	47,166
612	12" Axiom Trim at Atrium Mass and Directory Portal Cove Light	303.00 lf	30.00 /lf	9,090
613	Wood ceiling WD-1- Armstrong Series 5- 48' x 96'	2,126.00 sf	150.00 /sf	318,900
614	Wood ceiling WD-1- Perimeter vertical edges	1,081.00 lf	150.00 /lf	162,150
	Acoustical Ceilings	115,290.00 GSF	10.74 /GSF	1,238,363
615	Flooring			
616	Luxury vinyl tile	20,637.00 sf	10.00 /sf	206,370
617	Resilient floor - RF1	sf	/sf	
618	Rubber base/transitions	115,290.00 sf	0.50 /sf	57,645
619	Carpet - tiles - atrium ILO terrazzo	sy	/sy	
620	Carpet - tiles - CPT1	1,386.00 sy	66.00 /sy	91,476
621	Carpet - tiles - CPT2	4,885.00 sy	51.00 /sy	249,135
622	Rubber stair treads & landings	2,670.00 sf	16.00 /sf	42,720
	Flooring	115,290.00 GSF	5.61 /GSF	647,346
623	Terrazzo Flooring			
624	Terrazzo flooring- Stair Treads & Landings	340.00 sf	79.03 /sf	26,870
625	Terrazzo flooring	10,202.00 sf	39.51 /sf	403,130
	Terrazzo Flooring	115,290.00 GSF	3.73 /GSF	430,000
626	Fluid-Applied Flooring			
627	Epoxy floor - Level 1-3	2,141.00 sf	15.00 /sf	32,115
628	Epoxy floor - at AHUs	693.00 sf	15.00 /sf	10,395
	Fluid-Applied Flooring	115,290.00 GSF	0.37 /GSF	42,510
629	Stone Wall Panel			
630	QZ-1 Quartz Wall Panel	sf	/sf	
631	Wall paneling - placeholder - MATERIAL TBD	861.00 sf	120.00 /sf	103,320
632	PREMIUM FOR QUARTZ PANEL	0.00 SF	0.00 /SF	0
	Stone Wall Panel	115,290.00 GSF	0.90 /GSF	103,320
633	Acoustic Treatment			
634	Additional acoustic treatments - MFJ Studio	ls	/ls	
635	Acoustic wall panels - 3'-8"6"	1,875.00 sf	35.00 /sf	65,625
636	HDP1 - Hanging Decorative Panel 6 panels on tracks	1.00 ls	14,876.16 /ls	14,876
637	TF1 - Tackable Wall Panel Wrapped Unbacked	14.22 LY	208.05 /LY	2,958
638	Acoustic wall panels - AWP1 ARO Plank	164.00 sf	105.00 /sf	17,220
639	Acoustic wall panels - MJF Studio	3,292.00 sf	37.50 /sf	123,450
640	WC1 - wall covering	57.00 SY	60.00 /SY	3,420
641	TF1 - Tackable Wall Panel Wrapped Unbacked in Display Shelves	44.00 LY	208.05 /LY	9,154
	Acoustic Treatment	115,290.00 GSF	2.05 /GSF	236,704
642	Painting & Wallcoverings			
643	Paint - drywall	321,955.00 sf	1.10 /sf	353,929
644	VWC1 Wall Cover	1,090.00 sf	13.50 /sf	14,715
645	HM frame	328.00 ea	80.00 /ea	26,240
646	Paint - trims, misc. metals, etc.	1.00 ls	50,000.00 /ls	50,000
647	Dual finish door, Dakota Land/P3	5.00 ea	1,000.00 /ea	5,000
648	Paint/finish - existing handrails in stairwells	2.00 ea	10,000.00 /ea	20,000
649	Paint - exterior trim, railings, doors, etc.	1.00 ls	60,000.00 /ls	60,000
650	Seal concrete floors	7,186.00 sf	3.50 /sf	25,151
651	Painted Exposed Ceilings- 2790 SF	2,790.00 sf	3.50 /sf	9,765



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	Painting & Wallcoverings	115,290.00 GSF	4.90 /GSF	564,800
	DIVISION 9 - FINISHES	115,290.00 GSF	62.20 /GSF	7,170,685
652	1000.000 DIVISION 10 - SPECIALTIES			
653	Visual Display Units			
654	Glass Markerboards - 6Hx8W	576.00 sf	15.82 /sf	9,113
655	Standard markerboards - 4Hx4W	192.00 sf	15.82 /sf	3,038
656	Specialties - Project Provisions	17.00 mo	2,352.94 /mo	40,000
657	Specialties - Direct Costs	17.00 mo	1,470.59 /mo	25,000
658	Standard markerboards - 4Hx6W	264.00 sf	15.82 /sf	4,177
659	Standard markerboards - 4Hx8W	2,496.00 sf	15.82 /sf	39,489
660	Standard markerboards - 4Hx12W	864.00 sf	15.82 /sf	13,669
661	Tackboards- 4Hx4W	64.00 sf	8.44 /sf	540
662	Tackboards- 4Hx6W	48.00 sf	8.44 /sf	405
663	Tackboards- 4Hx8W	32.00 sf	8.44 /sf	270
664	Display Rail- Auminum Horizontal Rail	152.00 lf	21.09 /lf	3,206
665	**Back Painted Glass Markerboard	140.00 sf	116.65 /sf	16,331
666	Glass Markerboards - 4HX6W	168.00 sf	15.82 /sf	2,658
	Visual Display Units	115,290.00 GSF	1.37 /GSF	157,896
667	Signage			
668	Code required signage	116,900.00 sf	0.11 /sf	12,409
669	Signage- 1.1- 1 line text	25.00 ea	42.46 /ea	1,062
670	Signage- 1.2- 2 line text	73.00 ea	53.08 /ea	3,875
671	Signage- 1.3- 3 line text	16.00 ea	63.69 /ea	1,019
672	Signage- 2- Back of House	41.00 ea	53.08 /ea	2,176
673	Signage- 3- Office with Insert	165.00 ea	69.00 /ea	11,385
674	Signage- 5- Restroom Flag	5.00 ea	53.08 /ea	265
675	Signage- 6- Gender Specific Restroom	9.00 ea	53.08 /ea	478
676	Signage- 7- All Gender Restroom	3.00 ea	53.08 /ea	159
677	Signage- 8- Floor ID in Stairs	10.00 ea	53.08 /ea	531
678	Signage- 9- Stair ID	11.00 ea	53.08 /ea	584
679	Building directories	2.00 ea	10,615.31 /ea	21,231
680	Signage- 10	1.00 ea	53.08 /ea	53
681	Signage- 11	8.00 ea	53.08 /ea	425
	Signage	115,290.00 GSF	0.48 /GSF	55,651
682	Toilet Compartments			
683	Toilet compartment - standard, floor mounted, OH braced	29.00 ea	1,565.12 /ea	45,388
684	Urinal Screens	5.00 ea	592.48 /ea	2,962
	Toilet Compartments	115,290.00 GSF	0.42 /GSF	48,351
685	Wall & Door Protection - Furnish			
686	Wall protection- Cornor Guards 9'	4.00 ea	79.62 /ea	318
687	**Wall protection- WP1- Jan Closets	132.00 sf	15.92 /sf	2,102
	Wall & Door Protection - Furnish	115,290.00 GSF	0.02 /GSF	2,420
688	Toilet, Bath & Laundry Accessories			
689	Soap dispenser (Owner furnished) TA.01	28.00 ea	46.28 /ea	1,296
690	Toilet paper dispenser (Owner furnished) TA.02	43.00 ea	30.86 /ea	1,327
691	Toilet seat cover dispenser	ea	/ea	
692	Paper towel dispenser (Owner furnished) TA.05	23.00 ea	49.37 /ea	1,135
693	*** Semi Recessed Paper towel dispenser/ Waste Recpt. TA.09	9.00 ea	325.37 /ea	2,928
694	Sanitary napkin disposal- Double Sides- TA.06	8.00 ea	220.94 /ea	1,768
695	Sanitary napkin disposal- Surface Mounted- TA.07	9.00 ea	220.94 /ea	1,988
696	Grab bars <5'- 1-36" 1-42" 1-18"- TA.03	13.00 ea	152.44 /ea	1,982
697	***Grab bars <5'- ADA 2-42"2-18"- TA.03A	3.00 ea	152.44 /ea	457
698	Mirror TA0.4	38.00 ea	335.73 /ea	12,758
699	Mop and Broom Holder- TA.08	4.00 ea	335.73 /ea	1,343
700	***Coat Hook- TA.10	274.00 ea	62.70 /ea	17,180
701	Infant changing station in one All gender RR	1.00 ea	154.28 /ea	154
702	Small Tools & Equipment	1.00 ls	2,653.83 /ls	2,654
703	Unload & distribute	180.00 ch	56.34 /ch	10,141
	Toilet, Bath & Laundry Accessories	115,290.00 GSF	0.50 /GSF	57,111
704	Fire Protection Specialties - Furnish			
705	Recessed fire extinguisher w/ cabinet	19.00 ea	371.54 /ea	7,059
706	Semi Recessed fire extinguisher w/ cabinet	6.00 ea	371.54 /ea	2,229
707	**Fire extinguisher w/ bracket	2.00 ea	371.54 /ea	743
	Fire Protection Specialties - Furnish	115,290.00 GSF	0.09 /GSF	10,031
708	Lockers			
709	Metal lockers	ea	/ea	
	Lockers	115,290.00 GSF	/GSF	



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	DIVISION 10 - SPECIALTIES	115,290.00 GSF	2.88 /GSF	331,461
710	1100.000 DIVISION 11 - EQUIPMENT			
711	Residential Equipment			
712	Appliances - Microwave- OFCI	6.00 ea	177.08 /ea	1,062
713	Appliances - Refrigerator- OFCI	8.00 ea	236.10 /ea	1,889
	Residential Equipment	115,290.00 GSF	0.03 /GSF	2,951
714	Audio-Visual Equipment			
715	TV Brackets - F&I - in AV Package	0.00 ea	/ea	
716	TVs - F&I - 96" (1) - in AV Package	0.00 ea	/ea	
717	Projectors - F&I (24) - in AV Package	0.00 ea	/ea	
718	Projection Screens - F&I - 87" wide (Type A)	8.00 ea	1,319.32 /ea	10,555
719	Projection Screens - F&I - 92" wide (Type B)	10.00 ea	1,584.70 /ea	15,847
720	Projection Screens - F&I - 104" wide (Type D) motorized	1.00 ea	4,238.53 /ea	4,239
721	Projection Screens - F&I - 92" wide (Type E) motorized	2.00 ea	3,177.00 /ea	6,354
722	Projection Screens - F&I - 192" wide (Type F) motorized	1.00 ea	11,138.48 /ea	11,138
	Audio-Visual Equipment	115,290.00 GSF	0.42 /GSF	48,133
723	Theatre and Stage Equipment			
724	Curtains at studio spaces - OFOI	0.00 ls	/ls	
725	Remove and re-install curtain - MJF Studio	1.00 ls	2,876.16 /ls	2,876
726	Relocate lighting/equipment rigging in MJF Studio from Williams Hall	1.00 ls	30,985.94 /ls	30,986
	Theatre and Stage Equipment	115,290.00 GSF	0.29 /GSF	33,862
727	Fall Protection Equipment			
728	Fall protection system - ALLOWANCE	0.00 ls	0.00 /ls	0
	Fall Protection Equipment	115,290.00 GSF	/GSF	
	DIVISION 11 - EQUIPMENT	115,290.00 GSF	0.74 /GSF	84,946
729	1200.000 DIVISION 12 - FURNISHINGS			
730	Window Treatments			
731	Manual Roller Shades- C12 Regular	3,464.00 sf	15.92 /sf	55,157
732	Manual Roller Shades - C14	102.00 sf	21.23 /sf	2,166
733	Manual Roller Shades- Innovation Classroom & Havighurst Classroom- C13	573.00 sf	15.92 /sf	9,124
	Window Treatments	115,290.00 GSF	0.58 /GSF	66,447
734	Rugs & Mats			
735	Walk off mat	611.00 sf	15.92 /sf	9,729
	Rugs & Mats	115,290.00 GSF	0.08 /GSF	9,729
736	Site Furnishings			
737	Bike Rack, trash cans (Benches in alternate)	1.00 ls	15,922.97 /ls	15,923
	Site Furnishings	115,290.00 GSF	0.14 /GSF	15,923
	DIVISION 12 - FURNISHINGS	115,290.00 GSF	0.80 /GSF	92,098
738	1400.000 DIVISION 14 - CONVEYING EQUIPMENT			
739	Elevators			
740	Elevators - 2 ea, 4 stops ea	8.00 stp	77,624.46 /stp	620,996
	Elevators	115,290.00 GSF	5.39 /GSF	620,996
	DIVISION 14 - CONVEYING EQUIPMENT	115,290.00 GSF	5.39 /GSF	620,996
741	2100.000 DIVISION 21 - FIRE SUPPRESSION			
742	Building (sf #'s)			
743	Fire Protection Demolition	115,290.00 sf	0.50 /sf	57,645
744	Wet system - standard	105,000.00 sf	7.15 /sf	750,750
745	Wet system - Deluge	1.00 ls	120,000.00 /ls	120,000
746	Dry system	1.00 ls	80,000.00 /ls	80,000
	Building (sf #'s)	115,290.00 GSF	8.75 /GSF	1,008,395
747	Piping & Devices			
748	Mains - 4"	370.00 lf	44.00 /lf	16,280
749	Standpipes w/ drain, 4"	210.00 lf	80.00 /lf	16,800
750	Fire Department Connection	1.00 ea	1,000.00 /ea	1,000
751	Backflow preventer, double check, flanged w/ gate valves - 4"	1.00 ea	3,100.00 /ea	3,100
752	Hose valve cabinets	12.00 ea	395.00 /ea	4,740
753	Deluge valve	1.00 ea	3,400.00 /ea	3,400
	Piping & Devices	115,290.00 GSF	0.39 /GSF	45,320
754	Fire Protection Project Requirements			
755	Escalation is included	ls	/ls	
	Fire Protection Project Requirements	115,290.00 GSF	/GSF	
	DIVISION 21 - FIRE SUPPRESSION	115,290.00 GSF	9.14 /GSF	1,053,715
756	2200.000 DIVISION 22 - PLUMBING			
757	Building (sf #'s)			
758	Plumbing Demolition - cut make safe	115,290.00 GSF	0.25 /GSF	28,823
	Building (sf #'s)	115,290.00 GSF	0.25 /GSF	28,823
759	Insulation			



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	Insulation			
760	Fixture Insulation	151.00 ea	50.00 /ea	7,550
761	1/2" Pipe insulation - fiberglass, 1" thick	680.00 lf	10.07 /lf	6,848
762	3/4" Pipe insulation - fiberglass, 1" thick	430.00 lf	10.66 /lf	4,584
763	1" Pipe insulation - fiberglass, 1" thick	750.00 lf	11.19 /lf	8,393
764	1-1/2" Pipe insulation - fiberglass, 1" thick	150.00 lf	12.02 /lf	1,803
765	2" Pipe insulation - fiberglass, 1" thick	120.00 lf	12.69 /lf	1,523
766	2-1/2" Pipe insulation - fiberglass, 1" thick	140.00 lf	13.73 /lf	1,922
767	3" Pipe insulation - fiberglass, 1-1/2" thick	565.00 lf	17.89 /lf	10,108
768	4" Pipe insulation - fiberglass, 1" thick storm	950.00 lf	18.13 /lf	17,224
769	4" Pipe insulation - fiberglass, 2" thick	420.00 lf	26.63 /lf	11,185
770	6" Pipe insulation - fiberglass, 1" thick storm	590.00 lf	22.24 /lf	13,122
771	8" Pipe insulation - fiberglass, 1" thick	150.00 lf	29.92 /lf	4,488
772	10" Pipe insulation - fiberglass, 1" thick	50.00 lf	32.64 /lf	1,632
	Insulation	115,290.00 GSF	0.78 /GSF	90,379
773	Water			
774	Water distribution piping - copper type L, 1/2"	680.00 lf	17.20 /lf	11,696
775	Water distribution piping - copper type L, 3/4"	430.00 lf	20.12 /lf	8,652
776	Water distribution piping - copper type L, 1"	750.00 lf	25.25 /lf	18,938
777	Water distribution piping - copper type L, 1-1/2"	150.00 lf	36.46 /lf	5,469
778	Water distribution piping - copper type L, 2"	120.00 lf	50.12 /lf	6,014
779	Water distribution piping - copper type L, 2-1/2"	140.00 lf	75.09 /lf	10,513
780	Water distribution piping - copper type L, 3"	565.00 lf	93.83 /lf	53,014
781	Water distribution piping - copper type L, 4"	420.00 lf	152.79 /lf	64,172
782	Pressure regulator, flanged - 4"	1.00 ea	2,452.03 /ea	2,452
783	Pressure regulator, flanged - 6" fire water	1.00 ea	4,504.21 /ea	4,504
784	Backflow preventer, double check, flanged w/ gate valves - 3"	1.00 ea	2,498.03 /ea	2,498
785	Water meter, flanged - 4"	1.00 ea	4,496.93 /ea	4,497
786	Pex in Restroom Gangs	8.00 ea	3,500.00 /ea	28,000
	Water	115,290.00 GSF	1.91 /GSF	220,418
787	Sanitary			
788	Waste & Vent piping - cast iron, 2"	1,400.00 lf	50.76 /lf	71,064
789	Waste & Vent piping - cast iron, 3"	650.00 lf	63.21 /lf	41,087
790	Waste & Vent piping - cast iron, 4"	660.00 lf	77.00 /lf	50,820
791	Underslab waste piping - cast iron, 2"	650.00 lf	56.18 /lf	36,517
792	Underslab waste piping - cast iron, 3"	285.00 lf	67.52 /lf	19,243
793	Underslab waste piping - cast iron, 4"	240.00 lf	80.18 /lf	19,243
794	Floor sinks	4.00 ea	1,200.00 /ea	4,800
795	Floor drain w/ trap primer	22.00 ea	500.00 /ea	11,000
	Sanitary	115,290.00 GSF	2.20 /GSF	253,774
796	Storm			
797	Storm risers - cast iron, 4"	585.00 lf	77.00 /lf	45,045
798	Storm risers - cast iron, 6"	220.00 lf	124.79 /lf	27,454
799	Storm risers - cast iron, 8"	90.00 lf	223.44 /lf	20,110
800	Storm risers - cast iron, 10"	20.00 lf	347.75 /lf	6,955
801	Storm horizontal piping - cast iron, 4"	950.00 lf	77.00 /lf	73,150
802	Storm horizontal piping - cast iron, 6"	590.00 lf	124.79 /lf	73,626
803	Storm horizontal piping - cast iron, 8"	150.00 lf	223.44 /lf	33,516
804	Storm horizontal piping - cast iron, 10"	50.00 lf	347.58 /lf	17,379
805	Underslab storm piping - cast iron, 10"	35.00 lf	319.19 /lf	11,172
806	Overflow Discharge	9.00 ea	201.50 /ea	1,814
807	Roof drains - CI 2", 3" & 4"	11.00 ea	1,192.45 /ea	13,117
808	Overflow drains - CI, 2", 3" & 4"	11.00 ea	1,192.45 /ea	13,117
	Storm	115,290.00 GSF	2.92 /GSF	336,454
809	Gas			
810	Natural gas piping	0.00 sf	/sf	
	Gas	115,290.00 GSF	/GSF	
811	Equipment			
812	Sump pump	2.00 ea	6,226.03 /ea	12,452
813	Sump pump - elevator	2.00 ea	2,911.29 /ea	5,823
814	HW Circulating pump, in-line	1.00 ea	5,932.65 /ea	5,933
815	HX Pump	1.00 ea	5,932.65 /ea	5,933
816	Sewage ejector	1.00 ea	6,389.00 /ea	6,389
817	Water softener	1.00 ea	30,000.00 /ea	30,000
818	Salt Tank	1.00 ea	2,959.93 /ea	2,960
819	Digital Mixing Valve	1.00 ea	30,000.00 /ea	30,000
820	Expansion tank	1.00 ea	1,325.00 /ea	1,325
	Equipment	115,290.00 GSF	0.87 /GSF	100,814
821	Fixtures			



Miami - Bachelor Hall

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Group	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
	Fixtures			
822	Water closets - wall mounted	43.00 ea	1,576.83 /ea	67,804
823	Lavatories - LAV2,3,4 connection only & 35 faucet	11.00 ea	1,200.00 /ea	13,200
824	Lavatories - wall mounted (ADA)	2.00 ea	1,434.08 /ea	2,868
825	Urinals	7.00 ea	1,342.09 /ea	9,395
826	Electric water cooler - high and low	9.00 ea	3,339.15 /ea	30,052
827	Electric water cooler - single	2.00 ea	2,351.65 /ea	4,703
828	Janitor / Mop sink	4.00 ea	2,456.28 /ea	9,825
829	Catering Double Sink	ea	/ea	
830	Stainless steel sink - single	4.00 ea	1,414.38 /ea	5,658
831	Stainless steel sink - double	3.00 ea	1,603.43 /ea	4,810
832	Misc. fixtures - sediment traps, hammer arrestors, etc.	116,900.00 sf	0.35 /sf	40,915
833	Coffee machine - hook up only	3.00 ea	601.73 /ea	1,805
834	Wall hydrants	8.00 ea	496.20 /ea	3,970
835	Hose bibbs	11.00 ea	304.55 /ea	3,350
	Fixtures	115,290.00 GSF	1.72 /GSF	198,355
836	Direct Costs			
837	Plumbing Project Requirements	1.00 ls	150,000.00 /ls	150,000
838	Escalation is included	0.00 ls	/ls	
	Direct Costs	115,290.00 GSF	1.30 /GSF	150,000
	DIVISION 22 - PLUMBING	115,290.00 GSF	11.96 /GSF	1,379,016
839	2300.000 DIVISION 23 - HVAC			
840	Building (sf #'s)			
841	Mechanical Demolition - cut & make safe	115,290.00 sf	1.00 /sf	115,290
	Building (sf #'s)	115,290.00 GSF	1.00 /GSF	115,290
842	Equipment			
843	Air handling unit - AHU-1	45,000.00 cfm	12.00 /cfm	540,000
844	Air handling unit - AHU-2	45,000.00 cfm	12.00 /cfm	540,000
845	Air handling unit - AHU-3	18,000.00 cfm	8.00 /cfm	144,000
846	Air handling unit - RAU-3	13,000.00 cfm	8.00 /cfm	104,000
847	Condensate Duplex Pump 30 GMP	1.00 ea	8,200.00 /ea	8,200
848	Pump - base mounted, 375 GPM	2.00 ea	8,866.99 /ea	17,734
849	Pump - base mounted, 615 GPM	2.00 ea	9,399.19 /ea	18,798
850	Circulating Pump	6.00 ea	4,377.17 /ea	26,263
851	Steam pressure reduction station	2.00 ea	16,710.00 /ea	33,420
852	Heat exchanger -282 GPM	2.00 ea	15,457.71 /ea	30,915
853	Heat exchanger - for domestic HW	2.00 ea	9,500.00 /ea	19,000
854	Air separator	2.00 ea	1,755.51 /ea	3,511
855	Expansion tank - chilled water	1.00 ea	2,500.00 /ea	2,500
856	Expansion tank - hot water	1.00 ea	2,500.00 /ea	2,500
857	Variable Frequency Drives - 15 HP	0.00 ea	0.00 /ea	0
858	Fan coils - 4 pipe	17.00 ea	8,601.37 /ea	146,223
859	Fan coils - 2 pipe -	23.00 ea	7,780.93 /ea	178,961
860	Variable air volume - hydronic heat	149.00 ea	1,251.00 /ea	186,399
861	Flash Tank	1.00 ea	3,878.00 /ea	3,878
862	EF	6.00 ea	2,500.00 /ea	15,000
863	EF	2.00 ea	1,200.00 /ea	2,400
864	Variable air volume - hydronic heat for over 1,000 CFM	24.00 ea	1,450.00 /ea	34,800
865	Atrium Smoke Evac	1.00 ls	175,000.00 /ls	175,000
866	VFD Lot	1.00 ls	150,000.00 /ls	150,000
	Equipment	115,290.00 GSF	20.67 /GSF	2,383,504
867	Piping			
868	HVAC water piping - copper, 3/4"	5,784.00 lf	20.12 /lf	116,374
869	HVAC water piping - copper, 1"	3,952.00 lf	25.25 /lf	99,788
870	Chilled water piping - copper, 1-1/4"	2,291.00 lf	36.46 /lf	83,530
871	HVAC water piping - copper, 1-1/2"	1,405.00 lf	36.46 /lf	51,226
872	HVAC water piping - copper, 2"	2,360.00 lf	50.12 /lf	118,283
873	HVAC water piping - steel, schedule 40, welded, 3"	205.00 lf	80.90 /lf	16,585
874	HVAC water piping - steel, schedule 40, welded, 4"	1,480.00 lf	106.46 /lf	157,561
875	HVAC water piping - steel, schedule 40, welded, 6"	1,600.00 lf	174.30 /lf	278,880
876	Steam piping, steel, welded, Schedule 80, 2"	250.00 lf	80.10 /lf	20,025
877	Steam piping, steel, welded, Schedule 80, 6"	280.00 lf	270.38 /lf	75,706
878	Steam condensate piping, steel, threaded, Schedule 80, 3/4"	1,750.00 lf	32.94 /lf	57,645
879	AHU Connection	3.00 ls	3,800.00 /ls	11,400
880	FCU Connection	37.00 ls	2,700.00 /ls	99,900
881	VAV Connection	173.00 ls	1,400.00 /ls	242,200
882	HX Connection	4.00 ls	3,800.00 /ls	15,200
883	Pump Connection	10.00 ls	3,750.00 /ls	37,500
884	Steam Connection	1.00 ls	15,000.00 /ls	15,000



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	Piping	115,290.00 GSF	12.98 /GSF	1,496,803
885	Sheet Metal			
886	Galvanized duct - single wall	125,000.00 lbs	10.50 /lbs	1,312,500
887	Ductwork accessories	115,290.00 sf	1.50 /sf	172,935
888	Galvanized duct - double wall	6,000.00 lbs	16.80 /lbs	100,800
889	Sound attenuator	7.00 ea	2,800.00 /ea	19,600
890	Grilles/registers/diffusers	450.00 ea	150.00 /ea	67,500
891	Linear Diffuser	1,704.00 lf	85.00 /lf	144,840
892	Test & Balance (Air)	1.00 ls	50,000.00 /ls	50,000
	Sheet Metal	115,290.00 GSF	16.20 /GSF	1,868,175
893	Controls			
894	Air handling unit	3.00 ea	45,000.00 /ea	135,000
895	Heat Exchanger	4.00 ea	20,000.00 /ea	80,000
896	Pump - base mounted	4.00 ea	5,000.00 /ea	20,000
897	Pump -	6.00 ea	2,500.00 /ea	15,000
898	Steam Pressure Reducing Station	1.00 ea	2,500.00 /ea	2,500
899	Variable air volume - hydronic heat	173.00 ea	2,000.00 /ea	346,000
900	FCU	37.00 ea	3,500.00 /ea	129,500
901	Fan	8.00 ea	1,200.00 /ea	9,600
902	Fan Smoke evec	4.00 ea	3,500.00 /ea	14,000
903	Air Flow Measuring Station	3.00 ea	2,500.00 /ea	7,500
904	Front end software/programming	1.00 ea	40,000.00 /ea	40,000
905	VFDs	1.00 ea	50,000.00 /ea	50,000
906	Preferred MU Controls Contractor Premium	1.00 ea	500,000.00 /ea	500,000
	Controls	115,290.00 GSF	11.70 /GSF	1,349,100
907	Insulation			
908	Insulation - duct/lb	125,000.00 lbs	2.00 /lbs	250,000
909	3/4" Pipe insulation - fiberglass w/ ASJ, 1" thick	5,784.00 lf	10.66 /lf	61,657
910	1" Pipe insulation - fiberglass w/ ASJ, 1" thick	3,952.00 lf	11.19 /lf	44,223
911	1-1/4" Pipe insulation - fiberglass w/ ASJ, 1" thick	2,291.00 lf	11.78 /lf	26,988
912	1-1/2" Pipe insulation - fiberglass w/ ASJ, 1" thick	1,405.00 lf	12.02 /lf	16,888
913	2" Pipe insulation - fiberglass w/ ASJ, 1" thick	2,360.00 lf	12.69 /lf	29,948
914	2" Pipe insulation - fiberglass w/ ASJ, 2" thick	250.00 lf	19.62 /lf	4,905
915	3" Pipe insulation - fiberglass w/ ASJ, 2" thick	205.00 lf	22.22 /lf	4,555
916	4" Pipe insulation - fiberglass w/ ASJ, 2" thick	1,480.00 lf	26.63 /lf	39,412
917	6" Pipe insulation - fiberglass w/ ASJ, 2" thick	1,600.00 lf	33.07 /lf	52,912
918	6" Pipe insulation - fiberglass w/ ASJ, 3" thick	280.00 lf	45.94 /lf	12,863
	Insulation	115,290.00 GSF	4.72 /GSF	544,353
919	Direct Costs			
920	HVAC Project Requirements	1.00 ls	700,000.00 /ls	700,000
921	Escalation is included	1.00 ls	/ls	
	Direct Costs	115,290.00 GSF	6.07 /GSF	700,000
	DIVISION 23 - HVAC	115,290.00 GSF	73.36 /GSF	8,457,224
2600.000	DIVISION 26 - ELECTRICAL			
923	Building (sf #'s)			
924	Electrical Demolition - cut make safe	116,900.00 sf	0.50 /sf	58,450
	Building (sf #'s)	115,290.00 GSF	0.51 /GSF	58,450
925	Power			
926	Receptacle - duplex	1,119.00 ea	202.89 /ea	227,034
927	Receptacle - quadraplex	107.00 ea	262.90 /ea	28,130
928	Receptacle - GFCI	79.00 ea	216.53 /ea	17,106
929	Receptacle - weather-proof/GFCI	9.00 ea	277.62 /ea	2,499
930	Receptacle - floor box	173.00 ea	635.29 /ea	109,905
931	Receptacle - special w/dedicated circuit	36.00 ea	482.02 /ea	17,353
932	Junction Box	326.00 ea	202.00 /ea	65,852
933	Receptacle - ceiling	125.00 ea	242.89 /ea	30,361
	Power	115,290.00 GSF	4.32 /GSF	498,240
934	Distribution			
935	Feeders - 60 amp, copper (conduit & wire)	80.00 lf	19.33 /lf	1,546
936	Feeders - 100 amp, copper (conduit & wire)	150.00 lf	24.80 /lf	3,720
937	Feeders - 175 amp, copper (conduit & wire)	100.00 lf	48.05 /lf	4,805
938	Feeders - 200 amp, copper (conduit & wire)	5,144.00 lf	48.66 /lf	250,307
939	Feeders - 400 amp, copper (conduit & wire)	300.00 lf	97.25 /lf	29,175
940	Feeders - 600 amp, copper (conduit & wire)	50.00 lf	166.56 /lf	8,328
941	Service Distribution Feeders - 1000 amp, copper (conduit & wire)	385.00 lf	393.93 /lf	151,663
942	Panels - 277/480V, 200 amp	5.00 ea	4,224.44 /ea	21,122
943	Panels - 277/480V, 600 amp	1.00 ea	6,364.73 /ea	6,365
944	Panels - 120/208V, 200 amp	23.00 ea	4,224.44 /ea	97,162
945	Panels - 120/208V, 400 amp SPD	5.00 ea	16,603.97 /ea	83,020



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	Distribution			
946	Switchgear - 1000 amp, - Prepurchased	0.00 ea	/ea	
947	60 amp disc., 208 V, w/fuse	2.00 ea	308.47 /ea	617
948	200 amp disc., 480 V, w/fuse	5.00 ea	971.40 /ea	4,857
949	Transformer Dry-Type - 3 phase 480V to 120/208V, 75 kVA	1.00 ea	6,859.91 /ea	6,860
950	Transformer Dry-Type - 3 phase 480V to 120/208V, 112.5 kVA	4.00 ea	9,020.59 /ea	36,082
	Distribution	115,290.00 GSF	6.12 /GSF	705,630
951	Emergency			
952	Generator - gas 200 KW	1.00 ea	86,383.50 /ea	86,384
953	Automatic Transfer Switch - 200 amp, 480V	3.00 ea	17,901.24 /ea	53,704
954	200/3 Rackable Breaker	3.00 ea	9,073.93 /ea	27,222
955	400/3 Rackable Breaker	1.00 ea	9,903.10 /ea	9,903
956	Portable Generator Connection	1.00 ea	25,000.00 /ea	25,000
957	Panels -175 amp	3.00 ea	3,075.53 /ea	9,227
958	Panels - 200 amp	4.00 ea	4,224.44 /ea	16,898
959	Transformer Dry-Type - 3-phase, 480V to 120/208V, 45 kVA	3.00 ea	4,364.15 /ea	13,092
960	Feeders - 200 amp, copper (conduit & wire)	940.00 lf	48.66 /lf	45,740
961	Feeders - 300 amp, copper (conduit & wire)	435.00 lf	79.76 /lf	34,696
	Emergency	115,290.00 GSF	2.79 /GSF	321,865
962	Facility Lightning Protection			
963	Grounding system	116,900.00 lf	0.20 /lf	23,380
964	Grounding rod	18.00 ea	400.00 /ea	7,200
965	Lightning protection system	116,900.00 sf	0.75 /sf	87,675
	Facility Lightning Protection	115,290.00 GSF	1.03 /GSF	118,255
966	Commercial Lighting			
967	Lighting Fixtures & Controls	1.00 ls	1,753,400.00 /ls	1,753,400
968	Switches - wall mounted occupancy sensor	23.00 ea	205.40 /ea	4,724
969	Switches - ceiling mounted occupancy sensor	487.00 ea	337.57 /ea	164,397
970	Switches - three-way	8.00 ea	137.64 /ea	1,101
971	Switches - toggle	17.00 ea	237.64 /ea	4,040
972	Switches	347.00 ea	237.64 /ea	82,461
	Commercial Lighting	115,290.00 GSF	17.44 /GSF	2,010,123
973	Equipment			
974	Sump pump	1.00 ea	2,700.00 /ea	2,700
975	Sump pump - elevator	2.00 ea	1,200.00 /ea	2,400
976	Circulating pump	6.00 ea	1,200.00 /ea	7,200
977	Sewage ejector	1.00 ea	1,700.00 /ea	1,700
978	Elevator - 30 HP (includes cab lighting circuit)	2.00 ea	4,539.42 /ea	9,079
979	Air handling unit	4.00 ea	3,931.04 /ea	15,724
980	Pump	4.00 ea	2,500.00 /ea	10,000
981	EF	7.00 ea	1,250.00 /ea	8,750
982	Heat exchanger	4.00 ea	1,750.00 /ea	7,000
983	Steam pressure reduction station	1.00 ea	1,400.00 /ea	1,400
984	FCU	37.00 ea	3,200.00 /ea	118,400
	Equipment	115,290.00 GSF	1.60 /GSF	184,353
985	Direct Costs			
986	Electric Project Requirements	1.00 ls	600,000.00 /ls	600,000
	Direct Costs	115,290.00 GSF	5.20 /GSF	600,000
	DIVISION 26 - ELECTRICAL	115,290.00 GSF	39.01 /GSF	4,496,915
987	2700.000 DIVISION 27 - COMMUNICATIONS			
988	Data Communications			
989	Voice/data balance	1.00 ls	345,870.00 /ls	345,870
990	Voice/data outlet - (2) CAT6A	343.00 ea	503.23 /ea	172,608
991	Voice/data outlet - (4) CAT6A	157.00 ea	890.60 /ea	139,824
992	WAP (Cable Only) Device by Owner	158.00 ea	629.17 /ea	99,409
993	V/D outlet floor	3.00 ea	1,629.17 /ea	4,888
994	Data Rack	24.00 ea	1,216.67 /ea	29,200
995	12-strand SM fiber	2,400.00 lf	7.10 /lf	17,040
996	12-strand MM fiber	2,400.00 lf	9.10 /lf	21,840
997	Cable tray - 18"	480.00 lf	38.95 /lf	18,696
998	Cable Tray - 12" wide, basket type	3,125.00 lf	33.61 /lf	105,031
999	Junction Box	625.00 ea	202.00 /ea	126,250
1000	Raceway - 2" conduit EMT	120.00 lf	17.45 /lf	2,094
1001	Raceway - 4" conduit EMT	3,200.00 lf	30.39 /lf	97,248
	Data Communications	115,290.00 GSF	10.24 /GSF	1,179,998
1002	Voice Communications			
1003	DAS / Emergency Responder	0.00 ea	0.00 /ea	0
	Voice Communications	115,290.00 GSF	/GSF	
1004	Audio-Video Communications			



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1005	Audio-Video Communications			
	A/V consultant opinion of cost	1.00 ls	1,997,100.00 /ls	1,997,100
	Audio-Video Communications	115,290.00 GSF	17.32 /GSF	1,997,100
	DIVISION 27 - COMMUNICATIONS	115,290.00 GSF	27.56 /GSF	3,177,098
1006	2800.000 DIVISION 28 - ELECTRONIC SAFETY & SECURITY			
1007	Electronic Access Control & Intrusion Detection			
1008	Card reader – power & connection only	40.00 ea	655.78 /ea	26,231
1009	Door operator – device, cabling, & connection	4.00 ea	2,010.47 /ea	8,042
	Electronic Access Control & Intrusion Detection	115,290.00 GSF	0.30 /GSF	34,273
1010	Electronic Surveillance			
1011	Camera (IP) 2MP w/license	2.00 ea	3,750.00 /ea	7,500
	Electronic Surveillance	115,290.00 GSF	0.07 /GSF	7,500
1012	Electronic Detection & Alarm			
1013	Fire Alarm - speaker/strobe device	123.00 ea	593.12 /ea	72,954
1014	Fire Alarm - strobe device	80.00 ea	546.35 /ea	43,708
1015	Fire Alarm - smoke detector	46.00 ea	466.78 /ea	21,472
1016	Fire Alarm - heat detector	6.00 ea	559.71 /ea	3,358
1017	Fire Alarm - pull station	20.00 ea	586.44 /ea	11,729
1018	Fire Alarm - remote annunciator panel	1.00 ea	3,714.70 /ea	3,715
1019	Fire Alarm - Addressable control module	11.00 ea	2,714.70 /ea	29,862
1020	Fire Alarm - remote alarm indicator	22.00 ea	814.70 /ea	17,923
1021	Fire Alarm - remote test station	11.00 ea	1,100.00 /ea	12,100
1022	Fire Alarm - tie in and programming	1.00 ls	120,000.00 /ls	120,000
	Electronic Detection & Alarm	115,290.00 GSF	2.92 /GSF	336,820
	DIVISION 28 - ELECTRONIC SAFETY & SECURITY	115,290.00 GSF	3.28 /GSF	378,594
1023	3100.000 DIVISION 31 - EARTHWORK			
1024	Mass Excavation			
1025	Mass Ex - re-grading at south plaza	1.00 ls	127,087.66 /ls	127,088
1026	Mass Ex - re-grading at fire lane	1.00 ls	127,087.66 /ls	127,088
1027	Erosion control	1.00 ls	20,334.04 /ls	20,334
	Mass Excavation	115,290.00 GSF	2.38 /GSF	274,509
1028	Structural Excavation - Courtyard			
1029	Excavate courtyard - 18,000# excavator w/ operator	3.00 mo	17,164.03 /mo	51,492
1030	Excavate courtyard - 2 skid steers w/ operators	3.00 mo	31,143.48 /mo	93,430
1031	Excavate studio space - skid steer w/ operator	1.00 mo	9,960.05 /mo	9,960
1032	Laborer - cleaning, dewatering, etc.	3.00 mo	9,746.82 /mo	29,240
1033	Laborer - cleaning, dewatering, etc.	1.00 mo	4,845.24 /mo	4,845
1034	Excavate courtyard - front loader (no operator)	3.00 mo	5,307.66 /mo	15,923
1035	Fuel - courtyard ex	3.00 mo	4,246.12 /mo	12,738
1036	Excavate studio space - 9000# mini w/ operator	1.00 mo	9,075.45 /mo	9,075
1037	Fuel - studio ex	1.00 mo	4,246.12 /mo	4,246
1038	Haul spoils - courtyard	3,000.00 cy	26.54 /cy	79,615
1039	Haul spoils - studio space	1,000.00 cy	26.54 /cy	26,538
1040	Dewatering - courtyard	1.00 ls	10,615.31 /ls	10,615
1041	Tools & Equipment	2,076.00 mh	5.31 /mh	11,019
1042	Tools & Equipment	520.00 mh	5.31 /mh	2,760
	Structural Excavation - Courtyard	115,290.00 GSF	3.14 /GSF	361,498
1043	Structural Excavation - Schedule			
1044	Operator	0.75 mo	12,917.91 /mo	9,688
1045	Operator	1.00 mo	12,917.91 /mo	12,918
1046	Operator	0.50 mo	12,917.92 /mo	6,459
1047	Operator	1.50 mo	12,917.91 /mo	19,377
1048	Laborer	0.75 mo	9,746.83 /mo	7,310
1049	Laborer	1.00 mo	9,746.82 /mo	9,747
1050	Laborer	0.50 mo	9,746.82 /mo	4,873
1051	Laborer	1.50 mo	9,746.82 /mo	14,620
1052	18,500# Excavator	mo	/mo	
1053	18,500# Excavator	mo	/mo	
1054	18,500# Excavator - corridor	0.50 mo	3,129.38 /mo	1,565
1055	18,500# Excavator	mo	/mo	
1056	9,000# Mini Excavator - shear walls	1.00 mo	2,526.45 /mo	2,526
1057	9,000# Mini Excavator - atrium	2.00 mo	2,972.29 /mo	5,945
1058	Skid steer - atrium	2.00 mo	2,653.83 /mo	5,308
1059	9,000# Mini Excavator	1.00 mo	2,972.29 /mo	2,972
1060	Skid steer	mo	/mo	
1061	9,000# Mini Excavator - elevator pits	1.50 mo	2,972.29 /mo	4,458
1062	Skid steer	1.50 mo	2,653.83 /mo	3,981
1063	Compactor - plate - shear walls	1.00 mo	522.28 /mo	522



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	Structural Excavation - Schedule			
1064	Compactor - plate	2.00 mo	522.27 /mo	1,045
1065	Compactor - plate	1.00 mo	522.28 /mo	522
1066	Compactor - plate	mo	/mo	
1067	Fuel	200.00 gal	8.49 /gal	1,698
1068	Fuel	500.00 gal	8.49 /gal	4,246
1069	Fuel	100.00 gal	8.49 /gal	849
1070	Fuel	300.00 gal	8.49 /gal	2,548
1071	Gravel 57's	15.00 cy	29.72 /cy	446
1072	Gravel 57's	200.00 cy	29.72 /cy	5,945
1073	Gravel 57's	300.00 cy	29.72 /cy	8,917
1074	Gravel 57's	200.00 cy	29.72 /cy	5,945
1075	Haul Spoils	30.00 cy	21.23 /cy	637
1076	Haul Spoils	250.00 cy	21.23 /cy	5,308
1077	Haul Spoils	300.00 cy	21.23 /cy	6,369
1078	Haul Spoils	200.00 cy	21.23 /cy	4,246
	Structural Excavation - Schedule	115,290.00 GSF	1.40 /GSF	160,990
1079	Shoring & Underpinning			
1080	Underpinning - studio space (30 days)	121.00 lf	874.96 /lf	105,870
1081	Underpinning - Stair 1 (8 days)	33.00 lf	874.97 /lf	28,874
1082	Underpinning - Main Atrium (8 days)	26.00 lf	874.97 /lf	22,749
1083	Mini-excavator & operator - underpinning	2.50 mo	7,731.39 /mo	19,328
1084	Tools & Equipment	1.00 ls	10,615.31 /ls	10,615
1085	Grout below footing	180.00 lf	128.67 /lf	23,160
1086	Skid steer - for interior locations, underpinning	2.50 mo	7,731.38 /mo	19,328
1087	Soil anchors - studio space	64.00 lf	1,374.92 /lf	87,995
1088	Soil anchors - elevators	60.00 lf	1,374.92 /lf	82,495
1089	Delegated Design	1.00 ls	5,279.57 /ls	5,280
1090	Tilt monitoring	1.00 ls	5,279.56 /ls	5,280
1091	Underpinning - hand digging around soil anchors for waterproofing	1.00 ls	53,076.55 /ls	53,077
1092	Underpinning - form & pour footings at South wall of studio	90.00 lf	874.96 /lf	78,746
	Shoring & Underpinning	115,290.00 GSF	4.71 /GSF	542,798
1093	Deep Foundations			
1094	Micropiles	1.00 ls	338,331.75 /ls	338,332
1095	Micropile - Mobilization/Site Access/Provisions	1.00 ls	52,051.04 /ls	52,051
	Deep Foundations	115,290.00 GSF	3.39 /GSF	390,383
	DIVISION 31 - EARTHWORK	115,290.00 GSF	15.01 /GSF	1,730,178
1096	3200.000 DIVISION 32 - EXTERIOR IMPROVEMENTS			
1097	Asphalt Pavement & Markings			
1098	Asphalt pavement	484.00 sy	62.58 /sy	30,291
1099	Asphalt pavement - mill & overlay	2,200.00 sy	20.86 /sy	45,895
1100	Asphalt pavement - patch	50.00 sy	83.45 /sy	4,172
	Asphalt Pavement & Markings	115,290.00 GSF	0.70 /GSF	80,358
1101	Site Concrete			
1102	Reinforcing Steel	4.50 ton	2,981.01 /ton	13,415
1103	Woven Wire Mesh	12,800.00 sf	0.78 /sf	10,021
1104	Woven Wire Mesh - fire lane	19,249.00 sf	0.78 /sf	15,070
1105	Reinforce tunnel under fire lane	1.00 ls	15,713.76 /ls	15,714
	Site Concrete	115,290.00 GSF	0.47 /GSF	54,219
1106	Concrete Paving			
1107	Pour	86.00 cy	314.52 /cy	27,049
1108	Pour - fire lane	475.00 cy	314.52 /cy	149,397
1109	Finish	3,488.00 sf	1.60 /sf	5,582
1110	Finish - fire lane	19,249.00 sf	1.60 /sf	30,807
1111	Edge form	500.00 lf	22.19 /lf	11,095
1112	Edge form	2,700.00 lf	22.19 /lf	59,914
1113	Grade	3,488.00 sf	0.92 /sf	3,225
1114	Grade	19,249.00 sf	0.92 /sf	17,797
1115	Gravel	65.00 cy	65.52 /cy	4,259
1116	Gravel	356.00 cy	65.52 /cy	23,326
1117	Cure	3,488.00 sf	0.71 /sf	2,472
1118	Cure	19,249.00 sf	0.71 /sf	13,642
	Concrete Paving	22,737.00 sf	15.33 /sf	348,565
1119	Site Concrete			
1120	Stairs	136.00 sf	48.81 /sf	6,639
1121	Structural ex	1.00 ls	54,914.66 /ls	54,915
1122	Pour Formed - Site Wall Footing	12.00 cy	153.96 /cy	1,848
1123	re-built wall at generator	1.00 ls	3,050.82 /ls	3,051
1124	Form - Site Wall Footing	334.00 sf	11.86 /sf	3,960



Miami - Bachelor Hall

Oxford, OH
GMP Estimate - Draft

Date Submitted: 6.2.23
Run Time: 9:05 AM
Gross Building Area: 115,290
Estimate No.: 22-0234

Group	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
	Site Concrete			
1125	Resteel Template - Formed Site Wall Footing	167.00 lf	5.44 /lf	908
1126	Form footing steps - Site Wall Footing	5.00 ea	104.45 /ea	522
	Site Concrete	115,290.00 GSF	0.62 /GSF	71,843
1127	Site Walls: 0'-8'			
1128	Pour - Site Walls (0' - 8') - 6' walls, 167'	30.00 cy	457.28 /cy	13,718
1129	Form - Site Walls (0' - 8')	2,000.00 sf	18.58 /sf	37,151
1130	Point & patch - Site Walls (0' - 8')	2,000.00 sf	1.22 /sf	2,439
1131	Adjust wall at sycamore tree (per narrative)	20.00 lf	244.07 /lf	4,881
	Site Walls: 0'-8'	30.00 cy	1,939.65 /cy	58,190
1132	Sidewalks			
1133	Site concrete - Project Provisions	17.00 mo	4,411.76 /mo	75,000
1134	Site concrete - Direct Costs	17.00 mo	2,941.17 /mo	50,000
1135	Pour	143.00 cy	311.66 /cy	44,567
1136	Finish	9,314.00 sf	2.25 /sf	20,990
1137	Edge form	1,900.00 lf	12.87 /lf	24,458
1138	Grade	9,314.00 sf	0.67 /sf	6,195
1139	Gravel	143.00 cy	44.58 /cy	6,376
1140	Cure	9,314.00 sf	0.52 /sf	4,867
	Sidewalks	9,314.00 GSF	24.96 /GSF	232,453
1141	Landscaping & Irrigation			
1142	Trees	15.00 ea	1,000.00 /ea	15,000
1143	Shrubs/Groundcover	1.00 ls	18,000.00 /ls	18,000
1144	Mow strip	1.00 ls	13,015.00 /ls	13,015
1145	Topsoil & mulch	1.00 ls	80,000.00 /ls	80,000
1146	Sod - as shown, and around fire lane	3,400.00 sy	14.12 /sy	48,000
1147	Irrigation - base scope, main lines only	1.00 ls	10,000.00 /ls	10,000
	Landscaping & Irrigation	115,290.00 GSF	1.60 /GSF	184,015
	DIVISION 32 - EXTERIOR IMPROVEMENTS	115,290.00 GSF	8.93 /GSF	1,029,642
1148	3300.000 DIVISION 33 - UTILITIES			
1149	Site Domestic Water			
1150	Ductile iron pipe - push on joint, 4"	65.00 lf	88.15 /lf	5,730
1151	Water Meter Pit	1.00 lf	7,833.53 /lf	7,834
1152	Water Meter 4	1.00 lf	4,700.12 /lf	4,700
1153	Irrigation From Pond Ductile iron pipe - push on joint, 4" - add alternate	0.00 lf	0.00 /lf	0
	Site Domestic Water	115,290.00 GSF	0.16 /GSF	18,264
1154	Site Fire Water			
1155	Ductile iron pipe - 6"	580.00 lf	100.66 /lf	58,386
1156	Fire hydrant,	1.00 ea	4,652.13 /ea	4,652
1157	Post indicator valve, 6"	1.00 ea	1,248.24 /ea	1,248
	Site Fire Water	115,290.00 GSF	0.56 /GSF	64,286
1158	Site Storm			
1159	PVC - 12" (4' - 10' deep)	50.00 lf	86.47 /lf	4,323
1160	Yard drain	1.00 ea	1,061.53 /ea	1,062
1161	Connect to existing	1.00 ea	3,715.36 /ea	3,715
1162	Utilities - adjustments due to fire lane	1.00 ea	53,076.55 /ea	53,077
	Site Storm	115,290.00 GSF	0.54 /GSF	62,177
1163	Site Gas			
1164	Polyethylene SDR-11 - 3"	50.00 lf	35.55 /lf	1,778
1165	Gas meter - 3"	1.00 ea	3,715.36 /ea	3,715
	Site Gas	115,290.00 GSF	0.05 /GSF	5,493
1166	Site Plumbing Project Requirements			
1167	Site Plumbing Project Requirements(Mob, Coord, Permit, Fee, etc.)	1.00 ls	15,738.37 /ls	15,738
	Site Plumbing Project Requirements	115,290.00 GSF	0.14 /GSF	15,738
1168	Site Mechanical			
1169	Connect to existing	5.00 ea	5,000.00 /ea	25,000
1170	Demo of existing Chilled Water Pipe in tunnel	50.00 lf	50.00 /lf	2,500
1171	Pipe racks in tunnel	1.00 ls	45,000.00 /ls	45,000
1172	8" Motorized Control Valve	2.00 ea	40,000.00 /ea	80,000
1173	6" Motorized Control Valve	2.00 ea	35,000.00 /ea	70,000
1174	Chilled Water Pipe - steel carrier pipe w elastomeric insulation, 6"	60.00 lf	110.00 /lf	6,600
1175	Chilled Water Pipe - steel carrier pipe w/ elastomeric insulation, 8"	2,650.00 lf	185.00 /lf	490,250
1176	Access / Excavation / Temp. Provisions - allowance	1.00 ls	100,000.00 /ls	100,000
1177	Condensate demo 4" and new water - 6"	170.00 lf	155.00 /lf	26,350
1178	Expansion Joint	2.00 ea	3,800.00 /ea	7,600
	Site Mechanical	115,290.00 GSF	7.40 /GSF	853,300
1179	Site Mechanical Project Requirements			
1180	Site Mechanical Project Requirements(Mob, Coord, Permit, Fee, etc.)	1.00 ls	70,000.00 /ls	70,000



Miami - Bachelor Hall

Oxford, OH
GMP Estimate - Draft

Date Submitted: 6.2.23
Run Time: 9:05 AM
Gross Building Area: 115,290
Estimate No.: 22-0234

Group	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
	Site Mechanical Project Requirements			
1181	Smoke evac provisions for tunnel weld work	1.00 ls	35,000.00 /ls	35,000
	Site Mechanical Project Requirements	115,290.00 GSF	0.91 /GSF	105,000
1182	Site Electric			
1183	Repair/Rework existing UG conduits	1.00 ls	25,000.00 /ls	25,000
1184	Raceway - 2" conduit (rigid) ASSUMED EXISTING TO REMAIN	0.00 lf	/lf	
1185	Demo Transformer and pad	1.00 ls	10,000.00 /ls	10,000
1186	Power to CHW motorized valves	4.00 ea	4,500.00 /ea	18,000
1187	48 strand fiber in existing conduits	6,300.00 lf	38.00 /lf	239,400
1188	25 strand cooper CAT3	1,800.00 lf	12.00 /lf	21,600
1189	Site Lighting - L39	6.00 ls	8,000.00 /ls	48,000
1190	Site Lighting - Relocate Existing Poles (E020, & C131)	14.00 ls	2,250.00 /ls	31,500
	Site Electric	115,290.00 GSF	3.41 /GSF	393,500
	DIVISION 33 - UTILITIES	115,290.00 GSF	13.16 /GSF	1,517,758
1191	9920.000 DIVISION 99 - PROJECT REQUIREMENTS			
1192	General Requirements			
1193	General clean up	17.00 mo	19,493.64 /mo	331,392
	General Requirements	115,290.00 GSF	2.87 /GSF	331,392
1194	Hoisting			
1195	Buckhoist - rental (including operator)	13.00 mo	18,444.08 /mo	239,773
	Hoisting			239,773
	DIVISION 99 - PROJECT REQUIREMENTS	115,290.00 GSF	4.95 /GSF	571,165

**Exhibit C: Miami University Bachelor Hall Renovation**

	Qty	Unit	Unit	Total GMP 2	Total GMP 1	Total GMP 1& 2
State GC's for Bachelor Hall Enabling BP2						
Construction Bonds (lump sum to extend Bonds to 100% of Contract Sum)	1	LS	\$ 366,100.00	\$366,100	\$13,020	\$379,120
Builder's Risk Insurance (lump sum - N/A for PK-12 Schools)	1	LS	\$ 62,947.00	\$62,947	\$1,987	\$64,934
Temporary Facilities - Trailers & Sanitary Facilities (monthly expense)	17	MO	\$ 3,000.00	\$51,000	\$0	\$51,000
Jobsite Trailer Utilities (monthly expense)	17	MO	\$ 1,000.00	\$17,000	\$0	\$17,000
Office & Janitorial Supplies / Furnishings & Equipment / Water (mo. exp.)	17	MO	\$ 1,500.00	\$25,500	\$18,000	\$43,500
Office Communications Equipment/Printing/Postage/Photographs (mo. exp.)	17	MO	\$ 1,500.00	\$25,500	\$18,000	\$43,500
Office First Aid / Fire Protection / Safety / Signage (lump sum)	1	LS	\$ 8,500.00	\$8,500	\$1,500	\$10,000
Project Site Progress & Final Cleaning (monthly expense)*	14	MO	\$ 3,000.00	\$42,000	\$9,000	\$51,000
Dumpsters (monthly expense)**	17	MO	\$ 550.00	\$9,350	\$0	\$9,350
Construction Fence / Access Points / Washout Areas (monthly expense)	17	MO	\$ 1,650.00	\$28,050	\$0	\$28,050
*Final Cleaning Only						
**Dumpsters in COW for Enabling			Total GC's	\$635,947	\$61,507	\$697,454

General Requirements

				Total GMP 2	Total GMP 1	Total GMP 1& 2
SDI Insurance	1	LS	\$ -	Cost of Work	Cost of Work	Cost of Work
CCIP	1	LS	\$ -	Cost of Work	Cost of Work	Cost of Work
Perimeter Temp Road (place and remove)	1	LS	\$ 45,000	\$45,000	\$0	\$45,000
Maintenance of staging and Temporary roads	17	MO	\$ 2,500	\$42,500	\$0	\$42,500
Reworking temp fencing - Perimeter Construction Fencing	1	LS	\$ 20,000	\$20,000	\$0	\$20,000
Site signage / temporary wayfinding	1	LS	\$ 10,000	\$10,000	\$7,652	\$17,652
Additional inspections not covered in general building permits	1	LS	\$ 15,000	\$15,000	\$1,500	\$16,500
Professional Surveying	1	LS	\$ 10,000	\$10,000	\$0	\$10,000
Temporary Heat and enclosures	3	MO	\$ 35,000	\$105,000	\$0	\$105,000
Temporary Dehum and enslosure	3	MO	\$ 35,000	\$105,000	\$0	\$105,000
Elevator cab protection	2	EA	\$ 6,000	\$12,000	\$3,597	\$15,597
Protect Restore Existing	1	LS	\$ 65,000	\$65,000	\$18,084	\$83,084
Snow removal and Site Maintenance (2 hrs per week)	17	MO	\$ 1,000	\$17,000	\$0	\$17,000
Mock Ups	1	LS	\$ 25,000	\$25,000	\$0	\$25,000
Hydro Excavation / Exploratory Digging	1	LS	\$ 5,000	\$5,000	\$0	\$5,000
Protection of existing utilities	17	MO	\$ 500	\$8,500	\$0	\$8,500
Parking Passes	17	MO	\$ 300	\$5,100	\$1,500	\$6,600
Temporary Barriers	1	ls	\$ -	\$0	\$5,000	\$5,000
Dumpsters	1	ls	\$ -	\$0	\$12,000	\$12,000
Maintenance of Tree Protection	17	MO	\$ 500	\$8,500	\$0	\$8,500
Erosion Control Maintenance	17	MO	\$ 500	\$8,500	\$0	\$8,500
Street cleaning	17	MO	\$ 4,000	\$68,000	\$0	\$68,000
Material Testing/Special Inspections	17	MO	\$ 5,000	\$85,000	\$0	\$85,000
Scaffolding at Clearstory	1	LS	\$ 85,000	\$85,000	\$0	\$85,000
Large Equipment - Lull/bobcat	17	MO	\$ 11,500	\$195,500	\$0	\$195,500
Temporary Utilities (billed by university or other entities)	17	MO	\$ 10,000	\$170,000	\$0	\$170,000
Traffic Control	17	MO	\$ 1,000	\$17,000	\$0	\$17,000
Floor Protection	1	LS	\$ 40,000	\$40,000	\$18,083	\$58,083
Temporary Site Dewatering	17	MO	\$ 1,500.00	\$25,500	\$0	\$25,500
Total GR's				\$1,193,100	\$67,416	\$1,260,516

Preconstruction**General**

549	Submit GMP #2	1	06/09/23	06/09/23
555	Miami Execute GMP #2	10	06/12/23	06/23/23
557	Bld BP#2	20	06/26/23	07/21/23
558	Award BP#2	20	07/24/23	08/18/23

Material Procurement

559	Unit Substation	500	05/15/23	04/11/25
566	Structural and Misc. Steel	100	08/21/23	01/05/24
568	Skylight	100	08/21/23	01/05/24
569	Roof Material	200	08/21/23	05/24/24
567	AHU's	250	08/21/23	08/02/24
565	Generator	265	08/21/23	08/23/24

Construction**General**

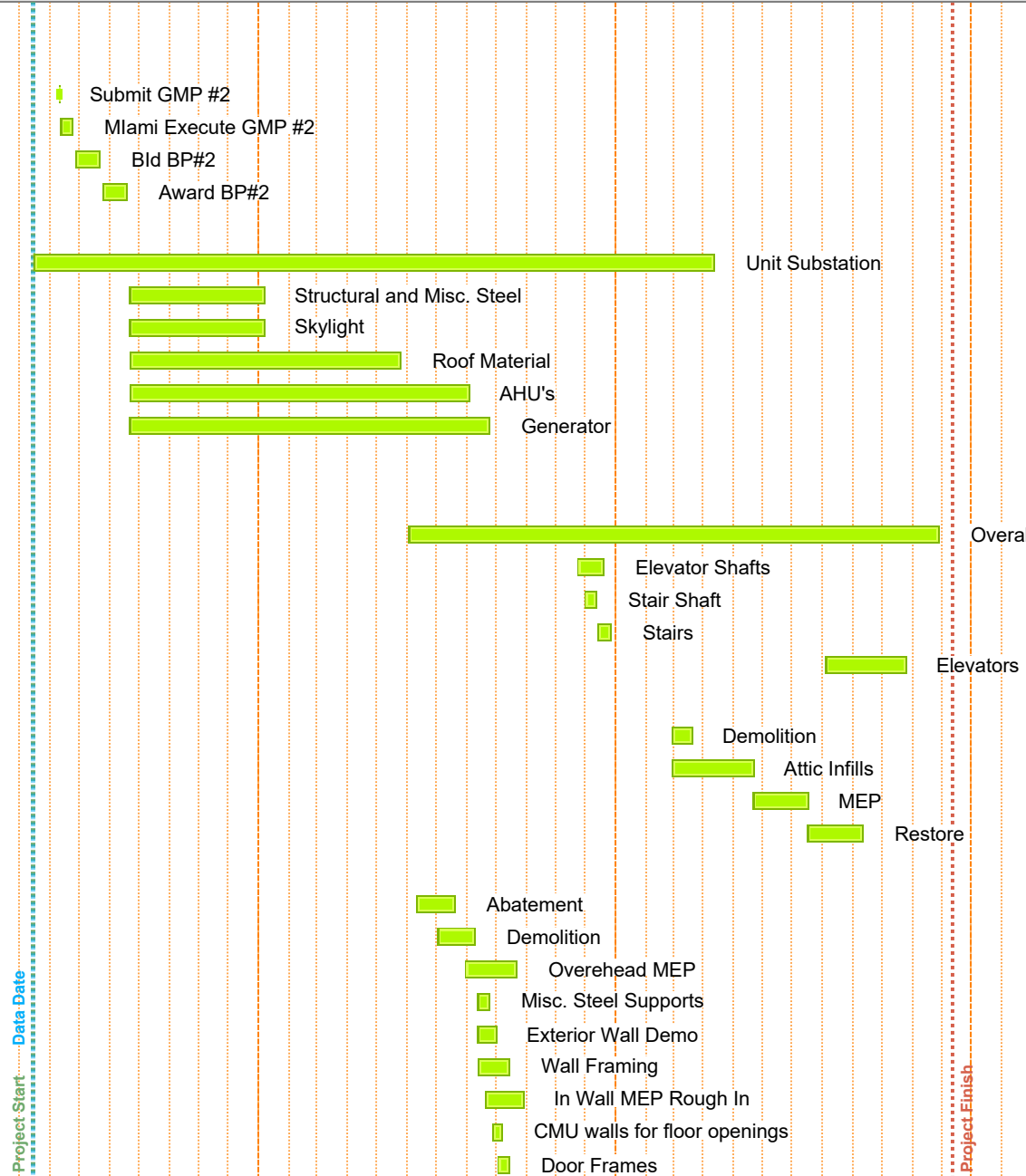
512	Overall Construction Duration	390	06/03/24	11/28/25
510	Elevator Shafts	20	11/22/24	12/19/24
520	Stair Shaft	10	11/29/24	12/12/24
530	Stairs	10	12/13/24	12/26/24
540	Elevators	60	08/04/25	10/24/25

Attic

15	Demolition	15	02/27/25	03/19/25
19	Attic Infills	60	02/27/25	05/21/25
17	MEP	40	05/22/25	07/16/25
18	Restore	40	07/17/25	09/10/25

Third Floor

10	Abatement	30	06/10/24	07/19/24
20	Demolition	30	07/01/24	08/09/24
60	Overhead MEP	40	07/29/24	09/20/24
30	Misc. Steel Supports	10	08/12/24	08/23/24
50	Exterior Wall Demo	15	08/12/24	08/30/24
70	Wall Framing	25	08/12/24	09/13/24
80	In Wall MEP Rough In	30	08/19/24	09/27/24
45	CMU walls for floor openings	10	08/26/24	09/06/24
150	Door Frames	10	09/02/24	09/13/24



Start Date: 05/15/23
Finish Date: 12/12/25
Data Date: 05/15/23
Run Date: 06/12/23

Messer Constructcion Co.
Miami University MUN 100095
Bachelor Hall Renovation
Exhibit D&E GMP Schedule



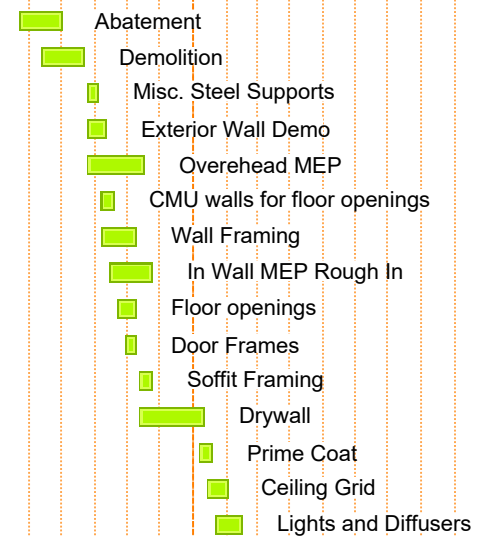
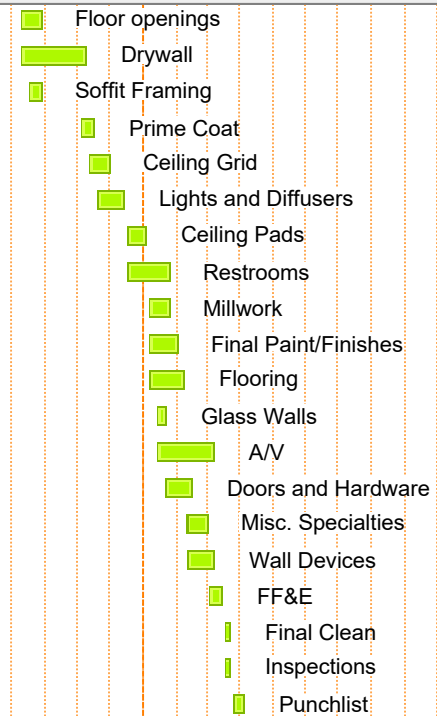
Duration

40	Floor openings	15	09/09/24	09/27/24
90	Drywall	45	09/09/24	11/08/24
110	Soffit Framing	10	09/16/24	09/27/24
100	Prime Coat	10	11/04/24	11/15/24
120	Ceiling Grid	15	11/11/24	11/29/24
130	Lights and Diffusers	20	11/18/24	12/13/24
140	Ceiling Pads	15	12/16/24	01/03/25
190	Restrooms	30	12/16/24	01/24/25
180	Millwork	15	01/06/25	01/24/25
200	Final Paint/Finishes	20	01/06/25	01/31/25
160	Flooring	25	01/06/25	02/07/25
230	Glass Walls	7	01/13/25	01/21/25
240	A/V	40	01/13/25	03/07/25
170	Doors and Hardware	20	01/20/25	02/14/25
220	Misc. Specialties	15	02/10/25	02/28/25
210	Wall Devices	20	02/10/25	03/07/25
250	FF&E	10	03/03/25	03/14/25
260	Final Clean	5	03/17/25	03/21/25
270	Inspections	5	03/17/25	03/21/25
280	Punchlist	10	03/24/25	04/04/25

Second Floor

550	Abatement	30	07/22/24	08/30/24
560	Demolition	30	08/12/24	09/20/24
570	Misc. Steel Supports	10	09/23/24	10/04/24
590	Exterior Wall Demo	15	09/23/24	10/11/24
600	Overhead MEP	40	09/23/24	11/15/24
585	CMU walls for floor openings	10	10/07/24	10/18/24
610	Wall Framing	25	10/07/24	11/08/24
620	In Wall MEP Rough In	30	10/14/24	11/22/24
580	Floor openings	15	10/21/24	11/08/24
690	Door Frames	10	10/28/24	11/08/24
650	Soffit Framing	10	11/11/24	11/22/24
630	Drywall	45	11/11/24	01/10/25
640	Prime Coat	10	01/06/25	01/17/25
660	Ceiling Grid	15	01/13/25	01/31/25
670	Lights and Diffusers	20	01/20/25	02/14/25

Project Start Data Date



Project Finish

Start Date: 05/15/23
Finish Date: 12/12/25
Data Date: 05/15/23
Run Date: 06/12/23

Messer Constructcion Co.
Miami University MUN 100095
Bachelor Hall Renovation
Exhibit D&E GMP Schedule



Duration

680	Ceiling Pads	15	02/17/25	03/07/25
730	Restrooms	30	02/17/25	03/28/25
740	Final Paint/Finishes	20	03/10/25	04/04/25
700	Flooring	25	03/10/25	04/11/25
720	Millwork	25	03/10/25	04/11/25
770	Glass Walls	15	03/17/25	04/04/25
780	A/V	40	03/17/25	05/09/25
710	Doors and Hardware	20	03/24/25	04/18/25
760	Misc. Specialties	15	04/14/25	05/02/25
750	Wall Devices	20	04/14/25	05/09/25
790	FF&E	10	05/05/25	05/16/25
800	Final Clean	5	05/19/25	05/23/25
810	Inspections	5	05/19/25	05/23/25
820	Punchlist	10	05/26/25	06/06/25

First Floor

840	Abatement	30	09/02/24	10/11/24
850	Demolition	30	09/23/24	11/01/24
860	Misc. Steel Supports	10	11/04/24	11/15/24
880	Exterior Wall Demo	15	11/04/24	11/22/24
875	CMU walls for floor openings	10	11/18/24	11/29/24
890	Overhead MEP	40	11/18/24	01/10/25
870	Floor openings	15	12/02/24	12/20/24
900	Wall Framing	25	12/02/24	01/03/25
910	In Wall MEP Rough In	30	12/09/24	01/17/25
980	Door Frames	10	12/23/24	01/03/25
940	Soffit Framing	30	01/06/25	02/14/25
920	Drywall	45	01/13/25	03/14/25
930	Prime Coat	10	03/10/25	03/21/25
950	Ceiling Grid	15	03/17/25	04/04/25
960	Lights and Diffusers	20	03/24/25	04/18/25
965	Specialty Ceilings	20	04/07/25	05/02/25
970	Ceiling Pads	15	04/21/25	05/09/25
1020	Restrooms	50	04/21/25	06/27/25
1010	Millwork	30	05/12/25	06/20/25
1030	Final Paint/Finishes	20	08/14/25	09/10/25
990	Flooring	25	08/14/25	09/17/25

Project Start Data Date

Ceiling Pads
Restrooms
Final Paint/Finishes
Flooring
Millwork
Glass Walls
A/V
Doors and Hardware
Misc. Specialties
Wall Devices
FF&E
Final Clean
Inspections
Punchlist

Abatement
Demolition
Misc. Steel Supports
Exterior Wall Demo
CMU walls for floor openings
Overhead MEP
Floor openings
Wall Framing
In Wall MEP Rough In
Door Frames
Soffit Framing
Drywall
Prime Coat
Ceiling Grid
Lights and Diffusers
Specialty Ceilings
Ceiling Pads
Restrooms
Millwork
Final Paint/Finishes
Flooring

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Exhibit D&E GMP Schedule



Finish

Duration

1015	Terrazzo Flooring	50	08/14/25	10/22/25
1060	Glass Walls	7	08/21/25	08/29/25
1070	A/V	40	08/21/25	10/15/25
1000	Doors and Hardware	20	08/28/25	09/24/25
1105	Systems Ready for Bldg Commissioning	0	09/04/25	
1040	Wall Devices	20	09/18/25	10/15/25
1050	Misc. Specialties	25	09/18/25	10/22/25
1107	Owner Control MCR/Telecom Rooms - I	0	10/03/25	
1080	FF&E	14	10/23/25	11/11/25
1090	Final Clean	7	11/12/25	11/20/25
1100	Inspections	8	11/12/25	11/21/25
1390	Punchlist	15	11/24/25	12/12/25
1400	Substantial Completion - Milestone	0	12/12/25	

Ground Floor

830	Abatement	20	10/14/24	11/08/24
1110	Demolition	20	11/04/24	11/29/24
1130	Misc. Steel Supports	5	12/02/24	12/06/24
1140	Exterior Wall Demo	15	12/02/24	12/20/24
1120	Overhead MEP	25	12/02/24	01/03/25
1115	Abatement Complete - Milestone	0	12/11/24	
1150	Wall Framing	20	01/06/25	01/31/25
1160	In Wall MEP Rough In	20	01/20/25	02/14/25
1170	Door Frames	5	01/27/25	01/31/25
1200	Soffit Framing	10	02/03/25	02/14/25
1155	Mechanical Room	80	02/13/25	06/04/25
1190	Drywall	45	03/17/25	05/16/25
1157	Electrical Room	80	04/14/25	08/01/25
1210	Prime Coat	7	05/15/25	05/23/25
1220	Ceiling Grid	10	05/22/25	06/04/25
1230	Lights and Diffusers	15	05/29/25	06/18/25
1240	Ceiling Pads	10	06/19/25	07/02/25
1250	Restrooms	30	06/19/25	07/30/25
1260	Millwork	15	07/03/25	07/23/25
1270	Final Paint/Finishes	20	07/03/25	07/30/25
1280	Flooring	20	07/10/25	08/06/25
1300	A/V	30	07/17/25	08/27/25

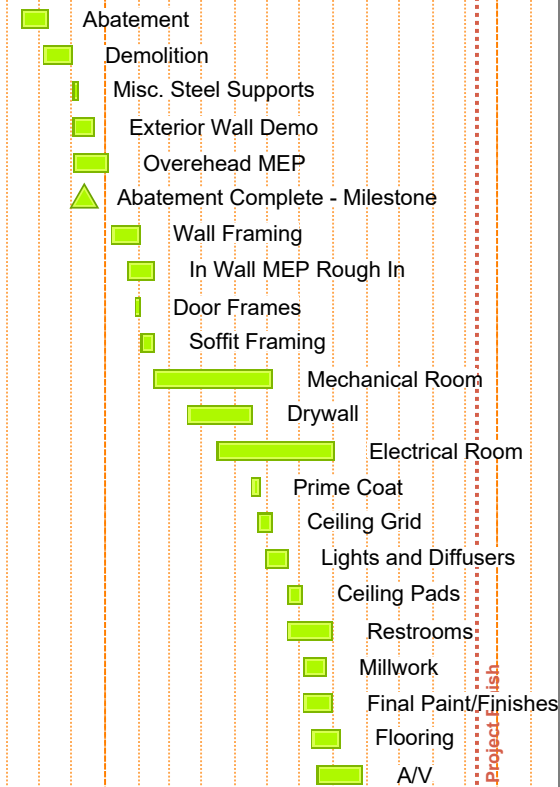
Project Start Data Date

2023

2024

2025

2026



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1310	Doors and Hardware	15	07/24/25	08/13/25
1320	Misc. Specialties	10	08/07/25	08/20/25
1330	Wall Devices	15	08/07/25	08/27/25
1340	FF&E	10	08/21/25	09/03/25
1215	Permanent Power to Substation - Milesto	0	09/04/25	
1350	Final Clean	5	09/04/25	09/10/25
1360	Inspections	5	09/04/25	09/10/25
1370	Punchlist	10	09/11/25	09/24/25

Area C Structural

295	Abatement	10	06/10/24	06/21/24
290	Demo Floor	5	06/24/24	06/28/24
300	Exc. Overburden	10	07/01/24	07/12/24
310	Tie Backs #1	15	07/15/24	08/02/24
330	Tie Backs #2	15	08/05/24	08/23/24
320	Underpin	45	08/05/24	10/04/24
340	Rem. Excavation	10	10/07/24	10/18/24
350	Ftg Col Line 1	3	10/21/24	10/23/24
370	Col Line B Fndns	3	10/24/24	10/28/24
380	Col Line N Fndns	6	10/29/24	11/05/24
360	Foundation Walls	12	11/06/24	11/21/24
390	Rem. Wall/Ftgs	10	11/22/24	12/05/24
365	Demo supported slab & ftg	5	12/06/24	12/12/24

Area B Structural

405	Abatement	5	06/24/24	06/28/24
400	Demo slab	5	07/01/24	07/05/24
410	Shear Wall Ftgs	10	07/08/24	07/19/24
420	Shear Walls	10	07/22/24	08/02/24
402	Excavate Atrium	40	08/05/24	09/27/24
430	Tie Back #1	15	08/26/24	09/13/24
440	Underpin	45	09/16/24	11/15/24
403	Micropiles	40	09/30/24	11/22/24
404	Pile Caps	30	10/24/24	12/04/24
518	Elevator Pit	10	11/06/24	11/19/24
450	Tie Back #2	15	11/18/24	12/06/24
460	Foundations	5	12/09/24	12/13/24
470	Concrete Walls	10	12/16/24	12/27/24

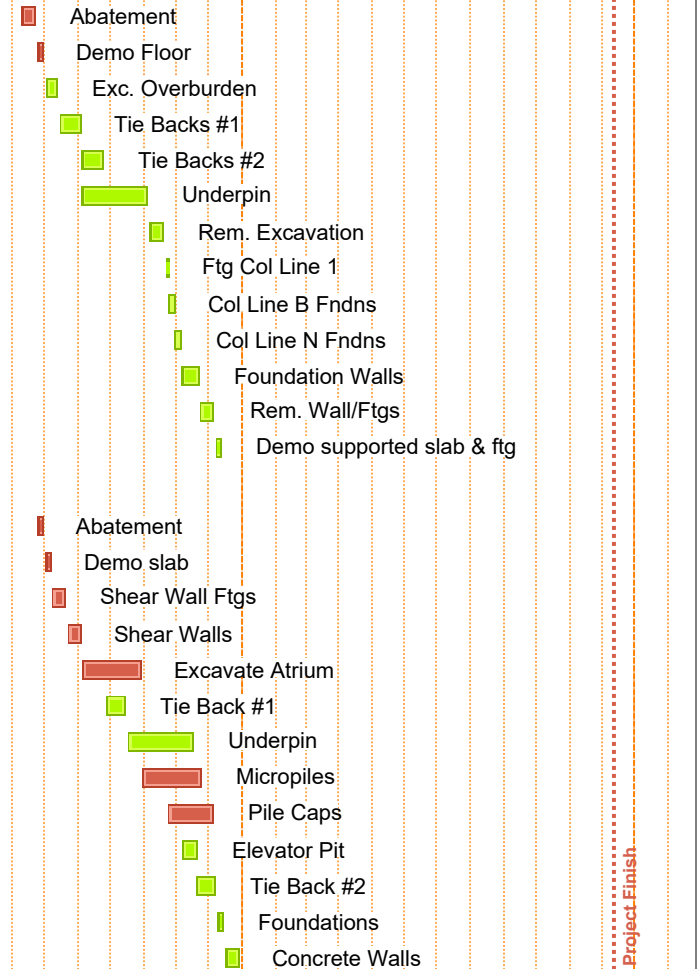
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Finish

480	Backfill//Waterproof	10	12/30/24	01/10/25
490	Slab on grade	8	01/13/25	01/22/25
500	MEP Room	15	01/23/25	02/12/25
Area A Structural				
515	Ftgs	5	07/22/24	07/26/24
517	Shear Walls	5	08/05/24	08/09/24
521	Slab on grade	5	08/12/24	08/16/24
Atrium & Infills				
531	Undeground MEP	10	12/05/24	12/18/24
542	Slab on grade	10	12/19/24	01/01/25
519	Structrual Steel	40	01/02/25	02/26/25
541	Slab on metal deck	15	02/27/25	03/19/25
534	Atrium Stair	20	02/27/25	03/26/25
544	Area C infill	30	03/20/25	04/30/25
522	Skylight	50	03/20/25	05/28/25
524	MEP Rough In	25	05/01/25	06/04/25
523	Roofing	20	05/29/25	06/25/25
536	Railings	30	05/29/25	07/09/25
526	Soffits/Ceilings	30	06/12/25	07/23/25
543	Fireproofing	15	06/26/25	07/16/25
532	Painting	15	07/24/25	08/13/25
553	Atrium Dry In - Milestone	0	08/01/25	
533	Finishes	25	08/14/25	09/17/25
Exterior Envelope				
529	Window Installation	40	03/20/25	05/14/25
525	Wood Trim Repair	60	03/20/25	06/11/25
528	Brick Restoration	60	04/03/25	06/25/25
527	West Gable Repair	15	06/12/25	07/02/25
Site				
12	Mobilize	5	06/03/24	06/07/24
13	Site Fencing	5	06/05/24	06/11/24
546	Site Demo	10	06/12/24	06/25/24
537	Building Waterproofing/drain tile	40	12/09/24	01/31/25
535	Site Utiliies	30	02/03/25	03/14/25
551	Site Fiber/Data Runs	60	02/03/25	04/25/25
538	Site Walls	30	03/17/25	04/25/25

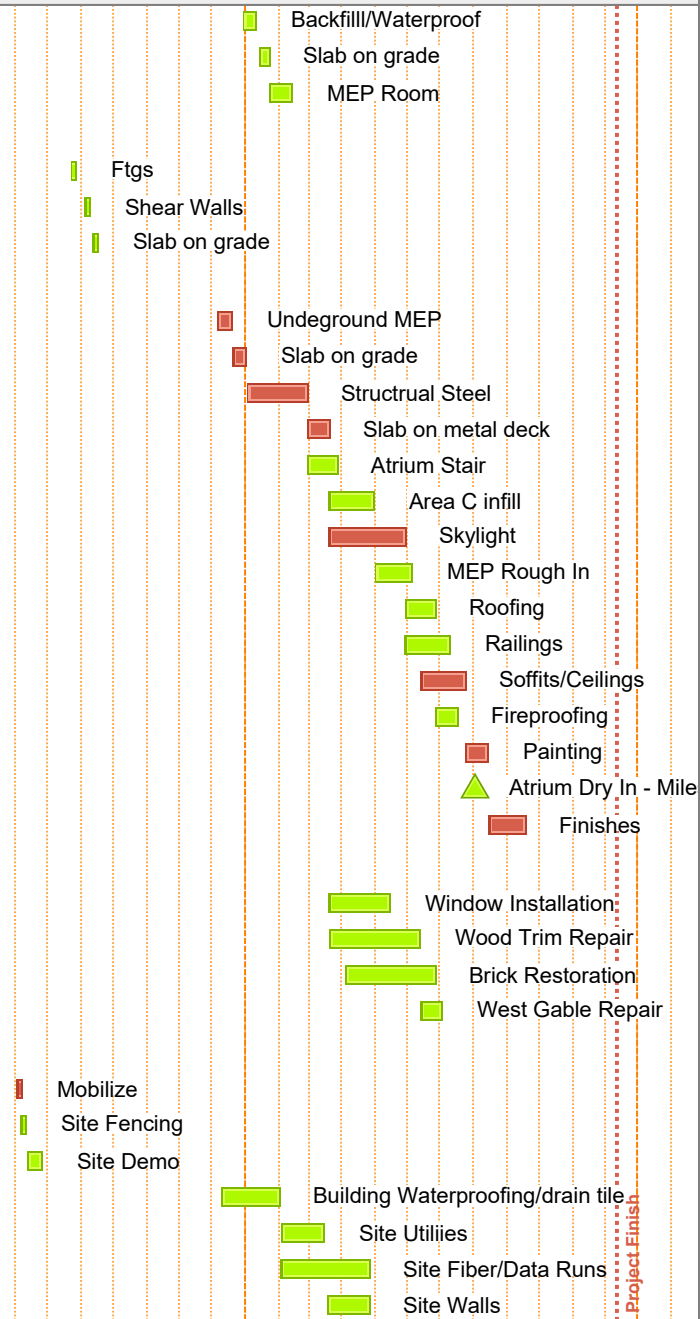
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Exhibit D&E GMP Schedule



Finish

Duration

552	Tunnel support for fire lane	15	04/07/25	04/25/25
539	Fire Lane	35	04/07/25	05/23/25
545	Hardscapes	30	05/26/25	07/04/25
547	Landscape	10	07/07/25	07/18/25
548	Paving	15	07/21/25	08/08/25



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Exhibit D&E GMP Schedule



Exhibit F**Miami University Bachelor Hall Renovation: GMP #2**

MESSER CONSTRUCTION GMP #2				CONSTRUCTION PHASE				
Name	Position	Time Commitment %	Hourly Rate	Start	Finish	Duration (months)	Total (hours)	Total (\$)
Ian Simpson	Operations Vice President	20%	\$188.03	6/1/2024	11/15/2025	17.7	614	115,450
Eric Davis	Project Executive	100%	\$148.24	6/1/2024	11/15/2025	17.7	3,073	455,542
Kelly Cole	General Superintendent	100%	\$147.15	4/1/2024	11/15/2025	19.8	3,426	504,136
Zach White	Project Manager	100%	\$104.10	4/1/2024	11/15/2025	19.8	3,426	356,647
Noah Keyser	Project Engineer	100%	\$81.75	6/1/2024	11/15/2025	17.7	3,073	251,218
Ethan Carder	Senior BSG Manager	25%	\$104.10	6/1/2024	11/15/2025	17.7	767	79,845
Andrea Bridgeford	Project Accountant	20%	\$75.21	6/1/2024	11/15/2025	17.7	615	46,254
TBD	Co-op	100%	\$47.96	6/1/2024	8/1/2025	14.2	515	24,664
Added Staff Per Increased Scope								
Nathan LeMieux	Project Engineer	100%	\$81.75	4/1/2024	11/15/2025	19.8	3,426	280,040
						Construction Stage Total:	18,935	2,113,779

MESSER CONSTRUCTION CO. GMP #1				CONSTRUCTION PHASE				
Name	Position	Time Commitment %	Hourly Rate	Start	Finish	Duration (months)	Total (hours)	Total (\$)
Ian Simpson	Operations Vice President	20	188.03	7/1/2023	6/1/2024	11.2	389	\$73,064
Tony Lemen	Project Executive	100	148.24	6/1/2023	6/1/2024	12.2	2,114	\$313,379
Nathan LeMieux	Project Engineer	100	81.75	6/1/2023	6/1/2024	12.2	2,114	\$172,820
Andrea Bridgeford	Project Accountant	20	75.21	7/1/2023	6/1/2024	11.2	388	\$29,181
						Construction Stage Total:	5,005	\$588,444

MESSER CONSTRUCTION GMP #1&2 Combined				CONSTRUCTION PHASE				
Name	Position	Time Commitment %	Hourly Rate	Start	Finish	Duration (months)	Total (hours)	Total (\$)
Ian Simpson	Operations Vice President	20%	\$188.03	7/1/2023	11/15/2025	28.9	1,003	188,514
Eric Davis	Project Executive	100%	\$148.24	6/1/2023	11/15/2025	29.9	5,187	768,921
Kelly Cole	General Superintendent	100%	\$147.15	4/1/2024	11/15/2025	19.8	3,426	504,136
Zach White	Project Manager	100%	\$104.10	4/1/2024	11/15/2025	19.8	3,426	356,647
Noah Keyser	Project Engineer	100%	\$81.75	6/1/2023	11/15/2025	29.7	5,187	424,038
Ethan Carder	Senior BSG Manager	25%	\$104.10	6/1/2024	11/15/2025	17.7	767	79,845
Andrea Bridgeford	Project Accountant	20%	\$75.21	7/1/2023	11/15/2025	28.9	1,003	75,435
TBD	Co-op	100%	\$47.96	6/1/2024	8/1/2025	14.2	515	24,664
Nathan LeMieux	Project Engineer	100%	\$81.75	4/1/2024	11/15/2025	19.8	3,426	280,040
						Construction Stage Total:	23,940	2,702,223



Messer Construction Co.
4801 Hempstead Station Drive
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Project Number: MUN-100095

Project Name: Miami University Bachelor Hall Renovation

GMP Exhibit G: Subcontractor Work Scopes

Bid Package 2: Bachelor Hall Renovation

BC01: Abatement	BC12: Terrazzo Flooring
BC02: Selective Demolition	BC13: Painting and Wallcovering
BC03: Structural/Misc. Steel	BC14: Elevator
BC04: Masonry and Restoration	BC15: Fire Protection
BC05: Roofing	BC16: Plumbing
BC06: Aluminum Storefront and Glass	BC17: HVAC
BC07: Skylight	BC18: Electrical, Fire Alarm
BC08: General Trades	BC19: Air and Water Balance
BC09: Drywall, Framing, Ceilings, Acoustical Panels	BC20: Landscapes, Hardscapes, Irrigation
BC10: Resilient Flooring	BC21: Site Utilities, Earthwork, Asphalt Paving
BC11: Tile Flooring	BC22: Low Voltage, Security

Bid Package 3: Bachelor Hall Renovation AV Package: Bids 2024

BC23: AV



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GMP Exhibit H: DB's Self-Performed Work

This Exhibit shall serve as notification of Messer Construction Co.'s intent to bid the following bid categories associated with work under Bid Package #2 for Miami University Bachelor Hall Renovation.

- A. BC02 – Selective Demo
- B. BC08 – General Trades

Messer Construction Co. will complete the following work under the threshold permissible by section 4.1.1.3 of the General Conditions. Pricing for the work is included for review and approval prior to commencement. The following is a list of scope items that is included for the sum of **\$200,000.00**.

- A. Wood framed infills on the north and south sides of the roof to create additional attic space. This includes wood posts, framing, rafters, fiber cement board, sheathing, and hoisting associated with this work.



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GMP Exhibit I: Schedule of Allowances

- Audio/Visual Allowance : \$1,997,100.00
- Miscellaneous exterior wood trim repairs on cupola, cornice, fascia, and dormers Allowance: \$75,000.00



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GMP Exhibit J: Schedule of Unit Prices

1. None



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GMP Exhibit K: Schedule of Alternates

A full description of the alternates can be found in specification section 012300 dated May 01, 2023.

- Alternate 1A: Fully operational irrigation system for areas shown in red.
- Alternate 1B: Fully operational irrigation system for areas shown in green.
- Alternate 1C: Provide 4" mainline connection to existing Cook Field supply line northwest of the pond.
- Alternate 2: Landscape improvements.
- Alternate 3: Replace attic insulation in areas B and C.
- Alternate 4: Fall protection system.
- Alternate 5: Provide glass marker boards in Rooms 1042 Great Room, 2073 Bachelor Reading Room, and 3002 Havinghurst Tech Classroom in lieu of standard marker boards.



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GMP Exhibit L: Schedule of Incentives and Shared Savings

1. None

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Sr VP Finance & Business Servs

Miami University

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